



## Specifications

SHEV application   

### Brakel® Mono / Duo Therma

Manufacturer	: Brakel (www.brakel.com)
Type	: Brakel® Mono / Duo Therma
Description	: natural double flap ventilator, suitable for ventilation and smoke & heat ventilation purposes
Operation	: double action pneumatic cylinders + CO <sub>2</sub> fire function (P2B) / double action failsafe pneumatic cylinders (P2BFS) / 24Vdc spindle motor (M24)
Base	: thermally separated (TG) / insulated (G) / uninsulated (O)
Louvers	: thermally insulated aluminium / insulated aluminium / uninsulated aluminium / double wall polycarbonate, colour: clear or opal (isolux 16mm) / Multi-wall polycarbonate, colour - clear or opal (isolux 55mm) / single laminated glass (4.4.2) / insulated glass (5-15-4.4.2) / acoustically insulated 34 dB / 44 dB
Flanges	: uninsulated / insulated
Clear opening (w x l)	: *** x *** mm (identical)
Flange sizes (w x l)	: *** x *** mm (identical)
Aerodynamic flow	: *** m <sup>2</sup>
Acoustic values	: Brakel® Mono/Duo Therma TG 31 dB Brakel® Mono/Duo Therma acoustic 34 dB or 44 dB
Installation	: on preformed upstand / in glass roof construction / surface mounted profiled roof
Protection	: to match glass roof construction / enamel finish with *** layer polyester powder coating, layer thickness *** µ, in standard RAL colour (group ***) / anodised / untreated (milled aluminium)
Test	: - EN 12101-2 - Soft Body Impact test 1200J
Important	: to satisfy guarantee conditions Duo Therma must be closed during rain and high winds (> 14 m/s), unless during fire, when the Duo Therma should remain open for the extraction of the resulting smoke and heat. Installation of a rain sensor and wind speed meter is therefore essential



## Specifications

Ventilation application  

### Brakel® Mono / Duo Therma

Manufacturer	: Brakel (www.brakel.com)
Type	: Brakel® Mono / Duo Therma
Description	: natural double flap ventilator, suitable for ventilation purposes
Operation	: double action pneumatic cylinder (P2) / 24Vdc spindle motor (M24)
Base	: thermally separated (TG) / insulated (G) / uninsulated (O)
Louvers	: thermally separated aluminium / insulated aluminium / uninsulated aluminium / double wall polycarbonate, colour: clear or opal (isolux 16mm) / multi-wall polycarbonate, colour - clear or opal (isolux 55mm) / single laminated glass (4.4.2) / insulated glass (5-15-3.3.2 / 5-15-4.4.2) / acoustically insulated 34 dB / 44 dB
Flanges	: uninsulated / insulated
Clear opening (w x l)	: *** x *** mm (identical)
Flange sizes (w x l)	: *** x *** mm (identical)
Aerodynamic flow	: *** m <sup>2</sup>
Acoustic values	: Brakel® Duo Therma TG 31 dB
The	Brakel® Duo Therma TG acoustic 34 dB or 44 dB
A Installation	: on preformed upstand / in glass roof construction / surface mounted
Protection	: to match glass roof construction / enamel finish with *** layer polyester powder coating, layer thickness *** mu, in standard RAL colour (group ***) / anodised / untreated (milled aluminium)
Test(s)	: Soft Body Impact test 1200J
Important	: to satisfy guarantee conditions Duo Therma must be closed during rain and high winds (> 14 m/s). Installation of a rain sensor and wind speed meter is therefore essential