EXLABESA
ARCHITECTURE

Massive. Beautiful.
Efficient.

# ARS-72

## Hinged system with thermal break.

The **ARS-72** is positioned as a premium window designed for projects that prioritise design, natural light, and efficiency, while ensuring an excellent level of technical performance.

With a sash-frame section of 85 mm, the smallest on the market for casement windows, it maximises the glazed area and enhances natural light entry.

Its advanced construction, featuring 34 mm polyamide, a central EPDM gasket, and cellular polystyrene foams, ensures high-level watertightness and thermal insulation, achieving a $U_f$ thermal transmittance of 1.5 W/m²K.

In addition, it incorporates concealed hardware, micro-ventilation, and a frame with concealed drainage, improving both water performance and the overall aesthetic quality.

Designed for production environments, it is fully compatible with the ARS platform, allowing component standardisation, production optimisation, and cost reduction.

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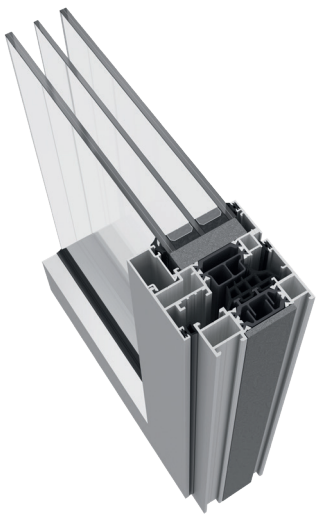
Features

- Euro groove hardware
- Reduced visible section of 85 mm
- Thermal transmittance $U_f$ = 1.5 W/m²K
- Concealed hardware and micro-ventilation option
- Option of concealed frame with drainage
- 34 mm polyamide, EPDM sponge central seal and cellular polystyrene foams
- Safety packer for load optimisation
- Full compatibility with the ARS platform for standardised fabrication



# TECHNICAL FEATURES

### Design

The **ARS-72** features a visible section of 85 mm, maximising the glazed area and allowing glass up to 68 mm thickness, ensuring optimal natural light entry and a contemporary, lightweight aesthetic.

### Features

The system incorporates 34 mm polyamide, a central EPDM gasket, and cellular polystyrene foams, providing thermal insulation and watertightness. The safety packer correctly distributes loads to the hardware, enhancing system durability.

### Benefits

It provides a thermal transmittance $U_f$ of 1.5 W/m²K and $U_w$ values of up to 0.8 W/m²K depending on the configuration, ensuring high energy efficiency. Acoustic insulation reaches up to 43 dB, and it has an AEV rating of Class 4/E2250/C5, guaranteeing reliable performance under demanding conditions.

### Possibilities

The system accommodates solutions such as concealed hardware, micro-ventilation, and a frame with concealed drainage, allowing the window to be adapted to different technical and aesthetic requirements without compromising its functionality.

| | |
|---|---|
| Max. recommended dimensions (LxH)* | 1500x3000 mm/sash<br>1400x2600 mm/sash |
| Maximum recommended weight** | 180 kg/sash |
| Maximum glazing | 68 mm |
| Polyamide | 34 mm |
| Thermal insulation $U_w$*** | Up to 0,8 W/m²K |
| Thermal insulation $U_f$ | 1,5 W/m²K |

Weather test results for a 2-sash window 1230x1480 mm
* For a 1 sash window
** Depending on the dimensions and type of opening
*** For a 1 sash window 1100x2200 mm

Air permeability ▶ Class 4

1 2 3 **4**

Watertightness ▶ Class E2250

1A 2A 3A 4A 5A 6A 7A 8A 9A **E2250**

Wind load ▶ Class C5

C1 C2 C3 C4 **C5**

Acoustic insulation Rw

43 $dB_{(0;-2)}$