

MC FIRE ROOF

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The MC FIRE ROOF skylights are reinforced with appropriately matched aluminium cores, which are filled and lined with fire resistant inserts.

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The MC FIRE ROOF system consists of posts (rafters) and beams (purlins) available in a wide range of MC WALL system profiles.

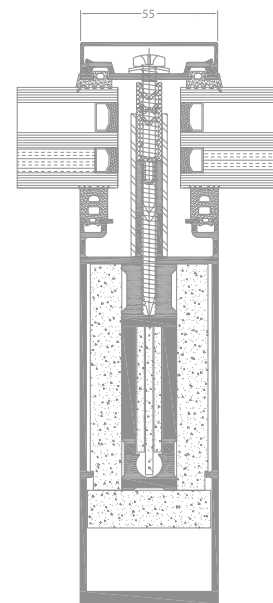
The load-bearing profiles of the structure (posts/rafters and beams/purlins) are reinforced with appropriately matched aluminium cores, which are filled and lined with fire resistant inserts. The posts and beams are additionally connected with each other by means of designed stainless steel pins.

There is a wide range of masking profiles and roof-plane strips available in the system, giving the structure an aesthetic appearance.

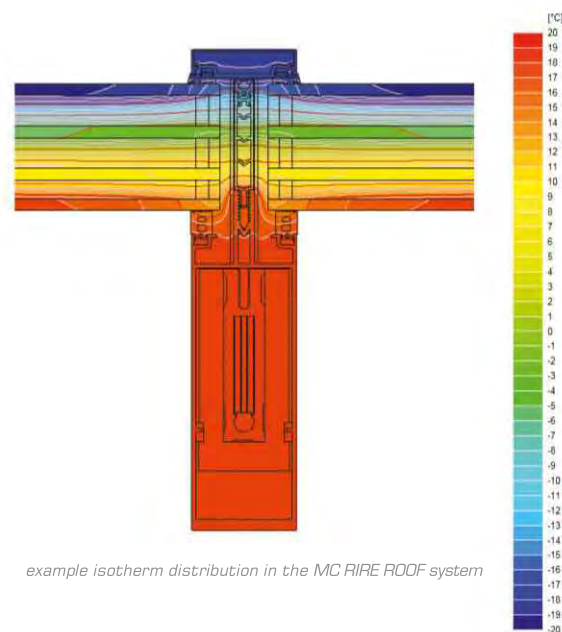
Characteristic:

- the MC FIRE ROOF solution using appropriate glass (different variants available) achieves the REI45 rating (according to PN-EN 13501-2:2016-07)
- the structure of the MC FIRE ROOF skylight can be inclined from 0° to 80° (applies to fire rating). A double pitched structure is also possible, also as a vertical wall transforming into the skylight (knee wall)
- the maximum glass dimensions are 1300 x 2400 (E130)
 - glazing thickness ranging from 40 to 66 mm can be used in the system
 - non-rectangular glass is also possible
- the maximum depth of poles/rafters depends on strength calculations and ranges from 104 to 326 mm
- the maximum depth of beams/purlins depends on strength calculations and ranges from 88 to 294 mm.

Wide range of colours – RAL palette (Qualicoat 1518), texture colours, Aliplast Wood Colour Effect (wood-like colours), Aliplast Loft View – colours imitating stone surfaces (Qualideco PL-0001), anodized colour (Qualanod 1808), bi-colour.



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example isotherm distribution in the MC FIRE ROOF system

TECHNICAL SPECIFICATION

SYSTEM	MATERIAL	DEPTH MULLION	DEPTH TRANSOM	GLAZING RANGE	MULLIONS RIGIDITY	TRANSOM RIGIDITY
MC FIRE ROOF	aluminium	104-326 mm /	88 -294 mm /	40-66 mm	178,9 - 5177,1 cm ⁴ *	124,9 - 2429,8 cm ⁴ *

* There is a possibility to use additional reinforcements.

PERFORMANCE

SYSTEM	THERMAL INSULATION Uf *	AIR PERMEABILITY	WINDLOAD RESISTANCE	WATERTIGHTNESS
MC FIRE ROOF	Uf from 1,16 W/m ² K	Class AE1200 Pa; EN 12152	2600 Pa ± 3900 Pa; EN 13116	Class RE1350 Pa; EN 12154

* Thermal insulation is dependent on a combination of profiles and thickness of the filling.