



FRD-12/90



EW90- Fire-Rated Aluminum Single door system

Today's architectural boundaries have been expanding with every new design and engineering efforts in order to present more comfortable, energy efficient and most importantly safer living and working spaces to society with sustainable and flexible design approaches.

Even though bulky and unesthetic steel options have been in the market for the fire protection, those solutions mostly are not able to meet architectural demands of modern era design and engineering concepts. This led to born of aluminium fire rated systems with large glazing areas.

In the awareness of the 21st century's safety and architectural needs PGT designed & realized the FRD-12/90, a single leaf door system that not only full fill the fire safety requirements of modern days also it gives contemporary solutions to architects and engineers in their projects



EW (Integrity + Insulation) Class



90 Min. Rating



Certified according to EN1634-1

Application Areas



Residential Building



Commercial Building



Hotel



School



Hospital



Factory



Features

General Characteristics

- An aluminum framing & glass system that:
 - Prevents the fire & smoke passage through (E).
 - A barrier to against heat radiation transfer (W).
- EW-90 Min. fire rating class.
- EN 16344-1 tested & certified system.
- High impact resistance.
- Superior infiltration (air & water) rates.
- High acoustic insulation.
- Easy assembly & installation .
- Applicability to various architectural topologies.
- Able to allow large size applications.
- Superior aluminum framing design that allows larger exposed glazing areas.
- Suitable for interior and exterior applications.
- Compatible to use with EW-90 FRP-12/90 fixed partition wall system.
- Various hardware options.
- Ability to use with sidelites and transom panels.

Hardware

- Integrated or surface mounted panic bar options tested
- Availability of panic or mortice lock alternatives with B,C,D,E panic functions
- Aluminum surface mounted supporting hinges with powder coated or anodized finish options.
- Slide arm door closer or link arm door closer with door coordinator options.
- Automatic drop down seal included as standard.

Framing

- All- aluminum system framing system with high quality, multi-sliced extruded profiles.
- Applied with precision high quality insulation material.

Finishes

- All standard powder coating colors with qualicoat certification
- All standard anodized colors with qualanod certification
- Custom colors availability for project base under the conditions determined by the paint producers.

Glass

- BOHFLAM EW 60 Fire resistance glass.
- EW 60 rated tempered safety glass.
- 13 mm nominal thickness
- Light transmission: %86
- G-value: %74
- Sound reduction: Rw 37dB
- UV resistance according EN ISO 12543-3 Pt. 6.5.2.
- Suitable for interior and exterior applications.

Performance Test Standards

- All testes were performed according to EN 1634-1 in accredited laboratories.
- All opening hardware were tested according to EN 179 or EN 1125

Certifications

- Efectis Era Avrasia Certification no: EEA-2000-00116

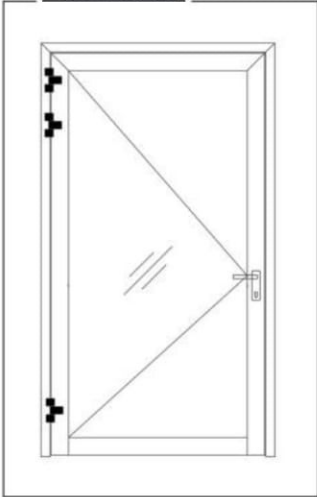


Technical Details

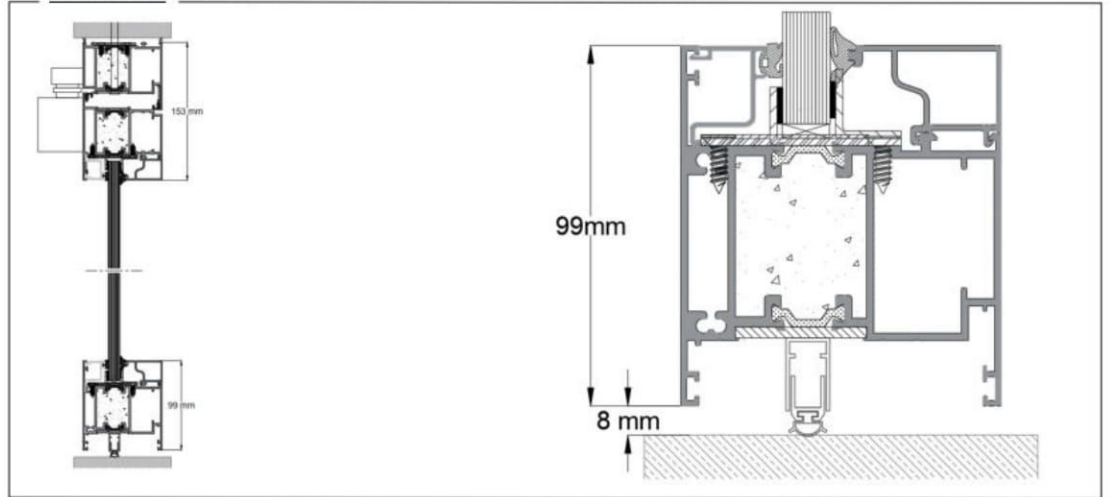
Fire resistant clasification	EW90
Air Permability	Class 4 (EN12207)
Watertightness	Class 4A (EN 12208)
Windload Resistance	Classs C2 (EN 12210)
Glazing Range	25-45 mm
Frame Depth	88 mm
Maximum Weight of Door Leaf	100 kg
Maximum Height of Door Leaf	2236 mm
Maximum Width of Door Leaf	1188 mm
Maximum Door Leaf Area	2,66 m ²

Details

Elevation



Section



Plan

