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Garage doors
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5 ............R30
6 ............R40 - SM
7 ............R40 - UM
8 ............R40 - TM
9 ............TL LHR - FM
10 ..........TL LHR - RM
11 ..........TL STD
12 ..........Additional options to reduce required headroom and increase daylight opening
13 ..........TL LHR - FM PR
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15 ..........TL STD PR
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17 ..........SSD

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TRACKS
R30

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>h</strong> (headroom)</td>
<td>110 mm (manual)</td>
</tr>
<tr>
<td></td>
<td>150 mm (with el. operator)</td>
</tr>
<tr>
<td><strong>SL / SR</strong> (sideroom)</td>
<td>80 mm</td>
</tr>
<tr>
<td><strong>Daylight opening</strong></td>
<td>H - 30 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>H</strong></th>
<th><strong>D</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 2070</td>
<td>2680</td>
</tr>
<tr>
<td>2071 - 2125</td>
<td>2880</td>
</tr>
</tbody>
</table>

Opening = H - 30

H = 547

H = 420

H = 60

H = 162

H = 54

H = 110

E ≤ 360 mm

E > 360 mm
R40 - SM

<table>
<thead>
<tr>
<th>h (headroom)</th>
<th>110 mm (manual)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>150 mm (with el. operator)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SL / SR (sideroom)</th>
<th>150 mm</th>
</tr>
</thead>
</table>

Daylight opening: H - 30 mm

See page 12 for options to reduce required headroom and increase daylight opening.

<table>
<thead>
<tr>
<th>H</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 2070</td>
<td>2720</td>
</tr>
<tr>
<td>2071 - 2270</td>
<td>2920</td>
</tr>
<tr>
<td>2271 - 2400</td>
<td>3047</td>
</tr>
<tr>
<td>2401 - 2500</td>
<td>3300</td>
</tr>
</tbody>
</table>

E ≤ 360 mm
E > 360 mm
R40 - UM

| h (headroom) | 110 mm (manual) | 150 mm (with el. operator) |
| SL / SR (sideroom) | 80 mm |
| Daylight opening | H - 30 mm |

See page 12 for options to reduce required headroom and increase daylight opening.

<table>
<thead>
<tr>
<th>H</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 2070</td>
<td>2680</td>
</tr>
<tr>
<td>2071 - 2270</td>
<td>2880</td>
</tr>
<tr>
<td>2271 - 2400</td>
<td>3007</td>
</tr>
<tr>
<td>2401 - 2500</td>
<td>3260</td>
</tr>
</tbody>
</table>
R40 - TM

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>h</strong> (headroom)</td>
<td>180 mm (with el. operator or manual)</td>
</tr>
<tr>
<td><strong>SL / SR</strong> (sideroom)</td>
<td>80 mm</td>
</tr>
<tr>
<td><strong>Daylight opening</strong></td>
<td>H - 30 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>H</strong></th>
<th><strong>D</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 2125</td>
<td>2880</td>
</tr>
<tr>
<td>2126 - 2250</td>
<td>3007</td>
</tr>
<tr>
<td>2251 - 2500</td>
<td>3260</td>
</tr>
</tbody>
</table>

Opening = H - 30
H - 547
H - 420
**TL LHR - FM**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>h (headroom)</td>
<td>180 mm (with el. operator and manual)</td>
</tr>
<tr>
<td>SL / SR (sideroom)</td>
<td>100 mm</td>
</tr>
<tr>
<td>Daylight opening</td>
<td>H - 130 mm (manual)</td>
</tr>
<tr>
<td></td>
<td>H - 10 mm (with el. operator)</td>
</tr>
<tr>
<td></td>
<td>H - 50, W ≥ 4500 (with el. operator)</td>
</tr>
<tr>
<td>D (fitting depth)</td>
<td>H + 550 mm</td>
</tr>
</tbody>
</table>

**Number of required suspensions**

<table>
<thead>
<tr>
<th>Width (W)</th>
<th>Number of Suspensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>W ≤ 3000</td>
<td>1 suspension per side</td>
</tr>
<tr>
<td>W &gt; 3000</td>
<td>2 suspensions per side</td>
</tr>
</tbody>
</table>

W > 5000 mm regarding the quantity of springs consult the manufacturer.
TL LHR - RM

| h (headroom) | 120 mm (manual) |
|             | 160 mm (with el. operator) |
| SL / SR (sideroom) | 100 mm |
| Daylight opening | H - 160 mm (manual) |
|                  | H - 20 mm (with el. operator) |
|                  | H - 60, W ≥ 4500 (with el. operator) |
| D (fitting depth) | H + 700 mm |
|                  | H + 1100 mm with Sommer operator |

**Number of required suspensions**

| W ≤ 3000 | 1 suspension per side |
| W > 3000 | 2 suspensions per side |

See page 12 for options to reduce required headroom and increase daylight opening.
### TL STD

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>h</strong> (headroom)</td>
<td>340 mm (manual)</td>
<td>370 mm (with el. operator)</td>
</tr>
<tr>
<td><strong>SL / SR</strong> (sideroom)</td>
<td>100 mm</td>
<td></td>
</tr>
<tr>
<td><strong>Daylight opening</strong></td>
<td>H</td>
<td></td>
</tr>
<tr>
<td><strong>D</strong> (fitting depth)</td>
<td>H + 510 mm</td>
<td></td>
</tr>
</tbody>
</table>

#### Number of required suspensions

| W ≤ 3000 | 1 suspension per side |
| W > 3000 | 2 suspensions per side |

---

*W > 5000 mm regarding the quantity of springs consult the manufacturer*
### Min headroom (mm)

<table>
<thead>
<tr>
<th>Equipment</th>
<th>R40 SM</th>
<th>R40 UM</th>
<th>R40 TM</th>
<th>LHR-RM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standart top brackets and top weather seal on panel</td>
<td>110</td>
<td>150</td>
<td>110</td>
<td>150</td>
</tr>
<tr>
<td>Standart top brackets and top weather seal on lintel</td>
<td>90</td>
<td>130</td>
<td>90</td>
<td>130</td>
</tr>
<tr>
<td>Top weather seal on lintel + LHR top brackets (18023) + with side brackets (18010)</td>
<td>70</td>
<td>110</td>
<td>not available</td>
<td>not available</td>
</tr>
</tbody>
</table>

| Universal lock 22008 | 95 | 95 | 180 | 105 |
| Knob lock 22009 | 100 | 100 | 180 | 110 |
| With pass door | not available | not available | not available | 105 |

### Max daylight opening (mm)

<table>
<thead>
<tr>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>R40 SM</td>
</tr>
<tr>
<td>H-40 (W &gt; 4500)</td>
</tr>
</tbody>
</table>

For full daylight opening use extended vertical tracks +30 mm (R40 UM/SM/TM), +20 mm LHR-RM (W<=4500)

You need more headroom (+30 mm or +20 mm) then required min headroom

### Fitting depth (mm)

<table>
<thead>
<tr>
<th>Opening H, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>≤ 2070</td>
</tr>
<tr>
<td>2071-2450</td>
</tr>
<tr>
<td>2451-2500</td>
</tr>
<tr>
<td>2501-3000</td>
</tr>
</tbody>
</table>

### Min sideroom (mm)

<table>
<thead>
<tr>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>R40 SM</td>
</tr>
<tr>
<td>150</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td><strong>h</strong> (headroom)</td>
</tr>
<tr>
<td><strong>SL / SR</strong> (sideroom)</td>
</tr>
<tr>
<td><strong>Daylight opening</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>D</strong> (fitting depth)</td>
</tr>
</tbody>
</table>

### Number of required suspensions

<table>
<thead>
<tr>
<th>W ≤ 3000</th>
<th>1 suspension per side</th>
</tr>
</thead>
<tbody>
<tr>
<td>W &gt; 3000</td>
<td>2 suspensions per side</td>
</tr>
</tbody>
</table>

Regarding quantity of springs consult manufacturer
TL LHR - RM PR

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>h (headroom)</td>
<td>120 mm (manual) $\alpha \leq 15^\circ$</td>
<td>160 mm (with el. operator) $\alpha \leq 15^\circ$</td>
</tr>
<tr>
<td></td>
<td>*for bigger angle consult manufacturer</td>
<td></td>
</tr>
<tr>
<td>SL / SR (sideroom)</td>
<td>100 mm</td>
<td></td>
</tr>
<tr>
<td>Daylight opening</td>
<td>H - 160 mm (manual)</td>
<td>H - 20 mm (with el. operator)</td>
</tr>
<tr>
<td></td>
<td>H - 60, $W \geq 4500$ (with el. operator)</td>
<td></td>
</tr>
<tr>
<td>D (fitting depth)</td>
<td>H + 700 mm</td>
<td>H + 1100 mm (with sommer operator)</td>
</tr>
</tbody>
</table>

**Number of required suspensions**

| $W \leq 3000$ | 1 suspension per side                             |
| $W > 3000$    | 2 suspensions per side                            |

Regarding quantity of springs consult manufacturer.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headroom (h)</td>
<td>Go to page 16</td>
</tr>
<tr>
<td>Sideroom (SL / SR)</td>
<td>100 mm</td>
</tr>
<tr>
<td>Daylight opening</td>
<td>H</td>
</tr>
<tr>
<td>Fitting depth (D)</td>
<td>H + 510 mm</td>
</tr>
</tbody>
</table>

**Number of required suspensions**

- **W ≤ 3000**: 1 suspension per side
- **W > 3000**: 2 suspensions per side

⚠️ **Regarding quantity of springs consult manufacturer**
## Door size, pitch angle and required headroom correlation

### Required headroom for doors with woodgrain / stucco panels

<table>
<thead>
<tr>
<th></th>
<th>α ≤ 10°</th>
<th>10° &lt; α ≤ 15°</th>
<th>15° &lt; α ≤ 20°</th>
<th>20° &lt; α ≤ 25°</th>
<th>25° &lt; α ≤ 30°</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STD</td>
<td>LHR-FM</td>
<td>STD</td>
<td>LHR-FM</td>
<td>STD</td>
</tr>
<tr>
<td>H ≤ 2000</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>340</td>
</tr>
<tr>
<td>H ≤ 2250</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2500</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2750</td>
<td>340</td>
<td>180</td>
<td>370</td>
<td>270</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 3000</td>
<td>370</td>
<td>270</td>
<td>370</td>
<td>270</td>
<td>430</td>
</tr>
</tbody>
</table>

### Required headroom for doors with woodgrain / stucco panels and wicket door

<table>
<thead>
<tr>
<th></th>
<th>α ≤ 10°</th>
<th>10° &lt; α ≤ 15°</th>
<th>15° &lt; α ≤ 20°</th>
<th>20° &lt; α ≤ 25°</th>
<th>25° &lt; α ≤ 30°</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STD</td>
<td>LHR-FM</td>
<td>STD</td>
<td>LHR-FM</td>
<td>STD</td>
</tr>
<tr>
<td>H ≤ 2000</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2250</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2500</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2750</td>
<td>340</td>
<td>180</td>
<td>370</td>
<td>270</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 3000</td>
<td>370</td>
<td>270</td>
<td>370</td>
<td>270</td>
<td>430</td>
</tr>
</tbody>
</table>

### Required headroom for doors with smooth (SLICK type) panels

<table>
<thead>
<tr>
<th></th>
<th>α ≤ 10°</th>
<th>10° &lt; α ≤ 15°</th>
<th>15° &lt; α ≤ 20°</th>
<th>20° &lt; α ≤ 25°</th>
<th>25° &lt; α ≤ 30°</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STD</td>
<td>LHR-FM</td>
<td>STD</td>
<td>LHR-FM</td>
<td>STD</td>
</tr>
<tr>
<td>H ≤ 2000</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2250</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2500</td>
<td>340</td>
<td>180</td>
<td>370</td>
<td>270</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2750</td>
<td>370</td>
<td>270</td>
<td>370</td>
<td>270</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 3000</td>
<td>370</td>
<td>270</td>
<td>370</td>
<td>270</td>
<td>435</td>
</tr>
</tbody>
</table>

### Required headroom for doors with smooth (SLICK type) panels and wicket door

<table>
<thead>
<tr>
<th></th>
<th>α ≤ 10°</th>
<th>10° &lt; α ≤ 15°</th>
<th>15° &lt; α ≤ 20°</th>
<th>20° &lt; α ≤ 25°</th>
<th>25° &lt; α ≤ 30°</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STD</td>
<td>LHR-FM</td>
<td>STD</td>
<td>LHR-FM</td>
<td>STD</td>
</tr>
<tr>
<td>H ≤ 2000</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2250</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2500</td>
<td>340</td>
<td>180</td>
<td>340</td>
<td>180</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 2750</td>
<td>370</td>
<td>270</td>
<td>370</td>
<td>270</td>
<td>370</td>
</tr>
<tr>
<td>H ≤ 3000</td>
<td>370</td>
<td>270</td>
<td>370</td>
<td>270</td>
<td>435</td>
</tr>
</tbody>
</table>
**STANDARD SIDEROOM**

- **min 120 mm**
- **min 70 mm**
- **> 500 mm**

**SMALL SIDEROOM**

<table>
<thead>
<tr>
<th>SIDEROOM</th>
<th>RADIUS</th>
<th>ARM</th>
<th>D</th>
<th>Operator fitting place***</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 - 200</td>
<td>R520</td>
<td>R520 + ARM L = 1000</td>
<td>W + 1250</td>
<td>side wall only</td>
</tr>
<tr>
<td>201 - 300</td>
<td>R520</td>
<td>R520 + ARM L = 600</td>
<td>W + 800</td>
<td>side wall</td>
</tr>
<tr>
<td>301 - 500</td>
<td>R520</td>
<td>R520 + ARM L = 400</td>
<td>W + 600</td>
<td>side wall</td>
</tr>
<tr>
<td>&gt; 500</td>
<td>R420</td>
<td>-</td>
<td>W + 100</td>
<td>lintel</td>
</tr>
</tbody>
</table>

***Operator movement range must be longer than W, if standard rail is too short use additional rail extensions***

**SINGLE DOOR**

- **H = max 3000 mm, W = max 6000 mm**

**ANGLE RANGES**

- **α = min 85° , max 180°**
PANELS
## PANEL TYPES

<table>
<thead>
<tr>
<th>Panel type</th>
<th>S (mm)</th>
<th>K cal/m³ K</th>
<th>Λ cal/m² K</th>
<th>Panel weight Kg/m</th>
<th>Kg/m²</th>
<th>Tolerances</th>
<th>U value m² K</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-500</td>
<td>40</td>
<td>0,43</td>
<td>0,50</td>
<td>5,6</td>
<td>11,2</td>
<td>+/- 2</td>
<td>0,52</td>
</tr>
<tr>
<td>R-610</td>
<td>6,8</td>
<td>11,2</td>
<td>11,2</td>
<td>6,8</td>
<td>11,2</td>
<td>+/- 1</td>
<td></td>
</tr>
</tbody>
</table>

### Section types

<table>
<thead>
<tr>
<th>Section type</th>
<th>U value (W/m²K)</th>
<th>Wind class</th>
<th>Water penetration class</th>
<th>Air premability class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandwich</td>
<td>1 - 1,6</td>
<td>5</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>

All panels Internal side - ribbed, stucco embossed RAL 9002

### RIB

- **500**: Gasket 105, 100, 100, 100, 95
- **610**: Gasket 103,65, 100, 100, 100, 100

**Panel Surfaces**
- woodgrain

**Panel Colours**
- stucco

**Standard Colours**
- painted RAL 9016, RAL 8017.
PANEL TYPES

MIDRIB

Panel Surfaces
- Woodgrain
- Stucco
- Smooth

Panel Colours
- Painted RAL
  - (only smooth surface)

Standard Colours
- RAL 9016 (stucco, woodgrain),
- RAL 8017 (woodgrain),
- RAL 6009 (woodgrain),
- RAL 7016 (woodgrain),
- Golden Oak (smooth),
- Old Oak (smooth),
- Light Oak (smooth),
- Mahogany (smooth),
- Dark Oak (smooth).

TOPRIB

Panel Surfaces
- Smooth

Panel Colours
- Painted RAL

Standard Colours
- RAL 9016, RAL 7016.
PANEL TYPES

MICRORIB

PANEL SURFACES

- smooth

PANEL COLOURS

- painted RAL
- RAL PEARL (single sided)
- RAL 9016

STANDARD COLOURS

- RAL 9007
- RAL 9016
- RAL 7016

MACRORIB

PANEL SURFACES

- stucco

PANEL COLOURS

- painted RAL

STANDARD COLOURS

- RAL 9007
- RAL 9016
- RAL 7016
PANEL TYPES

FLUSH

<table>
<thead>
<tr>
<th>PANEL SURFACES</th>
<th>PANEL COLOURS</th>
<th>STANDARD COLOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>woodgrain</td>
<td>painted RAL</td>
<td>RAL 9016.</td>
</tr>
<tr>
<td>stucco</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SLICK

<table>
<thead>
<tr>
<th>PANEL SURFACES</th>
<th>PANEL COLOURS</th>
<th>STANDARD COLOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>smooth</td>
<td>painted RAL</td>
<td>RAL 9016, RAL 9006, RAL 7016, RAL 9004.</td>
</tr>
</tbody>
</table>

SLICK PLUS

<table>
<thead>
<tr>
<th>STANDARD COLOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Steel, Copper, Anthracite DB 703.</td>
</tr>
</tbody>
</table>
PANEL TYPES

CASSETTE

PANEL SURFACES

WOOD IMAGES

PANEL COLOURS

STANDARD COLOURS

RAL 9016, GOLDEN OAK (woodgrain).

woodgrain

paint RAL

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# Reinforcement profiles on sandwich panels

## Table of Reinforcement Profiles

<table>
<thead>
<tr>
<th>Opening width, W</th>
<th>Profile type</th>
<th>Example No.</th>
<th>Main location on panel</th>
<th>Quantity of reinforcements</th>
</tr>
</thead>
<tbody>
<tr>
<td>W≤4500</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4500&lt;W≤5000</td>
<td>Bottom reinforced + omega</td>
<td>1-A</td>
<td>Top of panel (for omega)</td>
<td>1 + 1 = 2</td>
</tr>
<tr>
<td></td>
<td>Omega</td>
<td>1-B</td>
<td>Top of panel</td>
<td>2</td>
</tr>
<tr>
<td>5000&lt;W≤5500</td>
<td>Omega</td>
<td>2</td>
<td>Top partition of panel</td>
<td>on every second doorpanel</td>
</tr>
<tr>
<td>5500&lt;W≤6000</td>
<td>Omega</td>
<td>3</td>
<td>Top of panel</td>
<td>on every second doorpanel +1 on top</td>
</tr>
</tbody>
</table>

## Diagram of Reinforcement Profiles

![Diagram of Reinforcement Profiles](image)

---

**Profile fixing points**

- Step max 500
- 100
- 10
- 100
- 100
- 10
- 100

---

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ALU-framed PANEL TYPES

Double insulated Acrylic (Clear / Matt / “Frosted”) glazing
- max 1200 mm
- max 6000 mm
*consult factory for oversized panels.

Single / Double glazing (safety glass)
- max 1500 mm
- max 4000 mm
* consult factory for door size limitation.

Policarbonate glazing
- max 6000 mm
* with double Acrylic & transparent spacers.

Continuous glazing
- max 3150 mm
* acrylic double glazing

- max 3150 mm
* single glazing safety glass

“Cross” decoration
*custom Retro design upon request.

**Retro Z**

![Retro Z design](image)

**Retro X**

![Retro X design](image)

**Retro H**

![Retro H design](image)

**Retro Z - FV**

![Retro Z - FV design](image)

**Retro X - FV**

![Retro X - FV design](image)

**Retro H - FV**

![Retro H - FV design](image)
DECOR APPLIQUÉS
STAINLESS METAL APPLIQUÉS OPTIONS

Brushed

RAL painted

Appliques combined with windows

RAL painted appliques & windows

Individual design decorations available on request

For more information refer to Ryterna DESIGN catalogue
PVC WINDOWS

STAINLESS STEEL WINDOWS
PVC WINDOWS  Scratch-proof double glazing

Standard acrylic double glazing windows (standard frame - white/black)

“Cross” acrylic double glazing windows (standard frame - white)

“Sunrise” acrylic double glazing windows (standard frame - white)

Acrylic double glazing windows location
Stainless steel windows

**Round stainless steel windows (single glazing safety glass)**

- Painted RAL colours

**Square stainless steel windows (double glazing safety glass)**

- Painted RAL colours

**Rectangular stainless steel windows (double glazing safety glass)**

- Painted RAL colours

**Stainless steel windows location**

**Type of glass**

- Clear
- Matt
- "Frosted"
- Tinted

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WICKET DOOR
WICKET DOOR

Wicket door critical dimensions

Wicket door with standard threshold

Wicket door with low threshold

Handle options

- white handle - on white doors
- aluminium handle - on silver doors and by request
- black handle - on wood image and painted doors

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WICKET DOOR

**Standard threshold**

- W > 5000 - on request

**Low threshold**

- W < 3500
- 3500 ≤ W < 4500
- W > 5001 - on request
WICKET DOOR

External view

Handle side (L/R) maybe chosen when the wicket door is in the middle
WICKET DOOR

CASSETTE panels

Opening height ≥ 2040 mm
(consult factory for window limitations)

Consult manufacturer for threshold options
SIDE-HINGED DOORS
SIDE DOOR (SH1)

max 2000 mm
max 1300 mm
max 2250 mm
max 1300 mm
SIDE DOOR (SH1)

Side doors fitting and opening options

1. [Diagram]
2. [Diagram]
3. [Diagram]
4. [Diagram]
5. [Diagram]
6. [Diagram]
7. [Diagram]
8. [Diagram]
9. [Diagram]
10. [Diagram]
11. [Diagram]
12. [Diagram]
13. [Diagram]
14. [Diagram]

Frame dimensions

Tolerance of 10 mm in width and height will be deducted from structural opening sizes given.
SIDE DOOR (SH1)

Side doors threshold types

- **S1**: Inside or outside opening, 36 mm, 20 mm, 80 mm
- **S2**: Inside opening, 44 mm, 10 mm
- **S3**: Inside or outside opening, 30 / 40 mm, 40 / 60 mm
- **S4**: Inside or outside opening, 3 mm, 80 mm
- **S5**: Inside or outside opening, 15 mm, 15 mm, 15 mm, 21 mm, 40 mm

*Only with anti-panic lock with bar

Consult factory for this option

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DOUBLE HINGED DOOR (SH2)

Two leaf doors are recommended when the opening is wider than 1300 mm.

Double side door critical dimensions

Frame dimensions

Tolerance of 10 mm in width and height will be deducted from structural opening sizes given.

Handle options

white handle - on white doors
aluminium handle - on silver doors and by request
black handle - on wood image and painted doors
DOUBLE HINGED DOOR (SH2)

SH2 opening and handling options

1. inside
   outside

2. inside
   outside

3. inside
   outside

4. inside
   outside

5. inside
   outside

6. inside
   outside

STANDARD

inside

outside

outside opening

S5

Consult factory for this option

S1

Consult factory for this option

S4

inside or outside

inside or outside opening

Locking options and door stays

Espagnolette lock (optional)

DOOR stays (pr) (optional)

Locking of the fixed door leaf Top / bottom