EXLABESA
ARCHITECTURE

Massive. Beautiful.
Efficient.

ARS-72 C16

Hinged system with thermal break.



The **ARS-72 C16** is a hinged thermal break system designed for configurations with Euro Groove 16. It features an 92 mm sash-to-frame visible section, promoting natural light entry and maximising the glazed area.

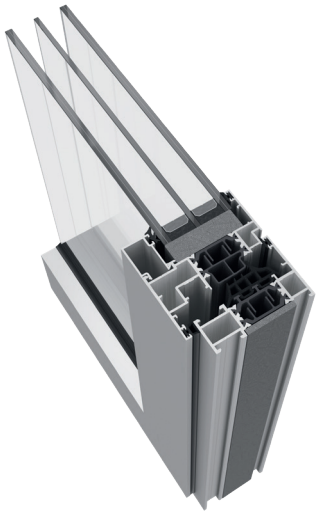
Its configuration, with 34 mm polyamide, a central EPDM sponge gasket and high-performance thermal insulating foams, provides a high level of watertightness and thermal insulation, with a U_f thermal transmittance of 1.5 W/m²K.

Euro Groove 16 configuration allows a wider range of hardware options and provides greater flexibility. It also accommodates micro-ventilation, concealed hardware and a frame with concealed drainage, enhancing the system's performance and aesthetics.

Designed with production efficiency in mind, it is fully compatible with the ARS platform, allowing components to be standardised, production to be optimised and costs to be reduced.

Features

- Euro Groove 16
- Reduced visible section of 92 mm
- Thermal transmittance U_f de 1.5 W/m²K
- Concealed hardware and micro-ventilation option
- Option of concealed frame with drainage
- 34 mm polyamide, EPDM sponge central seal and high-performance thermal insulation foams
- Safety packer for load optimisation
- Full compatibility with the ARS platform for standardised fabrication



TECHNICAL FEATURES

Design

ARS-72 C16 features a 92 mm visible section, maximising the glazed area and accommodating glazing units of up to 68 mm, ensuring optimum natural light entry and a contemporary, lightweight aesthetic.

Features

The system incorporates 34 mm polyamide, a central EPDM gasket, and high-performance thermal insulation 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 based on weather tests, it achieves a Class 4/E3000/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. recomm. dimensions (LxH) HINGED*	1500x2800 mm/sash
Max. recomm. dimensions (LxH) T&T*	1400x2400 mm/sash
Maximum recommended weight**	150 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 E3000

1A 2A 3A 4A 5A 6A 7A 8A 9A **E3000**



Wind load ▶ Class C5

C1 C2 C3 C4 **C5**



Acoustic insulation Rw

43 dB$_{(0;-2)}$

