SlimLine 38 is a highly insulated system inward and outward opening windows and doors, which combines elegance and comfort, with a unique design. This special slender steel look is the perfect solution for modern architecture and renovation of steel-framed windows, respecting the original design but offering a thermally improved solution.

The SL 38 system is available in 3 different minimalistic design variants, Classic, Ferro and Cubic, to perfectly match the architectural aspect of the building. The windows and doors can be provided with double and triple glazing without losing the ultra-slim look.

In combination with its superior insulation capabilities, the system provides the perfect harmony between durable material, clean design and demanding architectural challenges.
### TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Design variants</th>
<th>CLASSIC</th>
<th>CUBIC</th>
<th>FERRO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. visible width inward opening window</td>
<td>Frame 33.5 mm</td>
<td>33.5 mm</td>
<td>33.5 mm</td>
</tr>
<tr>
<td>Vent 23 mm</td>
<td>22 mm</td>
<td>21.5 mm</td>
<td></td>
</tr>
<tr>
<td>Min. visible width outward opening window</td>
<td>Frame 29 mm</td>
<td>-</td>
<td>18.5 mm</td>
</tr>
<tr>
<td>Vent 60.5 mm</td>
<td>-</td>
<td>60.5 mm</td>
<td></td>
</tr>
<tr>
<td>Min. visible width inward opening window-door</td>
<td>Frame 33.5 mm</td>
<td>33.5 mm</td>
<td>59.5 mm</td>
</tr>
<tr>
<td>Vent 52.5 mm</td>
<td>52.5 mm</td>
<td>52.5 mm</td>
<td></td>
</tr>
<tr>
<td>Min. visible width outward opening window-door</td>
<td>Frame 29 mm</td>
<td>-</td>
<td>18.5 mm</td>
</tr>
<tr>
<td>Vent 82 mm</td>
<td>-</td>
<td>82 mm</td>
<td></td>
</tr>
<tr>
<td>Min. visible width T-profile</td>
<td>48 mm</td>
<td>48 mm</td>
<td>48 mm</td>
</tr>
<tr>
<td>Overall system depth window</td>
<td>Frame 99 mm</td>
<td>76 mm</td>
<td>76 mm</td>
</tr>
<tr>
<td>Vent 86 mm</td>
<td>75 mm</td>
<td>72 mm</td>
<td></td>
</tr>
<tr>
<td>Rebate height</td>
<td>13.5 mm</td>
<td>13.5 mm</td>
<td>13.5 mm</td>
</tr>
<tr>
<td>Glass thickness</td>
<td>up to 55 mm</td>
<td>up to 55 mm</td>
<td>up to 55 mm</td>
</tr>
<tr>
<td>Glazing method</td>
<td>dry glazing with EPDM or neutral silicones</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thermal insulation</td>
<td>omega-shaped fibreglass reinforced polyamide strips (frame 40 mm - vent 32 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Insulation variant (HI)</td>
<td>available</td>
<td>available</td>
<td>available</td>
</tr>
</tbody>
</table>

### PERFORMANCES

#### ENERGY

- **Thermal Insulation**: EN ISO 10077-2
  - **Uf-value** down to 1.7 W/m²K depending on the frame/vent combination and the glass thickness.
  - **Uw** of less than 1.4 W/m²K for a standard window section

#### COMFORT

- **Acoustic performance**: EN ISO 140-3; EN ISO 717
  - **Rw** = 38 (-1; -4) dB / 45 (-1; -5) dB, depending on glazing type

- **Air tightness, max. test pressure**: EN 1026; EN 12207
  - **1** (50 Pa)  
  - **2** (200 Pa)  
  - **3** (600 Pa)  
  - **4** (600 Pa)

- **Water tightness**: EN 1027; EN 12208
  - **1A** (0 Pa)  
  - **2A** (50 Pa)  
  - **3A** (100 Pa)  
  - **4A** (150 Pa)  
  - **5A** (200 Pa)  
  - **6A** (250 Pa)  
  - **7A** (300 Pa)  
  - **8A** (450 Pa)  
  - **9A** (600 Pa)  
  - **E** (1200 Pa)

- **Wind load resistance, max. test pressure**: EN 12211; EN 12210
  - **1** (400 Pa)  
  - **2** (800 Pa)  
  - **3** (1600 Pa)  
  - **4** (1600 Pa)  
  - **5** (2000 Pa)  
  - **Exxx** (> 2000 Pa)

- **Wind load resistance to frame deflection**: EN 12211; EN 12210
  - **A** (≤ 1/150)  
  - **B** (≤ 1/200)  
  - **C** (≤ 1/300)

#### SAFETY

- **Burglar resistance**: EN 1628-EN 1630; EN 1627
  - **RC1**  
  - **RC2**  
  - **RC3**

- **Fire resistance**: NEN 6069
  - **EN 30**

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This table shows possible classes and values of performances. The values indicated in red are the ones relevant to this system.

1. The **Uf-value** measures the heat flow. The lower the **Uf-value**, the better the thermal insulation of the frame.
2. Window dimension of 1.23m x 1.48m, with glass of 1.1 W/m²K.
3. The sound reduction index (**Rw**) measures the capacity of the sound reduction performance of the frame.
4. The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.
5. The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.
6. The wind load resistance is a measure of the profile’s structural strength and is tested by applying increasing levels of air pressure to simulate the wind force. There are up to five levels of wind resistance (1 to 5) and three deflection classes (A,B,C). The higher the number, the better the performance.
7. The burglar resistance is tested by static and dynamic loads, as well as by simulated attempts to break in using specified tools. This variant requires specific burglar resistance accessories.
8. Fire resistance class EW 30: Integrity and radiation insulation of the element is guaranteed for the duration of 30 minutes.