MasterLine 8 is a unique windows and doors system that combines countless design possibilities with high in-class performance and production speed.

This system gives you a wide design range, to perfectly fit any architectural style, while at the same time offering the ultimate performance regarding thermal insulation and air- and water tightness, with a limited system depth of 77 mm.

This new generation of innovative window and door solutions mirrors the current architectural trend towards maximizing daylight while offering ultimate insulation levels. MasterLine 8 panels doors even come with passive house certification.

MasterLine 8 windows feature 3 different levels of insulation, offering solutions for high insulated, low energy and even passive houses. These different levels of insulation are achieved by the integration of new and clever materials. For the High Insulating Plus (HI+) variant, innovative insulation bars are incorporated, which use a low-emission foil and thus improve the insulation value by reflecting and retaining heat.

(*): for frame vent section of 119mm

STANDARD

HI

HI+

PASSIVE DOOR

CERTIFIED

COMPONENT

Passive House Institute

cool, temperate climate

PIVOT DOOR

MasterLine 8 doors are available in 2 levels of insulation for balcony, flush and pivot doors. For projects where extreme insulation is required, our MasterLine 8 range offers a panel door with excellent insulation values, that was awarded passive house certification by the renowned Passive House Institute.

MasterLine 8 doors offer a wide range of highly insulated and reduced flush doors, which meet the modern requirements, with regard to safety, for high-rise and especially hotels. This makes full use of the potential of front doors with large dimensions and weights up to 250 kg. MasterLine 8 doors are available as flush and outward opening glass or panel doors and pivot doors are possible. All doors can be fitted with a wide range of locks and hinges.

MasterLine 8 windows and doors ensure your safety as they comply to burglar resistance classes R2 or R3. Reynaers Aluminium offers a wide range of compatible handles, locks and hinges to ensure your safety and comfort. To further enhance safety, MasterLine 8 is compatible with RB Glass: the add-on glass balustrade for larger window areas in high rise buildings. RB Glass can be used as a primary or secondary glass and can be installed in various positions and sizes without restriction and can be painted to match the color of the profiles.

ENERGY EFFICIENCY

Uf = 1.9 W/m²K

(*)

Uf = 1.5 W/m²K

(*)

Uf = 1.2 W/m²K

(*)

Uf = 2.2 W/m²K

Uf = 1.4 W/m²K

Uf = 0.87 W/m²K

TECHNICAL CHARACTERISTICS

WINNERS

DOORS

Frames

Frames

Frames

Frames

Frame

VENTILATION VENT

MasterLine 8 ventilation vents are available on 2 different levels of insulation for high insulated, low energy and even passive houses. These ventilation vents exist in 2 widths for optimal fresh air access: 185mm and 250mm. The vents are optimised for easy installation and aesthetics as the end pieces are adjustable for optimal fit and paintable to match the color of the profiles.

SAFETY

MasterLine 8 windows and doors ensure your safety as they comply to burglar resistance classes R2 or R3. Reynaers Aluminium offers a wide range of compatible handles, locks and hinges to ensure your safety and comfort. To further enhance safety, MasterLine 8 is compatible with RB Glass: the add-on glass balustrade for larger window areas in high rise buildings. Even without balconies, RB Glass ensures you can safely open your windows and enjoy an unobstructed view. MasterLine 8 also offers single or double panel doors and Anti-Fingertrap doors.

ENERGY EFFICIENCY

AIR- WIND- WATER TIGHTNESS

MasterLine 8 windows and doors offer the highest tightness of RG0, reduced air loss at 600Pa air pressure, and excellent sealing properties. These ultimate performances are achieved by the overall concept and the increased overlap of the central gasket in the windows, offering a guaranteed performance.

VENTILATION VENT

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The unique MasterLine 8 concept offers up to 4 design variants, each with their own distinct look and feel, which make MasterLine 8 suitable for any architectural style. Needless to say, MasterLine 8 can easily be integrated with other Reynaers Aluminium systems, such as CP 95 and CP 95-S sliding systems, the HR glass balustrade, the Mosaic system, and curtain wall system CW 50.

The unique concept makes it possible to combine an extensive range of window opening types, design variants, and different levels of thermal insulation.

### Functional
- **Functional variant** is more true to frame/vant combination and glass thickness.
- It is suitable for both contemporary buildings and heritage windows. The sash is recessed to the frame on the exterior side and the detailing is more refined.

### Deco
- **Deco windows** offer a simple, unique design that stands out and gives a contemporary feel. The sash is recessed to the frame on the exterior side and the reveal detailing is more refined.

### Renaissance
- **Renaissance windows** have been redesigned, giving a more true to frame/vant combination and glass thickness.
- The sash is recessed to the frame on the exterior side and the reveal detailing is more refined.

### Hidden Vent
- **Hidden Vent detail** brings a fine palette of contemporary buildings.
- The straightforward design is beautiful in its simplicity, and is suitable for both contemporary buildings and heritage windows. The sash is recessed to the frame on the exterior side and the reveal detailing is more refined.

#### Table: Performance

<table>
<thead>
<tr>
<th>PERFORMANCE</th>
<th>ENERGY</th>
<th>COMFORT</th>
<th>SAFETY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENERGY</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uf-value</td>
<td>-1.4 W/m²K</td>
<td>-1.0 W/m²K</td>
<td>-</td>
</tr>
<tr>
<td>Rw(C;Ctr)</td>
<td>43 (-1;-4) dB</td>
<td>49 (-1;-5) dB</td>
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<tr>
<td>Wind load resistance windows</td>
<td>EN 1027; EN 12208</td>
<td>EN 1027; EN 12208</td>
<td></td>
</tr>
<tr>
<td>Wind load resistance doors</td>
<td>EN 1627 - 1630</td>
<td>EN 1627 - 1630</td>
<td></td>
</tr>
<tr>
<td>Burglar Resistance</td>
<td>EN 12211; EN 12210</td>
<td>EN 12211; EN 12210</td>
<td></td>
</tr>
<tr>
<td>Glass thickness</td>
<td></td>
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</tr>
</tbody>
</table>

#### EN ISO 10077-2
- **Thermal Insulation windows**
- **Water tightness doors**
- **Water tightness windows**
- **Acoustic performance doors**
- **Acoustic performance windows**
- **Thermal Insulation doors**
- **Wind load resistance windows**
- **Wind load resistance doors**
- **Burglar Resistance**

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(1) The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the frame.

(2) The sound reduction index (Rw) measures the capacity of the sound reduction performance of the frame.

(3) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.

(4) The burglar resistance is tested by statistical and dynamic loads, as well as by simulated attempts to break in using specified tools.

(5) 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.

(6) The table shows possible classes and values of performances. The values indicated in orange are the ones relevant to this system.