

FIRE GROUP GEORGIA

*"fire protection excellence,
flexibility custom-made"*

FIRE DOORS PRODUCT CATALOGUE

FEATURES — FIRE DOORS

THE FIRE DOOR IN A CLASS OF ITS OWN

"Indisputable Quality"

- Especially sturdy door for safe functioning over time
- Ideal for application to uneven or weak walls
- Fully isolated frame for true "dry wall installation"
- Built to order for all kinds of requests
- Fully galvanized door, including all hidden parts
- Made of hot-galvanized sheet metal, "Sendzimir" processed
- Corrosion protection along cut edges of metal sheets
- Painted with epoxy-polyester thermoset powders at 180°C
- Substantial paint layer (70 microns plus)
- 500-hour salt-fog test for optimal corrosion resistance
- Climate-tested: 2000 hrs from +60° to -10°C at 75% humidity
- Orange skin anti-scratch structured paint finish
- Customizable with wide selection of RAL colors

"Conformity to Standards"

- In-house R&D; with specialized testing equipment
- Fire testing per UNI 9723 and EN 1634-1
- CE marked door accessories to European requirements
- Strict product testing for conformity to declared standards
- Doors type approved in compliance with M.D. 21 June 2004
- All products delivered with required documentation

"Practicality of Use"

- Truly sturdy frame that facilitates wall anchoring
- Suitable for all wall types
- Multiple installation methods to choose from
- Significantly reduced installation times
- Type approvals for installations to different wall types
- Ample size range available
- Wide variety of accessories

"Manufacturing Technology"

- Manufacturing in modern, functional facilities using latest technologies
- Entire production process from raw materials to painted products in-house
- 360-degree product quality control throughout production

Available Fire Rating Classes

TYPE	ONE-LEAF	TWO-LEAF
EI ² 60 (Sm – C5)	YES	YES
EI ² 90	NO	YES
EI ² 120	YES	NO
REI 60	YES	YES
REI 90	NO	YES
REI 120	YES	YES

Opening Direction: Must be specified when ordering — Left or Right.

STANDARD ELEMENTS

Door Leaf

- Made of "Sendzimir" processed hot-galvanized sheet metal, press folded and electro-welded
- Perimetral rebate on 3 sides, flat at the bottom
- Internally reinforced with hot-galvanized steel profiles
- Heat-insulated mineral wool packing rigidly joined to the sheet metal
- Internal stiffeners for overhead door closer and panic bar

Standard Frame

- Sturdy profile with sizeable cross section
- Made of "Sendzimir" processed hot-galvanized sheet metal
- Equipped with special assembly brackets
- Grooves for thermo-expansive sealing and rebate sealing
- Standard installation via anchors for mortar fixing
- Optional: expansion screws or screws onto subframe
- Rests on finished flooring without rebate

Thermo-Expansive Sealing

- Mounted on vertical doorframe profiles and central vertical profiles (for two-leaf doors)
- Positioned above and below leaves depending on certification

Hinges

- 2 three-wing hinges per leaf
- One ball-bearing hinge with vertical adjustment screws, CE marked per EN 1935
- Rated for up to 160 kg load and 200,000 cycles durability
- One hinge with self-closing spring

Locking Mechanism

- Reversible locking mechanism with bolt and central latch for EI260, EI290, REI 60 and REI 120 doors
- Three-point locking mechanism for one-leaf EI2120 doors
- CE marked per EN 12209 standard
- Euro profile cylinder ready

Handle

- Fire rated handle in black plastic with steel core
- Steel installation plate with cylinder hole
- Cover plate in black plastic with fastener screws

INCLUDED ACCESSORIES & FINISHING

Closing Regulator

- RC/STD closing regulator included on standard two-leaf doors for correct leaf closing sequence
- RC2 system available for doors with environmental characteristics (must be ordered with door)
- CE marked per EN 1158 standard

Locking Mechanism for Inactive Leaf

- "Flush-bolt" automatic locking of the inactive leaf
- Lever control for easy unlocking

Upper Coupling System (Inactive Leaf)

- Inactive leaf lock device that inserts rod into upper strike box
- Upper strike box in pierced steel with steel roller

Lower Coupling System (Inactive Leaf)

- Vertical rod with steel point which inserts into lower strike box
- Floor-mounted bushing made of self-extinguishing black plastic with rebate stopper

Identification Plate

- Metal tag with door identification data, in accordance with current regulations

Finishing & Packaging

Feature	Details
Standard Paint	Epoxy-polyester thermoset powders, 180°C oven, orange-skin anti-scratch
Standard Color	RAL 9010 (Pure White)
Custom Colors	Full RAL color range available on request
Packaging	Single leaf in PE stretch film; frames individually packed; palletized on wooden pallets
Special Packaging	Sturdy wooden crates for decorated doors, construction sites, international shipping

Door Weight Reference

Configuration	Class	kg/m ² of wall opening
1 leaf	EI260, REI 60	37
2 leaves	EI260, REI 60	35
1 leaf	EI2120, REI 120	42
2 leaves	EI290, REI 120	40

OPTIONAL ACCESSORIES

A wide variety of accessories and surface finishes are available on request for maximum value enhancement of fire doors. The proper accessories help resolve specific needs:

Safety-Related Needs

- Panic exit doors (with panic bars: EXUS, TWIST, SLASH, FAST TOUCH types)
- Emergency exit doors (with emergency exit handles)
- Open doors that must close automatically in case of fire (leaf holding systems)

Installation & Utilization

- Frame extensions (IM1, IM3, IM4, IM5 types)
- Different kinds of floor-mounted catches (plastic, steel, retreating N626)
- Roofing and drip steel profiles
- Special fastener screws and wall anchors
- Kick and protection plates in stainless steel
- Rectangular windows (standard or custom dimensions)
- Round windows
- One-leaf door with frame on four sides

Access Control

- Electrically-activated lock mechanisms
- Electric handle mechanisms
- Magnetic blocking mechanisms

Performance Enhancing

- Rebate sealing (CR sealing for EI2 doors; standard sealing for REI doors)
- Fixed aluminium threshold with rebate sealing
- High-quality cylinders (euro profile)
- Overhead door closers (various closing forces)
- Special closing regulators

Customized Finishing

- Full RAL color range — select the shade that matches your project
- NDD – Digital Decor: graphic images applied with special ink jets, protected by transparent topcoat
- Stainless steel handles and colored handles

INSTALLATION METHODS

All installation methods are rigorously tested, certified and approved. Choose the method that best fits your wall type and project requirements:

Standard: Anchors for Mortar Fixing

The standard installation method. Cuts (80x200 mm) are created in the wall; anchors are bent and blocked inside the wall. The space between doorframe and masonry must be filled with concrete mortar for fire sealing and mechanical fit.

One-leaf: FM L 500–1035 x FM H 1775–2200 mm Two-leaf: FM L 850–2070 x FM H 1775–2200 mm

Optional: Dry Wall — Subframe with Screws

Certified for one- or two-leaf REI 60 and REI 120 doors per UNI 9723. Allows dry installation onto finished masonry. The doorframe is factory heat-insulated and includes corner joints. Subframe is ordered separately.

Subframe dimensions must match FM L x FM H of door

Optional: Expansion Screws Fixing

Certified for EI260, REI 60, REI 120, EI290 (two-leaf) and EI2120 (one-leaf) doors. Designed for blockwork, masonry or homogenous concrete walls (density 1200±400 kg/m³, thickness 200±50 mm). Simple mechanical installation — no additional masonry work required.

NOTE: Concealing with concrete mandatory for EI290 and EI2120 doors

Optional: Block Frame for Reveal Application

Certified for one- and two-leaf EI260, one-leaf EI2120, and two-leaf EI290 doors. Frame includes corner joints and pre-drilled screw holes. Dry wall installation without masonry work.

ATTENTION: Acoustic performance values are NOT valid with this method

Optional: Embracing Frame for Lightweight Constructions

Certified for one- and two-leaf doors installed onto plasterboard/lightweight partition walls. Frame is factory heat-insulated with pre-drilled holes and cover caps. Available for EI260, EI290, EI2120, REI 30, REI 60, REI 90, and REI 120 classes.

Plasterboard walls: single layer 12.5 mm for REI 60; double layer for EI290, EI2120 and REI 120

ORDER MEASUREMENTS

The ordering dimension (FM L x FM H) is the reference measurement for ordering. It may differ from the wall opening. All measurements in millimeters unless stated otherwise.

Key Measurement Formulas

Measurement Type	Formula	Notes
Wall opening	$FM L (+20/+10) \times FM H (+15/+5)$	For standard mortar-fixed frame
Doorframe opening	$PTL = FM L - 80 / PTH = FM H - 40$	Clear passage through frame
Exterior doorframe	$FM L + 60 \times FM H + 30$	Overall external dimension
Lightweight wall opening	$FPC L = FM L - 25 / FPC H = FM H - 12$	For embracing frame
Block frame opening	$Opening L = FM L + 70 / Opening H = FM H + 65$	Reveal installation

Standard Dimensions — One-Leaf Doors

FM L (mm)	FM H (mm)	Fire Rating Class
800	2000 / 2050 / 2100 / 2150 / 2200	EI260, EI2120, REI 60, REI 120
900	2000 / 2050 / 2100 / 2150 / 2200	EI260, EI2120, REI 60, REI 120
1000	2000 / 2050 / 2100 / 2150 / 2200	EI260, EI2120, REI 60, REI 120
1100	2050 / 2100 / 2150 / 2200	EI260, EI2120, REI 120
1200	2050 / 2100 / 2150 / 2200	EI260, EI2120, REI 120
1300	2000 / 2050 / 2100 / 2150 / 2200	EI260, EI2120, REI 60, REI 120
1340	2050 / 2100 / 2150 / 2200	EI260, EI2120, REI 120
Custom sizes	from 1775 to 2670	All classes — contact us

Standard Dimensions — Two-Leaf Doors (Selected)

FM L (L1+L2)	FM H (mm)	Fire Rating Class
1600 (800+800)	2000 to 2200	EI260, EI290, REI 60, REI 120
1800 (900+900)	2000 to 2200	EI260, EI290, REI 60, REI 120
2000 (1000+1000)	2000 to 2200	EI260, EI290, REI 60, REI 120
1250 (900+350)	2000 to 2200	EI260, REI 60, REI 120
1350 (1000+350)	2000 to 2200	EI260, REI 60, REI 120
Custom sizes	from 1775 to 2670	All classes — contact us

Handle height: $h = 1050$ mm standard ($FM H \geq 1750$ mm). Different heights available on request. Leaf thickness: 60 mm for all fire doors.

ADDITIONAL PERFORMANCES

Smoke Control Performance

Fire Group Georgia fire doors are classifiable for smoke control according to EN 1634-3 (test method) and EN 13501-2 (classification). Two performance levels are available:

Classification	Condition	Max Dispersion
Sa	Room temperature, 25 Pascal	≤ 3 m ³ /h per meter of gap (excluding floor threshold)
S200	Room temperature + 200°C, up to 50 Pascal	≤ 20 m ³ /h (single door) / ≤ 30 m ³ /h (double door)

Thermal Transmittance (U-Values)

U-values calculated per EN ISO 10077-1 on door area ≤ 3.6 m² and > 3.6 m². Values are valid only with: standard frame with wall anchors or screws, rubber seals along entire perimeter, and automatic door sweep where applicable.

Door Class	Area	Without Window	With 300×400 Window
REI 60 / EI260	≤ 3.6 m ²	1.3 – 1.5 W/m ² K	1.8 – 2.1 W/m ² K
REI 120 / EI290/120	≤ 3.6 m ²	1.4 – 1.5 W/m ² K	1.8 – 2.0 W/m ² K
REI 60 / EI260	> 3.6 m ²	1.4 – 1.6 W/m ² K	2.0 – 2.2 W/m ² K
REI 120 / EI290/120	> 3.6 m ²	1.4 – 1.6 W/m ² K	2.0 – 2.2 W/m ² K

Acoustic Performance

Sound reduction index Rw values for single-leaf doors with REI 120 / EI290/120 class:

FM L (mm)	FM H (mm)	Rw (dB)
800 – 1100	2000 – 2250	36
1101 – 1340	2000 – 2250	35
800 – 1340	2251 – 2670	34
500 – 799 (two-leaf)	2000 – 2670	32

INSTALLATION, USE AND MAINTENANCE NOTICES

Installation Area

Fire Group Georgia fire doors are designed for internal compartmentalization and must be stored and installed sheltered from direct atmospheric agents and sunlight. For external installation, exterior-grade paint, exterior fire-rated glass, and canopies/roofing must be provided. Fire-rated glass is stable between -40°C and +50°C — avoid installation near heat sources greater than 50°C or UV-generating lighting. Avoid high-humidity areas to prevent layer dissolution.

Installation Requirements

Installation must be performed by qualified technicians only, using all supplied components strictly per the installation, use and maintenance handbook. All products must be installed on walls that are perfectly vertical, well aligned, and on level flooring. Verify load-bearing capacity of walls before installation. Ensure sufficient wall strength for the door's weight — accessibility for all users, including persons with reduced mobility, must be considered.

Fire-Rated Glass Products

REI and EI fire-rated glazed panels undergo rigorous quality controls. Minor optical imperfections or tiny air bubbles may be present due to the manufacturing process — this does not compromise fire resistance and does not constitute grounds for claims. STEAM CLEANING IS STRICTLY FORBIDDEN for fire-rated windows.

Self-Closing Function

To ensure reliable self-closing, the installation area must not be subject to strong air currents. For doors exposed to strong winds, a door closer with a higher closing force is recommended. Protrusion of accessories (handles, closers, etc.) must not interfere with walls — provide appropriate indentations and door stoppers where necessary.

Maintenance

Use only original spare parts listed in the installation instructions for all maintenance and repair. Any modifications to door or accessories must comply with tested and approved configurations listed in the maintenance handbook. Performance values may vary based on real installation conditions, adjustments, and wall execution quality.

CONTACT & COMPANY INFORMATION

FIRE GROUP GEORGIA

Fire Protection Excellence — Custom Made

Address	Ilia Chavchavadze 44, Batumi, Georgia
Phone	+995 591 54 44 69
WhatsApp	+995 591 71 48 34
Emergency	+995 591 54 44 69
Email	firegroupgeorgia@gmail.com
Website	www.firegroupgeorgia.com

Fire Group Georgia reserves the right to make technical changes to products and specifications without prior notice. All measurements in this catalogue are in millimeters unless otherwise stated. Color samples shown may differ slightly from actual products. Installation must be performed by certified specialists in accordance with supplied documentation.

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