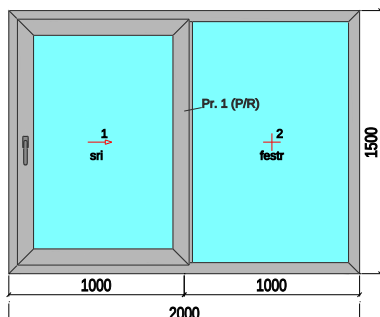


## U-value

Date: 01.11.2024



### Construction with 1 element, 2000 mm x 1500 mm

#### [1] 2-part Single-track sliding window, Two-part, scheme A, sliding sash left

|                 |  |
|-----------------|--|
| Profile system: | smart-slide neo Roto   |
| Colour:         | ap white unlaminated   |
| Gasket:         | papyrus-white  |
| Frame:          | 160091 Zargen 63 mm (Reinforcements: 229101, 229101)   |
| Sash:           | 160x94 Sash 92 mm (Reinforcements: 269294)   |
| Division:       | 160x41 Pfosten 94 mm (Reinforcements: 269041)  |
| Fitting:        | Push right inside (Field 1)<br>Fixed in frame, outside (Field 2)   |
| Handle:         | Window Consisting of:<br>Fenstergriff  |
| Infill panel:   | ClimaGuard® Premium2 (CE) VSG33.1 UG 0.60 EU,<br>150633 Glazing beads Qube-line (Field 1)<br>ClimaGuard® Premium2 (CE) VSG33.1 UG 0.60 EU,<br>150732 Glazing beads Qube-line (Field 2) |

#### Additional attached components:

#### Size dependent calculation

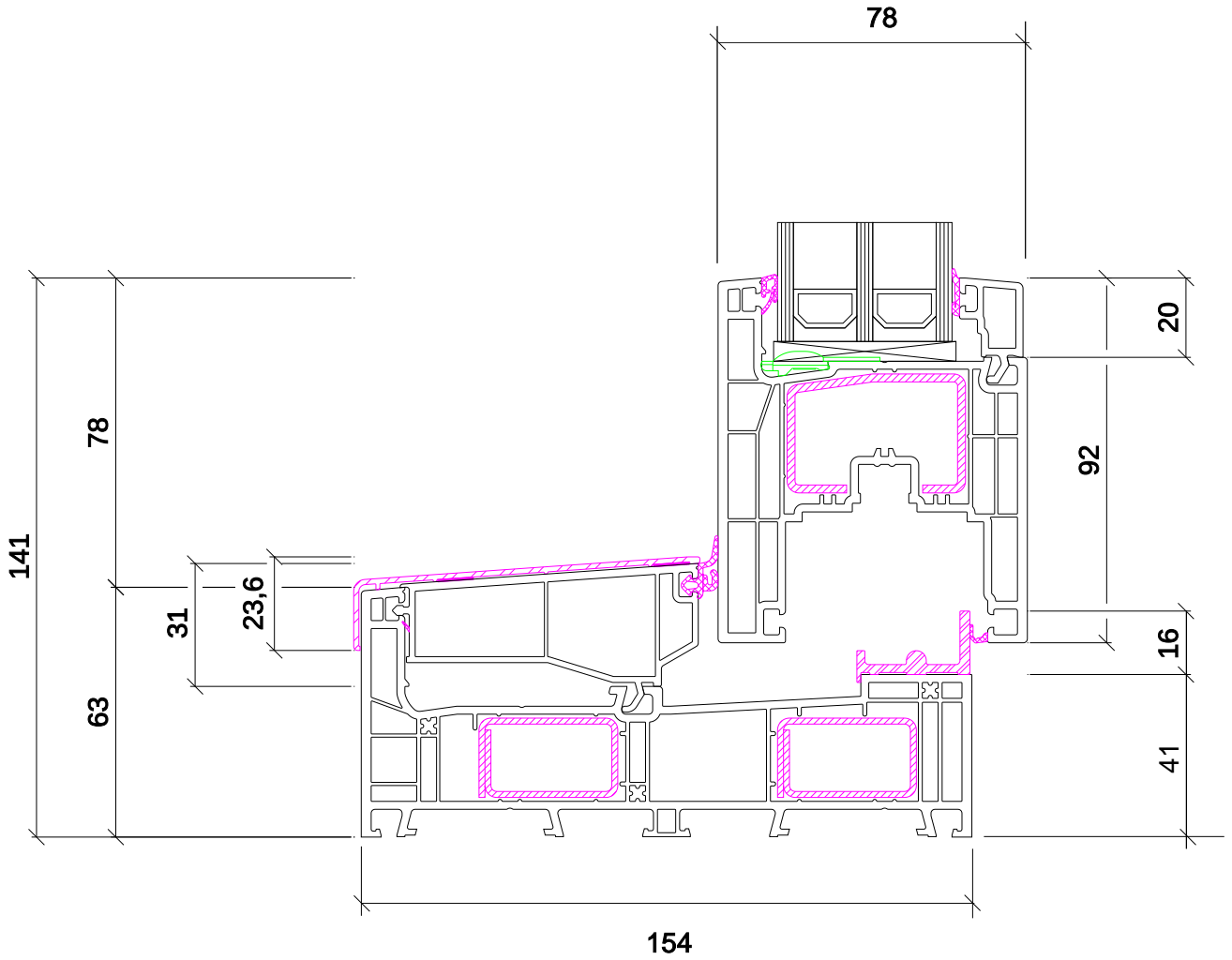
##### [1] Single-track sliding window, Two-part, scheme A, sliding sash left

| U <sub>w</sub>       | U <sub>g,m</sub>     | U <sub>f,m</sub>     | ΣA <sub>f</sub> | ΣA <sub>g</sub> | ΣL <sub>g</sub> | P <sub>sig,m</sub> |
|----------------------|----------------------|----------------------|-----------------|-----------------|-----------------|--------------------|
| W/(m <sup>2</sup> K) | W/(m <sup>2</sup> K) | W/(m <sup>2</sup> K) | m <sup>2</sup>  | m <sup>2</sup>  | m               | W/(mK)             |
| 0.86                 | 0.60                 | 1.3                  | 0.58            | 2.19            | 8.554           | 0.040              |

#### Standard window calculation

##### [1] Sliding element

| U <sub>w</sub>       | U <sub>g,m</sub>     | U <sub>f,m</sub>     | ΣA <sub>f</sub> | ΣA <sub>g</sub> | ΣL <sub>g</sub> | P <sub>sig,m</sub> |
|----------------------|----------------------|----------------------|-----------------|-----------------|-----------------|--------------------|
| W/(m <sup>2</sup> K) | W/(m <sup>2</sup> K) | W/(m <sup>2</sup> K) | m <sup>2</sup>  | m <sup>2</sup>  | m               | W/(mK)             |
| 0.77                 | 0.60                 | 1.4                  | 0.13            | 1.80            | 5.692           | 0.040              |



# Europe

| Make-up Name | Glass 1 & Coating        | Glass 2 & Coating                                     | Visible Light |                            |                      | Solar Energy  |             |                   |   | Thermal Properties | Embodied CO <sub>2</sub>       | Acoustic Values |      |     |
|--------------|--------------------------|---|---------------|----------------------------|----------------------|---------------|-------------|-------------------|---|--------------------|--------------------------------|-----------------|------|-----|
|              |                          |   | Transmittance | Reflectance                |                      | Transmittance | Reflectance | Solar Factor (g%) | Secondary Heat Transfer (q <sub>i</sub> ) | U-Value            | [eq. kg/m <sup>2</sup> ] A1-A3 | RW(C;Ctr)       | OITC | STC |
|              |                          |   |               | Visible (τ <sub>v</sub> %) | ρ <sub>v</sub> % out |               |             |                   |   |                    |                                |                 |      |     |
| Make-up 01   | Guardian ExtraClear (CE) | ClimaGuard® Premium2 (CE) on Guardian ExtraClear (CE) | 72.8          | 15.6                       | 15.6                 | 42.9          | 27.6        | 50.0              | 7.1                                       | 0.6                | 46.97                          | 40(-2;-5)       | 32   | 40  |

Calculation Standard: EN 410:2011 / EN 673:2011

**Total Unit (Nominal):**  
44.762 mm

**Glazing Weight:**  
38.8 kg/m<sup>2</sup>

**Slope: 90°**

Outdoors

Indoors

**Coatings**

- S4 SURFACE 4 COATING ClimaGuard® Premium2 (CE)
- S7 SURFACE 7 COATING ClimaGuard® Premium2 (CE)

### Important Notes

Calculations and terms in this report are based on EN 410:2011/EN 673:2011. The performance values shown above represent nominal values for the center of glass with no spacer system or framing. Solar Factor (g) and Secondary Heat Transfer (q<sub>i</sub>) are not available for sloped glazing, as no calculation method is prescribed by the standard for these attributes.

The KIWA logo and KIWA Validation Report MD - 14/477/GL are provided as evidence of validation of the Guardian Performance Calculator software, program version 4.1, for execution of calculations of luminous and solar characteristics of glazing and thermal transmittance, according to EN 410:2011 and EN 673:2011.