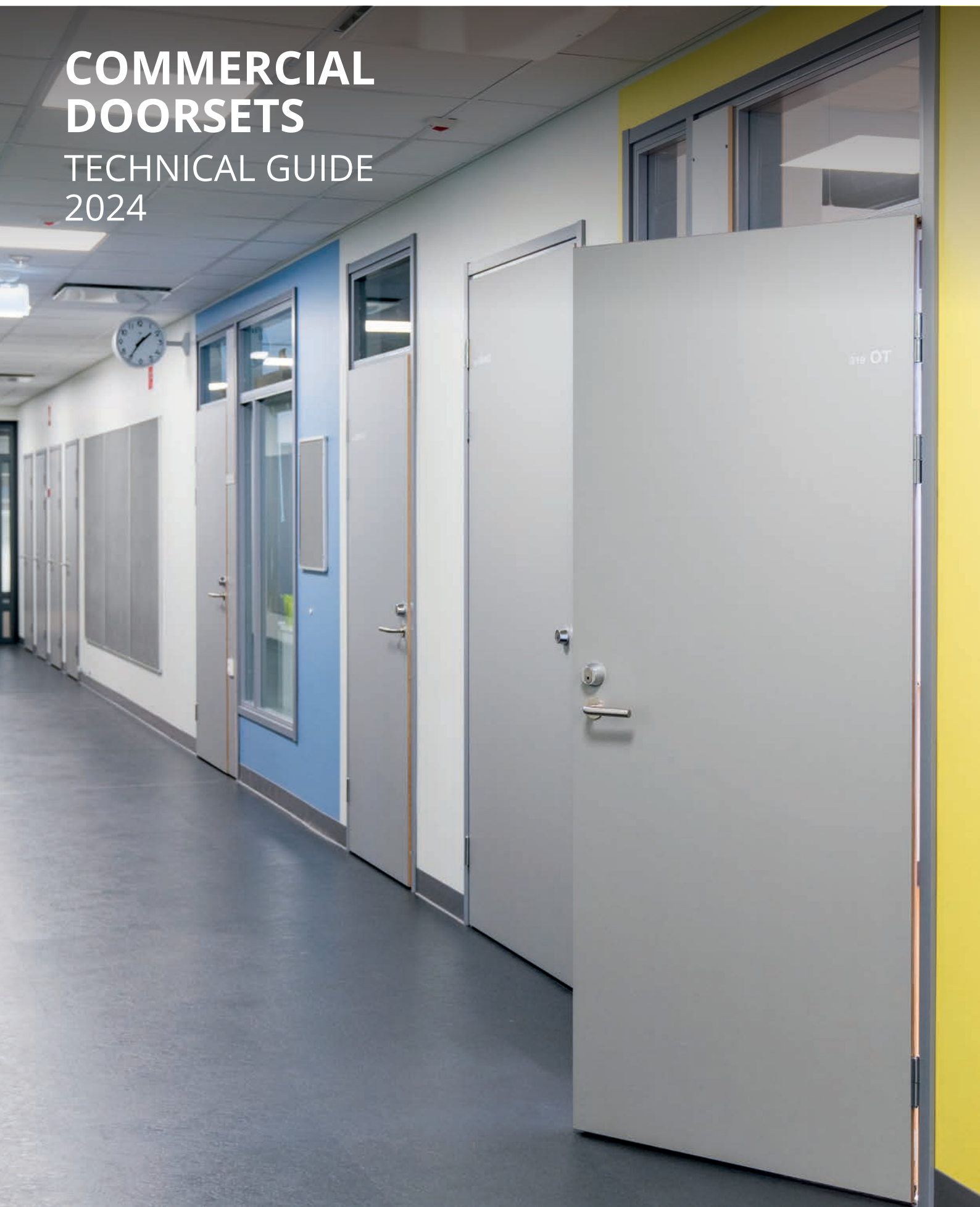


# COMMERCIAL DOORSETS

TECHNICAL GUIDE  
2024



# Introduction

This Technical Guide is for the Swedoor High Performance door set range and will give full detail of the products and their available configurations.

In the booklet we provide the architect, specifier, installation contractor and end user a comprehensive review of the products' dimensions, fire and acoustic performance, site assembly, installation, areas of use and maintenance.

Also included is some further information on product performance.

**Single acting doorsets. Non-rated, smoke, fire and sound rated**

**1**

**Double acting doorsets. Non-rated, smoke, fire and sound rated**

**2**

**Screens**

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**Frames**

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|                         |                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Doors for public environments, such as: Schools, Offices, Toilets etc. where fire rating is not necessary.                                                                                                                                                                            |
| <b>Construction</b>     | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                         |
| <b>Fire</b>             | Non-rated                                                                                                                                                                                                                                                                             |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                                         |
| <b>Edge lipping</b>     | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden colour.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges. |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                               |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                        |
| <b>Frames</b>           | See chapter 5:2.                                                                                                                                                                                                                                                                      |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                                         |
| <b>Double doors</b>     | No astragals - Double doors will be supplied with privacy seal in door meeting, See detail                                                                                                                                                                                            |
| <b>Ironmongery</b>      | Hinges: 7-10M = 3/3228 zinc plated.<br>11-13M = 4/3228 zinc plated.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted on site.                                      |
| <b>Weight</b>           | Module 10: Door leaf approx. 40kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                 |

### Painted surface



### Veneered surface



### Profiled lipping (KUF)



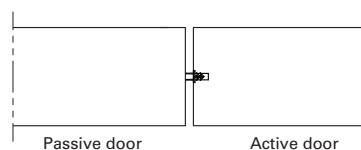
### Concealed lipping (KU)



### Laminate w/pvc-lipping



### Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 625       | 2052   | 560           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 725       | 2052   | 660           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 825       | 2052   | 760           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 925       | 2052   | 860           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1025      | 2052   | 960           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1125      | 2052   | 1060          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1225      | 2052   | 1160          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+398   | 2052   | 1014          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+398   | 2052   | 1104          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+398   | 2052   | 1214          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 712+711   | 2052   | 1314          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 762+761   | 2052   | 1414          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 812+811   | 2052   | 1514          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 862+861   | 2052   | 1614          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 912+911   | 2052   | 1714          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 962+961   | 2052   | 1814          | 1906 |

# Sound rating Rw33dB, 40mm

|                         |                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Public environments, such as: Schools, Offices, Meeting rooms etc. where fire-rating is not necessary, but where sound reduction is required                                                                                                                                        |
| <b>Construction</b>     | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                       |
| <b>Fire</b>             | Non-rated                                                                                                                                                                                                                                                                           |
| <b>Sound</b>            | Sound rating Rw33dB. The frame and the meeting stile in double doors are provided with fin seal. Sound rated doors must be latched                                                                                                                                                  |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                                       |
| <b>Edge lipping</b>     | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges. |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                             |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                      |
| <b>Frames</b>           | See chapter 5:2.                                                                                                                                                                                                                                                                    |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                                       |
| <b>Double doors</b>     | See detail                                                                                                                                                                                                                                                                          |
| <b>Ironmongery</b>      | Hinges: 7-10M = 3/3228 zinc plated.<br>11-13M = 4/3228 zinc plated.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site.                           |
| <b>Weight</b>           | Module 10: Door leaf approx. 45kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                               |

## Painted surface



## Veneered surface



## Profiled lipping (KUF)



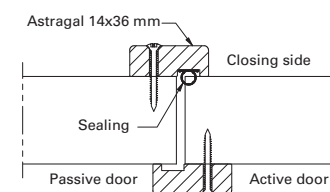
## Concealed lipping (KU)



## Laminate w/pvc-lipping



## Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 625       | 2052   | 560           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 725       | 2052   | 660           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 825       | 2052   | 760           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 925       | 2052   | 860           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1025      | 2052   | 960           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1125      | 2052   | 1060          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1225      | 2052   | 1160          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+398   | 2052   | 1014          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+398   | 2052   | 1104          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+398   | 2052   | 1214          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 712+711   | 2052   | 1314          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 762+761   | 2052   | 1414          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 812+811   | 2052   | 1514          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 862+861   | 2052   | 1614          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 912+911   | 2052   | 1714          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 962+961   | 2052   | 1814          | 1906 |

1:4

|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Doors for environments where fire-rated doors are a demand. Such as: Offices, Schools, Technical areas etc.                                                                                                                                                                                                       |
| <b>Construction</b>     | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                     |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                                |
| <b>Smoke control</b>    | Smoke seal in the door frame. Combined "fin type" twin seal in the active leaf at meeting stiles.                                                                                                                                                                                                                 |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                                                                     |
| <b>Edge lipping</b>     | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges.                              |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                           |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                                                    |
| <b>Frames</b>           | See chapter 5:2.                                                                                                                                                                                                                                                                                                  |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                                                                     |
| <b>Double doors</b>     | No astragals/Intumescent with seal. See detail                                                                                                                                                                                                                                                                    |
| <b>Ironmongery</b>      | Hinges: 7-10M = 3/3228 zinc plated.<br>11M = 4/3228 zinc plated.<br><br>Fitting of pull handles <800mm on site is approved.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site. |
| <b>Weight</b>           | Module 10: Door leaf approx. 40kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                             |

## Painted surface



## Veneered surface



## Profiled lipping (KUF)



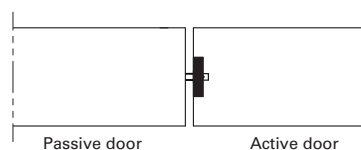
## Concealed lipping (KU)



## Laminate w/pvc-lipping



## Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 625       | 2052   | 560           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 725       | 2052   | 660           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 825       | 2052   | 760           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 925       | 2052   | 860           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1025      | 2052   | 960           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1125      | 2052   | 1060          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1225      | 2052   | 1160          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+398   | 2052   | 1014          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+398   | 2052   | 1104          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+398   | 2052   | 1214          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 712+711   | 2052   | 1314          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 762+761   | 2052   | 1414          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 812+811   | 2052   | 1514          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 862+861   | 2052   | 1614          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 912+911   | 2052   | 1714          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 962+961   | 2052   | 1814          | 1906 |



# Fire rating FD30S, 40mm

## Sound rating Rw33dB

|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Doors for environments where both fire- and acoustic rated doors are a demand. Such as: Offices, Meeting rooms, Schools etc                                                                                                                                                                                       |
| <b>Construction</b>     | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                     |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                                |
| <b>Sound</b>            | Sound rating Rw33dB. The frame and the double doors meeting stile are provided with sealing strips. Sound rated doors must be latched.                                                                                                                                                                            |
| <b>Smoke control</b>    | Smoke seal in door frame and in astragals at meeting stiles.                                                                                                                                                                                                                                                      |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                                                                     |
| <b>Edge lipping</b>     | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges.<br>Melamine lipping in matching wooden color<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges.<br>PVC lipping all 4 edges.                         |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                           |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                                                    |
| <b>Frames</b>           | See chapter 5:2.                                                                                                                                                                                                                                                                                                  |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                                                                     |
| <b>Double doors</b>     | See detail                                                                                                                                                                                                                                                                                                        |
| <b>Ironmongery</b>      | Hinges: 7-10M = 3/3228 zinc plated.<br>11M = 4/3228 zinc plated.<br><br>Fitting of pull handles <800mm on site is approved.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site. |
| <b>Weight</b>           | Module 10: Door leaf approx. 45kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                             |

### Painted surface



### Veneered surface



### Profiled lipping (KUF)



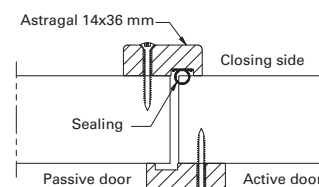
### Concealed lipping (KU)



### Laminate w/pvc-lipping



### Double doors



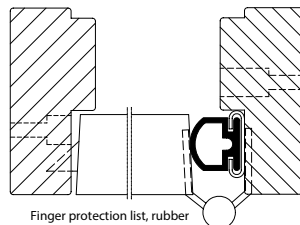
| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 625       | 2052   | 560           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 725       | 2052   | 660           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 825       | 2052   | 760           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 925       | 2052   | 860           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1025      | 2052   | 960           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1125      | 2052   | 1060          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1225      | 2052   | 1160          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+398   | 2052   | 1014          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+398   | 2052   | 1104          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+398   | 2052   | 1214          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 712+711   | 2052   | 1314          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 762+761   | 2052   | 1414          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 812+811   | 2052   | 1514          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 862+861   | 2052   | 1614          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 912+911   | 2052   | 1714          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 962+961   | 2052   | 1814          | 1906 |

# Non-rated, 40mm - fingerprotection

1:6

|                         |                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Finger-protection doors for environments where the demand is to keep especially minor children safe from getting their fingers trapped between door and frame. Such as: Nurseries, kindergartens and schools                                                                         |
| <b>Construction</b>     | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                        |
| <b>Fire</b>             | Non-rated, finger protection                                                                                                                                                                                                                                                         |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                                        |
| <b>Edge lipping</b>     | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges. |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                              |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                       |
| <b>Frames</b>           | See chapter 5:2.                                                                                                                                                                                                                                                                     |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                                        |
| <b>Double doors</b>     | No astragals - Double doors will be supplied with privacy seal in door meeting, See detail                                                                                                                                                                                           |
| <b>Ironmongery</b>      | Hinges: 7-10M = 3/3232 zinc plated.<br>11M = 4/3232 zinc plated.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to on site.                                     |
| <b>Weight</b>           | Module 10: Door leaf approx. 40kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                |

## Finger protection



## Painted surface



## Veneered surface



## Profiled lipping (KUF)



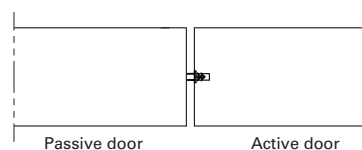
## Concealed lipping (KU)



## Laminate w/pvc-lipping



## Double doors

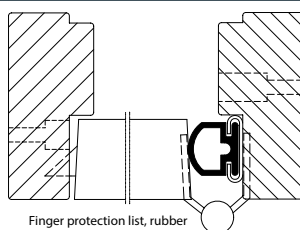


| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 601       | 2052   | 560           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 701       | 2052   | 660           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 801       | 2052   | 760           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 901       | 2052   | 860           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1001      | 2052   | 960           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1101      | 2052   | 1060          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1201      | 2052   | 1160          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+373   | 2052   | 1014          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+373   | 2052   | 1104          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+373   | 2052   | 1214          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 678+677   | 2052   | 1314          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 738+737   | 2052   | 1414          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 778+777   | 2052   | 1514          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 838+837   | 2052   | 1614          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 878+877   | 2052   | 1714          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 938+937   | 2052   | 1814          | 1906 |

# Fire rating FD30S, 40mm - fingerprotection

|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Finger-protection doors for environments where the demand is to keep especially minor children safe from getting their fingers trapped between door and frame. Such as: Nurseries, Kindergartens and Schools. These doors are also fire-rated.                                                                    |
| <b>Construction</b>     | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                     |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                                |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                                                                     |
| <b>Edge lipping</b>     | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges.                              |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                           |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                                                    |
| <b>Frames</b>           | See chapter 5:2.                                                                                                                                                                                                                                                                                                  |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                                                                     |
| <b>Double doors</b>     | No astragals/Intumescent with seal. See detail                                                                                                                                                                                                                                                                    |
| <b>Ironmongery</b>      | Hinges: 7-10M = 3/3232 zinc plated.<br>11M = 4/3232 zinc plated.<br><br>Fitting of pull handles <800mm on site is approved.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site. |
| <b>Weight</b>           | Module 10: Door leaf approx. 40kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                             |

## Finger protection



Finger protection list, rubber

| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 601       | 2052   | 560           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 701       | 2052   | 660           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 801       | 2052   | 760           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 901       | 2052   | 860           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1001      | 2052   | 960           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1101      | 2052   | 1060          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1201      | 2052   | 1160          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+373   | 2052   | 1014          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+373   | 2052   | 1104          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+373   | 2052   | 1214          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 678+677   | 2052   | 1314          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 738+737   | 2052   | 1414          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 778+777   | 2052   | 1514          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 838+837   | 2052   | 1614          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 878+877   | 2052   | 1714          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 938+937   | 2052   | 1814          | 1906 |

## Painted surface



## Veneered surface



## Profiled lipping (KUF)



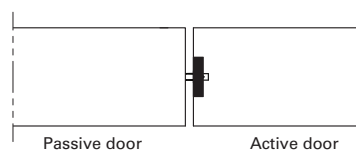
## Concealed lipping (KU)



## Laminate w/pvc-lipping



## Double doors



# Fire rating FD30S, 40mm - fingerprotection

## Sound rating Rw33dB

1:8

|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Finger-protection doors for environments where the demand is to keep especially minor children safe from getting their fingers trapped between door and frame. Such as: Nurseries, Kindergartens and Schools. These doors are also fire- and acoustic rated.                                                      |
| <b>Construction</b>     | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                     |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                                |
| <b>Sound</b>            | Sound rating Rw33dB. The frame and the double doors meeting stile are provided with sealing strips. Sound rated doors must be latched.                                                                                                                                                                            |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                                                                     |
| <b>Edge lipping</b>     | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges.                              |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                           |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                                                    |
| <b>Frames</b>           | See chapter 5:2.                                                                                                                                                                                                                                                                                                  |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                                                                     |
| <b>Double doors</b>     | See detail                                                                                                                                                                                                                                                                                                        |
| <b>Ironmongery</b>      | Hinges: 7-10M = 3/3228 zinc plated.<br>11M = 4/3228 zinc plated.<br><br>Fitting of pull handles <800mm on site is approved.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site. |
| <b>Weight</b>           | Module 10: Door leaf approx. 40kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                             |

### Painted surface



### Veneered surface



### Profiled lipping (KUF)



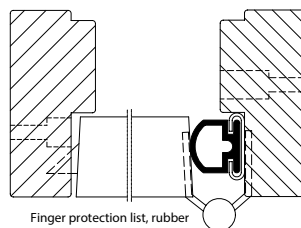
### Concealed lipping (KU)



### Laminate w/pvc-lipping

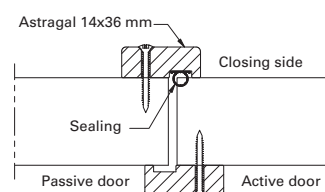


### Finger protection



| Module | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|--------|-------|--------|------------|--------|-----------|--------|---------------|------|
|        | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21   | 710   | 2100   | 686        | 2089   | 601       | 2052   | 560           | 606  |
| 8x21   | 810   | 2100   | 786        | 2089   | 701       | 2052   | 660           | 706  |
| 9x21   | 910   | 2100   | 886        | 2089   | 801       | 2052   | 760           | 806  |
| 10x21  | 1010  | 2100   | 986        | 2089   | 901       | 2052   | 860           | 906  |
| 11x21  | 1110  | 2100   | 1086       | 2089   | 1001      | 2052   | 960           | 1006 |
| 12x21  | 1210  | 2100   | 1186       | 2089   | 1101      | 2052   | 1060          | 1106 |
| 13x21  | 1310  | 2100   | 1286       | 2089   | 1201      | 2052   | 1160          | 1206 |

### Double doors



|                              |                                                                                                                                                                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>           | Doors for public environments, such as: Schools, Offices, Toilets etc. where fire rating is not necessary.                                                                                                                                                                           |
| <b>Construction</b>          | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                        |
| <b>Fire</b>                  | Non-rated                                                                                                                                                                                                                                                                            |
| <b>Door leaf finish</b>      | Veneered, painted or laminate see page.                                                                                                                                                                                                                                              |
| <b>Edge lipping</b>          | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges. |
| <b>Vision panels</b>         | See page 1:25 and 1:26.                                                                                                                                                                                                                                                              |
| <b>Kick plate</b>            | See page 1:29 (optional)                                                                                                                                                                                                                                                             |
| <b>Frames</b>                | See page 5:3.                                                                                                                                                                                                                                                                        |
| <b>Thresholds</b>            | See page 5:5. (drop down seal included)                                                                                                                                                                                                                                              |
| <b>Double doors</b>          | No astragals - Double doors will be supplied with privacy seal in door meeting, See detail                                                                                                                                                                                           |
| <b>Ironmongery</b>           | Hinges: 7-10M = 3/3228 zinc plated.<br>11M = 4/3228 zinc plated.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site.                               |
| <b>Ironmongery positions</b> | See page 1:29                                                                                                                                                                                                                                                                        |
| <b>Weight</b>                | Module 10: Door leaf approx. 50kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                |

## Painted surface



1:9

## Veneered surface



## Profiled lipping (KUF)



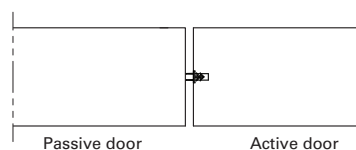
## Concealed lipping (KU)



## Laminate w/pvc-lipping



## Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 625       | 2052   | 555           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 725       | 2052   | 655           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 825       | 2052   | 755           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 925       | 2052   | 855           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1025      | 2052   | 955           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1125      | 2052   | 1055          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1225      | 2052   | 1155          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+398   | 2052   | 1004          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+398   | 2052   | 1104          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+398   | 2052   | 1204          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 712+711   | 2052   | 1304          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 762 + 761 | 2052   | 1404          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 812 + 811 | 2052   | 1504          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 862 + 861 | 2052   | 1604          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 912 + 911 | 2052   | 1704          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 962+ 961  | 2052   | 1804          | 1906 |



|                              |                                                                                                                                                                                                                                                                                                     |  |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Area of use</b>           | Public environments, such as: Schools, Offices, Meeting rooms etc. where fire-rating is not necessary, but where sound reduction is required.                                                                                                                                                       |  |
| <b>Construction</b>          | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                       |  |
| <b>Fire</b>                  | Non-rated                                                                                                                                                                                                                                                                                           |  |
| <b>Sound</b>                 | Sound rating Rw33dB. The frame and the double doors meeting stile are provided with sealing strips. Sound rated doors must be latched.                                                                                                                                                              |  |
| <b>Door leaf finish</b>      | Veneered, painted or laminate                                                                                                                                                                                                                                                                       |  |
| <b>Edge lipping</b>          | <p><u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)</p> <p><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.</p> <p><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges.</p> |  |
| <b>Vision panels</b>         | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                             |  |
| <b>Kick plates</b>           | See page 1:29.                                                                                                                                                                                                                                                                                      |  |
| <b>Frames</b>                | See chapter 5:3.                                                                                                                                                                                                                                                                                    |  |
| <b>Thresholds</b>            | See page 5:5.                                                                                                                                                                                                                                                                                       |  |
| <b>Double doors</b>          | See detail                                                                                                                                                                                                                                                                                          |  |
| <b>Ironmongery</b>           | <p>Hinges: 7-10M = 3/3228 zinc plated.<br/>11M = 4/3228 zinc plated.</p> <p>Lock: Sash lock as standard.</p> <p>Striking plate: To match lock.</p> <p>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site.</p>                                  |  |
| <b>Ironmongery positions</b> | See page 1:29.                                                                                                                                                                                                                                                                                      |  |
| <b>Weight</b>                | Module 10: Door leaf approx. 55kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                               |  |

### Painted surface



### Veneered surface



### Profiled lipping (KUF)



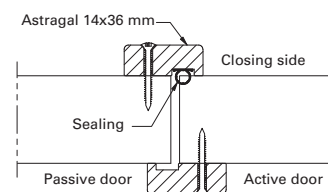
### Concealed lipping (KU)



### Laminate w/pvc-lipping



### Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 625       | 2052   | 555           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 725       | 2052   | 655           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 825       | 2052   | 755           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 925       | 2052   | 855           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1025      | 2052   | 955           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1125      | 2052   | 1055          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1225      | 2052   | 1155          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+398   | 2052   | 1004          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+398   | 2052   | 1104          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+398   | 2052   | 1204          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 712+711   | 2052   | 1304          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 762+761   | 2052   | 1404          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 812+811   | 2052   | 1504          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 862+861   | 2052   | 1604          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 912+911   | 2052   | 1704          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 962+961   | 2052   | 1804          | 1906 |

|                              |                                                                                                                                                                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>           | Doors for environments where fire-rated doors are a necessity. Such as: Offices, Schools, Technical areas etc.                                                                                                                                                                                                     |
| <b>Construction</b>          | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                      |
| <b>Fire</b>                  | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                                 |
| <b>Smoke control</b>         | Smoke seal in door frame and in astragals at meeting stiles.                                                                                                                                                                                                                                                       |
| <b>Door leaf finish</b>      | Veneered, painted or laminate                                                                                                                                                                                                                                                                                      |
| <b>Edge lipping</b>          | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges.                               |
| <b>Vision panels</b>         | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                            |
| <b>Kick plates</b>           | See page 1:29.                                                                                                                                                                                                                                                                                                     |
| <b>Frames</b>                | See chapter 5:3.                                                                                                                                                                                                                                                                                                   |
| <b>Thresholds</b>            | See page 5:5.                                                                                                                                                                                                                                                                                                      |
| <b>Double doors</b>          | No astragals/Intumescent with seal. See detail                                                                                                                                                                                                                                                                     |
| <b>Ironmongery</b>           | Hinges: 7-10M = 3/3228 zinc plated.<br>11M = 4/3228 zinc plated.<br><br>Fitting of pull handles <1000mm on site is approved.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site. |
| <b>Ironmongery positions</b> | See page 1:29.                                                                                                                                                                                                                                                                                                     |
| <b>Weight</b>                | Module 10: Door leaf approx. 50kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                              |

## Painted surface



## Veneered surface



## Profiled lipping (KUF)



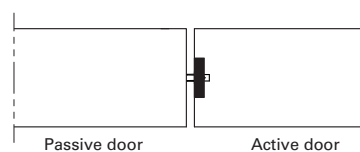
## Concealed lipping (KU)



## Laminate w/pvc-lipping



## Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 625       | 2052   | 555           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 725       | 2052   | 655           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 825       | 2052   | 755           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 925       | 2052   | 855           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1025      | 2052   | 955           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1125      | 2052   | 1055          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1225      | 2052   | 1155          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+398   | 2052   | 1004          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+398   | 2052   | 1104          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+398   | 2052   | 1204          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 712+711   | 2052   | 1304          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 762 + 761 | 2052   | 1404          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 812 + 811 | 2052   | 1504          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 862 + 861 | 2052   | 1604          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 912 + 911 | 2052   | 1704          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 962+ 961  | 2052   | 1804          | 1906 |

# Fire rating FD30S, 45mm

## Sound rating Rw33dB

1:12

|                              |                                                                                                                                                                                                                                                                                                                    |  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Area of use</b>           | Doors for environments where both fire- and acoustic rated doors are a necessity. Such as: Offices, Meeting rooms, Schools etc.                                                                                                                                                                                    |  |
| <b>Construction</b>          | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                      |  |
| <b>Fire</b>                  | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                                 |  |
| <b>Sound</b>                 | Sound rating Rw33dB. The frame and the double doors meeting stile are provided with sealing strips. Sound rated doors must be latched.                                                                                                                                                                             |  |
| <b>Smoke control</b>         | Smoke seal in door frame and in astragals at meeting stiles.                                                                                                                                                                                                                                                       |  |
| <b>Door leaf finish</b>      | Veneered, painted or laminate                                                                                                                                                                                                                                                                                      |  |
| <b>Door lippings</b>         | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges.                               |  |
| <b>Vision panels</b>         | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                            |  |
| <b>Kick plates</b>           | See page 1:29.                                                                                                                                                                                                                                                                                                     |  |
| <b>Frames</b>                | See chapter 5:3.                                                                                                                                                                                                                                                                                                   |  |
| <b>Thresholds</b>            | See page 5:5.                                                                                                                                                                                                                                                                                                      |  |
| <b>Double doors</b>          | See detail                                                                                                                                                                                                                                                                                                         |  |
| <b>Ironmongery</b>           | Hinges: 7-10M = 3/3228 zinc plated.<br>11M = 4/3228 zinc plated.<br><br>Fitting of pull handles <1000mm on site is approved.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site. |  |
| <b>Ironmongery positions</b> | See page 1:29.                                                                                                                                                                                                                                                                                                     |  |
| <b>Weight</b>                | Module 10: Door leaf approx. 50kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                              |  |

### Painted surface



### Veneered surface



### Profiled lipping (KUF)



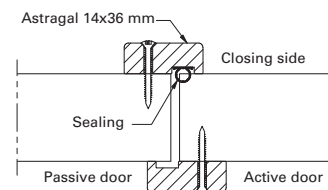
### Concealed lipping (KU)



### Laminate w/pvc-lipping



### Double doors



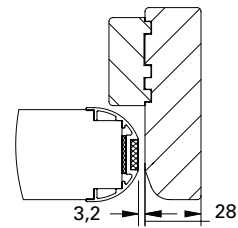
| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 625       | 2052   | 555           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 725       | 2052   | 655           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 825       | 2052   | 755           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 925       | 2052   | 855           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1025      | 2052   | 955           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1125      | 2052   | 1055          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1225      | 2052   | 1155          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+398   | 2052   | 1004          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+398   | 2052   | 1104          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+398   | 2052   | 1204          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 712+711   | 2052   | 1304          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 762 + 761 | 2052   | 1404          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 812 + 811 | 2052   | 1504          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 862 + 861 | 2052   | 1604          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 912 + 911 | 2052   | 1704          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 962+ 961  | 2052   | 1804          | 1906 |



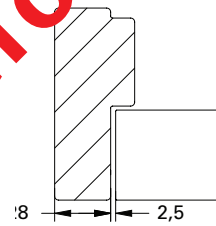
# Non-rated Safehinge 45mm

|                  |                                                                                                                                                                                                                                                                          |                        |  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|
| Area of use      | Door sets to provide finger protection for extra safety in Schools, Leisure Centres, Nursery and Children Hospitals etc.                                                                                                                                                 |                        |  |
| Fire             | Non-rated                                                                                                                                                                                                                                                                |                        |  |
| Construction     | 45 mm, see detail                                                                                                                                                                                                                                                        |                        |  |
| Door leaf finish | Veneered, painted or laminate                                                                                                                                                                                                                                            |                        |  |
| Door lippings    | <u>Painted doors:</u> Melamine in lock side<br><u>Veneered doors:</u> Concealed or profiled lipping 3 edges.<br>(top/bottom/lock side)<br><u>Laminate doors:</u> Concealed or profiled lipping 3 edges.<br>(top/bottom/lock side).<br>PVC lipping (top/bottom/lock side) |                        |  |
| Vision panels    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                  |                        |  |
| Kick plates      | See page 1:29.                                                                                                                                                                                                                                                           |                        |  |
| Frames           | See chapter 5:3.                                                                                                                                                                                                                                                         |                        |  |
| Thresholds       | See page 5:5.                                                                                                                                                                                                                                                            |                        |  |
| Double doors     | See detail                                                                                                                                                                                                                                                               |                        |  |
| Ironmongery      | Hinges:                                                                                                                                                                                                                                                                  | Two pivot hinges       |  |
|                  | Lock:                                                                                                                                                                                                                                                                    | Sash lock as standard. |  |
|                  | Strike:                                                                                                                                                                                                                                                                  | To match lock          |  |
| Weight           | Module 10: Door leaf approx. 50kg.<br>93mm wooden frame approx. 10kg                                                                                                                                                                                                     |                        |  |

Hinge side



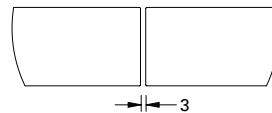
Single door, stop side



Detail top frame



Double doors



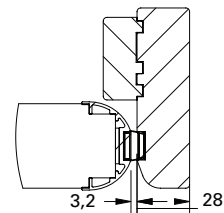
Door meeting

| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 624       | 2032   | 569           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 724       | 2032   | 669           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 824       | 2032   | 769           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 924       | 2032   | 869           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1024      | 2032   | 969           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1124      | 2032   | 1069          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1224      | 2032   | 1169          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 722+398   | 2032   | 1032          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 822+398   | 2032   | 1132          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 922+398   | 2032   | 1232          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 710+710   | 2032   | 1332          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 760+760   | 2032   | 1432          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 810+810   | 2032   | 1532          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 860+860   | 2032   | 1632          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 910+910   | 2032   | 1732          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 960+960   | 2032   | 1832          | 1906 |

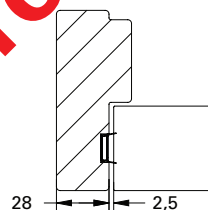
Door height is based on 6 mm undercut.

|                         |                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Door sets to provide finger protection for extra safety in Schools, Leisure Centres, Nursery and Children Hospitals etc.                                                                                                                                           |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                 |
| <b>Construction</b>     | Please see detail                                                                                                                                                                                                                                                  |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                      |
| <b>Door lippings</b>    | <u>Painted doors:</u> Melamine in lock side<br><u>Veneered doors:</u> Concealed or profiled lipping 3 edges. (top/bottom/lock side)<br><u>Laminate doors:</u> Concealed or profiled lipping 3 edges. (top/bottom/lock side).<br>PVC lipping (top/bottom/lock side) |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                            |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                     |
| <b>Frames</b>           | See chapter 5:3.                                                                                                                                                                                                                                                   |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                      |
| <b>Double doors</b>     | No astragals/Intumescent with seal. See detail                                                                                                                                                                                                                     |
| <b>Ironmongery</b>      | Hinges: Two pivot hinges<br><br>Lock: Sash lock as standard<br><br>Strike: To match lock.                                                                                                                                                                          |
| <b>Weight</b>           | Module 10: Door leaf approx. 50kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                              |

Hinge side



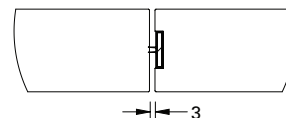
Single door, stop side



Detail top frame



Double doors



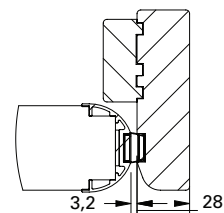
| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 624       | 2030   | 569           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 724       | 2030   | 669           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 824       | 2030   | 769           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 924       | 2030   | 869           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1024      | 2030   | 969           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1124      | 2030   | 1069          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1224      | 2030   | 1169          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 722+398   | 2030   | 1032          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 822+398   | 2030   | 1132          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 922+398   | 2030   | 1232          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 710+710   | 2030   | 1332          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 760+760   | 2030   | 1432          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 810+810   | 2030   | 1532          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 860+860   | 2030   | 1632          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 910+910   | 2030   | 1732          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 960+960   | 2030   | 1832          | 1906 |

Door height is based on aluminium threshold.

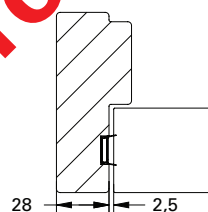
# Safehinge, fire rating FD30S, 45mm Sound rating Rw33dB

|                         |                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Door sets to provide finger protection for extra safety in Schools, Leisure Centres, Nursery and Children Hospitals etc.                                                                                                                                           |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                 |
| <b>Construction</b>     | Please see detail                                                                                                                                                                                                                                                  |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                      |
| <b>Door lippings</b>    | <u>Painted doors:</u> Melamine in lock side<br><u>Veneered doors:</u> Concealed or profiled lipping 3 edges. (top/bottom/lock side)<br><u>Laminate doors:</u> Concealed or profiled lipping 3 edges. (top/bottom/lock side).<br>PVC lipping (top/bottom/lock side) |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                            |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                     |
| <b>Frames</b>           | See chapter 5:3.                                                                                                                                                                                                                                                   |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                      |
| <b>Double doors</b>     | See detail                                                                                                                                                                                                                                                         |
| <b>Ironmongery</b>      | Hinges: Two pivot hinges<br><br>Lock: Sash lock as standard<br><br>Strike: To match lock                                                                                                                                                                           |
| <b>Weight</b>           | Module 10: Door leaf approx. 55kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                              |

Hinge side



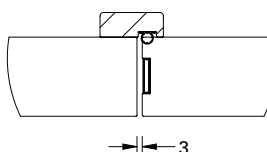
Single door, stop side



Detail top frame



Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 624       | 2030   | 569           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 724       | 2030   | 669           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 824       | 2030   | 769           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 924       | 2030   | 869           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1024      | 2030   | 969           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1124      | 2030   | 1069          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1224      | 2030   | 1169          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 722+398   | 2030   | 1032          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 822+398   | 2030   | 1132          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 922+398   | 2030   | 1232          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 710+710   | 2030   | 1332          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 760+760   | 2030   | 1432          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 810+810   | 2030   | 1532          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 860+860   | 2030   | 1632          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 910+910   | 2030   | 1732          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 960+960   | 2030   | 1832          | 1906 |

Door height is based on aluminium threshold.

|                              |                                                                                                                                                                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>           | Doors for environments where both fire- and acoustic rated doors are a demand. Such as: Offices, Meeting rooms, Schools etc.                                                                                                                                                                                       |
| <b>Construction</b>          | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                      |
| <b>Fire</b>                  | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                                 |
| <b>Smoke control</b>         | Smoke seal in door frame and in astragals at meeting stiles.                                                                                                                                                                                                                                                       |
| <b>Door leaf finish</b>      | Veneered, painted or laminate                                                                                                                                                                                                                                                                                      |
| <b>Door lippings</b>         | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges.                               |
| <b>Vision panels</b>         | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                            |
| <b>Kick plates</b>           | See page 1:29.                                                                                                                                                                                                                                                                                                     |
| <b>Frames</b>                | See chapter 5:4.                                                                                                                                                                                                                                                                                                   |
| <b>Thresholds</b>            | See page 5:5.                                                                                                                                                                                                                                                                                                      |
| <b>Double doors</b>          | Astragal only fitted on doors >2352                                                                                                                                                                                                                                                                                |
| <b>Ironmongery</b>           | Hinges: 7-10M = 3/3228 zinc plated.<br>11M = 4/3228 zinc plated.<br><br>Fitting of pull handles <1000mm on site is approved.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site. |
| <b>Ironmongery positions</b> | See page 1:29                                                                                                                                                                                                                                                                                                      |
| <b>Weight</b>                | Module 10: Door leaf approx. 58kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                              |

### Painted surface



### Veneered surface



### Profiled lipping (KUF)



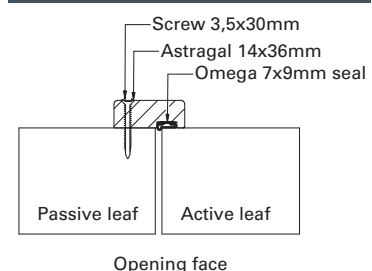
### Concealed lipping (KU)



### Laminate w/pvc-lipping



### Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 624       | 2052   | 546           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 724       | 2052   | 646           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 824       | 2052   | 746           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 924       | 2052   | 846           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1024      | 2052   | 946           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1124      | 2052   | 1046          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1224      | 2052   | 1146          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 724+398   | 2052   | 986           | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 824+398   | 2052   | 1086          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 924+398   | 2052   | 1186          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 711+711   | 2052   | 1286          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 761+761   | 2052   | 1386          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 811+811   | 2052   | 1486          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 861+861   | 2052   | 1586          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 911+911   | 2052   | 1686          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 961+961   | 2052   | 1786          | 1906 |

# Fire rating FD30S, 54mm

## Sound rating Rw38dB

|                              |                                                                                                                                                                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>           | Doors for environments where both fire- and acoustic rated doors are a demand. Such as: Offices, Meeting rooms, Schools etc.                                                                                                                                                                                       |
| <b>Construction</b>          | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                      |
| <b>Fire</b>                  | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                                 |
| <b>Sound</b>                 | Sound rating Rw38dB. The frame and the double doors meeting stile are provided with sealing strips. Sound rated doors must be latched.                                                                                                                                                                             |
| <b>Smoke control</b>         | Smoke seal in door frame and in astragals at meeting stiles.                                                                                                                                                                                                                                                       |
| <b>Door leaf finish</b>      | Veneered, painted or laminate                                                                                                                                                                                                                                                                                      |
| <b>Door lippings</b>         | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges.                               |
| <b>Vision panels</b>         | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                            |
| <b>Kick plates</b>           | See page 1:29.                                                                                                                                                                                                                                                                                                     |
| <b>Frames</b>                | See chapter 5:4.                                                                                                                                                                                                                                                                                                   |
| <b>Thresholds</b>            | See page 5:5.                                                                                                                                                                                                                                                                                                      |
| <b>Double doors</b>          | Astragal only fitted on doors >2352                                                                                                                                                                                                                                                                                |
| <b>Ironmongery</b>           | Hinges: 7-10M = 3/3228 zinc plated.<br>11M = 4/3228 zinc plated.<br><br>Fitting of pull handles <1000mm on site is approved.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site. |
| <b>Ironmongery positions</b> | See page 1:29                                                                                                                                                                                                                                                                                                      |
| <b>Weight</b>                | Module 10: Door leaf approx. 58kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                              |

### Painted surface



### Veneered surface



### Profiled lipping (KUF)



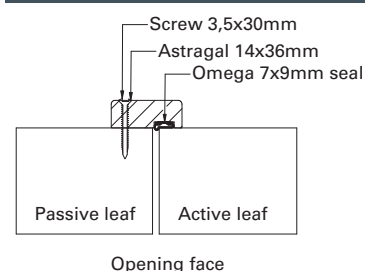
### Concealed lipping (KU)



### Laminate w/pvc-lipping



### Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 624       | 2052   | 546           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 724       | 2052   | 646           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 824       | 2052   | 746           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 924       | 2052   | 846           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1024      | 2052   | 946           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1124      | 2052   | 1046          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1224      | 2052   | 1146          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 724+398   | 2052   | 986           | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 824+398   | 2052   | 1086          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 924+398   | 2052   | 1186          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 711+711   | 2052   | 1286          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 761+761   | 2052   | 1386          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 811+811   | 2052   | 1486          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 861+861   | 2052   | 1586          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 911+911   | 2052   | 1686          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 961+961   | 2052   | 1786          | 1906 |

|                              |                                                                                                                                                                                                                                                                                                                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>           | Doors for environments where fire- and acoustic rated doors are a demand. Such as: Offices, Meeting rooms, Schools etc.                                                                                                                                                                                           |
| <b>Construction</b>          | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                     |
| <b>Fire</b>                  | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                                |
| <b>Smoke control</b>         | Smoke seal in door frame and in astragals at meeting stiles.                                                                                                                                                                                                                                                      |
| <b>Door leaf finish</b>      | Veneered, painted or laminate                                                                                                                                                                                                                                                                                     |
| <b>Door lippings</b>         | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> PVC lipping all 4 edges.                                                                                                                      |
| <b>Vision panels</b>         | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                           |
| <b>Kick plates</b>           | See page 1:29.                                                                                                                                                                                                                                                                                                    |
| <b>Frames</b>                | See chapter 5:4.                                                                                                                                                                                                                                                                                                  |
| <b>Thresholds</b>            | See page 5:5.                                                                                                                                                                                                                                                                                                     |
| <b>Double doors</b>          | Astragal only fitted on doors >2352                                                                                                                                                                                                                                                                               |
| <b>Ironmongery</b>           | Hinges: 7-10M = 3/3228 zinc plated.<br>11M = 4/3228 zinc plated.<br><br>Fitting of pull handles <800mm on site is approved.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site. |
| <b>Ironmongery positions</b> | See page 1:29                                                                                                                                                                                                                                                                                                     |
| <b>Weight</b>                | Module 10: Door leaf approx. 58kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                             |

**Note:** No astragals fitted from factory. Optional extra, add to order.

### Painted surface



### Veneered surface



### Profiled lipping (KUF)



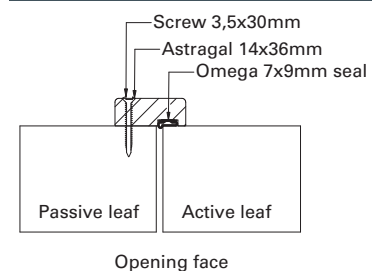
### Concealed lipping (KU)



### Laminate w/pvc-lipping



### Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 624       | 2052   | 546           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 724       | 2052   | 646           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 824       | 2052   | 746           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 924       | 2052   | 846           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1024      | 2052   | 946           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1124      | 2052   | 1046          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1224      | 2052   | 1146          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 724+398   | 2052   | 986           | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 824+398   | 2052   | 1086          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 924+398   | 2052   | 1186          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 711+711   | 2052   | 1286          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 761+761   | 2052   | 1386          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 811+811   | 2052   | 1486          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 861+861   | 2052   | 1586          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 911+911   | 2052   | 1686          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 961+961   | 2052   | 1786          | 1906 |



# Fire rating FD60S, 54mm

## Sound rating Rw38dB

|                              |                                                                                                                                                                                                                                                                                                                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>           | Doors for environments where both fire- and acoustic rated doors are a demand. Such as: Offices, Meeting rooms, Schools etc.                                                                                                                                                                                      |
| <b>Construction</b>          | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                     |
| <b>Fire</b>                  | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                                |
| <b>Sound</b>                 | Sound rating Rw38dB. The frame and the double doors meeting stile are provided with sealing strips. Sound rated doors must be latched.                                                                                                                                                                            |
| <b>Smoke control</b>         | Smoke seal in door frame and in astragals at meeting stiles.                                                                                                                                                                                                                                                      |
| <b>Door leaf finish</b>      | Veneered, painted or laminate                                                                                                                                                                                                                                                                                     |
| <b>Door lippings</b>         | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> PVC lipping all 4 edges.                                                                                                                      |
| <b>Vision panels</b>         | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                           |
| <b>Kick plates</b>           | See page 1:29.                                                                                                                                                                                                                                                                                                    |
| <b>Frames</b>                | See chapter 5:4.                                                                                                                                                                                                                                                                                                  |
| <b>Thresholds</b>            | See page 5:5.                                                                                                                                                                                                                                                                                                     |
| <b>Double doors</b>          | Astragal on all door heights                                                                                                                                                                                                                                                                                      |
| <b>Ironmongery</b>           | Hinges: 7-10M = 3/3232 zinc plated.<br>11M = 4/3232 zinc plated.<br><br>Fitting of pull handles <800mm on site is approved.<br><br>Lock: Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted to frame on site. |
| <b>Ironmongery positions</b> | See page 1:29.                                                                                                                                                                                                                                                                                                    |
| <b>Weight</b>                | Module 10: Door leaf approx. 58kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                             |

**Note:** No astragals fitted from factory. Optional extra, add to order.

| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 624       | 2052   | 546           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 724       | 2052   | 646           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 824       | 2052   | 746           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 924       | 2052   | 846           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1024      | 2052   | 946           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1124      | 2052   | 1046          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1224      | 2052   | 1146          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 724+398   | 2052   | 986           | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 824+398   | 2052   | 1086          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 924+398   | 2052   | 1186          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 711+711   | 2052   | 1286          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 761+761   | 2052   | 1386          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 811+811   | 2052   | 1486          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 861+861   | 2052   | 1586          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 911+911   | 2052   | 1686          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 961+961   | 2052   | 1786          | 1906 |

Door height is based on aluminium threshold.

We are subject to design changes  
01-12-2023

### Painted surface



### Veneered surface



### Profiled lipping (KUF)



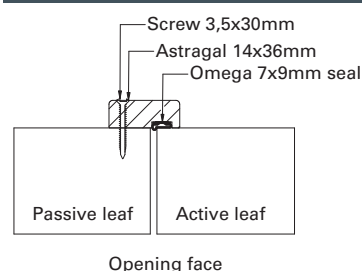
### Concealed lipping (KU)



### Laminate w/pvc-lipping



### Double doors



**SWEDOOR® JELD-WEN**

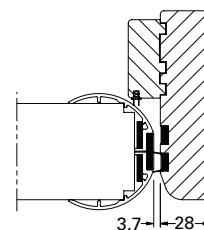
1:19

# Safehinge, fire rating FD30S, 54mm Sound rating Rw35dB

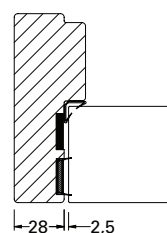
1:20

|                         |                                                                                                                                                                                                                                                                    |                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Area of use</b>      | Door sets to provide finger protection for extra safety in Schools, Leisure Centres, Nursery and Children Hospitals etc.                                                                                                                                           |                        |
| <b>Fire</b>             | Non-rated                                                                                                                                                                                                                                                          |                        |
| <b>Construction</b>     | Please see detail                                                                                                                                                                                                                                                  |                        |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                      |                        |
| <b>Door lippings</b>    | <u>Painted doors:</u> Melamine in lock side<br><u>Veneered doors:</u> Concealed or profiled lipping 3 edges. (top/bottom/lock side)<br><u>Laminate doors:</u> Concealed or profiled lipping 3 edges. (top/bottom/lock side).<br>PVC lipping (top/bottom/lock side) |                        |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                            |                        |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                     |                        |
| <b>Frames</b>           | See chapter 5:4.                                                                                                                                                                                                                                                   |                        |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                      |                        |
| <b>Double doors</b>     | See detail.                                                                                                                                                                                                                                                        |                        |
| <b>Ironmongery</b>      | Hinges:                                                                                                                                                                                                                                                            | Two pivot hinges       |
|                         | Lock:                                                                                                                                                                                                                                                              | Sash lock as standard. |
|                         | Strike:                                                                                                                                                                                                                                                            | To match lock          |
| <b>Weight</b>           | Module 10: Door leaf approx. 50kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                              |                        |

Hinge side



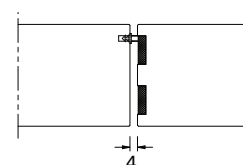
Single door, stop side



Detail top frame



Double doors

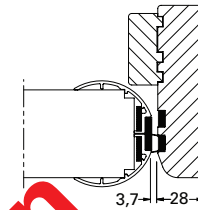


| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 624       | 2029   | 569           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 724       | 2029   | 669           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 824       | 2029   | 769           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 924       | 2029   | 869           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1024      | 2029   | 969           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1124      | 2029   | 1069          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1224      | 2029   | 1169          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 720+398   | 2029   | 1032          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 820+398   | 2029   | 1132          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 920+398   | 2029   | 1232          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 709+709   | 2029   | 1332          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 759+759   | 2029   | 1432          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 809+809   | 2029   | 1532          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 859+859   | 2029   | 1632          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 909+909   | 2029   | 1732          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 959+959   | 2029   | 1832          | 1906 |

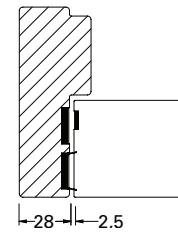
Door height is based on aluminium threshold.

|                         |                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Door sets to provide finger protection for extra safety in Schools, Leisure Centres, Nursery and Children Hospitals etc.                                                                                                                                           |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                 |
| <b>Construction</b>     | Please see detail                                                                                                                                                                                                                                                  |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                      |
| <b>Door lippings</b>    | <u>Painted doors:</u> Melamine in lock side<br><u>Veneered doors:</u> Concealed or profiled lipping 3 edges. (top/bottom/lock side)<br><u>Laminate doors:</u> Concealed or profiled lipping 3 edges. (top/bottom/lock side).<br>PVC lipping (top/bottom/lock side) |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                            |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                     |
| <b>Frames</b>           | See chapter 5:4.                                                                                                                                                                                                                                                   |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                      |
| <b>Double doors</b>     | See detail.                                                                                                                                                                                                                                                        |
| <b>Ironmongery</b>      | Hinges: Two pivot hinges<br><br>Lock: Sash lock as standard<br><br>Strike: To match lock                                                                                                                                                                           |
| <b>Weight</b>           | Module 10: Door leaf approx. 50kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                              |

Hinge side



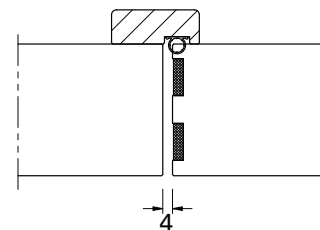
Single door, stop side



Detail top frame



Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 624       | 2029   | 569           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 724       | 2029   | 669           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 824       | 2029   | 769           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 924       | 2029   | 869           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1024      | 2029   | 969           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1124      | 2029   | 1069          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1224      | 2029   | 1169          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 720+398   | 2029   | 1032          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 820+398   | 2029   | 1132          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 920+398   | 2029   | 1232          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 709+709   | 2029   | 1332          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 759+759   | 2029   | 1432          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 809+809   | 2029   | 1532          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 859+859   | 2029   | 1632          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 909+909   | 2029   | 1732          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 959+959   | 2029   | 1832          | 1906 |

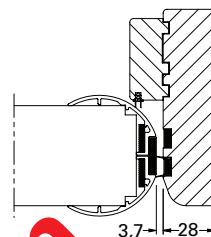
Door height is based on aluminium threshold.

# Safehinge, fire rating FD60, 54mm Sound rating Rw35dB

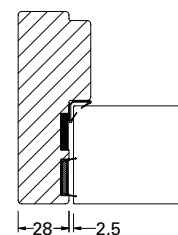
1:22

|                         |                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Door sets to provide finger protection for extra safety in Schools, Leisure Centres, Nursery and Children Hospitals etc.                                                                                                                                           |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>Top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                 |
| <b>Construction</b>     | Please see detail                                                                                                                                                                                                                                                  |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                                                                                      |
| <b>Door lippings</b>    | <u>Painted doors:</u> Melamine in lock side<br><u>Veneered doors:</u> Concealed or profiled lipping 3 edges. (top/bottom/lock side)<br><u>Laminate doors:</u> Concealed or profiled lipping 3 edges. (top/bottom/lock side).<br>PVC lipping (top/bottom/lock side) |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                            |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                     |
| <b>Frames</b>           | See chapter 5:4.                                                                                                                                                                                                                                                   |
| <b>Thresholds</b>       | See page 5:5.                                                                                                                                                                                                                                                      |
| <b>Double doors</b>     | See detail.                                                                                                                                                                                                                                                        |
| <b>Ironmongery</b>      | Hinges: Two pivot hinges<br><br>Lock: Sash lock as standard<br><br>Strike: To match lock                                                                                                                                                                           |
| <b>Weight</b>           | Module 10: Door leaf approx. 50kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                              |

Hinge side



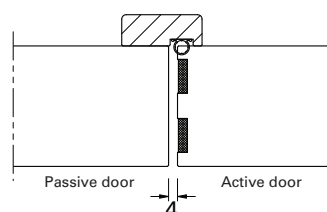
Single door, stop side



Detail top frame



Double doors



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 624       | 2029   | 569           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 724       | 2029   | 669           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 824       | 2029   | 769           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 924       | 2029   | 869           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1024      | 2029   | 969           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1124      | 2029   | 1069          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1224      | 2029   | 1169          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 720+398   | 2029   | 1032          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 820+398   | 2029   | 1132          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 920+398   | 2029   | 1232          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 709+709   | 2029   | 1332          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 759+759   | 2029   | 1432          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 809+809   | 2029   | 1532          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 859+859   | 2029   | 1632          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 909+909   | 2029   | 1732          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 959+959   | 2029   | 1832          | 1906 |

# Fire rating FD30S, 60mm

## Sound rating Rw38dB

|                              |                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>           | Public environments, such as: Schools, Offices, Meeting rooms etc. where fire-rating is not necessary, but where sound reduction is required.                                                                                                                                                                                                                          |
| <b>Construction</b>          | Please see detail.<br>Surface mounted door closer can be mounted without extra reinforcement.                                                                                                                                                                                                                                                                          |
| <b>Fire</b>                  | The jamb and the head of the frame and all four sides of the door leaf is provided with intumescent.                                                                                                                                                                                                                                                                   |
| <b>Smoke</b>                 | Smoke control doors must be latched. Smoke seal in door leaf rebate and in rebate of active leaf of double door. Double door with flush meeting stiles has a combined "fin type" twin seal.                                                                                                                                                                            |
| <b>Sound</b>                 | Sound rating Rw 38dB. The door leaf is provided with sealing strips. Double door sealing strip in meeting stile only of active door.<br>Sound rated doors must be latched.                                                                                                                                                                                             |
| <b>Door leaf finish</b>      | Veneered, painted or laminate                                                                                                                                                                                                                                                                                                                                          |
| <b>Edge lipping</b>          | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden color.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges.                                                                                   |
| <b>Vision panels</b>         | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                                                                                |
| <b>Kick plates</b>           | See page 1:29.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Frames</b>                | See chapter 5:2.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Thresholds</b>            | See page 5:5.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Double doors</b>          | Astragals optional                                                                                                                                                                                                                                                                                                                                                     |
| <b>Ironmongery</b>           | Hinges: 7-10M = 3/3228 zinc plated.<br>11M = 4/3228 zinc plated.<br><br>Fitting of pull handles <1000mm on site is approved.<br><br>Lock: Latched lock required.<br>Sash lock as standard.<br>Striking plate: To match lock.<br><br>Flush bolt for door pair: Top and bottom fixed flush bolts (manual). Keep to be fitted on site.<br>Concealed door closer optional. |
| <b>Ironmongery positions</b> | See page 1:29.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Weight</b>                | Module 10: Door leaf approx. 55kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                                                                                  |

### Painted surface



### Veneered surface



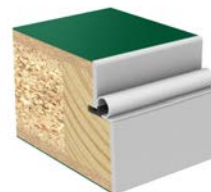
### Profiled lipping (KUF)



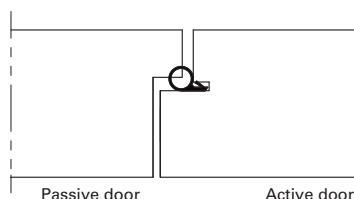
### Concealed lipping (KU)



### Laminate w/pvc-lipping



### Double doors



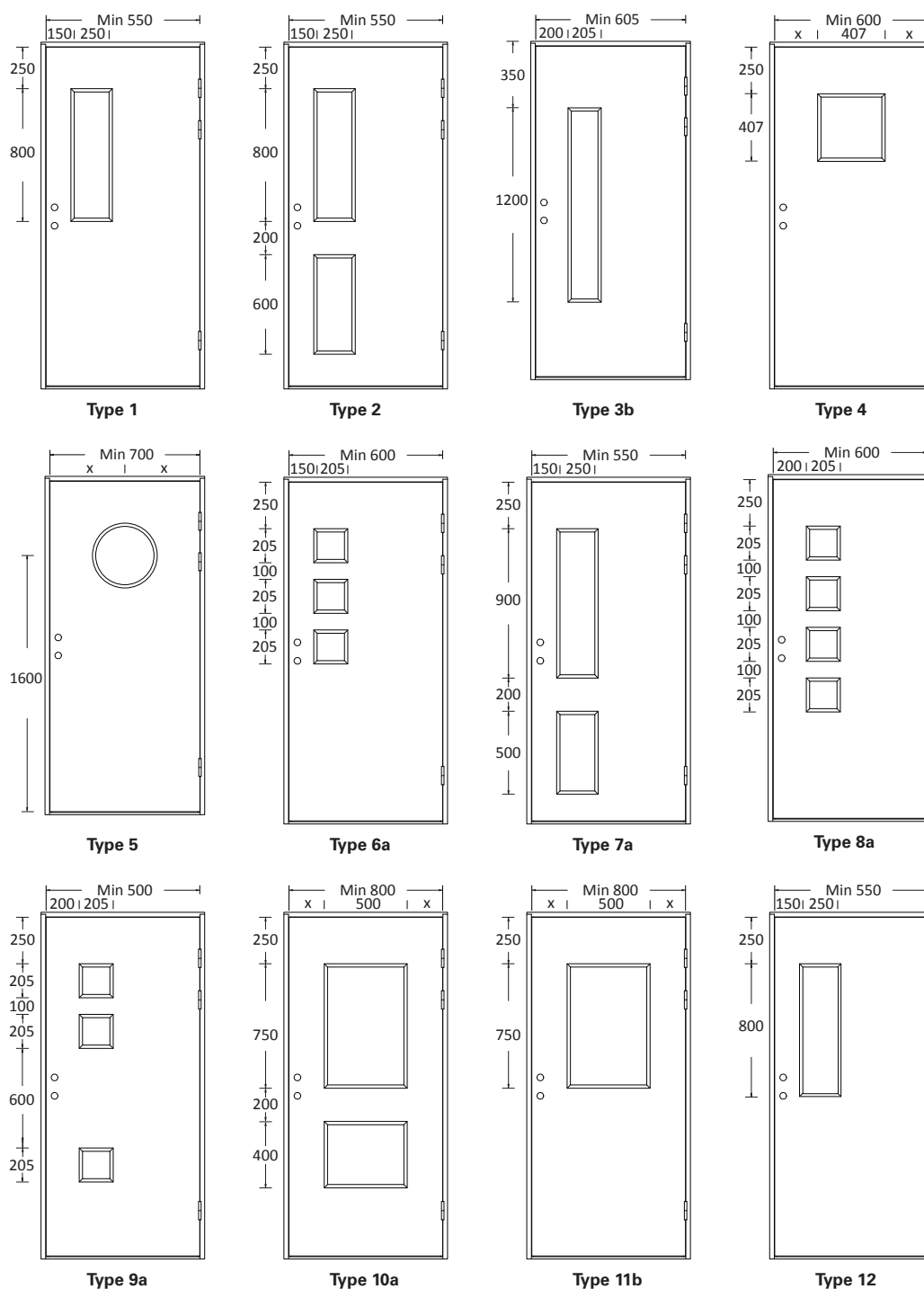
| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |      |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           | 180° |
| 7x21          | 710   | 2100   | 686        | 2089   | 625       | 2052   | 539           | 606  |
| 8x21          | 810   | 2100   | 786        | 2089   | 725       | 2052   | 639           | 706  |
| 9x21          | 910   | 2100   | 886        | 2089   | 825       | 2052   | 739           | 806  |
| 10x21         | 1010  | 2100   | 986        | 2089   | 925       | 2052   | 839           | 906  |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1025      | 2052   | 939           | 1006 |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1125      | 2052   | 1039          | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1225      | 2052   | 1139          | 1206 |
| Unequal Pairs |       |        |            |        |           |        |               |      |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 725+410   | 2052   | 973           | 1106 |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 825+410   | 2052   | 1073          | 1206 |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 925+410   | 2052   | 1173          | 1306 |
| Equal Pairs   |       |        |            |        |           |        |               |      |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 718+717   | 2052   | 1273          | 1406 |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 768+767   | 2052   | 1373          | 1506 |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 818+817   | 2052   | 1473          | 1606 |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 868+867   | 2052   | 1573          | 1706 |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 918+917   | 2052   | 1673          | 1806 |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 968+967   | 2052   | 1773          | 1906 |

## Special sizes

To maintain the stability of the door the distance from doorleaf edge to aperture should be minimum 150mm, and at top and bottom of door leaf a minimum of 200mm. Cut outs in classified products are subject to maximum allowances in Fire/Sound Certification, please ask for advice on this.

## Glass

As standard the doors are delivered glazed.



1. Measures shown are for glass aperture cut out (visible area is less)
2. Types 2 and 14 meet the requirements of DDA.
3. Other sizes are optional at extra cost.
4. Vistamatic only available in 40/45mm non-rated.
5. Dimensions shown are for standard height Single Acting door leaves. Some dimensions will change in non standard height leaves.

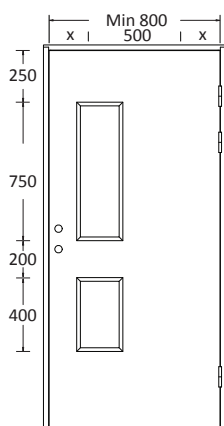


## Special sizes

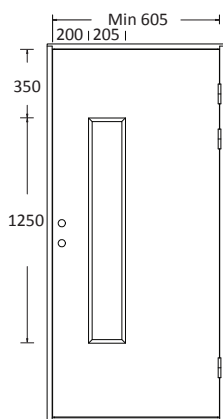
To maintain the stability of the door the distance from doorleaf edge to aperture should be minimum 150mm, and at top and bottom of doorleaf a minimum of 200mm (Cut outs in classified products are subject to maximum allowances in Fire/Sound Certification).

## Glass

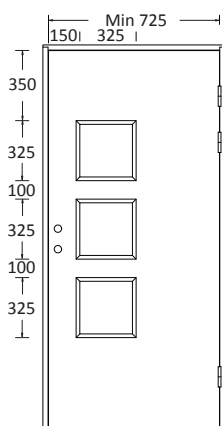
As standard the doors are delivered glazed. Vision panel V1A and V2A are delivered without glass, but with beads prepared for 21mm Vistamatic glass.



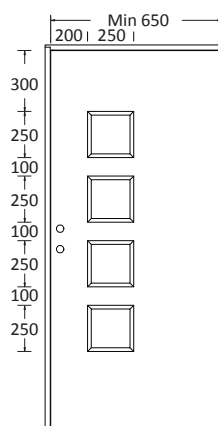
Type 13a



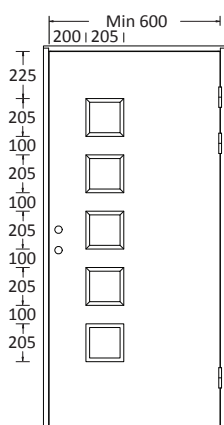
Type 14c



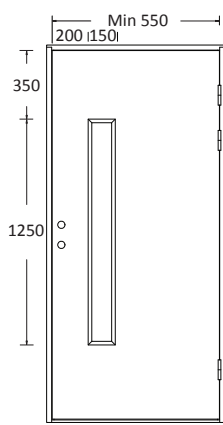
Type 15a



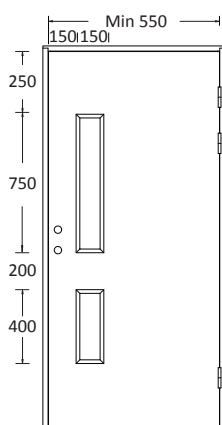
Type 16a



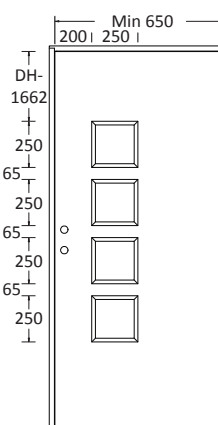
Type 17a



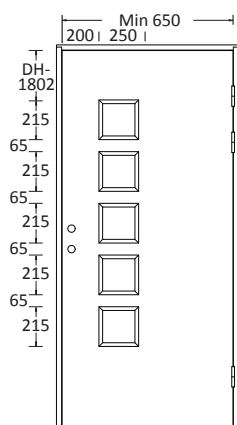
Type 18



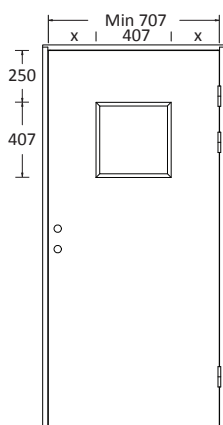
Type 19



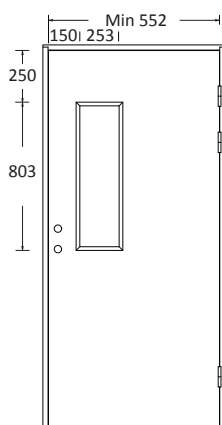
Type 21



Type 22



Type V1A



Type V2A

1. Measures shown are for glass aperture cut out (visible area is less)
2. Types 2 and 14 meet the requirements of DDA.
3. Other sizes are optional at extra cost.
4. Vistamatic only available in 40/45mm non-rated.
5. Dimensions shown are for standard height Single Acting door leaves. Some dimensions will change in non standard height leaves.

| Thickness door | Fire rating | Sound rating | Page | Glass type                | Vision panel Type 1-V2A* | Vision panel Type 5 | Detail |
|----------------|-------------|--------------|------|---------------------------|--------------------------|---------------------|--------|
| 40 mm          | -           | -            | 1:2  | 6mm toughened glass       | x                        | x                   | 1      |
|                | -           | Rw33dB       | 1:3  | 6mm toughened glass       | x                        | x                   | 2      |
|                | FD30S       | -            | 1:4  | 11 mm Contraflam Doorlite | x                        | -                   | 3      |
|                | FD30S       | Rw 33dB      | 1:5  | 11 mm Contraflam Doorlite | x                        | -                   | 3      |
| 45 mm          | -           | -            | 1:9  | 6mm toughened glass       | x                        | x                   | 1      |
|                | -           | RW33dB       | 1:10 | 6mm toughened glass       | x                        | x                   | 2      |
|                | FD30S       | -            | 1:11 | 11 mm Contraflam Doorlite | x                        | -                   | 3      |
|                | FD30S       | Rw33dB       | 1:12 | 11 mm Contraflam Doorlite | x                        | -                   | 3      |
| 54 mm          | FD30S       | Rw38dB       | 1:16 | 11 mm Contraflam Doorlite | x                        | -                   | 4      |
|                | FD60S       | -            | 1:17 | 11 mm Contraflam Doorlite | x                        | -                   | 4      |
|                | FD60S       | Rw38dB       | 1:18 | 11 mm Contraflam Doorlite | x                        | -                   | 4      |
| 62 mm          | FD30S       | Rw38dB       | 1:22 | 11 mm Contraflam Doorlite | x                        | -                   | 5      |
|                | FD60S       | -            | 1:23 | 11 mm Contraflam Doorlite | x                        | -                   | 5      |
|                | FD60S       | Rw38dB       | 1:24 | 16 mm Contraflam Doorlite | x                        | -                   | 6      |

\* Vision Panel type 5 excluded

Please note the standard fixing is with countersunk screws.

Fig 1.

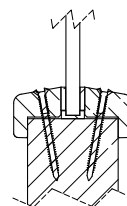


Fig 2.

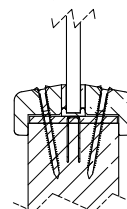


Fig 3.

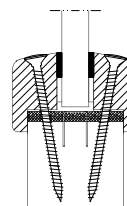


Fig 4.

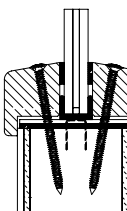


Fig 5.

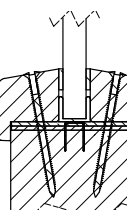
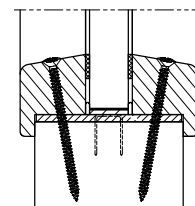


Fig 6.



|                      |       | Edge band | Concealed lipping<br>(KU) | Profiled lipping<br>(KUF) | PVC Lipping |
|----------------------|-------|-----------|---------------------------|---------------------------|-------------|
| 40mm, 45mm, and 54mm |       |           |                           |                           |             |
|                      | ROUND |           |                           |                           |             |
| 60mm doors           | FALS  |           |                           |                           |             |
|                      | ROUND |           |                           |                           |             |
|                      | FAS   |           |                           |                           |             |

(KU) Concealed lipping is concealed by veneer or laminate on door face, but exposed on door edge.

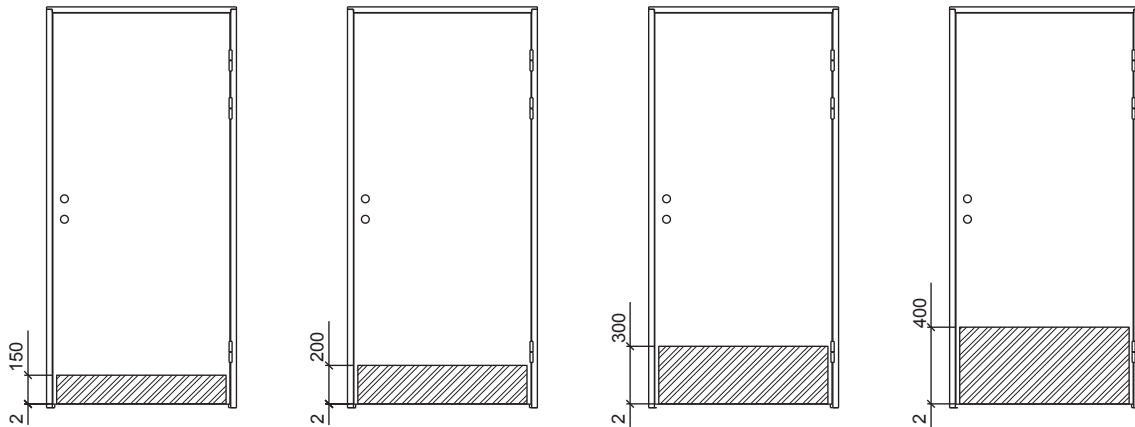
(KUF) Profiled lipping is only partially concealed by veneer or laminate on door face, and is otherwise exposed.

| Single acting doors                           |          |          |     |     |      |          |            |
|-----------------------------------------------|----------|----------|-----|-----|------|----------|------------|
| Door specification / edge lipping             | HW4      | HW2      | EB4 | EB2 | PVC4 | EDGE/P   | SAFE HINGE |
| Single doors                                  |          |          |     |     |      |          |            |
| 40mm paint                                    | laminate | laminate | ✓   | ✓   | -    | -        | -          |
| 40mm veneer                                   | ✓        | ✓        | ✓   | ✓   | -    | -        | -          |
| 40mm laminate                                 | ✓        | ✓        | ✓   | ✓   | ✓    | -        | -          |
| 45mm paint                                    | laminate | laminate | ✓   | ✓   | -    | ✓        | laminate   |
| 45mm veneer                                   | ✓        | ✓        | -   | -   | -    | ✓        | ✓          |
| 45mm laminate                                 | ✓        | ✓        | -   | -   | ✓    | ✓        | ✓          |
| 54mm paint                                    | laminate | laminate | ✓   | ✓   | -    | -        | laminate   |
| 54mm veneer                                   | ✓        | ✓        | ✓   | ✓   | -    | -        | ✓          |
| 54mm laminate                                 | ✓        | ✓        | ✓   | ✓   | ✓    | -        | ✓          |
| 62mm paint rebated edges                      | laminate | laminate | -   | ✓   | -    | -        | -          |
| 62mm veneer rebated edges                     | ✓        | ✓        | -   | ✓   | -    | -        | -          |
| 62mm laminate rebated edges                   | ✓        | ✓        | -   | ✓   | ✓    | -        | -          |
| Double doors                                  |          |          |     |     |      |          |            |
| 62mm paint pairs with flush meeting stiles    | laminate | laminate | -   | -   | -    | laminate | -          |
| 62mm veneer pairs with flush meeting stiles   | ✓        | ✓        | -   | -   | -    | ✓        | -          |
| 62mm laminate pairs with flush meeting stiles | ✓        | ✓        | -   | -   | -    | ✓        | -          |
| 62mm paint pairs with rebated edges           | laminate | laminate | -   | ✓   | -    | -        | -          |
| 62mm veneer pairs with rebated edges          | ✓        | ✓        | -   | ✓   | -    | -        | -          |
| 62mm laminate pairs with rebated edges        | ✓        | ✓        | -   | ✓   | ✓    | -        | -          |
| Double acting doors                           |          |          |     |     |      |          |            |
| 40mm paint                                    | laminate | laminate | -   | -   | -    | -        | -          |
| 40mm veneer / laminate                        | ✓        | ✓        | -   | -   | -    | -        | -          |
| 45mm paint                                    | laminate | laminate | -   | -   | -    | ✓        | -          |
| 45mm veneer / laminate                        | ✓        | ✓        | -   | -   | -    | ✓        | -          |
| 54mm paint                                    | laminate | laminate | -   | -   | -    | -        | -          |
| 54mm veneer / laminate                        | ✓        | ✓        | -   | -   | -    | -        | -          |
| 62mm paint pairs with standard round/round    | laminate | laminate | -   | -   | -    | ✓        | -          |
| 62mm veneer pairs with standard round/round   | ✓        | ✓        | -   | -   | -    | ✓        | -          |
| 62mm laminate pairs with standard round/round | ✓        | ✓        | -   | -   | -    | ✓        | -          |

Explanation: HW= hardwood, EB = edge band, EDGE/P = Edge protection.

# Kick plates, Ironmongery positions:

1:28

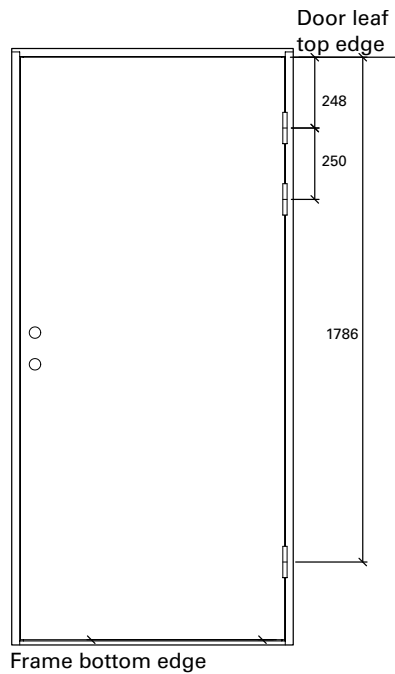


The dimensions indicated are valid for the bottom edge of the door leaf. Stainless kick plates is a standard option. Other materials can be quoted.

Stainless kick plates (1mm) is standard option.

## Single acting doors

### Standard location ironmongery M21



Notes area with horizontal dotted lines for writing.

1:30





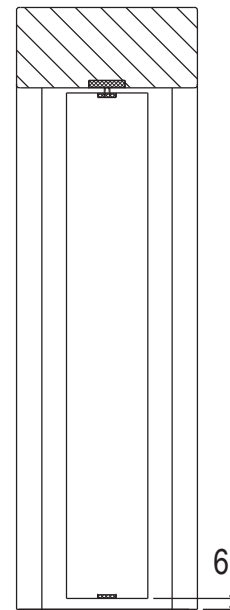
| <b>Double acting doorsets</b>                   | <b>Page</b> |
|-------------------------------------------------|-------------|
| Double action doorsets, non-rated, 45mm         | 2:2         |
| Double action doorsets, Fire rating FD30S, 45mm | 2:3         |
| Double action doorsets, Fire rating FD30S, 54mm | 2:4         |
| Double action doorsets, FD60, 54mm              | 2:5         |
| Double action doorsets, FD60, 62mm              | 2:6         |

# Double action doorsets, non-rated, 45mm

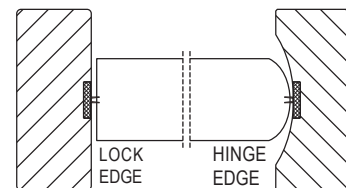
2:2

|                         |                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Doors for buildings with high traffic areas such as Hospitals, where there is a necessity for the doors to opening swing both ways.                                                           |
| <b>Construction</b>     | Please see detail.<br>Special leaf with double rail for concealed closer.                                                                                                                     |
| <b>Fire</b>             | Non-rated                                                                                                                                                                                     |
| <b>Door leaf finish</b> | Veneered, painted or laminate                                                                                                                                                                 |
| <b>Edge lipping</b>     | <u>Painted doors:</u> With laminate and hardwood lipping.<br><u>Veneered doors:</u> Hardwood Concealed- or Profiled lipping<br><u>Laminate doors:</u> Hardwood Concealed- or Profiled lipping |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                       |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                |
| <b>Frames</b>           | See chapter 5.                                                                                                                                                                                |
| <b>Thresholds</b>       | See page 5:5                                                                                                                                                                                  |
| <b>Ironmongery</b>      | No ironmongery included.<br>Concealed door closer optional.                                                                                                                                   |
| <b>Weight</b>           | Module 10: Door leaf approx. 54kg.<br>93mm wooden frame approx. 10kg.                                                                                                                         |
| <b>Undercut</b>         | Standard supplied with 6mm undercut.                                                                                                                                                          |

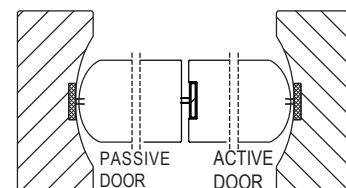
## Section view



## Single door



## Double door



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           |
| 7x21          | 710   | 2100   | 686        | 2089   | 606       | 2038   | 536           |
| 8x21          | 810   | 2100   | 786        | 2089   | 706       | 2038   | 636           |
| 9x21          | 910   | 2100   | 886        | 2089   | 806       | 2038   | 736           |
| 10x21         | 1010  | 2100   | 986        | 2089   | 906       | 2038   | 836           |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1006      | 2038   | 936           |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1106      | 2038   | 1036          |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1206      | 2038   | 1136          |
| Unequal Pairs |       |        |            |        |           |        |               |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 706+407   | 2038   | 971           |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 806+407   | 2038   | 1071          |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 906+407   | 2038   | 1171          |
| Equal Pairs   |       |        |            |        |           |        |               |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 707+706   | 2038   | 1271          |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 757+756   | 2038   | 1371          |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 807+806   | 2038   | 1471          |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 857+856   | 2038   | 1571          |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 907+906   | 2038   | 1671          |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 957+956   | 2038   | 1771          |

Other sizes may be available on request

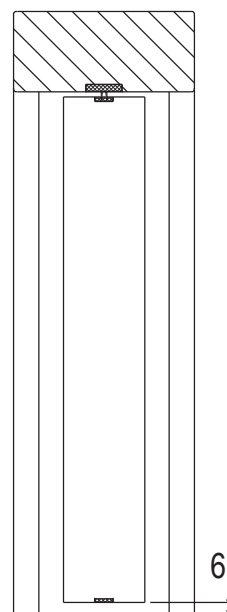
We are subject to design changes  
01-12-2023

**SWEDOOR® JELD-WEN**

# Double action doorsets, Fire rating FD30S, 45mm

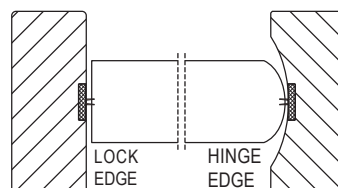
|                         |                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Doors for buildings such as Hospitals, Hotels etc. where the doors need to be FD30 fire-rated as well as opening swing both ways.                                                                                                                                                              |
| <b>Construction</b>     | Please see detail.<br>Special leaf with double rail for concealed closer.                                                                                                                                                                                                                      |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>The top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                         |
| <b>Smoke control</b>    | ?                                                                                                                                                                                                                                                                                              |
| <b>Door leaf finish</b> | Veneered, painted or laminate see page 2:3                                                                                                                                                                                                                                                     |
| <b>Edge lipping</b>     | <u>Painted doors:</u> With laminate and hardwood lipping.<br><u>Veneered doors:</u> Hardwood Concealed- or Profiled lipping<br><u>Laminate doors:</u> Hardwood Concealed- or Profiled lipping                                                                                                  |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                        |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                                 |
| <b>Frames</b>           | See chapter 5.                                                                                                                                                                                                                                                                                 |
| <b>Thresholds</b>       | See page 5:5                                                                                                                                                                                                                                                                                   |
| <b>Ironmongery</b>      | No ironmongery included.<br>Concealed door closer optional.<br>Pivots and concealed door closers must be fitted in intumescent envelope.<br>On site fitting of pull handles <500mm is approved.<br>(Mortices for pivots and pumps can be factory prepared, but may require final work on site) |
| <b>Weight</b>           | Module 10: Door leaf approx. 54kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                          |
| <b>Undercut</b>         | Standard supplied with 6mm undercut.                                                                                                                                                                                                                                                           |

## Section view

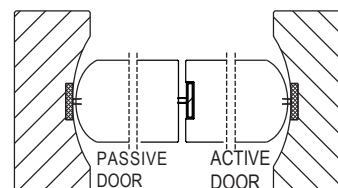


2:3

## Single door



## Double door



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           |
| 7x21          | 710   | 2100   | 686        | 2089   | 606       | 2038   | 536           |
| 8x21          | 810   | 2100   | 786        | 2089   | 706       | 2038   | 636           |
| 9x21          | 910   | 2100   | 886        | 2089   | 806       | 2038   | 736           |
| 10x21         | 1010  | 2100   | 986        | 2089   | 906       | 2038   | 836           |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1006      | 2038   | 936           |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 1106      | 2038   | 1036          |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 1206      | 2038   | 1136          |
| Unequal Pairs |       |        |            |        |           |        |               |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 706+407   | 2038   | 971           |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 806+407   | 2038   | 1071          |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 906+407   | 2038   | 1171          |
| Equal Pairs   |       |        |            |        |           |        |               |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 707+706   | 2038   | 1271          |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 757+756   | 2038   | 1371          |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 807+806   | 2038   | 1471          |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 857+856   | 2038   | 1571          |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 907+906   | 2038   | 1671          |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 957+956   | 2038   | 1771          |

Other sizes may be available on request

We are subject to design changes  
01-12-2023

**SWEDOOR® JELD-WEN**

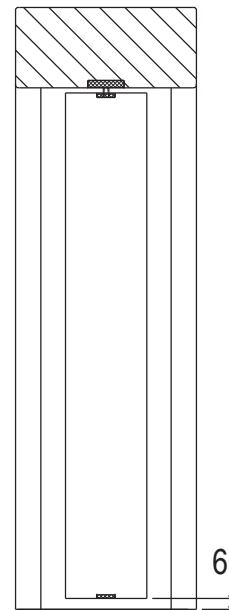
# Double action doorsets, Fire rating FD30, 54mm

New page, check content

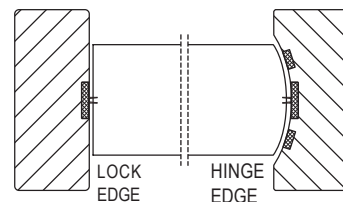
2:4

|                         |                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Doors for buildings with high traffic areas such as Hospitals, where there is a necessity for the doors to opening swing both ways.                                                                                                                                                            |
| <b>Construction</b>     | Please see detail.<br>Special leaf with double rail for concealed closer.                                                                                                                                                                                                                      |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>The top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                         |
| <b>Door leaf finish</b> | Veneered, painted or laminate see page 2:4                                                                                                                                                                                                                                                     |
| <b>Edge lipping</b>     | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges. Melamine lipping in matching wooden colour.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges. PVC lipping all 4 edges.          |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                        |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                                 |
| <b>Frames</b>           | See chapter 5.                                                                                                                                                                                                                                                                                 |
| <b>Thresholds</b>       | See page 5:5                                                                                                                                                                                                                                                                                   |
| <b>Ironmongery</b>      | No ironmongery included.<br>Concealed door closer optional.<br>Pivots and concealed door closers must be fitted in intumescent envelope.<br>On site fitting of pull handles <500mm is approved.<br>(Mortises for pivots and pumps can be factory prepared, but may require final work on site) |
| <b>Weight</b>           | Module 10: Door leaf approx. 54kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                          |

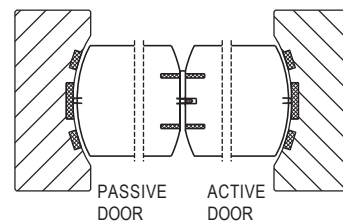
## Section view



## Single door



## Double door



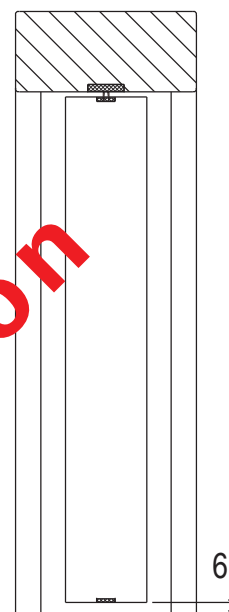
| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           |
| 7x21          | 710   | 2100   | 686        | 2089   | 606       | 2038   | 514           |
| 8x21          | 810   | 2100   | 786        | 2089   | 706       | 2038   | 614           |
| 9x21          | 910   | 2100   | 886        | 2089   | 806       | 2038   | 714           |
| 10x21         | 1010  | 2100   | 986        | 2089   | 906       | 2038   | 814           |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1006      | 2038   | 914           |
| Unequal Pairs |       |        |            |        |           |        |               |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 706+408   | 2038   | 926           |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 806+407   | 2038   | 1026          |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 906+407   | 2038   | 1126          |
| Equal Pairs   |       |        |            |        |           |        |               |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 707+706   | 2038   | 1226          |
| 16x21         | 1610  | 2100   | 1585       | 2089   | 757+756   | 2038   | 1326          |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 807+806   | 2038   | 1426          |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 857+856   | 2038   | 1526          |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 907+906   | 2038   | 1626          |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 957+956   | 2038   | 1726          |

Other sizes may be available on request

# Double action doorsets, Fire rating FD60, 54mm

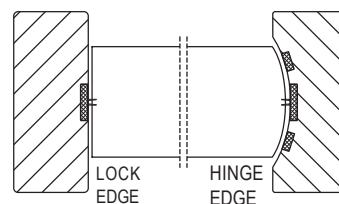
|                         |                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Doors for buildings with high traffic areas such as Hospitals, where there is a necessity for the doors to opening swing both ways.                                                                                                                                                                              |
| <b>Construction</b>     | Please see detail.<br>Special leaf with double rail for concealed closer.                                                                                                                                                                                                                                        |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>The top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                                           |
| <b>Door leaf finish</b> | Veneered, painted or laminate see page 2:4                                                                                                                                                                                                                                                                       |
| <b>Edge lipping</b>     | <u><b>Painted doors:</b></u> Melamine lipping 2 edges (lock and hinge side)<br><u><b>Veneered doors:</b></u> Concealed or profiled lipping 2 or 4 edges.<br>Melamine lipping in matching wooden colour.<br><u><b>Laminate doors:</b></u> Concealed or profiled lipping 2 or 4 edges.<br>PVC lipping all 4 edges. |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                                          |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                                                   |
| <b>Frames</b>           | See chapter 5.                                                                                                                                                                                                                                                                                                   |
| <b>Thresholds</b>       | See page 5:5                                                                                                                                                                                                                                                                                                     |
| <b>Ironmongery</b>      | No ironmongery included.<br>Concealed door closer optional.<br>Pivots and concealed door closers must be fitted in intumescent envelope.<br>On site fitting of pull handles 500mm is approved.<br>(Mortises for pivots and bumps can be factory prepared, but may require final work on site)                    |
| <b>Weight</b>           | Module 10: Door leaf approx. 54kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                                            |

## Section view

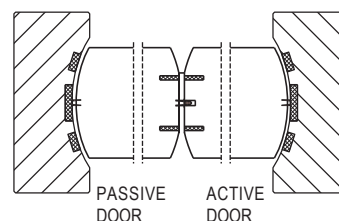


2:5

## Single door



## Double door



| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           |
| 7x21          | 710   | 2100   | 686        | 2089   | 606       | 2038   | 514           |
| 8x21          | 810   | 2100   | 786        | 2089   | 706       | 2038   | 614           |
| 9x21          | 910   | 2100   | 886        | 2089   | 806       | 2038   | 714           |
| 10x21         | 1010  | 2100   | 986        | 2089   | 906       | 2038   | 814           |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1006      | 2038   | 914           |
| Unequal Pairs |       |        |            |        |           |        |               |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 706+408   | 2038   | 926           |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 806+407   | 2038   | 1026          |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 906+407   | 2038   | 1126          |
| Equal Pairs   |       |        |            |        |           |        |               |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 706+706   | 2038   | 1226          |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 756+756   | 2038   | 1326          |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 806+806   | 2038   | 1426          |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 856+856   | 2038   | 1526          |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 906+906   | 2038   | 1626          |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 956+956   | 2038   | 1726          |

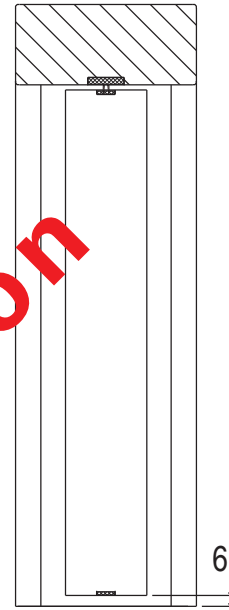
Other sizes may be available on request

# Double action doorsets, Fire rating FD60, 62mm

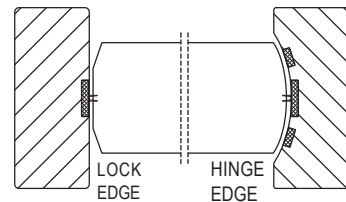
2:6

|                         |                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>      | Doors for buildings with high traffic areas such as Hospitals, where there is a necessity for the doors to opening swing both ways.                                                                                                                                                           |
| <b>Construction</b>     | Please see detail.<br>Special leaf with double rail for concealed closer.                                                                                                                                                                                                                     |
| <b>Fire</b>             | The jambs and head of the wooden frame are provided with intumescent.<br>The top and bottom of the door leaf and for double doors the meeting stile of the active leaf are provided with intumescents.                                                                                        |
| <b>Door leaf finish</b> | Veneered, painted or laminate see page 2:5                                                                                                                                                                                                                                                    |
| <b>Edge lipping</b>     | <u>Painted doors:</u> Melamine lipping 2 edges (lock and hinge side)<br><u>Veneered doors:</u> Concealed or profiled lipping 2 or 4 edges.<br>Melamine lipping in matching wooden colour.<br><u>Laminate doors:</u> Concealed or profiled lipping 2 or 4 edges.<br>PVC lipping all 4 edges.   |
| <b>Vision panels</b>    | See page 1:25 and 1:26.                                                                                                                                                                                                                                                                       |
| <b>Kick plates</b>      | See page 1:29.                                                                                                                                                                                                                                                                                |
| <b>Frames</b>           | See chapter 5.                                                                                                                                                                                                                                                                                |
| <b>Thresholds</b>       | See page 5:5                                                                                                                                                                                                                                                                                  |
| <b>Ironmongery</b>      | No ironmongery included.<br>Concealed door closer optional.<br>Pivots and concealed door closers must be fitted in intumescent envelope.<br>On site fitting of pull handles 600mm is approved.<br>(Mortises for pivots and bumps can be factory prepared, but may require final work on site) |
| <b>Weight</b>           | Module 10: Door leaf approx. 54kg.<br>93mm wooden frame approx. 10kg.                                                                                                                                                                                                                         |

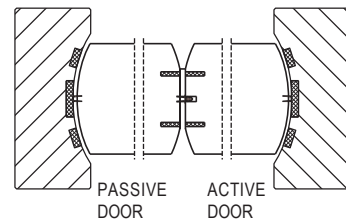
## Section view



## Single door



## Double door



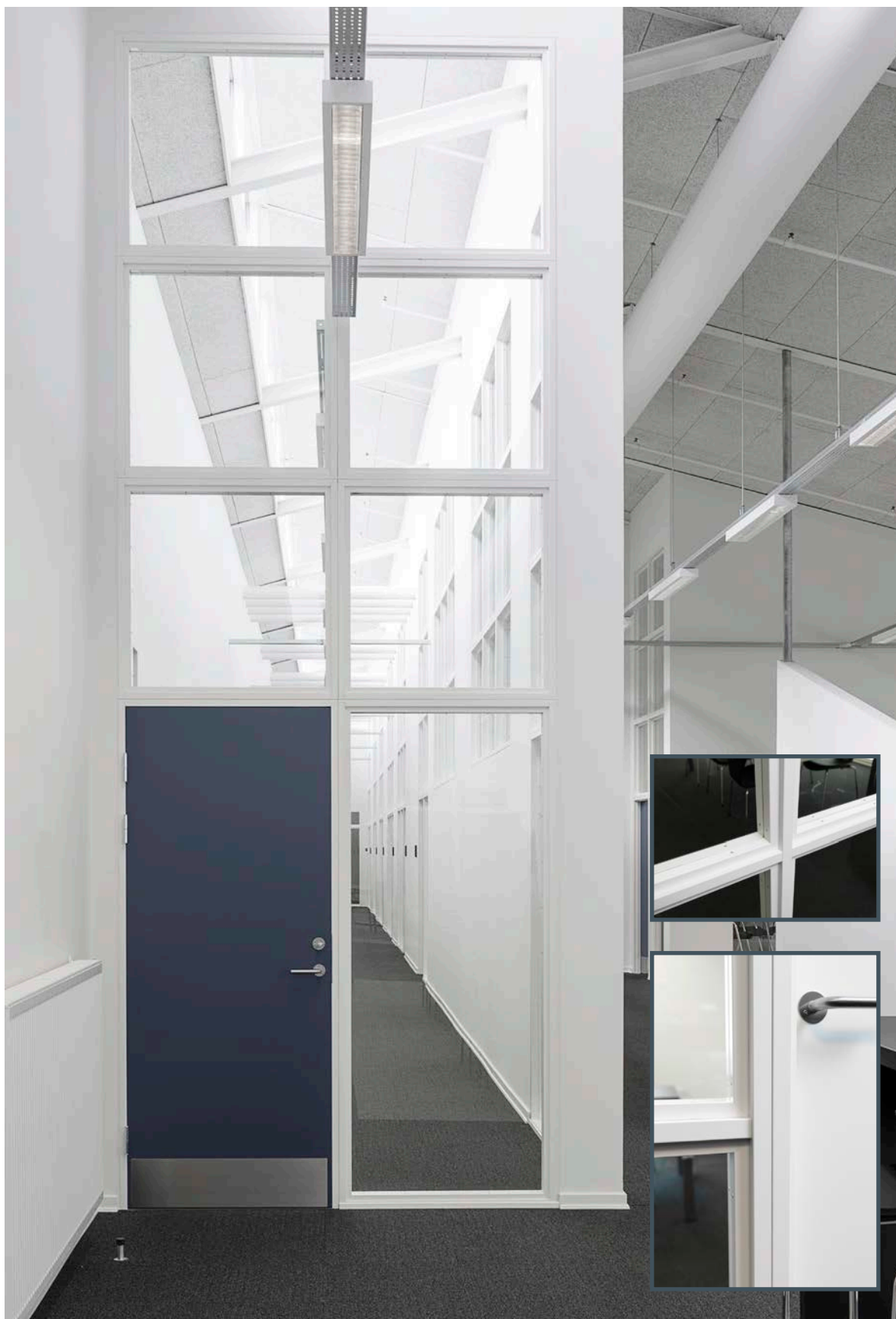
| Module        | S/O   |        | Door frame |        | Door leaf |        | Clear opening |
|---------------|-------|--------|------------|--------|-----------|--------|---------------|
|               | Width | Height | Width      | Height | Width     | Height | 90°           |
| 7x21          | 710   | 2100   | 686        | 2089   | 606       | 2038   | 514           |
| 8x21          | 810   | 2100   | 786        | 2089   | 706       | 2038   | 614           |
| 9x21          | 910   | 2100   | 886        | 2089   | 806       | 2038   | 714           |
| 10x21         | 1010  | 2100   | 986        | 2089   | 906       | 2038   | 814           |
| 11x21         | 1110  | 2100   | 1086       | 2089   | 1006      | 2038   | 914           |
| Unequal Pairs |       |        |            |        |           |        |               |
| 12x21         | 1210  | 2100   | 1186       | 2089   | 706+407   | 2038   | 926           |
| 13x21         | 1310  | 2100   | 1286       | 2089   | 806+407   | 2038   | 1026          |
| 14x21         | 1410  | 2100   | 1386       | 2089   | 906+407   | 2038   | 1126          |
| Equal Pairs   |       |        |            |        |           |        |               |
| 15x21         | 1510  | 2100   | 1486       | 2089   | 706+706   | 2038   | 1226          |
| 16x21         | 1610  | 2100   | 1586       | 2089   | 756+756   | 2038   | 1326          |
| 17x21         | 1710  | 2100   | 1686       | 2089   | 806+806   | 2038   | 1426          |
| 18x21         | 1810  | 2100   | 1786       | 2089   | 856+856   | 2038   | 1526          |
| 19x21         | 1910  | 2100   | 1886       | 2089   | 906+906   | 2038   | 1626          |
| 20x21         | 2010  | 2100   | 1986       | 2089   | 956+956   | 2038   | 1726          |

Other sizes may be available on request

Notes area with horizontal dotted lines for writing.



2:8

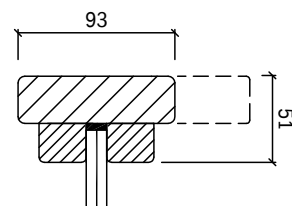


| <b>Screens,</b>             | <b>Page</b> |
|-----------------------------|-------------|
| Fire rating EW30, integrity | 3:2         |
| Fire rating EW60, integrity | 3:3         |
| Non rated                   | 3:4         |
| Glass mounting              | 3:6         |

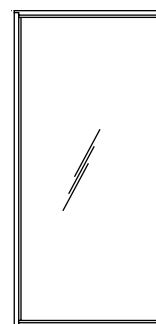
### Glasstypes:

|                       |                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>EW30</b>           | Contraflam Lite 11 -19 mm. When using other types of glass, the screens must be approved by the local Building Control Department. |
| <b>Measurements</b>   | Minimum width 200 mm, maximum width 2990 mm.<br>Maximum height 2990 mm.                                                            |
| <b>Fire</b>           | Maximum approved width 1168 mm, maximum height without transom 2492 mm. Min. depth 93 mm<br>See sheet below.                       |
| <b>Sound</b>          | Rw value on glass, 38 - 40 dB. See page 3:8.                                                                                       |
| <b>Material frame</b> | Pine.                                                                                                                              |
| <b>Glazing beads</b>  | Glazing beads are painted same colour as frame.                                                                                    |
| <b>Glass</b>          | By default screens are supplied with glass mounted.<br>See page 3:8.<br>Can also be provided with solid panel.                     |

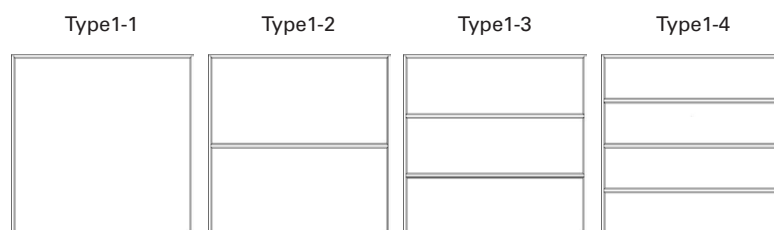
### Section view EW30



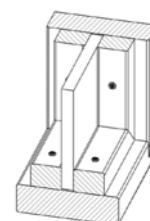
### Elevation view



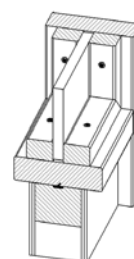
### Approved divisions with transom



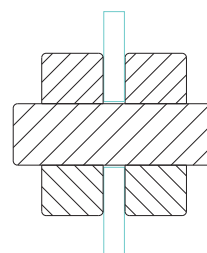
### Detail



### Detail with transom/panel



### Section view transom

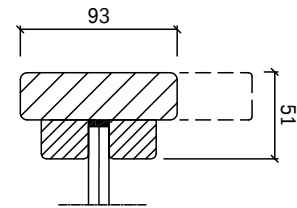


| Design          | Approved measurements |      |        |      | Produktion limit |      |        |      |
|-----------------|-----------------------|------|--------|------|------------------|------|--------|------|
|                 | Width                 |      | Height |      | Width            |      | Height |      |
|                 | Min.                  | Max. | Min.   | Max. | Min.             | Max. | Min.   | Max. |
| Without transom | 300                   | 1168 | 300    | 2492 | 200              | 2990 | 200    | 2990 |
| m/1 transom     | 300                   | 1168 | 500    | 2867 | 200              | 2990 | 200    | 2990 |
| m/2 transoms    | 300                   | 1168 | 750    | 2867 | 200              | 2990 | 200    | 2990 |
| m/3 transoms    | 300                   | 1168 | 1000   | 2867 | 200              | 2990 | 200    | 2990 |
| m/1 mullion     | -                     | -    | -      | -    | 500              | 2990 | 500    | 2990 |
| m/2 mullions    | -                     | -    | -      | -    | 750              | 2990 | 750    | 2990 |
| m/3 mullions    | -                     | -    | -      | -    | 1000             | 2990 | 1000   | 2990 |

### Glastyper:

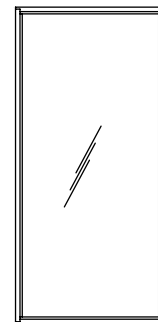
|                       |                                                                                                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>EW60</b>           | Contraflam Lite 11 -19 mm. When using other types of glass, the screens must be approved by the local Building Control Department. |
| <b>Measurements</b>   | Minimum width 200 mm, maximum width 2990 mm.<br>Maximum height 2990 mm.                                                            |
| <b>Fire</b>           | Approved width 1168 mm, maximum height without transom 2492 mm. Min. depth 93 mm<br>See sheet below.                               |
| <b>Sound</b>          | Rw value on glass, 37 - 40 dB. page 3:8.                                                                                           |
| <b>Material frame</b> | Pine.                                                                                                                              |
| <b>Glazing beads</b>  | Glazing beads are painted same colour as frame.                                                                                    |
| <b>Glass</b>          | Supplied with glass mounted. See page 3:8.<br>Can also be provided with solid panel.                                               |

### Section view EW60

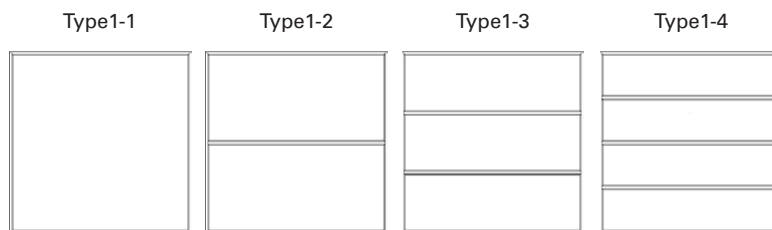


3:3

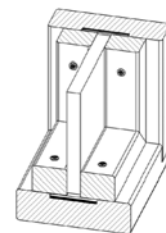
### Elevation view



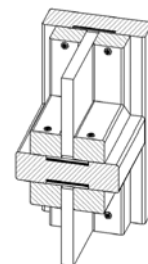
### Approved divisions with transom



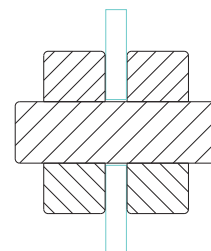
### Detail



### Detail with transom/panel



### Section view post



| Design          | Approved measurements |      |        |      | Produktion limit |      |        |      |
|-----------------|-----------------------|------|--------|------|------------------|------|--------|------|
|                 | Width                 |      | Height |      | Width            |      | Height |      |
|                 | Min.                  | Max. | Min.   | Max. | Min.             | Max. | Min.   | Max. |
| Without transom | 300                   | 1168 | 300    | 2492 | 200              | 2990 | 200    | 2990 |
| m/1 transom     | 300                   | 1168 | 500    | 2867 | 200              | 2990 | 200    | 2990 |
| m/2 transoms    | 300                   | 1168 | 750    | 2867 | 200              | 2990 | 200    | 2990 |
| m/3 transoms    | 300                   | 1168 | 1000   | 2867 | 200              | 2990 | 200    | 2990 |
| m/1 mullion     | -                     | -    | -      | -    | 500              | 2990 | 500    | 2990 |
| m/2 mullions    | -                     | -    | -      | -    | 750              | 2990 | 750    | 2990 |
| m/3 mullions    | -                     | -    | -      | -    | 1000             | 2990 | 1000   | 2990 |

# Screens, non-rated Side- and toplights

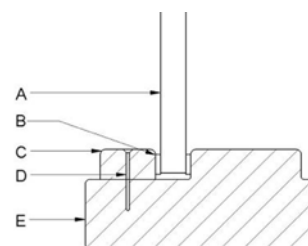
## Note:

Glass can be provided either as toughened or laminated.

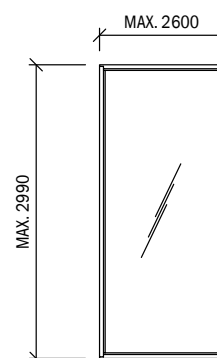
|                       |                                                                                                                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Measurement</b>    | Min. 200 mm. on the narrowest side. The same limitation between transoms/mullions.                                                                                                                             |
| <b>Fire</b>           | Non-rated                                                                                                                                                                                                      |
| <b>Sound</b>          | Rw value on glass, 29 - 39 dB. See page 3:8.                                                                                                                                                                   |
| <b>Material frame</b> | Pine.                                                                                                                                                                                                          |
| <b>Glazing beads</b>  | Glazing beads are painted same colour as frame.                                                                                                                                                                |
| <b>Glass</b>          | By default screens are supplied with glass mounted. Larger or heavier screens which are over the safe carrying weight will have glass supplied separately for site installation. Possible glasses see page 3:8 |

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| <b>Section cut</b> | A – Glass<br>B – 2x8mm rubber gasket<br>C – Glass bead, pine<br>D – Nails<br>E – Frame, 28/40mm |
|--------------------|-------------------------------------------------------------------------------------------------|

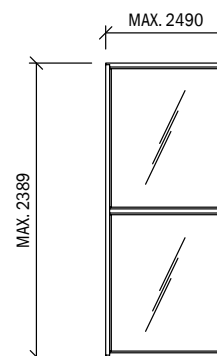
## Section cut



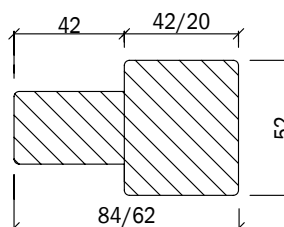
## Parti



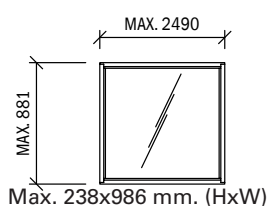
## Screen with transom

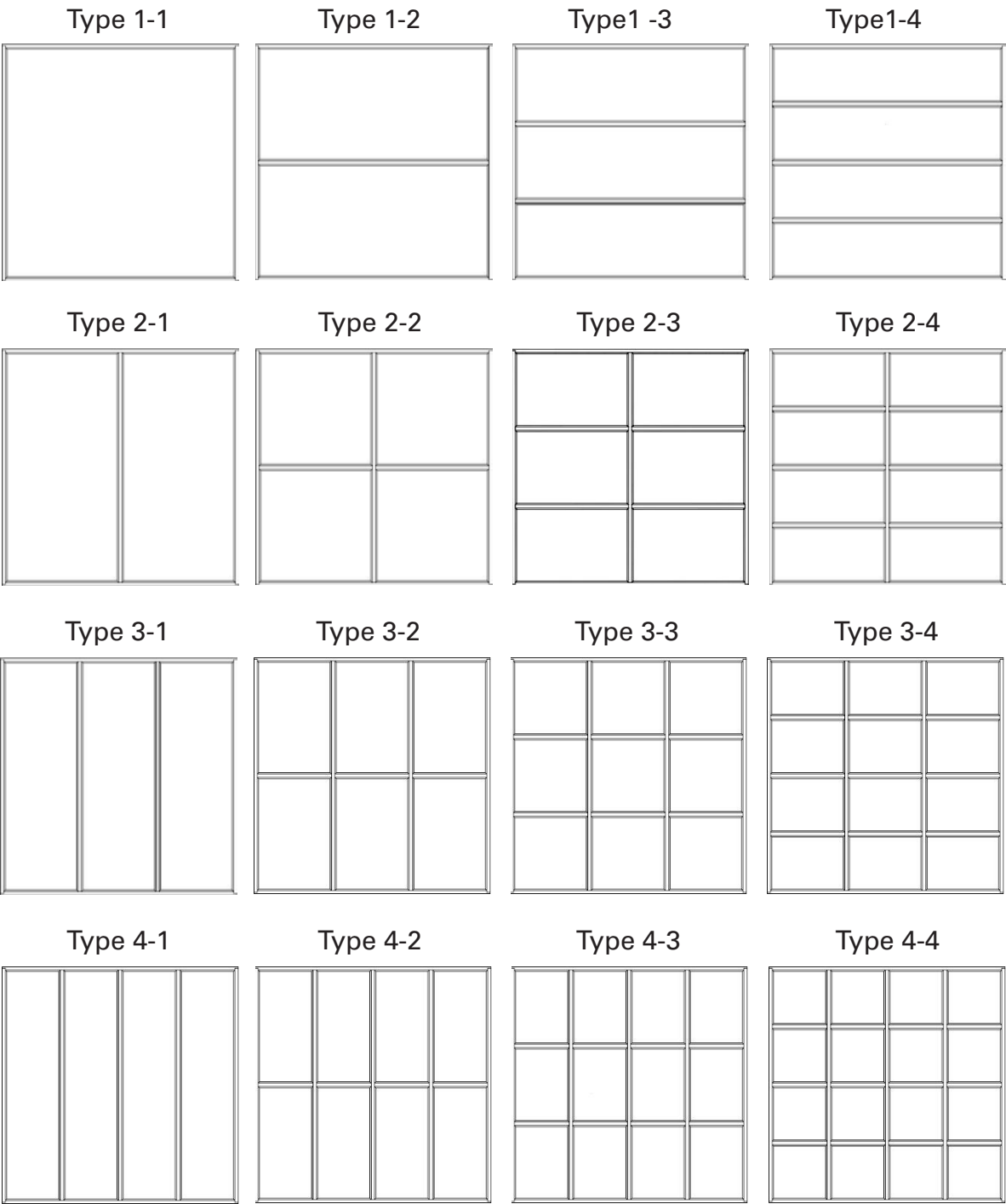


## Section view post



## Toplight





3:5

# Glass mounting

3:6

| Classifikation | Rw value glass (from supplier) | Page | Type of glass             | Remarks |
|----------------|--------------------------------|------|---------------------------|---------|
| Non-rated      | Rw29dB                         | 3:6  | 4 mm toughened glass      |         |
| Non-rated      | Rw31dB                         | 3:6  | 6 mm toughened glass      |         |
| Non-rated      | Rw33dB                         | 3:6  | 6,38 mm laminated glass   |         |
| Non-rated      | Rw33dB                         | 3:6  | 8,76 mm laminated glass   |         |
| Non-rated      | Rw36dB                         | 3:6  | 10,76 mm laminated glass  |         |
| Non-rated      | Rw39dB                         | 3:6  | 12,76 mm laminated glass  |         |
| EW30           | Rw36dB                         | 3:2  | 11 mm Contraflam doorlite |         |
| EW60           | Rw36dB                         | 3:3  | 11 mm Contraflam doorlite |         |





| <b>Exterior doors</b>            | <b>Page</b> |
|----------------------------------|-------------|
| ADVANCE-LINE Construction        | 4:2         |
| ADVANCE-LINE Character           | 4:3         |
| ADVANCE-LINE Silence             | 4:4         |
| Overview Silence og Silence High | 4:5         |
| ADVANCE-LINE ECO                 | 4:6         |
| Overview classifications ECO     | 4:7         |
| ADVANCE-LINE Security door RC3   | 4:8         |
| ADVANCE-LINE Secured By Design   | 4:9         |
| Overview Secured By design       | 4:10        |
| ADVANCE-LINE Designs Classic     | 4:11 - 4:12 |
| ADVANCE-LINE Designs Character   | 4:13 - 4:14 |
| ADVANCE-LINE Designs Function    | 4:15        |
| Exterior side- and toplights     | 4:16        |

4:2

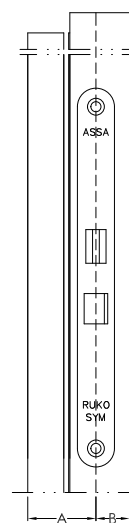
|                        |                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>     | Exterior doors with multiple options.<br>Some of the doors can be offered as fire-rated EI <sub>30</sub> , and smoke Sa an S <sub>200</sub> .                                                                                                                                                                                  |                                                                                                                                                                              |
| <b>Construction</b>    | See picture.                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                              |
| <b>U-value</b>         | See page 4:11- 4:15                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                              |
| <b>Painted surface</b> | Standard colour is RAL 9010, Std. White, sheen 25-35.<br>Other standard colours:<br>NCS S 0500-N, Pure White<br>RAL7016, Antracite Grey<br>NCS S 2500-N, Medium Grey<br>NCS S 2570-Y90R, Moderate red<br>NCS S 9000-N, Black<br>RAL5005 Signal Blue<br>Further options available as RAL and NCSS. (Certain limitations apply.) |                                                                                                                                                                              |
| <b>Designs</b>         | For overview see pages 4:11 - 4:15                                                                                                                                                                                                                                                                                             |                                                                                                                                                                              |
| <b>Glass</b>           | Thermoglass 28 mm thick. For overview window openings see pages 4:11 - 4:15. Glazing beads have same colour as door surface.                                                                                                                                                                                                   |                                                                                                                                                                              |
| <b>Patterns</b>        | All Character doors have same milled pattern on both sides. For Classic and Function see information for each Designs.                                                                                                                                                                                                         |                                                                                                                                                                              |
| <b>Frames</b>          | 115 mm double rebated frame for inswing.<br>105 mm single rebated frame for outswing.<br>For details see page 5:8                                                                                                                                                                                                              |                                                                                                                                                                              |
| <b>Thresholds</b>      | See details page 5:8.                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                              |
| <b>Ironmongery</b>     | Hinges:                                                                                                                                                                                                                                                                                                                        | Symmetrical hinge 110x36kss with 2-way adjustment.<br>As standard doors have 2 hinges, however large or heavy doors may have 3 or 4 hinges depending on the size and design. |
|                        | Lock                                                                                                                                                                                                                                                                                                                           | Multipoint lock MPL2500.                                                                                                                                                     |
| <b>Double doors</b>    | Passive door is equipped with 2 latches.                                                                                                                                                                                                                                                                                       |                                                                                                                                                                              |
| <b>A and B measure</b> | A = 37, B = 23. See illustration                                                                                                                                                                                                                                                                                               |                                                                                                                                                                              |
| <b>Weight</b>          | Door leaf without glazing appr. 46 kg.<br>Door leaf with glazing appr. 48 - 75 kg depending on size and number of glass.<br>115 mm frame appr. 10 kg.                                                                                                                                                                          |                                                                                                                                                                              |
| <b>Other</b>           | Most door types can be fitted with alternative locks, extra locks, door spy and letter plate (please check additional price list).<br>Steel kick plate (standard 150 mm high).                                                                                                                                                 |                                                                                                                                                                              |

Single doors are delivered pre-hung in frame.

### Painted surface



### A and B measurement



| Module   | Outer frame dimensions |        | Free opening inswing./outswing |         | Door leaf dimensions inswing./outswing |        |
|----------|------------------------|--------|--------------------------------|---------|----------------------------------------|--------|
|          | Width                  | Height | 90°                            | 180°    | Width                                  | Height |
| 9x21     | 888                    | 2080   | 720/735                        | 740/800 | 825                                    | 2033   |
| 9,5x21,5 | 948                    | 2115   | 780/795                        | 800/860 | 885                                    | 2068   |
| 10x21    | 988                    | 2080   | 820/835                        | 840/900 | 925                                    | 2033   |

Other sizes on request in 5mm increments. Please check price list for min/max measurements.

|                        |                                                                                                                                                                                                                                                                                                                    |                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>     | The Character range of doors is our most contemporary line of exterior doors. If you are looking for a door with bold image then this is the one!                                                                                                                                                                  |                                                                                                                      |
| <b>Construction</b>    | Same construction a page 4:2                                                                                                                                                                                                                                                                                       |                                                                                                                      |
| <b>U-value</b>         | See page 4:13 - 4:14.                                                                                                                                                                                                                                                                                              |                                                                                                                      |
| <b>Designs</b>         | <p>Designs See page 4:11 - 4:15.</p> <p>All doors in the Décor range have the same pattern/ configuration both sides. Identity and Cifro ranges are available in numbers 1 to 999. Letters are available too in this range but on special request. The Leon range has aluminium inlay on the horizontal rails.</p> |                                                                                                                      |
| <b>Glass</b>           | <p>Thermoglass 30 mm thick.</p> <p>All doors in the Character range have a special streamlined glazing detail. The glass is part of the door construction and glass options are available to aid security, fire and sound as well as coloured glass options in some designs.</p>                                   |                                                                                                                      |
| <b>Frames</b>          | <p>115 mm double rebated frame for inswing.</p> <p>105 mm single rebated frame for outswing.</p> <p>For details see page 5:8.</p>                                                                                                                                                                                  |                                                                                                                      |
| <b>Thresholds</b>      | See page 5:8.                                                                                                                                                                                                                                                                                                      |                                                                                                                      |
| <b>Ironmongery</b>     | Hinges:                                                                                                                                                                                                                                                                                                            | <p>Integrated (hidden) hinges which have 3-way adjustment.</p> <p>Security doors RC3 have visible Pandor hinges.</p> |
|                        | Lock:                                                                                                                                                                                                                                                                                                              | Multipoint lock MPL2500.                                                                                             |
| <b>Double doors</b>    | On request                                                                                                                                                                                                                                                                                                         |                                                                                                                      |
| <b>A and B measure</b> | See page 4:2.                                                                                                                                                                                                                                                                                                      |                                                                                                                      |
| <b>Weight</b>          | <p>Door leaf without glazing appr. 46 kg.</p> <p>Door leaf with glazing appr. 48 - 75 kg depending on size and number of glass.</p> <p>115 mm frame appr. 10 kg.</p>                                                                                                                                               |                                                                                                                      |
| <b>Other</b>           | <p>Most door types can be fitted with alternative locks, extra locks, door spy and letter plate (please check additional price list).</p> <p>Steel kick plate (standard 150 mm high).</p> <p>Single doors are delivered pre-hung in frame.</p>                                                                     |                                                                                                                      |

### Integrated glass



### Concealed hinges



4:3

4:4

|                        |                                                                                                                                                                                                                                     |                                                                                        |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Area of use</b>     | Sound reduction makes this door the obvious choice for properties in noisy environments. Sound reduction can be combined with RC3 and fire performance. In addition you get a better U-value.                                       |                                                                                        |
| <b>Construction</b>    | See picture.                                                                                                                                                                                                                        |                                                                                        |
| <b>U-value</b>         | See page 4:6.                                                                                                                                                                                                                       |                                                                                        |
| <b>Sound</b>           | Sound reduction Rw41 - 44 acc. to EN ISO 10140-3. Door bell and door spy each reduces the sound reduction with app. 1dB.                                                                                                            |                                                                                        |
| <b>Painted surface</b> | As basic construction page 4:2                                                                                                                                                                                                      |                                                                                        |
| <b>Designs</b>         | Designs see page 4:11- 4:15.                                                                                                                                                                                                        |                                                                                        |
| <b>Glass</b>           | Thermoglass 30 mm thick. For overview window openings see pages 4:11 - 4:15. Glazing beads painted in same colour as door (not Character).                                                                                          |                                                                                        |
| <b>Frames</b>          | 115 mm double rebated frame for inswing.<br>105 mm double rebated frame for outswing.<br>For details see page 5:8.                                                                                                                  |                                                                                        |
| <b>Thresholds</b>      | See page 5:8.                                                                                                                                                                                                                       |                                                                                        |
| <b>Ironmongery</b>     | Hinges:                                                                                                                                                                                                                             | Symmetrical hinge KS110x36B with 2-way adjustment.<br>As standard doors have 3 hinges. |
|                        | Lock                                                                                                                                                                                                                                | Multipoint lock MPL2500                                                                |
| <b>Double doors</b>    | Not possible.                                                                                                                                                                                                                       |                                                                                        |
| <b>A and B measure</b> | See page 4:2.                                                                                                                                                                                                                       |                                                                                        |
| <b>Weight</b>          | Door leaf 60 - 80 kg.<br>115 mm frame appr. 13 kg.                                                                                                                                                                                  |                                                                                        |
| <b>Other</b>           | Most door types can be fitted with alternative locks, extra locks, door spy and letter plate (please check additional price list).<br>Steel kick plate (standard 150 mm high).<br><br>Single doors are delivered pre-hung in frame. |                                                                                        |

### Painted surface



# Exterior doors

## ADVANCE-LINE Sound- and u-values

### Silence



| ADVANCE-line<br>Character      | Model | Beat<br>Charmed<br>Digits<br>Drop<br>Luna<br>Pixel<br>Prisma<br>Step | Canvas |         | Pulse |         | Cifro |         | Dots'<br>Drop'<br>Leon'<br>Tajo' |         |
|--------------------------------|-------|----------------------------------------------------------------------|--------|---------|-------|---------|-------|---------|----------------------------------|---------|
|                                |       |                                                                      |        |         |       |         |       |         |                                  |         |
| Classification                 | Sound | U-value                                                              | Sound  | U-value | Sound | U-value | Sound | U-value | Sound                            | U-value |
| Silence                        | 40dB  | 1,1                                                                  | 43dB   | 0,79    | 40 dB | 1,3     | 40 dB | 1,3     | 40 dB                            | 1,3     |
| Silence RC3                    | 41dB  | 1,0                                                                  | 44dB   | 0,79    | 41 dB | 1,2     | 41 dB | 1,3     | X                                | X       |
| Silence EI,30 Sa               | 40dB  | 1,0                                                                  | 43dB   | 0,79    | 40 dB | 1,1     | X     | X       | X                                | X       |
| Silence EI,30 S <sub>200</sub> | 40dB  | 1,0                                                                  | 43dB   | 0,79    | X     | X       | X     | X       | X                                | X       |
| Silence EI,30 Sa RC3           | 41dB  | 1,0                                                                  | 44dB   | 0,79    | X     | X       | X     | X       | X                                | X       |

| ADVANCE-line<br>Function       | Model | Amur<br>Donau<br>Hudson<br>Michigan<br>Tobol<br>Volga |         | Bering<br>Barents |         | Elbe  |         |
|--------------------------------|-------|-------------------------------------------------------|---------|-------------------|---------|-------|---------|
|                                |       | Sound                                                 | U-value | Sound             | U-value | Sound | U-value |
| Silence                        |       | 41dB                                                  | 1,1     | 43dB              | 0,79    | 41dB  | 1,3     |
| Silence RC3                    |       | 42dB                                                  | 1,0     | 44dB              | 0,79    | 42dB  | 1,2     |
| Silence EI,30 Sa               |       | 41dB                                                  | 1,0     | 43dB              | 0,79    | 41dB  | 1,1     |
| Silence EI,30 S <sub>200</sub> |       | 41dB                                                  | 1,0     | 43dB              | 0,79    | X     | X       |
| Silence EI,30 Sa RC3           |       | 42dB                                                  | 1,0     | 44dB              | 0,79    | X     | X       |

| ADVANCE-line<br>Classic        | Model | Albinoni<br>Berlioz<br>Debussy<br>Händel<br>Satie<br>Scarlatti |         | Brahms<br>Castilla<br>Corelli<br>Monteverdi |         | Beethoven<br>Ravel |         |
|--------------------------------|-------|----------------------------------------------------------------|---------|---------------------------------------------|---------|--------------------|---------|
|                                |       | Sound                                                          | U-value | Sound                                       | U-value | Sound              | U-value |
| Classification                 |       | Sound                                                          | U-value | Sound                                       | U-value | Sound              | U-value |
| Silence                        |       | 41dB                                                           | 1,1     | 41dB                                        | 1,3     | 43dB               | 0,79    |
| Silence RC3                    |       | 42dB                                                           | 1,0     | 42dB                                        | 1,2     | 43dB               | 0,79    |
| Silence EI,30 Sa               |       | 41dB                                                           | 1,0     | 41dB                                        | 1,1     | 43dB               | 0,79    |
| Silence EI,30 S <sub>200</sub> |       | 41dB                                                           | 1,0     | X                                           | 1,3     | 43dB               | 0,79    |
| Silence EI,30 Sa RC3           |       | 42dB                                                           | 1,0     | X                                           | 1,2     | 43dB               | 0,79    |

#### All sound values are Rw-values

**Smoke:** Doors with S<sub>200</sub> classification is automatically classified Sa.

Doors with glazing beads in aluminium and doors with more than one vision panel, can not be classified S<sub>200</sub>.

**Fire:** A door with EI,30 classification, is automatically EI,30 approved.

Certain door types is available with sound, fire and hot smoke (S<sub>200</sub>) from the opening side.

Doors with big vision panels are not shown in the table. They will be too heavy and can not be delivered with sound, fire or security.

All sound values are valid for inswing doors.

The listed u-value are applicable with use of clear glass. The u-value becomes slightly higher using other glass types.

<sup>1</sup> Max size 10 x 21M

4:5

|                        |                                                                                                                                                         |                                                                                        |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Area of use</b>     | Besides low U-value, the ECO door is based on sustainable materials. This unique feature can be added to a large number of our Designs.                 |                                                                                        |
| <b>Construction</b>    | See picture. Door thickness 77mm                                                                                                                        |                                                                                        |
| <b>U-value</b>         | See page 4:7                                                                                                                                            |                                                                                        |
| <b>Painted surface</b> | See basic construction page 4:2                                                                                                                         |                                                                                        |
| <b>Designs</b>         | Designs see page 4:11 - 4:15.                                                                                                                           |                                                                                        |
| <b>Glass</b>           | 3-layer thermoglass 55 mm thick. For overview window openings see pages 4:3, 4:4 and 4:5. Glazing beads painted in same colour as door (not Character). |                                                                                        |
| <b>Frames</b>          | 115 mm double rebated frame for inswing.<br>105 mm single rebated frame for outswing.<br>See page 5:8.                                                  |                                                                                        |
| <b>Thresholds</b>      | See page 5:8.                                                                                                                                           |                                                                                        |
| <b>Ironmongery</b>     | Hinges:                                                                                                                                                 | Symmetrical hinge KS110x36B with 2-way adjustment.<br>As standard doors have 3 hinges. |
|                        | Lock                                                                                                                                                    | Multipoint lock ASSA8765.                                                              |
| <b>Double doors</b>    | On request                                                                                                                                              |                                                                                        |
| <b>A and B measure</b> | See page 4:2                                                                                                                                            |                                                                                        |
| <b>Weight</b>          | Door leaf 60 - 80 kg.<br>115 mm frame appr. 13 kg.                                                                                                      |                                                                                        |
| <b>Other</b>           | Most door types can be fitted with alternative locks, extra locks, door spy and letter plate.<br>Steel kick plate (standard 150 mm high).               |                                                                                        |
|                        | Single doors are delivered pre-hung in frame.                                                                                                           |                                                                                        |

### Painted surface



| ADVANCE-line Character                      | Model | Beat | Canvas | Charmed | Cifro | Dice           | Digits | Domino         | Dots           | Drop | Identity | Leon           | Luna | Pixel | Prisma | Pulse          | Square         | Tajo           | Tower          |
|---------------------------------------------|-------|------|--------|---------|-------|----------------|--------|----------------|----------------|------|----------|----------------|------|-------|--------|----------------|----------------|----------------|----------------|
| U-value                                     |       | 0,74 | 0,66   | -       | 0,7   | 0,74           | 0,7    | 0,89           | 0,74           | 0,74 | -        | 0,74           | 0,69 | 0,74  | 0,74   | 0,79           | 0,82           | 0,74           | 0,74           |
| Non-rated                                   |       | x    | x      | -       | x     | x              | x      | x              | x              | x    | -        | x              | x    | x     | x      | x              | -              | x              | x              |
| EI <sub>1,30</sub> , S <sub>200</sub>       |       | x    | x      | -       | -     | x              | x      | x <sup>1</sup> | x              | x    | -        | x              | x    | x     | x      | x              | -              | x              | x              |
| RC3                                         |       | -    | x      | -       | x     | x              | x      | -              | x              | -    | -        | x              | x    | -     | -      | x              | x <sup>2</sup> | x              | x              |
| EI <sub>1,30</sub> , S <sub>200</sub> , RC3 |       | x    | x      | -       | -     | x <sup>1</sup> | x      | -              | x <sup>1</sup> | x    | -        | x <sup>1</sup> | x    | x     | x      | x <sup>1</sup> | -              | x <sup>1</sup> | x <sup>1</sup> |

| ADVANCE-line Function                       | Model | Amur | Aral           | Atlantic | Barents | Bering | Caspian        | Como           | Donau | Elbe           | Hudson | Michigan | Sargasso | Tigris         | Tobol | Volga |
|---------------------------------------------|-------|------|----------------|----------|---------|--------|----------------|----------------|-------|----------------|--------|----------|----------|----------------|-------|-------|
| U-value                                     |       | 0,69 | 0,74           | 0,66     | 0,66    | 0,66   | 0,72           | 0,73           | 0,68  | 0,79           | 0,69   | 0,71     | 0,69     | 0,74           | 0,69  | 0,71  |
| Non-rated                                   |       | x    | x              | x        | x       | x      | x              | x              | x     | x              | x      | x        | x        | x              | x     | x     |
| EI <sub>1,30</sub> , S <sub>200</sub>       |       | x    | x <sup>3</sup> | x        | x       | x      | x <sup>4</sup> | x <sup>5</sup> | -     | x              | -      | x        | x        | x <sup>3</sup> | x     | x     |
| RC3                                         |       | x    | x <sup>3</sup> | x        | x       | x      | x <sup>4</sup> | x <sup>5</sup> | -     | x              | -      | -        | -        | x <sup>3</sup> | x     | x     |
| EI <sub>1,30</sub> , S <sub>200</sub> , RC3 |       | x    | x              | x        | x       | x      | -              | -              | -     | x <sup>3</sup> | -      | x        | x        | -              | x     | x     |

| ADVANCE-line Classic                        | Model | Albinoni | Beethoven | Berlioz | Brahms | Casella | Castilla | Clementi | Corelli        | Debussy        | Delius | Händel | Monteverdi     | Ravel | Rossini | Satie | Scarlatti | Smetana | Scott |
|---------------------------------------------|-------|----------|-----------|---------|--------|---------|----------|----------|----------------|----------------|--------|--------|----------------|-------|---------|-------|-----------|---------|-------|
| U-value                                     |       | 0,69     | 0,66      | 0,7     | 0,72   | 0,66    | 0,72     |          | 0,72           | 0,76           | 0,76   | 0,70   | 0,72           | 0,66  | 0,75    | 0,71  | 0,70      |         | 0,76  |
| Non-rated                                   |       | x        | x         | x       | x      | x       | x        |          | x              | x              |        | x      | x              | x     | x       | x     | x         |         | x     |
| EI <sub>1,30</sub> , S <sub>200</sub>       |       | x        | x         | x       | x      | x       | x        |          | x              | x              |        | x      | x              | x     | x       | x     | x         |         | x     |
| RC3                                         |       | x        | x         | x       | x      | x       | x        |          | x              | x              |        | x      | x              | x     | x       | x     | x         |         | x     |
| EI <sub>1,30</sub> , S <sub>200</sub> , RC3 |       | x        | x         | x       | -      | x       | -        |          | x <sup>4</sup> | x <sup>4</sup> |        | x      | x <sup>4</sup> | x     | x       | x     | x         |         | x     |

U-values applies for size 10 x 21

x<sup>1</sup> = Max. module 10 x 22

x<sup>2</sup> = Max. module 9 x 20

x<sup>3</sup> = Max. module 11 x 21

x<sup>4</sup> = Max. module 10 x 21

x<sup>5</sup> = Max. module 11 x 22

| ADVANCE-line Side/toplight                  | Type | SL0  | SL1  | SL2  | SL3  | TL0  |
|---------------------------------------------|------|------|------|------|------|------|
| U-value                                     |      | 0,75 | 0,75 | 0,75 | 0,75 | 0,87 |
| Non-rated                                   |      | x    | x    | x    | x    | x    |
| EI <sub>1,30</sub> , S <sub>200</sub>       |      | x    | x    | x    | x    | x    |
| RC3                                         |      | x    | x    | x    | x    | x    |
| EI <sub>1,30</sub> , S <sub>200</sub> , RC3 |      | x    | x    | x    | x    | x    |

U-value for sidelights applies for width M5

U-value for toplights applies for size M10x4

Max width for fire rated sidelights is M7x23

Max width for sidelights with RC3 is M5x23

Max width for fire rated toplights is M20x6



4:8

|                        |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                      |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of use</b>     | Resistance class RC3 is a unique feature on a wooden exterior door. Now there is the opportunity to combine nice Designs with high U-value and security classification in the same door. Can also be combined with fire and sound.                                                                                            |                                                                                                                                      |
| <b>Construction</b>    | RC3 door has a sandwich construction of materials, which makes it very difficult to break through. The wooden frame is provided with reinforcements in steel, where the Ironmongery also is located. The steel mounting bushes are also attached to the reinforcement plates.                                                 |                                                                                                                                      |
| <b>Security</b>        | Class RC3 (Resistance Class) according to EN1627, both as inward and outward doors. See tables on page 6: 8 for which models are available with this classification.                                                                                                                                                          |                                                                                                                                      |
| <b>U-value</b>         | See table page 4:5 and 4:7                                                                                                                                                                                                                                                                                                    |                                                                                                                                      |
| <b>Sound</b>           | See table page 4:5                                                                                                                                                                                                                                                                                                            |                                                                                                                                      |
| <b>Painted surface</b> | As basic construction side 4:2                                                                                                                                                                                                                                                                                                |                                                                                                                                      |
| <b>Designs</b>         | Designs See page 4:9 - 4:12.                                                                                                                                                                                                                                                                                                  |                                                                                                                                      |
| <b>Glass</b>           | See tables on page 4:9 - 4:12 which models are available with RC3 rating. The P5A safety glass in a security door, is mounted in the door leaf in a unique way, which means that the glass is very hard to separate from the door leaf. Doors that normally has Decor glass are only available with clear glass in RC3 doors. |                                                                                                                                      |
| <b>Frames</b>          | 115 mm frames for inswing doors,<br>105 mm frames for outswing doors.<br>With steel reinforcement as described under "Construction". See page 5:8.                                                                                                                                                                            |                                                                                                                                      |
| <b>Thresholds</b>      | See page 5:8.                                                                                                                                                                                                                                                                                                                 |                                                                                                                                      |
| <b>Ironmongery</b>     | Hinges:                                                                                                                                                                                                                                                                                                                       | 3 reinforced ball-bearing hinges.<br>Also for Character doors.                                                                       |
|                        | Lock:                                                                                                                                                                                                                                                                                                                         | Security multipoint lock MPL2500.<br>The door is supplied with reinforcement accessories and a security escutcheon in brushed steel. |
| <b>A and B measure</b> | See page 4:2.                                                                                                                                                                                                                                                                                                                 |                                                                                                                                      |
| <b>Weight</b>          | Module 10:                                                                                                                                                                                                                                                                                                                    | Door leaf app. 58 kg. (without glass)<br>115 mm wooden frame app. 17 kg.                                                             |
| <b>Other</b>           | Other lock types or cable loops are not possible in RC3 doors. Reinforcement plates on either side of lock also make door thickness 10 mm more where cylinder and handle is fitted, so it is necessary to use handle and cylinder that can fit door thickness 70 mm.                                                          |                                                                                                                                      |

### Painted surface



| Module | Outer frame dimensions |        | Free opening inswing./outswing |         | Door leaf dimensions inswing./outswing |        |
|--------|------------------------|--------|--------------------------------|---------|----------------------------------------|--------|
|        | Width                  | Height | 90°                            | 180°    | Width                                  | Height |
| 9x21   | 888                    | 2080   | 720/735                        | 740/800 | 825                                    | 2033   |
| 9,5x21 | 948                    | 2115   | 780/795                        | 800/860 | 885                                    | 2068   |
| 10x21  | 988                    | 2080   | 820/835                        | 840/900 | 925                                    | 2033   |

Other sizes on request in 5mm increments. Please check price list for min/max measurements.

|                 |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                |  |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Area of use     | The SBD range consists of sturdy wood-based composite doors and a number of unique designs. The doors can be used for both residential and commercial buildings. The doors can also be supplied with fire-rating, and have high insulation ability.                                                                                                    |                                                                                                                                                |  |
| Construction    | SBD doors have a wood-based composite construction with reinforcements in inner and outer frames, special layers materials in the door slab and reinforced glass that provide reliable burglary resistance to meet SBD demands. Ironmongery is fastened to concealed reinforcement plates of steel.                                                    |                                                                                                                                                |  |
| Security        | The doors comply with PAS 24 and SBD, as well as EI130 for doors with fire-rating.<br>Find our certificate <a href="#">here</a>                                                                                                                                                                                                                        |                                                                                                                                                |  |
| Sound           | SBD doors are tested according to: EN ISO 10140:2010 part 1, 2, 4, and 5 with weighted sound reduction <b>30 (-4; -4) dB</b> according to EN ISO 717-1:2013.                                                                                                                                                                                           |                                                                                                                                                |  |
| U-value         | See table page 4:10                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                |  |
| Painted surface | As basic construction side 4:2                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                |  |
| Designs         | Designs See page 4:9 - 4:12.                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |  |
| Glass           | See tables on page 4:9 - 4:12 which models are available as Secured By Design. The P1A safety glass in a SBD door, is mounted in the door leaf in a unique way, which means that the glass is very hard to separate from the door leaf. Glass is available in clear and satin for all designs.                                                         |                                                                                                                                                |  |
| Frames          | 115 mm frames for inswing doors,<br>105 mm frames for outswing doors.<br>With steel reinforcement as described under "Construction". See page 5:8.                                                                                                                                                                                                     |                                                                                                                                                |  |
| Thresholds      | See page 5:8.                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                |  |
| Ironmongery     | Hinges:                                                                                                                                                                                                                                                                                                                                                | 3 reinforced ball-bearing hinges.<br>Also for Character doors.                                                                                 |  |
|                 | Lock:                                                                                                                                                                                                                                                                                                                                                  | Security multipoint lock MPL2500.<br>The door is supplied with reinforcement accessories, cylinder and a security escutcheon in brushed steel. |  |
|                 | Handle                                                                                                                                                                                                                                                                                                                                                 | Standard supplied with NewYork handle*                                                                                                         |  |
| A and B measure | Inswing A: 70mm B: 42mm. Outswing: A: 70mm, B: 28mm.                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |  |
| BIM objects     | Find BIM objects for Revit and Archicad <a href="#">here</a>                                                                                                                                                                                                                                                                                           |                                                                                                                                                |  |
| Weight          | Module 10:                                                                                                                                                                                                                                                                                                                                             | Door leaf app. 58 kg. (without glass)<br>115 mm wooden frame app. 17 kg.                                                                       |  |
| Other           | Other lock types or cable loops are not possible in SBD certified doors. Cover plate for lock must always be specified (w/ or w/o thumbturn).<br>Reinforcement plates on either side of lock also make door thickness 10 mm more where cylinder and handle is fitted, so it is necessary to use handle and cylinder that can fit door thickness 70 mm. |                                                                                                                                                |  |

| Module | Outer frame dimensions |        | Free opening inswing./outswing |         | Door leaf dimensions inswing./outswing |        |
|--------|------------------------|--------|--------------------------------|---------|----------------------------------------|--------|
|        | Width                  | Height | 90°                            | 180°    | Width                                  | Height |
| 9x21   | 888                    | 2080   | 727/735                        | 775/800 | 825                                    | 2033   |
| 9,5x21 | 948                    | 2115   | 787/795                        | 835/860 | 885                                    | 2068   |
| 10x21  | 988                    | 2080   | 827/835                        | 875/900 | 925                                    | 2033   |

Other sizes on request in 5mm increments. Please check price list for min/max measurements.

### Painted surface



### Handles Silver



\*New York



Stockholm



Marseille

### Handles Stainless



New York



Stockholm



Marseille

### Escutcheons



4:9

| ADVANCE-line Character | Model | Beat | Canvas | Charmed | Cifro | Dice | Digits | Domino | Dots | Drop | Identity | Leon | Luna | Pixel | Prisma | Pulse | Step | Square | Tajo | Tower |
|------------------------|-------|------|--------|---------|-------|------|--------|--------|------|------|----------|------|------|-------|--------|-------|------|--------|------|-------|
| U-value                |       | 1,08 | 0,87   | 0,95    | 0,98  | 1,14 | 0,98   | -      | 1,14 | 1,08 | -        | 1,14 | 0,95 | 1,08  | 1,08   | 1,13  | 0,95 | -      | 1,14 | 1,14  |
| Non-rated              |       | x    | x      | x       | x     | x    | x      | -      | x    | x    | -        | x    | -    | x     | x      | -     | -    | -      | x    | x     |
| EI,30, Sa              |       | x    | x      | x       | x     | x    | x      | -      | x    | x    | -        | x    | x    | x     | x      | x     | x    | -      | x    | x     |
| Letterplate            |       | -    | x      | x       | x     | -    | x      | -      | -    | -    | -        | -    | x    | -     | x      | -     | x    | -      | -    | -     |

| ADVANCE-line Function | Model | Amur | Aral | Atlantic | Barents | Bering | Caspian | Como | Elbe | Hudson | Michigan | Sargasso | Tigris | Tobol | Volga |
|-----------------------|-------|------|------|----------|---------|--------|---------|------|------|--------|----------|----------|--------|-------|-------|
| U-value               |       | 0,94 | 1,25 | 0,87     | 0,87    | 0,87   | 1,30    | 1,20 | 1,11 | -      | 0,94     | 0,90     | 1,25   | 0,94  | 0,99  |
| Non-rated             |       | -    | x    | x        | x       | x      | x       | x    | x    | -      | -        | x        | x      | -     | x     |
| EI,30, Sa             |       | x    | x    | x        | x       | x      | x       | x    | x    | -      | x        | x        | x      | x     | x     |
| Letterplate           |       | x    | -    | x        | x       | x      | -       | -    | -    | -      | x        | x        | -      | x     | -     |

| ADVANCE-line Classic | Model | <sup>2</sup> Albinoni | <sup>1</sup> Beethoven | Brahms | <sup>1</sup> Casella | Castilla | <sup>1</sup> Clementi | <sup>1</sup> Corelli | <sup>1</sup> Debussy | <sup>1</sup> Delius | <sup>1</sup> Händel | <sup>1</sup> Monteverdi | <sup>1</sup> Ravel | <sup>1</sup> Rossini | <sup>1</sup> Satie | <sup>1</sup> Scarlatti | <sup>1</sup> Scott | <sup>1</sup> Smetana |
|----------------------|-------|-----------------------|------------------------|--------|----------------------|----------|-----------------------|----------------------|----------------------|---------------------|---------------------|-------------------------|--------------------|----------------------|--------------------|------------------------|--------------------|----------------------|
| U-value              |       | 0,94                  | 0,87                   | 1,15   | 0,87                 | 1,15     | 0,95                  | 1,12                 | 1,07                 | 1,07                | 0,95                | 1,12                    | 0,87               | 1,07                 | 1,04               | 0,91                   | 1,07               | 1,12                 |
| Non-rated            |       | -                     | x                      | x      | x                    | x        | x                     | x                    | x                    | x                   | x                   | x                       | x                  | x                    | x                  | -                      | x                  | x                    |
| EI,30, Sa            |       | x                     | x                      | x      | x                    | x        | x                     | x                    | x                    | x                   | x                   | x                       | x                  | x                    | x                  | x                      | x                  | x                    |
| Letterplate          |       | -                     | x                      | x      | x                    | x        | x                     | x                    | x                    | x                   | x                   | x                       | x                  | x                    | x                  | x                      | x                  | x                    |

U-values applies for tested size 1230 x 2182

Max height 23M

<sup>1</sup> Max height 22M

<sup>2</sup> Max height 22,5M

| ADVANCE-line Side/toplight | Type | SL0 | SL1 | SL2 | SL3 | TL0 |
|----------------------------|------|-----|-----|-----|-----|-----|
| U-value                    |      | 1,9 | 1,9 | 1,9 | 1,9 | 2,2 |
| SBD                        |      | x   | x   | x   | x   | x   |
| EI,30                      |      | x   | x   | x   | x   | -   |

U-value for sidelights applies for width M5

U-value for toplights applies for size M10x4

Max width for fire rated sidelights is M7x21

Max width for sidelights with SPD is

M10x21

|                     |                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Glass</b>        | Corelli, Delius and Debussy has Decor glass. Händel has Cotswold glass.<br>All other designs have clear glass. |
| <b>Options</b>      | See below, values page 4:8<br>x = applicable, - = not applicable                                               |
| <b>Patterns</b>     | All designs apart from Albinoni, Brahms, Casella, Satie and Scott have pattern on both sides.                  |
| <b>Double doors</b> | On request.                                                                                                    |

### Classic



4:11

|               | Albinoni | Beethoven | Berlioz | Brahms |
|---------------|----------|-----------|---------|--------|
| u-values      | 1,0      | 0,91      | 1,0     | 1,4    |
| Fire, EI,30   | x        | x         | -       | x      |
| Sound         | x        | x         | -       | -      |
| Security, RC3 | x        | x         | -       | -      |
| ECO           | x        | x         | x       | x      |
| SBD           | x        | x         | -       | x      |



|               | Casella | Castilla | Clementi | Corelli |
|---------------|---------|----------|----------|---------|
| u-value       | 0,91    | 1,4      | 1,3      | 1,3     |
| Fire, EI,30   | x       | x        | x        | x       |
| Silence       | x       | -        | x        | x       |
| Security, RC3 | x       | -        | x        | x       |
| ECO           | x       | -        | x        | x       |
| SBD           | x       | x        | x        | x       |



|                  | Debussy |
|------------------|---------|
| u-value          | 1,2     |
| Fire, EI,30      | x       |
| Sound            | x       |
| Security, RC3    | x       |
| Eco (u-value)    | x       |
| Secured ByDesign | x       |

|                     |                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Glass</b>        | Corelli, Delius and Debussy has Decor glass. Händel has Cotswold glass.<br>All other designs have clear glass. |
| <b>Options</b>      | See below, values page 4:8<br>x = applicable, - = not applicable                                               |
| <b>Patterns</b>     | All designs apart from Albinoni, Brahms, Casella, Satie and Scott have pattern on both sides.                  |
| <b>Double doors</b> | On request.                                                                                                    |

#### Classic

4:12



|                   | Delius | Händel | Monteverdi | Ravel |
|-------------------|--------|--------|------------|-------|
| u-value           | 1,2    | 1,0    | 1,3        | 0,9   |
| Fire, EI,30       | x      | x      | x          | x     |
| Sound             | x      | x      | x          | x     |
| Security, RC3     | x      | x      | x          | x     |
| Eco (u-value)     | x      | x      | x          | x     |
| Secured By Design | x      | x      | x          | x     |



|                   | Rossini | Satie | Scarlatti | Smetana |
|-------------------|---------|-------|-----------|---------|
| u-value           | 1,2     | 1,2   | 1,0       | 1,22    |
| Fire, EI,30       | -       | x     | x         | -       |
| Sound             | -       | x     | x         | -       |
| Security, RC3     | -       | x     | x         | x       |
| Eco (u-value)     | x       | x     | x         | x       |
| Secured By Design | x       | x     | x         | x       |



|                  | Scott |
|------------------|-------|
| u-value          | 1,2   |
| Fire, EI,30      | x     |
| Sound            | x     |
| Security, RC3    | x     |
| Eco (u-value)    | x     |
| Secured ByDesign | x     |

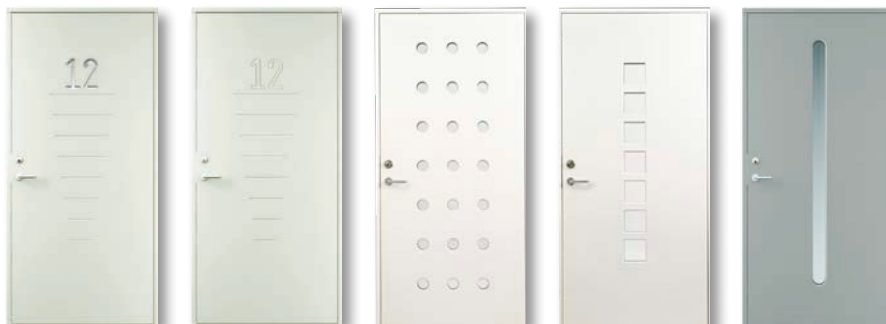
|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| <b>Glass</b>        | All designs have clear glass.                                             |
| <b>Options</b>      | See below, values page 4:5 and 4:7.<br>x = applicable, - = not applicable |
| <b>Double doors</b> | On request.                                                               |

### Character



4:13

|                   | Beat | Canvas     | Charmed | Cifro | Dice |
|-------------------|------|------------|---------|-------|------|
| u-value           | 1,1  | 0,91       | 1,0     | 1,0   | 1,3  |
| Fire, EI,30       | x    | x          | x       | -     | x    |
| Sound             | x    | x          | x       | -     | x    |
| Security, RC3     | x    | x          | x       | -     | x    |
| ECO               | x    | x          | x       | x     | x    |
| Secured By Design | x    | x (Bering) | x       | x     | x    |



|                   | Digits (tæt) | Digits | Domino | Dots | Drop |
|-------------------|--------------|--------|--------|------|------|
| u-value           | 0,91         | 1,1    | 1,7    | 1,3  | 1,1  |
| Fire, EI,30       | x            | x      | -      | x    | x    |
| Sound             | x            | x      | -      | x    | x    |
| Security, RC3     | x            | x      | -      | x    | x    |
| ECO               | x            | x      | x      | x    | x    |
| Secured By Design | x            | x      | -      | x    | x    |

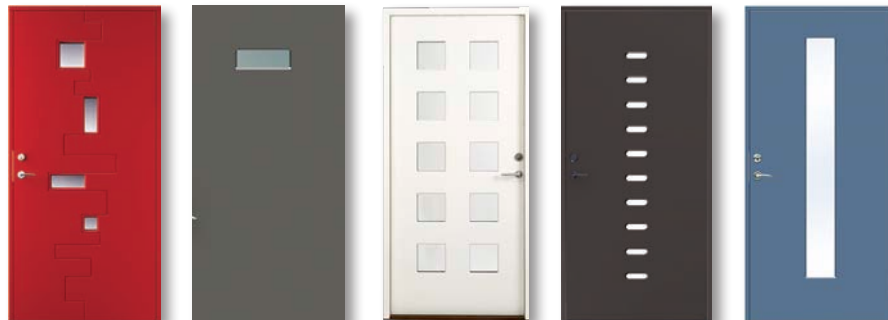
|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| <b>Glass</b>        | All designs have clear glass.                                             |
| <b>Options</b>      | See below, values page 4:5 and 4:7.<br>x = applicable, - = not applicable |
| <b>Double doors</b> | On request.                                                               |

#### Character

4:14



|                  | Identity | Leon | Luna | Pixel | Prisma <sup>1</sup> |
|------------------|----------|------|------|-------|---------------------|
| u-value          | 1,4      | 1,3  | 1,0  | 1,2   | 1,2                 |
| Fire, EI1,0      | -        | x    | x    | x     | x                   |
| Sound            | -        | x    | x    | x     | x                   |
| Security, RC3    | -        | x    | x    | x     | x                   |
| ECO              | -        | x    | x    | x     | x                   |
| Secured ByDesign | -        | x    | x    | x     | x                   |



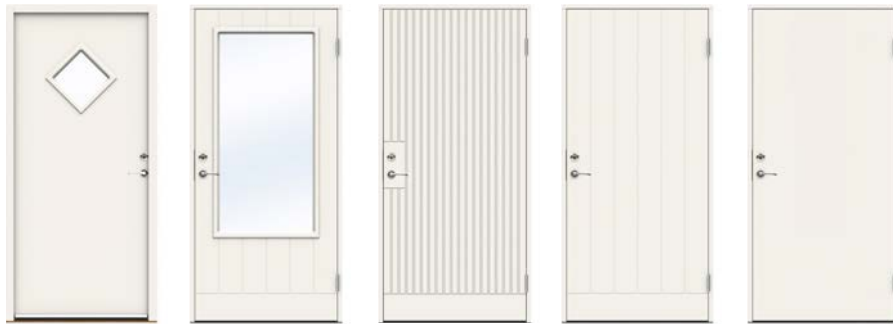
|                   | Pulse | Step | Square | Tajo | Tower |
|-------------------|-------|------|--------|------|-------|
| u-value           | 1,3   | 1,0  | 1,7    | 1,3  | 1,3   |
| Fire, EI1,0       | x     | x    | -      | x    | x     |
| Sound             | x     | x    | -      | x    | -     |
| Security, RC3     | x     | x    | -      | -    | x     |
| ECO               | x     | x    | x      | x    | x     |
| Secured By Design | x     | x    | -      | x    | x     |

<sup>1</sup> Available with coloured and clear glass, ECO only clear glass.

|                     |                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Glass</b>        | Clear, except for W82 which is cotswold.<br>Optional glass types frosted and cotswold available on request. |
| <b>Options</b>      | See below, values page 4:5 and 4:7.<br>x = applicable, - = not applicable                                   |
| <b>Patterns</b>     | All designs have pattern only on outside.                                                                   |
| <b>Double doors</b> | On request.                                                                                                 |

### Function

4:15



|                   | Amur | Aral | Atlantic | Barents | Bering * |
|-------------------|------|------|----------|---------|----------|
| u-value           | 1,0  | 1,5  | 0,91     | 0,91    | 0,91     |
| Fire, EI,30       | x    | x    | x        | x       | x        |
| Sound             | x    | -    | -        | x       | x        |
| Security, RC3     | x    | x    | x        | x       | x        |
| Eco (u-value)     | x    | x    | x        | x       | x        |
| Secured By Design | x    | x    | x        | x       | x        |



|                   | Caspian | Como | Elbe * | Hudson | Michigan |
|-------------------|---------|------|--------|--------|----------|
| u-value           | 1,6     | 1,4  | 1,3    | 1,0    | 1,0      |
| Fire, EI,30       | -       | x    | x      | x      | x        |
| Sound             | -       | -    | x      | x      | x        |
| Security, RC3     | x       | x    | x      | x      | x        |
| Eco (u-value)     | x       | x    | x      | x      | x        |
| Secured By Design | x       | x    | x      | -      | x        |



|                   | Sargasso | Tigris | Tobol | Volga * |  |
|-------------------|----------|--------|-------|---------|--|
| u-value           | 1,0      | 1,5    | 1,0   | 1,0     |  |
| Fire, EI,30       | x        | x      | x     | x       |  |
| Sound             | -        | -      | x     | -       |  |
| Security, RC3     | x        | -      | x     | x       |  |
| Eco (u-value)     | x        | x      | x     | x       |  |
| Secured By Design | x        | x      | x     | x       |  |



## Toplights

|                        |                                                                                                                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Construction</b>    | 115 mm pine frame for inswing doors.<br>105 mm pine frame for outswing doors.                                                                                                                                                                                                                                                         |
| <b>Painted surface</b> | Standard colour is RAL 9010, Std. white, sheen 25-35.<br><u>Other standard colours:</u><br>NCS S 0500-N, Pure White<br>RAL7016, Antracite Grey<br>NCS S 2500-N, Medium Grey<br>NCS S 2570-Y90R, Moderate red<br>NCS S 9000-N, Black<br>RAL5005 Signal Blue<br>Further options available as RAL and NCSS. (Certain limitations apply.) |
| <b>Glass</b>           | Thermoglass 28 mm thick.<br>ECO 3-layer thermoglass 54 mm thick. See page 4:7<br>SBD 3-layer security glass. See options page 4:10                                                                                                                                                                                                    |

| Module | Outer frame dimensions |        |
|--------|------------------------|--------|
|        | Width                  | Height |
| 10x3   | 988                    | 300    |
| 13x3   | 1288                   | 300    |
| 14x3   | 1388                   | 300    |
| 15x3   | 1488                   | 300    |

Max. size 688x1988. min size 600x200. Interval 20mm

## Sidelights

|                        |                                                                                                                                                                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Construction</b>    | 115 mm pine frame (for inswing doors)                                                                                                                                                                                                                                                                                                |
| <b>Painted surface</b> | Standard colour is RAL 9010 Std. white, sheen 25-35.<br><u>Other standard colours:</u><br>NCS S 0500-N, Pure White<br>RAL7016, Antracite Grey<br>NCS S 2500-N, Medium Grey<br>NCS S 2570-Y90R, Moderate red<br>NCS S 9000-N, Black<br>RAL5005 Signal Blue<br>Further options available as RAL and NCSS. (Certain limitations apply.) |
| <b>Glass</b>           | Thermoglass 28 mm thick.<br>ECO 3-layer thermoglass 54 mm thick. See page 4:7<br>SBD 3-layer securityglass. See options page 4:10                                                                                                                                                                                                    |

| Module | Outer frame dimensions |        |
|--------|------------------------|--------|
|        | Width                  | Height |
| 3x21   | 298                    | 2080   |
| 4x21   | 398                    | 2080   |
| 5x21   | 498                    | 2080   |
| 3x21   | 298                    | 2115   |
| 4x21   | 398                    | 2115   |
| 5x21   | 498                    | 2115   |

Max. size 998x2280. Min. size 198x1880. Interval 20mm.

### Toplight for inswing doors



### Toplight for outswing doors



### Toplight ECO/SBD



### Sidelights



SLO

SL1



SLO ECO/SBD



SL1 ECO/SBD



SL2 ECO/SBD



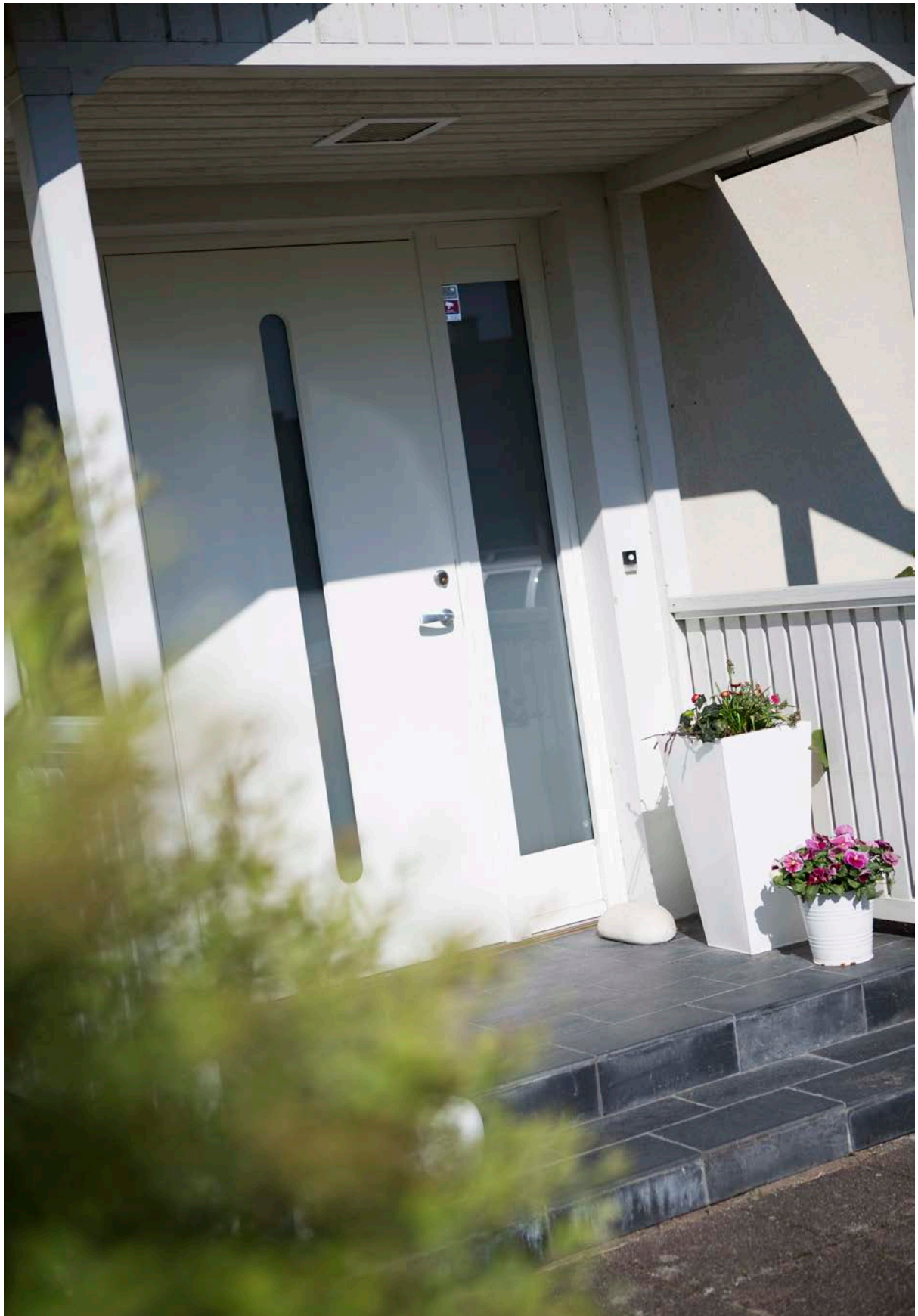
SL3 ECO/SBD



SL2



SL3



4:17

4:18

Notes area with horizontal dotted lines for writing.

| <b>Frames, thresholds and sliding doors</b>   | <b>Page</b> |
|-----------------------------------------------|-------------|
| Frames for single acting doors, 40mm and 62mm | 5:2         |
| Frames for single acting doors, 45mm          | 5:3         |
| Frames for single acting doors, 54mm          | 5:4         |
| Thresholds                                    | 5:5         |
| <b>Sliding doors</b>                          |             |
| Pocket frame for sliding doors                | 5:6         |
| Frames for on-wall sliding door               | 5:7         |
| <b>Exterior doors</b>                         |             |
| Frames and thresholds ADVANCE-LINE            | 5:8         |

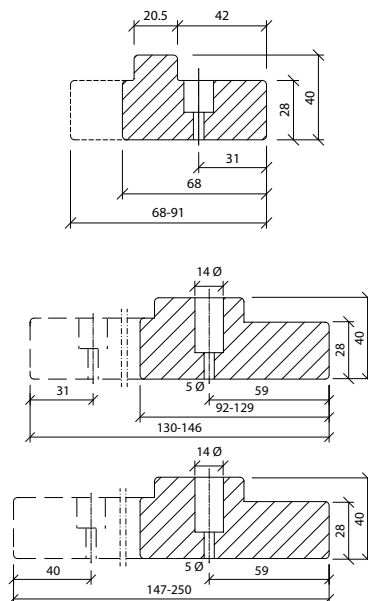
# Frames for single acting doors

## 40mm and 62mm

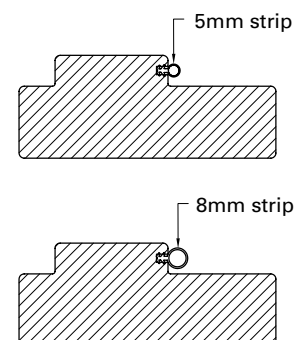
5:2

|                       |                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Construction</b>   | Please see detail.                                                                                                                                                                                                                                                                                              |
| <b>Dimensions</b>     | Frame thickness: 40 mm.<br>Frame depth standard: 93, 96, 100, 110, 121, 128, 147, 150, 160, 170, 180, 200 and 250 mm (Veneered frame max 170 mm.)                                                                                                                                                               |
| <b>Fire and smoke</b> | Non-rated, FD30S and FD60S<br>Intumescent acc. to valid product information.                                                                                                                                                                                                                                    |
| <b>Sound</b>          | Rw 33dB, Rw 38dB.                                                                                                                                                                                                                                                                                               |
| <b>Frame finish</b>   | Pine frames as, primed for paint on site or painted from factory.<br>Hardwood frames lacquered.                                                                                                                                                                                                                 |
| <b>Thresholds</b>     | See page 5:2                                                                                                                                                                                                                                                                                                    |
| <b>Mounting holes</b> | All surface treated frames can be pre-drilled.<br>See detail. As an alternative 14mm through drilling can be offered.<br>Untreated frames are not predilled!<br>Please state on your order if you need pre-drilled frames.<br>Cover plugs: White frames with white plugs, other colours with transparent plugs. |
| <b>Others</b>         | Ironmongery, intumescents, sealing strips etc. See under each type of door.                                                                                                                                                                                                                                     |

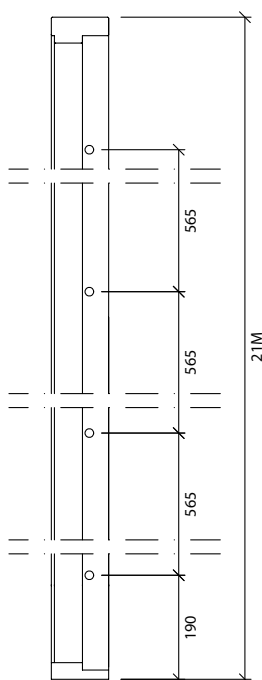
### Wooden frame



### Frame with sealing strip (Rw 27dB and Rw 33dB)



### Location of mounting holes

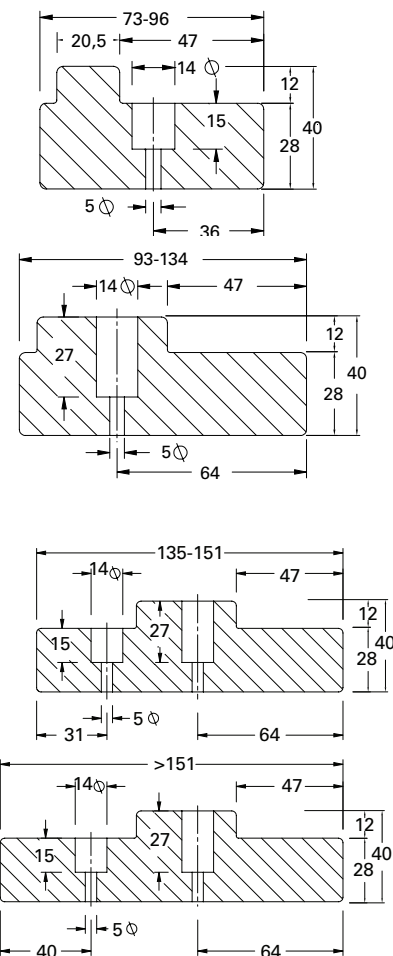


# Frames for single acting doors

## 45mm

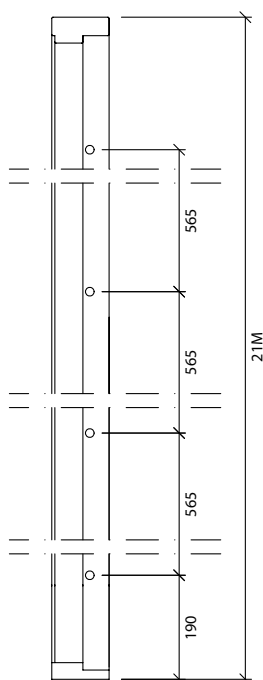
|                       |                                                                                                                                                                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Construction</b>   | Please see detail.                                                                                                                                                                                                                                                |
| <b>Dimensions</b>     | Frame thickness: 40 mm.<br>Frame depth standard: 93, 96, 100, 110, 121, 128, 147, 150, 160, 170, 180, 200 and 250 mm (Veneered frame max 170 mm.)                                                                                                                 |
| <b>Fire and smoke</b> | Non-rated FD30S<br>Intumescent acc. to valid product information.                                                                                                                                                                                                 |
| <b>Sound</b>          | Sound rating Rw 33dB.                                                                                                                                                                                                                                             |
| <b>Frame finish</b>   | Pine frames as, primed for paint on site or painted from factory.<br>Hardwood frames lacquered.                                                                                                                                                                   |
| <b>Thresholds</b>     | See page 5:3                                                                                                                                                                                                                                                      |
| <b>Mounting holes</b> | All surface treated frames can be pre-drilled.<br>See detail. As an alternative 14mm through drilling can be offered.<br>Untreated frames are not predilled!<br>pre-drilled.<br>Cover plugs: White frames with white plugs, other colours with transparent plugs. |
| <b>Others</b>         | Ironmongery, intumescent, sealing strips etc. See under each type of door.                                                                                                                                                                                        |

### Wooden frame

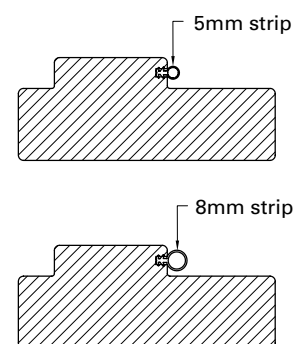


5:3

### Location of mounting holes



### Frame with sealing strip (Rw 33dB)



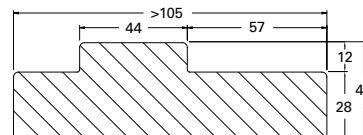
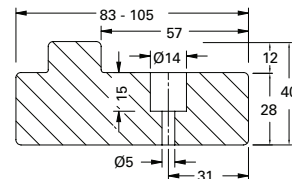
# Frames for single acting doors

## 54mm

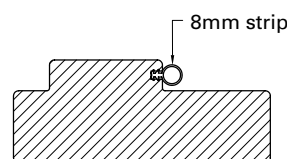
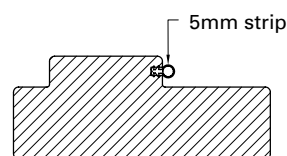
5:4

|                       |                                                                                                                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Construction</b>   | Please see detail.                                                                                                                                                                                                                                                                                  |
| <b>Dimensions</b>     | Frame thickness: 40 mm.<br>Frame depth standard: 93, 96, 100, 110, 121, 128, 147, 150, 160, 170, 180, 200 and 250 mm (Veneered frame max 170 mm.)                                                                                                                                                   |
| <b>Fire and smoke</b> | FD30S and FD60S<br>Intumescent acc. to valid product information.                                                                                                                                                                                                                                   |
| <b>Sound</b>          | Sound rating Rw 33dB and Rw 38dB.                                                                                                                                                                                                                                                                   |
| <b>Frame finish</b>   | Pine frames as, primed for paint on site or painted from factory.<br>Hardwood frames lacquered.                                                                                                                                                                                                     |
| <b>Thresholds</b>     | See page 5:4                                                                                                                                                                                                                                                                                        |
| <b>Mounting holes</b> | All surface treated frames can be pre-drilled.<br>See detail. As an alternative 14mm through drilling can be offered.<br>Untreated frames are not predilled!<br>Please state on order whether required or not.<br>Cover plugs: White frames with white plugs, other colours with transparent plugs. |
| <b>Others</b>         | Ironmongery, intumescent, sealing strips etc. See under each type of door.                                                                                                                                                                                                                          |

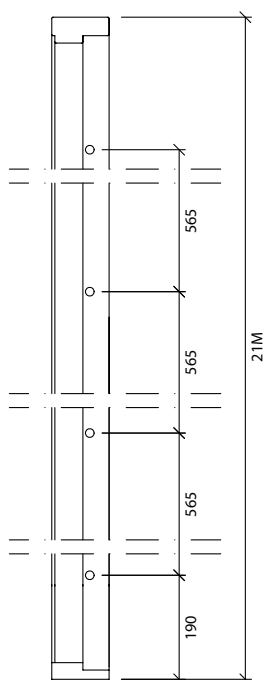
### Wooden frame



### Frame with sealing strip (Rw 33dB and Rw 38dB)



### Location of mounting holes



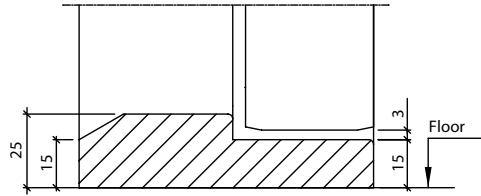
# Thresholds

## Thesholds and drop down seals

### Hardwood threshold, 40-45 mm doors

**Fire** Non-rated, FD30S

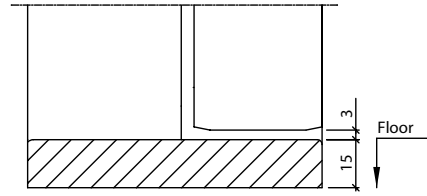
**Sound** Non-rated, Rw33dB



### Hardwood threshold, 40, 45 mm doors

**Fire** Non-rated, FD30S

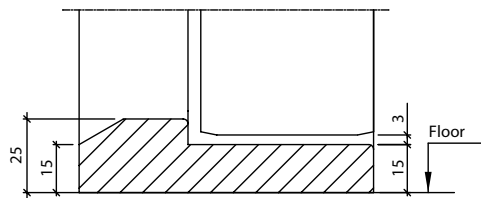
**Sound** Non-rated



### Hardwood threshold, 54 mm doors

**Fire** Non-rated, FD30S, FD60S

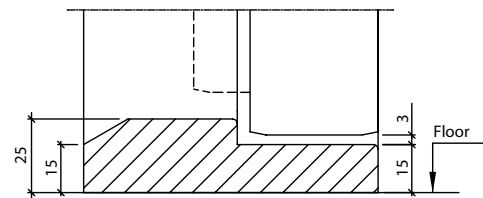
**Sound** Non-rated, Rw35dB



### Hardwood threshold, 60 mm doors

**Fire** FD30S, FD60S

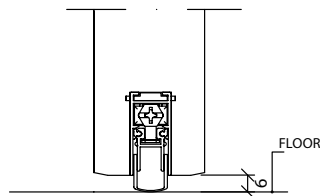
**Sound** Rw30 38dB.



### Drop down seal JUT 1530

**Fire** FD30S, FD60S

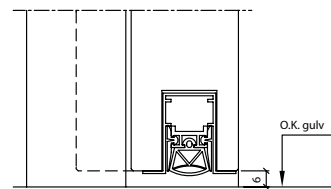
**Sound** Rw33dB, Rw38dB



### Drop down seal type Ultra Omega (double doors)

**Fire** FD30S, FD60S

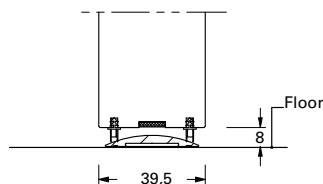
**Sound** Rw30dB, Rw38dB.



### Aluminum threshold 45 mm (Safehinge)

**Fire** FD30S

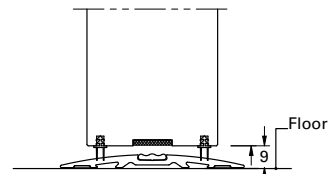
**Sound** Rw35dB.



### Aluminum threshold 54 mm (Safehinge)

**Fire** FD30, FD60.

**Sound** Rw35dB.



5:5



# Pocket sliding door frame

## For interior non fire rated doors.

### Measurements

Basic construction available in 70 and 95 mm.

Frame depth 70mm : 1 + 1 pc. gypsum board = 96 mm

1 + 2 gypsum board = 109 mm

2 + 2 gypsum board = 122 mm

Frame depth 95 mm: 1 + 1 gypsum board = 121 mm

1 + 2 gypsum board = 135 mm

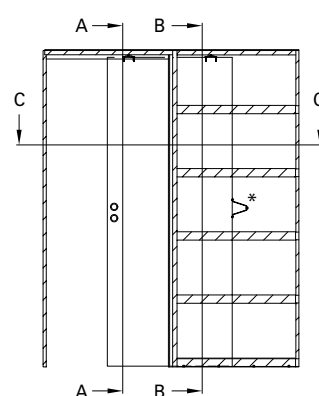
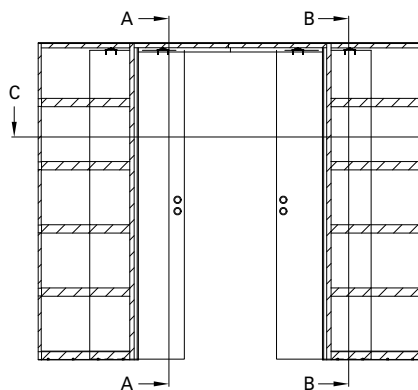
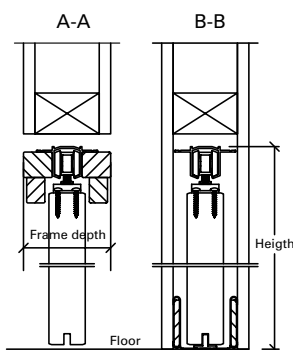
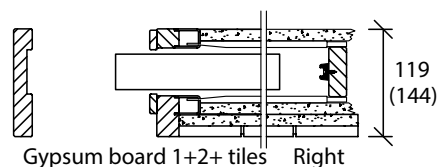
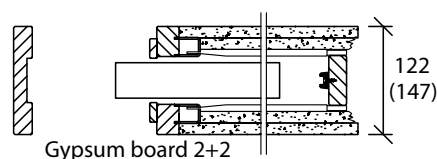
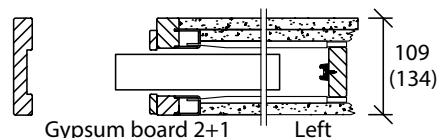
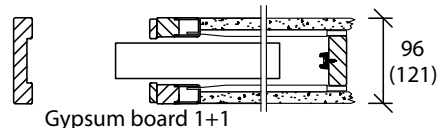
2 + 2 gypsum board = 147 mm

|                     |                                                                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Studs</b>        | 70 mm horizontal steel studs (for lighter doors)<br>95 mm horizontal wooden studs (for heavier doors)                                                                                    |
| <b>Construction</b> | Single or double pocket frame with horizontal studs in 70 or 95 mm for various wall thickness. See combinations to the right.                                                            |
| <b>Frame finish</b> | Pine frames as, primed for paint on site or painted from factory.                                                                                                                        |
| <b>Ironmongery</b>  | All necessary accessories: Rail, wheels, stop and bottom guide is included.                                                                                                              |
| <b>Weight</b>       | 121 mm pocket frame app. 18 kg.                                                                                                                                                          |
| <b>Back stop</b>    | If door is fitted with lockcase, we recommend to use an extended back stop* (see detail) to prevent key and/or toilet turn to collide with pocket frame. Bracket must be fitted on site. |
| <b>Syncronic</b>    | Syncronic co-ordination can be supplied to double doors. (massive doors max size 2 x 825 mm).<br>NOTE! Frame height + 20 mm                                                              |
| <b>Other</b>        | Please inform us, if flush pull handles have more than 2 mm excess.<br>Doors with vision panels only in 95 mm construction.                                                              |

### Constructions

Measurements = 70 mm construction

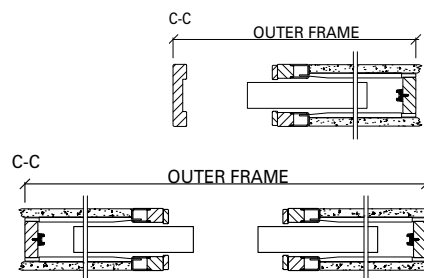
Measurements in brackets = 95 mm construction



| Module   | Door frame |        | Clear opening |       | Door leaf |        | S/O  |
|----------|------------|--------|---------------|-------|-----------|--------|------|
|          | Width      | Height | wo/lås        | w/lås | Width     | Height |      |
| 7x21     | 1290       | 2100   | 607           | 507   | 625       | 2040   | 2110 |
| 8x21     | 1490       | 2100   | 707           | 607   | 725       | 2040   | 2110 |
| 9x21     | 1690       | 2100   | 807           | 707   | 825       | 2040   | 2110 |
| 10x21    | 1890       | 2100   | 907           | 807   | 925       | 2040   | 2110 |
| 11x21    | 2090       | 2100   | 1007          | 907   | 1025      | 2040   | 2110 |
| 12x21*   | 2290       | 2100   | 1107          | 1007  | 1125      | 2040   | 2110 |
| 13x21*   | 2490       | 2100   | 1207          | 1107  | 1225      | 2040   | 2110 |
| 2x7x21   | 2540       | 2100   | 1213          | 1013  | 625+625   | 2040   | 2110 |
| 2x8x21   | 2940       | 2100   | 1413          | 1213  | 725+725   | 2040   | 2110 |
| 2x9x21   | 3340       | 2100   | 1613          | 1413  | 825+825   | 2040   | 2110 |
| 2x10x21  | 3740       | 2100   | 1813          | 1613  | 925+925   | 2040   | 2110 |
| 2x11x21  | 4140       | 2100   | 2013          | 1813  | 1025+1025 | 2040   | 2110 |
| 2x12x21* | 4540       | 2100   | 2213          | 2013  | 1125+1125 | 2040   | 2110 |
| 2x13x21* | 4940       | 2100   | 2413          | 2213  | 1225+1225 | 2040   | 2110 |

All frame depth available in M7, M8, M9, M10, M11, M12 og M13 (single) and M13, M15, M17, M19, M21, M23 og M25 (double) and in height M20, M21, M22, M23 og M24.

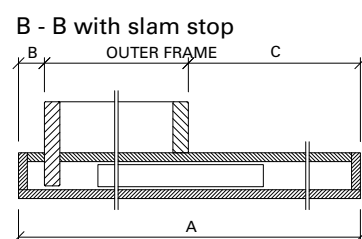
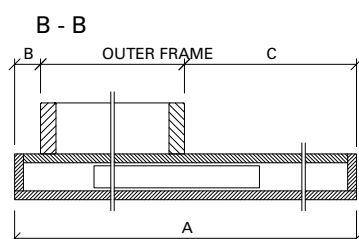
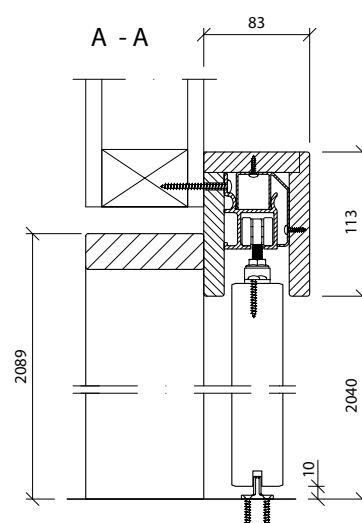
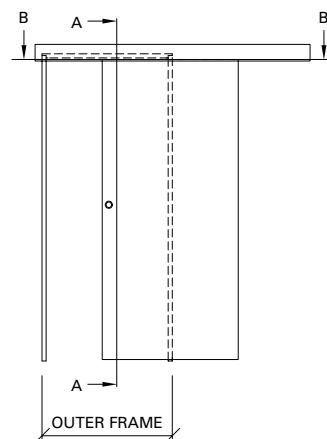
Alternative sizes upon request. \*only 95 mm construction.



# Frames

## On-wall sliding doors, non fire rated

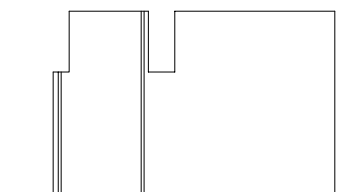
|                          |                                                                                                                      |                                                                   |
|--------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <b>Measures</b>          | Frame dimension 30mm.<br>Frame depth: 75, 96, 100, 110, 121, 128, 147, 150, 160, 170, 180, 200, 250.                 |                                                                   |
| <b>Handing</b>           | Left or right side sliding towards slamming post to be specified on order.                                           |                                                                   |
| <b>Frame finish</b>      | Pine frames as, primed for paint on site or painted from factory.                                                    |                                                                   |
| <b>Surface treatment</b> | See page 14:3.                                                                                                       |                                                                   |
| <b>Frames</b>            | Non-rebated 28 mm frame. With slamming post, strike and ready for pelmet.                                            |                                                                   |
| <b>Pelmet</b>            | Standard in Softwood.                                                                                                |                                                                   |
| <b>Bottom of door</b>    | Grooved for track (the track is floor fitted)                                                                        |                                                                   |
| <b>Ironmongery</b>       | Pelmet and sliding gear is offered separately.<br>Round or oval flush pull handles can be fitted on both door sides. |                                                                   |
|                          | Lock:                                                                                                                | 4249 or 2587 upon request.<br>Keep to be fitted to frame on site. |
| <b>Weight</b>            | Module 9                                                                                                             | 100 mm wooden frame app. 10 kg.                                   |



| Module | Door frame |        | Clear opening |        | Door leaf |        | Pelmet |      |      |
|--------|------------|--------|---------------|--------|-----------|--------|--------|------|------|
|        | Width      | Height | wo/lock       | w/lock | Width     | Height | A      | B    | C    |
| 7x21   | 686        | 2089   | 626           | 546    | 725       | 2040   | 1470   | 47   | 737  |
| 8x21   | 786        | 2089   | 726           | 646    | 825       | 2040   | 1670   | 47   | 837  |
| 9x21   | 886        | 2089   | 826           | 746    | 925       | 2040   | 1870   | 47   | 937  |
| 10x21  | 986        | 2089   | 926           | 846    | 1025      | 2040   | 2070   | 47   | 1037 |
| 11x21  | 1086       | 2089   | 1026          | 946    | 1125      | 2040   | 2270   | 47   | 1137 |
| 12x21  | 1186       | 2089   | 1126          | 1046   | 1225      | 2040   | 2470   | 47   | 1237 |
| 13x21  | 1286       | 2089   | 1226          | 1070   | 725+725   | 2040   | 2720   | 717  | 717  |
| 14x21  | 1386       | 2089   | 1326          | 1170   | 725+725   | 2040   | 2820   | 717  | 717  |
| 15x21  | 1486       | 2089   | 1426          | 1270   | 825+825   | 2040   | 3120   | 817  | 817  |
| 16x21  | 1586       | 2089   | 1526          | 1370   | 825+825   | 2040   | 3220   | 817  | 817  |
| 17x21  | 1686       | 2089   | 1626          | 1470   | 925+925   | 2040   | 3520   | 917  | 917  |
| 18x21  | 1786       | 2089   | 1726          | 1570   | 925+925   | 2040   | 3620   | 917  | 917  |
| 19x21  | 1886       | 2089   | 1826          | 1670   | 1025+1025 | 2040   | 3920   | 1017 | 1017 |
| 20x21  | 1986       | 2089   | 1926          | 1870   | 1025+1025 | 2040   | 4020   | 1017 | 1017 |

Alle kapper fås også til dørbredde 2x1125 og 2x1225 (dobbelt)

### Milling in slam post



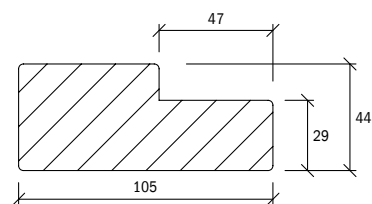
5:7

# Frames

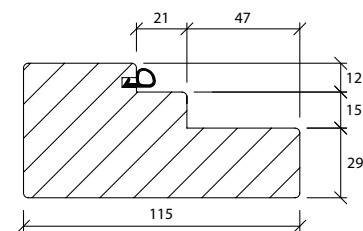
## Frames and Thresholds for ADVANCE-LINE exterior doors

|                      |                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Construction</b>  | See picture                                                                                                       |
| <b>Fire</b>          | Can be provided with fire rating EI <sub>30</sub> .<br>Intumescent in door.                                       |
| <b>Surface frame</b> | Standard colour RAL9010.<br>Other colours are also available on request.                                          |
| <b>Thresholds</b>    | See detailed illustration below.                                                                                  |
| <b>Pre-drilling</b>  | All frames are delivered without pre-drilled holes.<br>14mm pre-drilled through holes available on request.       |
| <b>Frame groove</b>  | Frame can be fitted with groove for jamb lining on request. 7x8 mm for inswing frame and 10,2x12 mm for outswing. |

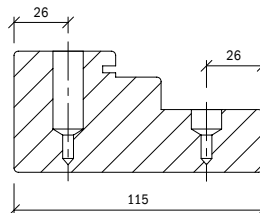
### Outswing frame



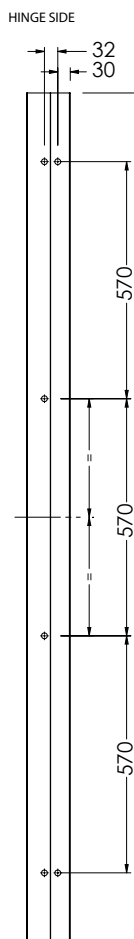
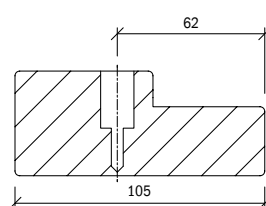
### Inswing frame



### Positioning of pre-drilled holes for inswing frame.



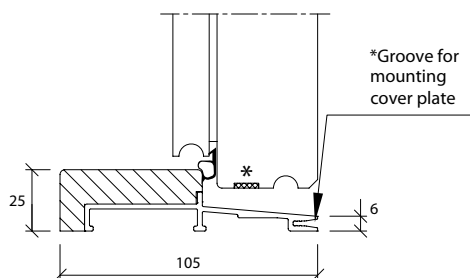
### Positioning of pre-drilled holes for outswing frame.



### Threshold for outwards opening door

#### Surface

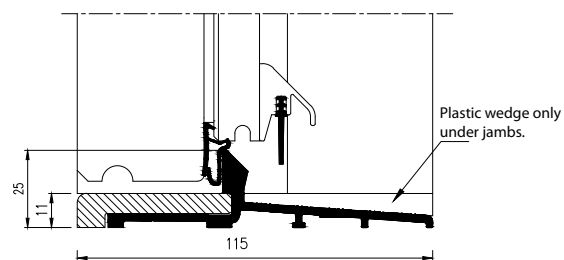
Combination of thermo-treated hardwood and aluminium.  
Intumescent in door for EI<sub>30</sub> doors.



### Threshold for inwards opening door

#### Surface

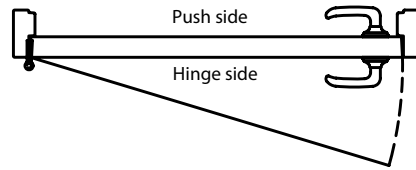
Combination of thermo-treated hardwood and aluminium.  
Intumescent in door for EI<sub>30</sub> doors.



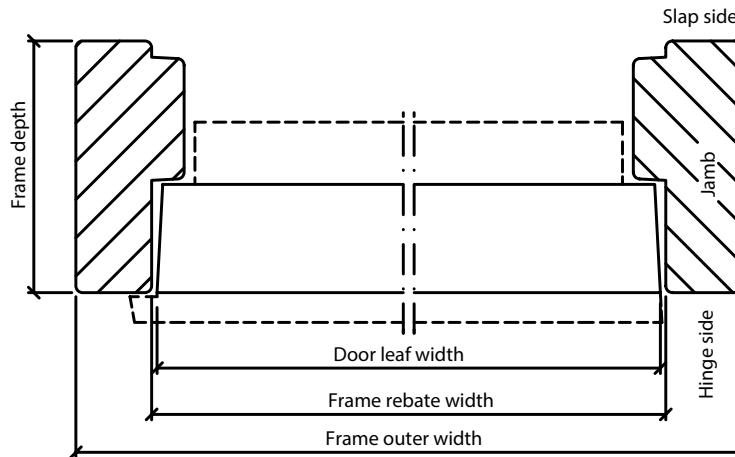
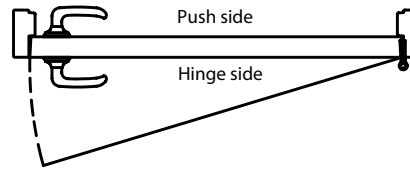
| <b>Generel</b>                             | <b>Side</b> |
|--------------------------------------------|-------------|
| Terminology                                | 6:2         |
| Door leaf finish                           | 6:3         |
| Maintenance instructions                   | 6:4         |
| A and B measure                            | 6:5         |
| Assembly and fitting instruction frames    | 6:6 - 6:8   |
| Installation instruction manual flush bolt | 6:9         |

6:2

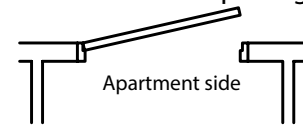
Left handed door



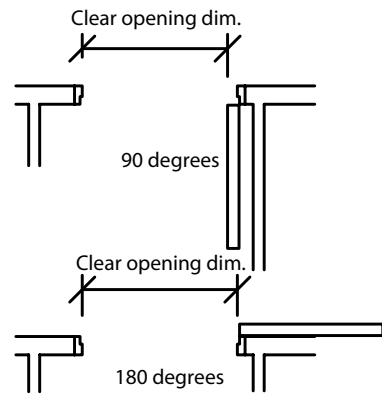
Right handed door



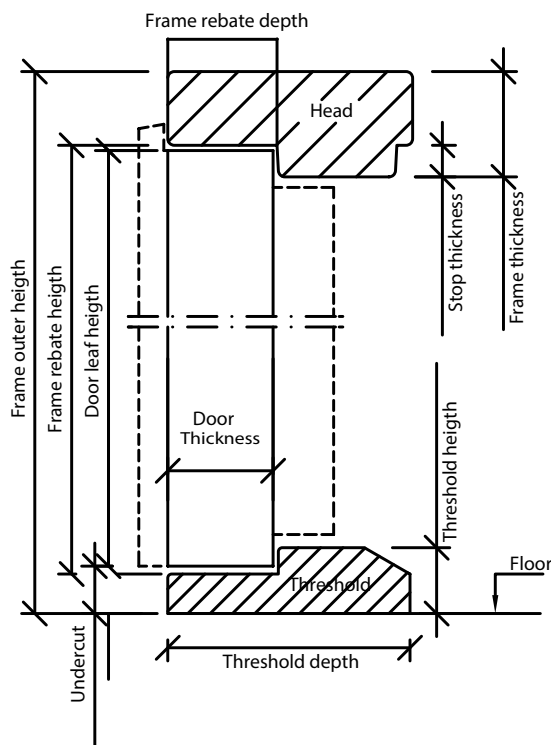
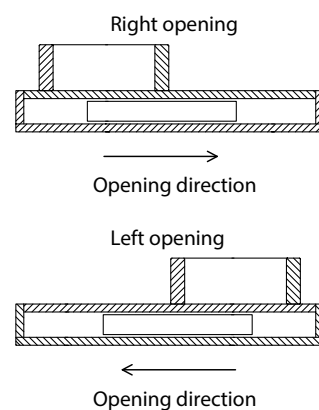
Door outwards opening



Door inwards opening



Sliding doors



**The wide range of various surfaces makes it possible to meet with functional as well as aesthetical requirements.**

## Doors

|                                           |                                                                                                                                                                                                                                           |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For painting on site Untreated or primed. |                                                                                                                                                                                                                                           |
| Painted                                   | Standard colour: white (NCS S 0502-Y) or grey (NCS S 1502-G50Y) gloss approx 20-35. Alternatively other colours from the NCS or RAL system.                                                                                               |
| Veneered                                  | Veneer as quarter or crown cut – except Koto and Sapele which only is available as quarter cut. Veneer types: Ash, Beech, Oak, Koto, Maple, Sapele, Cherry and Walnut – all clear lacquered. Alternatively other veneer types on request. |
| Laminate                                  | Standard laminate from Formica Doors collection - please request list from Swedoor JELD-WEN. Alternatively other colours and surface structures on request.                                                                               |

## Timber frames

|                                                                         |                                                                                                                                                                  |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For painting on site Primed hardwood or softwood. Untreated on request. |                                                                                                                                                                  |
| Painted                                                                 | Hardwood or softwood painted standard white (NCS S 0502-Y) or grey (NCS S 1502-G50Y) gloss approx 20-35. Alternatively other colours from the NCS or RAL system. |
| Hardwood                                                                | Ash, Beech, Oak, Maple, Mahogany and Walnut. Clear Lacquered. Alternatively other wood types and surface treatments on request.                                  |

# Maintenance instructions solid doors

As a guide for choice of materials for cleaning and repairing of joinery products, see below a short description of the surface treatment applied in the factory prior to delivery. Here also is further information of detergents as well as paints and other surface treatment materials recommended by SWEDOOR.

## Painted door leaves

|                     |                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | The paint applied is a two component acid hardening finishing coat (convertible coating) which meets with high demands for body, resistance against abrasions, wear, and appearance and also provides a high degree of resistance against most household chemicals, grease and solvents.                                                                |
| <b>Cleaning:</b>    | Use common detergents, for example a washing-up detergent. Avoid the use of anything that can scratch or dissolve the surface. Therefore never use solvents, scouring powder, steel wool etc. Moisten the surface from below and upwards, but clean from the top, downwards. Otherwise there is the risk of getting streaks. After-dry with soft cloth. |
| <b>Maintenance:</b> | In general no repair is required unless damage or abnormal wear has occurred. Repair: Minor damage can be repaired by using a fine brush with lacquer in matching shades and glosses. Large damages demands complete sanding and total re-lacquering, alternatively repair with plastic wood which is sanded and lacquered.                             |

## Veneered door leaves

|                     |                                                                                                                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | The surface has excellent resistance against most chemicals, grease and solvents. It provides reasonable resistance to wear, but can get scratched by sharp objects.                                                                                                                                                    |
| <b>Cleaning:</b>    | Use common detergents, for example a washing-up detergent. Use a sponge or soft cloth, well wrung out. Wipe from top, downwards. Dry after application. Do not use an excess of water, nor anything that might scratch or dissolve the lacquer. Therefore solvents, scouring powder, steel wool etc should not be used. |
| <b>Maintenance:</b> | In general no cleaning is required unless damage or abnormal wear has occurred. Products used for furniture maintenance, e.g. furniture polish and wax polish, can be used but is normally not required.                                                                                                                |
| <b>Repair:</b>      | Minor damages can be repaired by using a fine brush with lacquer in matching shades and glosses. Large damages demands complete sanding and total re-lacquering, alternatively repair with plastic wood which is sanded and lacquered.                                                                                  |

## Laminate door leaves

|                     |                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | The surface has excellent resistance against most chemicals, grease and solvents. It provides reasonable resistance to wear, but can get scratched by sharp objects.                                                                                                                                                                                                                           |
| <b>Cleaning:</b>    | Water with soap or common synthetic detergents will remove most stains. Particularly grave soiling requires treatment with a concentrated detergent, methylated spirits, ligroin or nitro-cellulose thinners. Never use steel wool or similar. Avoid cleaning with scouring products. N.B. When using petroleum based solvents, keep away from sealing tape, as its properties can be damaged. |
| <b>Maintenance:</b> | Cleaning only.                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Repair:</b>      | Minor damages, scratching, etc., can successfully be mended with a repair compound, especially produced for laminate surfaces.                                                                                                                                                                                                                                                                 |

## Painted wooden frames

|                     |                                                                                                                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Surface treatment is made with an environmental, water based finishing coat which well complies with the high standards for painted frames.                                                                              |
| <b>Cleaning:</b>    | Use common detergents, except alkalic products, for example a washing-up detergent. Do not use a product that can scratch or dissolve the surface. Therefore avoid solvents, scouring powder, steel wool etc. After-dry. |
| <b>Maintenance:</b> | In general no repair is required unless damage or abnormal wear has occurred.                                                                                                                                            |
| <b>Repair:</b>      | Minor damage can be repaired with a fine brush with Swedoor's touch up paint. Larger damages generally require a total re-paint.                                                                                         |

## Clear lacquered wooden frames

|                     |                                                                                                                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Surface treatment is made with an environmental, water based clear lacquer which well complies with the high standards for clear lacquered frames.                                                                       |
| <b>Cleaning:</b>    | Use common detergents, except alkalic products, for example a washing-up detergent. Do not use a product that can scratch or dissolve the surface. Therefore avoid solvents, scouring powder, steel wool etc. After-dry. |
| <b>Maintenance:</b> | In general no cleaning is required unless damage or abnormal wear has occurred.                                                                                                                                          |
| <b>Repair:</b>      | Minor damages can be repaired with a fine brush with Swedoor's touch up paint. Larger damages generally require a total re-paint.                                                                                        |

# A and B measure

## Single acting doors

Timber frames must be fixed back to either timber or steel stud partitions, or masonry walls, with fixings per jamb set no greater than 150mm from corners and at centres not exceeding 600mm.

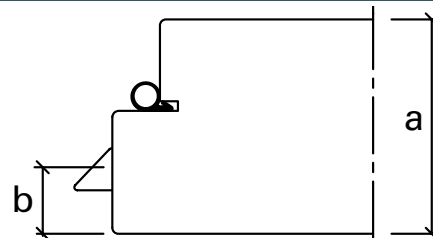
| Door Type                                                     | Page | a measure | b measure | c measure | d measure | Detail |
|---------------------------------------------------------------|------|-----------|-----------|-----------|-----------|--------|
| Single Acting doors non-rated                                 | 1:2  | 40        | 20        | -         | -         | 1      |
| Single Acting doors non-rated                                 | 1:9  | 45        | 20        | -         | -         | 2      |
| Single Acting doors non-rated, sound rating Rw 33dB           | 1:3  | 40        | 20        | -         | -         | 1      |
| Single Acting doors non-rated, sound rating Rw 33dB           | 1:10 | 45        | 20        | -         | -         | 2      |
| Single Acting doors fire rating FD30S                         | 1:4  | 40        | 20        | -         | -         | 1      |
| Single Acting doors fire rating FD30S                         | 1:11 | 45        | 20        | -         | -         | 2      |
| Single Acting doors fire rating FD30S, sound rating Rw 33dB   | 1:5  | 40        | 20        | -         | -         | 1      |
| Single Acting doors fire rating FD30S, sound rating Rw 33dB   | 1:12 | 45        | 20        | -         | -         | 2      |
| Single Acting doors fire rating FD30S, sound rating Rw 38dB   | 1:16 | 54        | 20        | -         | -         | 3      |
| Single Acting doors fire rating FD60S                         | 1:17 | 54        | 20        | -         | -         | 3      |
| Single Acting doors fire rating FD30S, sound rating Rw 38dB   | 1:22 | 62        | 20        | 36        | -         | 4      |
| Single Acting doors fire rating FD60S (non rebated / rebated) | 1:23 | 62        | 20        | - / 36    | -         | 4 / 5  |
| Single Acting doors fire rating FD60S, sound rating Rw 38dB   | 1:24 | 62        | 20        | 36        | -         | 4      |

6:5

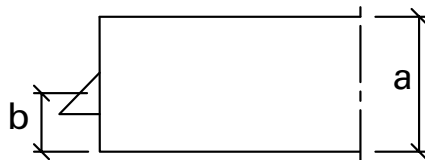
Detail 1



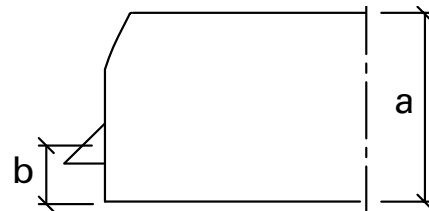
Detail 4



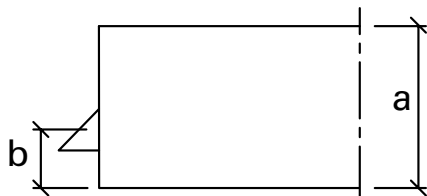
Detail 2



Detail 5



Detail 3



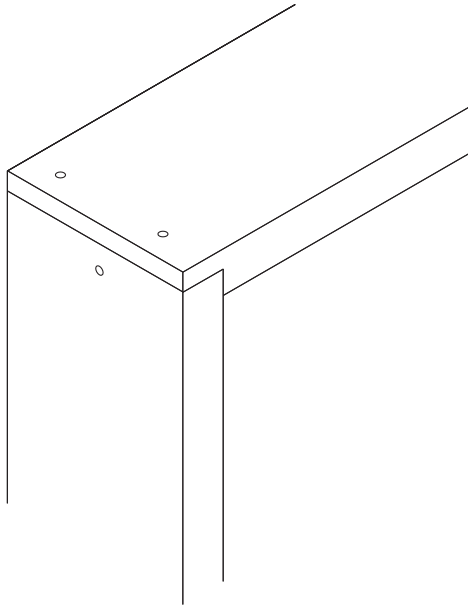


# Assembly/Fitting instruction, interior doors

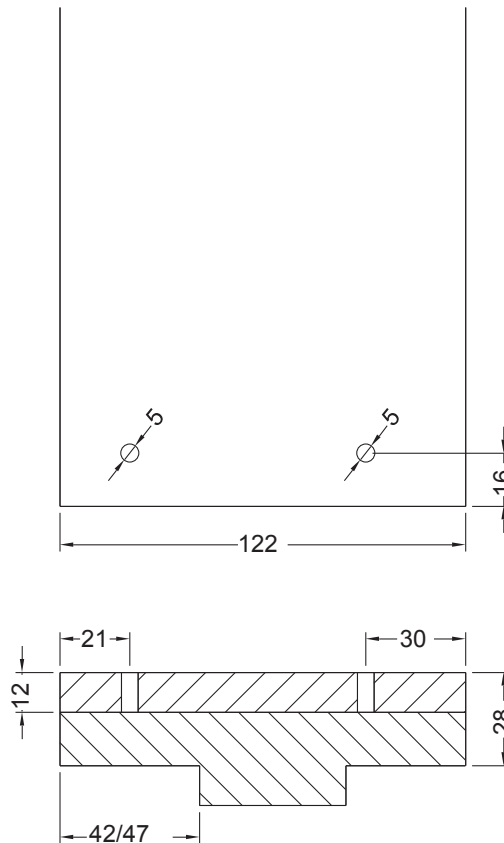
## Frame

It is very important that doorsets are installed correctly to comply with requirements of fire, acoustics etc. It is the responsibility of the installer to ensure that the correct procedures are followed. The guarantee will be void if the criteria are not met.

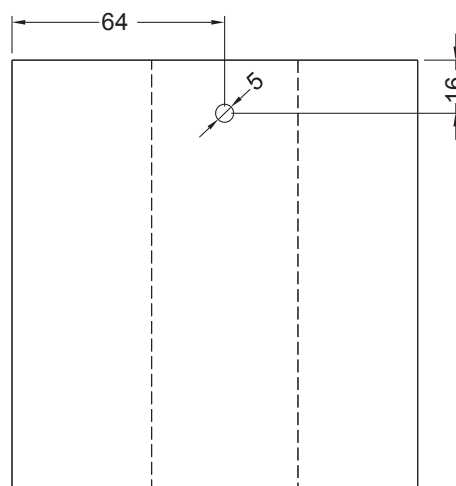
6:6



Use 8g x 50mm  
BZP screws  
NOT SUPPLIED



Frames have to be pre-drilled before fixing on site (hardwood frame heads are factory pre-drilled).  
Frames are not pre-drilled from factory.



# Assembly/Fitting instruction

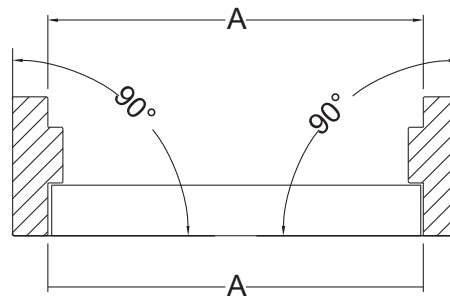
## Frame

The sizes described in the SWEDOOR timber doorset range indicate the size of the structural opening required to receive the doorsets.

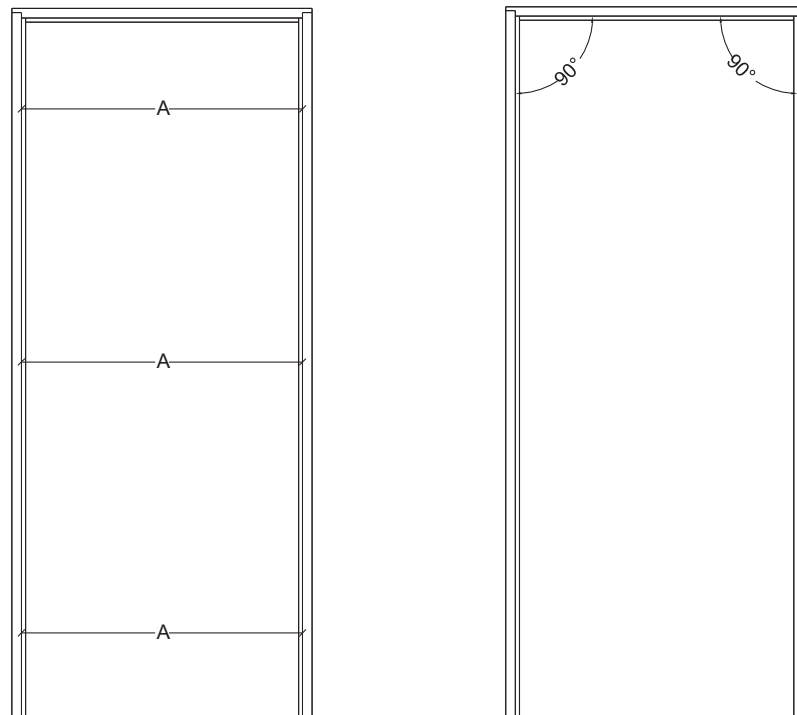
§All prepared openings should be equal in wall thickness at all points and plumb and square with tolerances of +10/-0mm in the width and +5/-0mm in the height.

Frames should be second fixed.

For masonry walls, a template should be made to the exact opening dimensions or a timber sub-frame installed to the correct opening dimensions, square and plumb.



6:7



# Assembly/Fitting instruction

## Frame

Timber frames must be fixed back to either timber or steel stud partitions, or masonry walls, with fixings per jamb set no greater than 150mm from corners and at centres not exceeding 600mm.

Single frame head members generally to have 1 central fixing. Double frame head members to have 2 fixings. Where fitted in steel stud partitions the edge of the door opening must be filled with timber (we recommend minimum 50mm thickness) to provide stiffness and suitable fixing capacity. Behind each fixing, packers of solid fire resisting material should be applied.

Position frame in opening (if supplied with extension lining this is not required at this stage) and pack off at fixing positions across whole thickness of partition with timber packing pieces to take up site tolerances and to locate frame square and plumb.

Frames are pre-drilled to suit plugs for 10 gauge screws in blockwork and studding.

Insert plugs into blockwork through frame fixing holes and push below surface and blockwork.

Fix frames at each fixing position with wood screw size 100mm x 10 gauge. Do not fully tighten at this stage.

Hang door leaf/leaves, adjust and tighten frame fixings using door leaf/leaves as a template until a perfect hang with correct tolerances is achieved.

Where required position extension lining in frame groove to take up full thickness of partition and with open end flush with partition face all round. Secure with steel pins through door stop into tongue of extension lining. Fix architraves at maximum 300mm centres with 30mm long steel panel pins.

### Junction between door assemblies and surrounding structure

In order to maintain the fire resistance of a fire resisting wall or partition when fitted with a doorset the junction between the two elements should be adequately sealed.

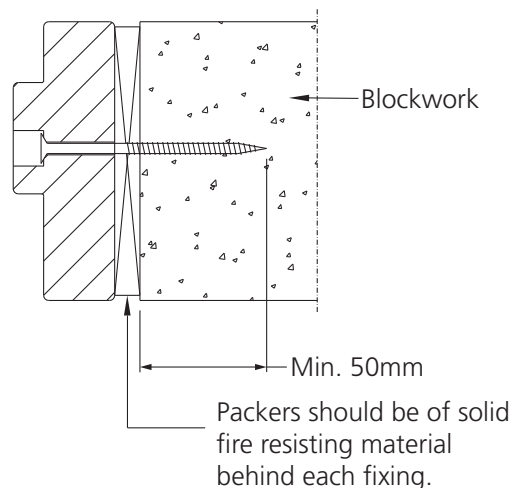
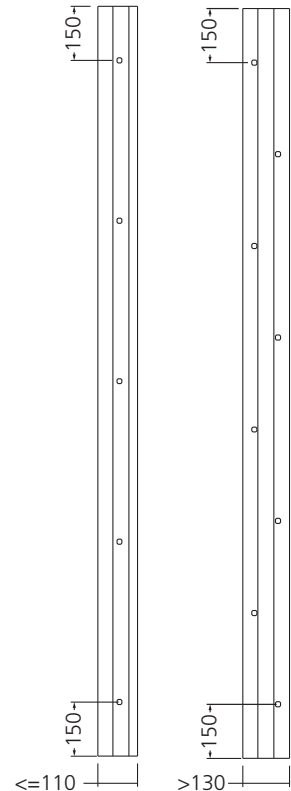
Recommendations are detailed in BS8214:2016 for either

1. intumescent strip factory fitted to the back of the frame
2. mineral wool packed to a depth of at least 10mm or
3. intumescent paste or intumescent mastic.

### Primed products

Before the primed products have the top layer of paint following instructions must be followed:

1. Primed products must be washed with cleaning fluid.
2. Afterwards the work pieces will be sanded to a matt finish with sandpaper P150-P180.
3. Dust from the sanding will be removed.
4. After that the work piece must be painted 1-2 depending on the covering power of the paint.



# Installation instructions

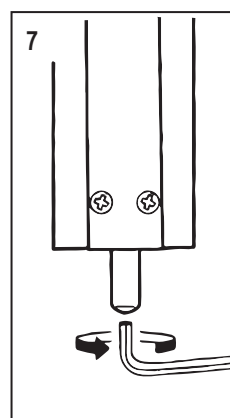
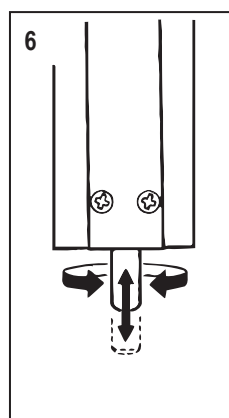
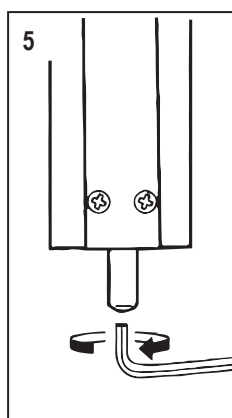
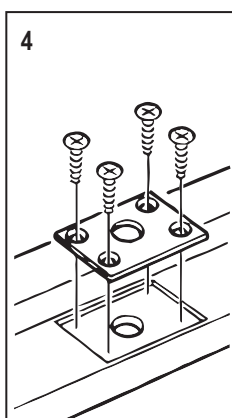
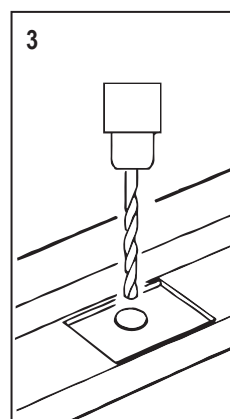
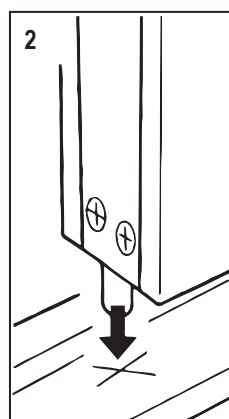
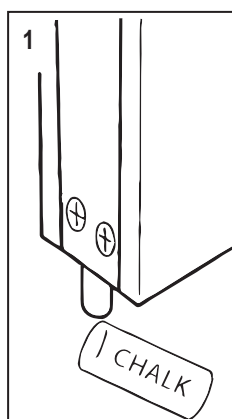
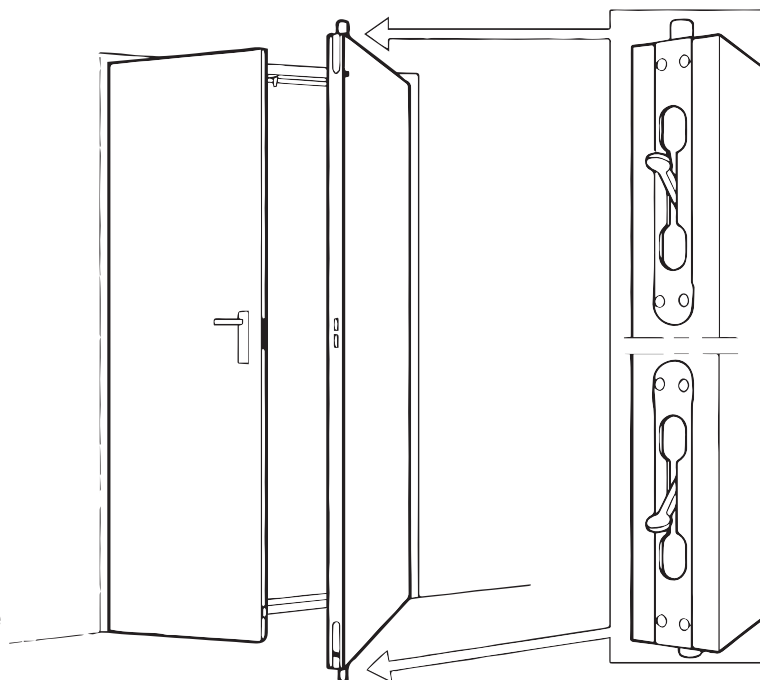
## Manual flush bolts

6:9

1. Mark the activation pin with chalk or similar.
2. Close the door and activate the ends of the bolt.
3. Drill holes for the lock in the frame head and the threshold. Make a depression for the lock plate.
4. Attach the lock plate with screws (lock plate is attached to the door leaf at delivery).

Adjust the lock mechanism as needed

5. Loosen the stop screw.
6. Adjust the bolt length.
7. Tighten the stop screw.



FOR FURTHER INFORMATION  
[WWW.JELD-WEN.CO.UK](http://WWW.JELD-WEN.CO.UK)

Development and improvement of products is an integral part of our business strategy and philosophy at Swedoor. Continuously challenging ourselves and our products is a naturally dynamic process. This further entails that we allow ourselves to carry out improvements to the doors' constructions presented in this brochure.

The doors' true expression is best experienced by viewing actual products as the appearance on print can somewhat deviate regarding the actual precise colours and surfaces.

TECHNICAL SPECIFICATIONS  
2024