FR90
FIRE PROTECTION
SYSTEMS

Combining stylish design with robust performance, our new fire resistant system, FR90, has been designed to create safe zones within buildings, with the system able to resist fire, smoke and heat for prescribed time periods.
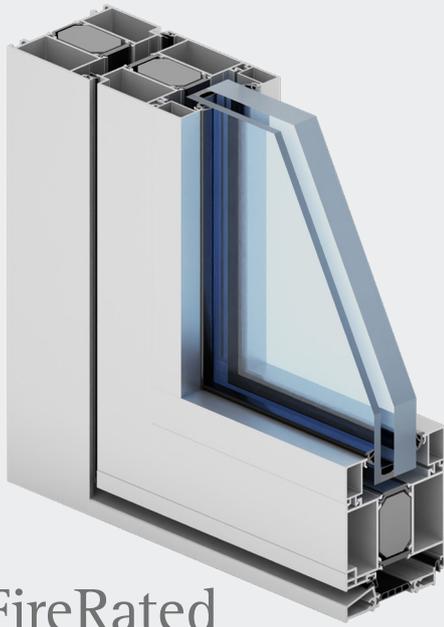
The FR90 range includes solutions for achieving fire ratings for walls of EI30, EI60, EI90, and EI120, and for doors of EI30, EI60 and EI90.

The elegant thermally-insulated fire protection system contains single and double door options, as well as fixed glazing panels, and provides occupants with the opportunity to evacuate a building in a safe and secure way in the event of a fire.

Compatible with systems with an installation depth of 90mm, FR90 is available with mineral wool or gypsum infill panels, as well as a range of single- and multi-point door locks, electric door strikes, panic hardware and hinge options. The system may also be specified with or without a threshold.

DESIGNING PRODUCT SOLUTIONS FOR

✦ Commercial buildings requiring fire-rated doors and glazing systems

✦ Industrial facilities needing robust thermal and fire protection

✦ Healthcare and education sectors demanding acoustic performance up to 47dB

✦ High-security applications with multi-point locking and panic hardware

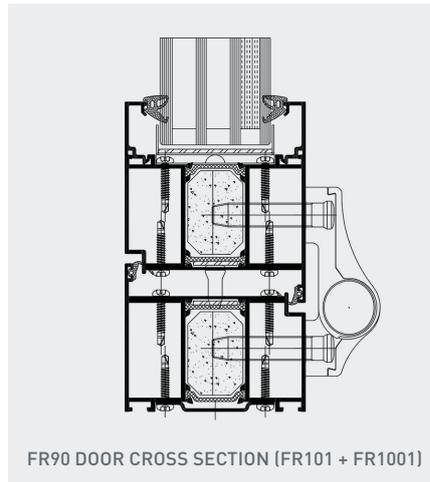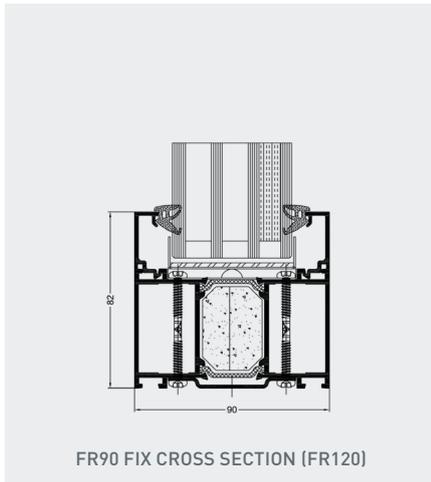✦ Architectural projects requiring aesthetic flexibility with extensive colour options

- ✦ 90mm installation depth
- ✦ EI30-EI120 fire ratings
- ✦ Single/double door configurations
- ✦ Max dimensions 3170 x 2870mm
- ✦ Mineral wool/gypsum panel options
- ✦ Multi-point locking systems
- ✦ Threshold/threshold-free options
- ✦ Full RAL colour range including wood and stone effects

OWS FireRated
Windows • Doors • Curtain Walling

FIRE PROTECTION SYSTEM

FR90 FIX CROSS SECTION (FR120)

FR90 DOOR CROSS SECTION (FR101 + FR1001)

Technical specification

System	Material	Depth of frame	Depth of leaf	Glazing range	Type of doors
FR90 Fix	Aluminium / Polyamide	90 mm	–	Fix 20-69 mm	–
FR90 Door	Aluminium / Polyamide	90 mm	90 mm	Door 20-69 mm	Single sash door, Double sash door

Performance

System	Thermal insulation Uf*	Air permeability	Windload resistance	Watertightness
FR90	Uf from 2,145 W/m²K	Class 4; EN 12207	Class C1/B2; EN 12210	Class 4A; EN 12208

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