



System description

Rooflight system Brakel® Arcilite

General description

Brakel Arcilite® is a standardised system. The system allows single glass, SDP panels and double glazing to be fitted from 8 mm to a maximum of 45 mm, providing support for the glass on four sides and at the same time clamping it.

The bar spacing for the Brakel® Arcilite system can be adjusted to a maximum width of 900 mm. The system is designed for a snow load of 750 N/m², a wind suction of 1500 N/m² and a max. glass weight of 35 kg/m².

The system is standardised and can only be applied in the following situations (*refer to sales on deviation from this*):

Double pitched roof (with hip ends) 15°/30°/45°.

Inclination angle 15° to a maximum width dimension of up to 4500 mm

Inclination angle 30° to a maximum width dimension of up to 4300 mm

Inclination angle 45° to a maximum width dimension of up to 3400 mm

Pyramid 15°/30°/45°:

Inclination angle 15°/30°/45° to a maximum width dimension of up to 4500 mm

For a pyramid, there should always be an odd number of glazing bars with either a fixed or uniform spacing.

North light / Shed 60° - 30°

Inclination angle 60° - 30° to a maximum width dimension of up to 2600 mm

Width dimension pitched roof/pyramid/north light = outside edge upright dimension

Single pitched roof 15°-60°

Inclination angle 15°/30° to a maximum width dimension of up to 2500 mm

Inclination angle 45°/60° to a maximum width dimension of up to 2400 mm

Width dimension single pitched roof = inclined bar length

Integration of Smoke and Heat extraction (SHEV)

It is possible to integrate EN 12101-2 certified smoke and heat extraction opening lights, ventilation opening moments or louvered ventilators.

Seals

The main and transverse glazing bars are fitted with EPDM rubber strips.
The cover strips are fitted with EPDM rubber seals.

Technical specifications

Material:

Profiles: aluminium alloy EN AW-6063 (ALMgSi0,5)

Untreated plating: EN AW-5754 (AIMg3)

Sealant: EPDM 70° Shore

Fixings: Stainless steel A2



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Test results

- System U-value = 1.13 – 1.15 W/m²K in compliance with EN 10077-2 (fitted with glass U = 1.1 W/m²K)
- Air permeability: EN 1026: 600 Pa, EN 12207: class 4
- Water tightness: EN 1027: 1050 Pa, EN 12208: class E1050
- Resistant to varying wind loads: class C3, 2000 Pa (=P2) deviation < 1/300 in compliance with EN 12210 / EN 12211
- Impact resistance: SB1200

Options

Surface treatment options:

- powder coating (1-layer 60μ / 2-layer 120μ) as per Qualicoat
- anodising (20μ) as per Qualicoat.

General - glazing

Glass thickness can vary from 8-45 mm.

Glazing type example

Insulated glass comprising:

Exterior pane: 6 mm HR⁺⁺ or solar control

Cavity: 12 or 15 mm

Inner pane: 4.4.2 laminated glass

U_g=1.3 W/m²K (12 mm cavity), U_g=1.1 W/m²K (15 mm cavity)

We are happy to supply you with a no obligation comprehensive specification tailored to your needs. Please contact our sales department - Tel: +31 (0)413 – 338 360.

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