BLAST-RESISTANT SYSTEMS · STEEL

# Blast-resistant windows, doors and partitions

Glazed openings considered as part of the building's protective design.



A steel window system for buildings that must keep working after an explosion. Frame, glazing, gaskets and anchorage are tested together under shock-tube loading, so the rating belongs to the whole window and not to the glass alone.

| CLASSIFICATION | PEAK REFLECTED PRESSURE | REFLECTED IMPULSE | GLAZING |
|---|---|---|---|
| EPR1 | 58 kPa | 427 kPa·ms | 56 mm |
| EN 13123-1 / EN 13124-1 | Tested value, 0.58 bar | Tested value, 20 ms duration | Insulated multi-laminate unit |

## Benefits

- **Tested as one assembly.** Frame, glass and anchorage together.
- **Independently witnessed.** Shock-tube tested at Fraunhofer EMI, Germany.
- **Slim steel sightlines.** 50 or 60 mm mullions and transoms.
- **One system family.** Matching windows, doors and facades.
- **Built for the Gulf climate.** Thermally broken, insulated glazing.
- **Protected inner face.** Anti-spall inboard pane retains fragments.
- **Manufactured in Qatar.** Fabricated and finished in Doha.

## Options

Fixed lights · Opening lights · Wet or dry glazing · Fire rating on request · RAL or NCS colour

## Technical data

| ITEM | SPECIFICATION |
|---|---|
| System | Thermally broken structural steel |
| Blast class | EPR1 · EN 13123-1 / EN 13124-1 (shock tube) |
| Tested envelope | 58 kPa · 427 kPa·ms · 20 ms |
| Design method | UFC 3-340-02 for project blast loads |
| Configuration | Fixed windows, glazed doors and partitions |
| Sightline | 50 mm or 60 mm |
| Glazing | Multi-laminate insulated unit, about 56 mm |
| Glazing retention | Pressure plate with structural EPDM gasket |
| Anchorage | To concrete or structural steel, per project |
| Finish | Polyester powder coat or PVDF |
| Test evidence | Independent reports, on request |

## Where it is used

Control rooms and control buildings · Refineries and gas plants · LNG and export terminals · Petrochemical plants · Process and compressor buildings · Substations and power plants · Site offices and laboratories · Government and ministry buildings · Embassies and consulates · Defence and military facilities · Police and security buildings · Guard houses and gatehouses · Airports and ports · Data centres · Banks and cash centres · Hospitals · Safe rooms and shelters · Critical infrastructure

**Confirm the complete configuration.** Ratings apply to the tested assembly and its permitted sizes. Blast loads and supporting structure are confirmed for each project before ordering.

## Send us your drawings and specification.

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