# FR90 FR90 Thermally insulated fire protection system. Structures designed on the basis of the FR90 system feature fire rating EI30 ( $E_1$ ), EI60 ( $E_1$ ).

allplast

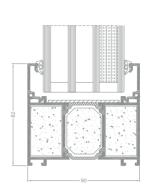
# **FR90**

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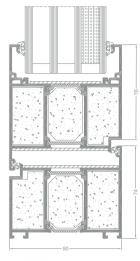
### System description:

- Installation depth: 90 mm
- Symmetrically designed profile, inner chamber filled with gypsum infill elements (between thermal separation sheets) – for EI30; all chambers filled with gypsum – for EI60
- Compatible with systems with the installation depth of 90 mm (STAR)
- Possibility of using a triple glazing unit (glazing: 20 mm to 68 mm)
- Option of panel infill (panel thickness 60 mm):
  - mineral wool filed panels (Up = 0,57 W/m<sup>2</sup>K)
  - gypsum filled panels;
- Application: indoor and outdoor installations
- Structures: single and double doors, fixed glazing
- Maximum dimensions of the tested structure: 6000 x 3000 mm (fixed wall, single glass pane)
- Maximum dimensions of single-leaf doors: 1650 x 2870 mm
- Maximum dimensions of double-leaf doors: 3170 x 2870 mm
- Single-point and multi-point door locks, electric door strikes
- Cover plate hinges, roller hinges
- Solutions with and without thresholds
- Door kick plates (high plinth block)
- Option of air vent installation
- Optimised profiles (one profile type for the door frame and leaf)
- Quick and simple prefabrication (no processing of the glazing bar)
- Acoustics acoustic testing of double doors featuring fire rating El30 and El60 for indoor and outdoor installations: 39 to 47 dB.

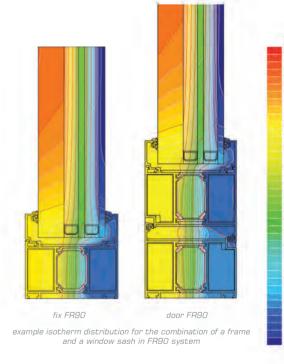
 $\label{thm:colours} \mbox{Wide range of colours} - \mbox{RAL palette, structural colours, Aliplast Wood Colour Effect, anodic and two-coloured.}$ 







FR90 door section



# TECHNICAL SPECIFICATION

SYSTEM	MATERIAL	DEPTH OF FRAME	DEPTH OF LEAF	GLAZING RANGE	TYPE OF WINDOWS	TYPE OF DOORS
FR90 fix	aluminium / polyamid	90 mm /	_	/ fix / 20 - 68 mm	fix	
FR90 door	aluminium / polyamid	90 mm /	90 mm	/ door / 20 - 68 mm		single and double doors

## PERFORMANCE

SYSTEM	THERMAL INSULATION Uf *	AIR PERMEABILITY	WINDLOAD RESISTANCE	WATERTIGHTNESS
FR90	Uf from 2,145 W/m <sup>2</sup> K	f from 2,145 W/m²K Class 4; EN 12207		A4 (150 Pa); EN 12208

<sup>\*</sup> Thermal insulation is dependent on a combination of profiles and thickness of the filling.