



FORTRESS SERIES FE/15

EXTREME-SECURITY FORCED-ENTRY DOOR ASSEMBLY

FE/15

U.S. STATE DEPT.

RC4

EN 1627

3.5 in.

DOOR LEAF

4.5 in.

FRAME DEPTH

PRODUCT DESCRIPTION

The Fortress Series FE/15 is GSS Doors' highest forced-entry classification. It is a custom-fabricated, pre-hung security door and frame assembly for high-risk residential, commercial, government, safe-room, and controlled-access openings. The system combines a reinforced steel leaf, armored multi-point locking, protected cylinders, security hinges, insulation, gasketing, and an engineered security frame.

PERFORMANCE CLASSIFICATION

Forced entry	FE/15 under U.S. Department of State SD-STD.01.01 Rev. G
European class	Resistance Class 4 (RC4) under EN 1627; IFT Rosenheim
Configurations	Inswing or outswing; interior or exterior applications
Ballistic options	Project-specific Level 3 handgun or Level 8 rifle-resistant construction

SYSTEM SCOPE

- 12-gauge steel door leaf and security frame supplied pre-hung
- Armored multi-point lock with drill-resistant manganese protection
- Adjustable ball-bearing security hinges and installation hardware
- Architectural faces, glazing, thresholds, and access-control interfaces as specified



BASIS-OF-DESIGN NOTE

Final fabrication dimensions, anchorage, handing, glazing, hardware, and interfaces are governed by approved project shop drawings.

TECHNICAL SPECIFICATIONS

Standard Fortress Series FE/15 construction and dimensional data

PROPERTY	STANDARD / AVAILABLE CONFIGURATION
Door leaf	12-gauge steel construction; nominal 3.5 in. (91 mm) standard thickness
Frame	12-gauge steel reinforced security frame; nominal 4.5 in. (115 mm) profile
Locking	Armored multi-point system with 3/4 in. bolts and drill-resistant manganese protection; locking-point count configuration dependent
Frame anchorage	Secured to the wall using protected anchors and steel shims; final anchorage per shop drawings
Insulation	2 in. rock-wool layer for thermal and acoustic control
Hinges	Welded, adjustable ball-bearing security hinges with hinge-side protection
Decorative faces	Nominal 1/2 in. or 3/4 in. engineered wood, marine plywood, or natural hardwood options
Maximum size	Up to 49 in. wide x 110 in. high; configuration dependent
Operation	Left-hand or right-hand; inswing or outswing; interior or exterior use
Thresholds	Flat, low-profile, sloped exterior sill, automatic door bottom, or no threshold where approved
Glazing	Optional security glazing in clear, frosted, or tinted configurations; subject to engineering
Finishes	RAL powder coat, paint-grade face, stain-grade face, raised panels, or applied mouldings

DIMENSIONAL REFERENCE

49 in.

MAXIMUM WIDTH

110 in.

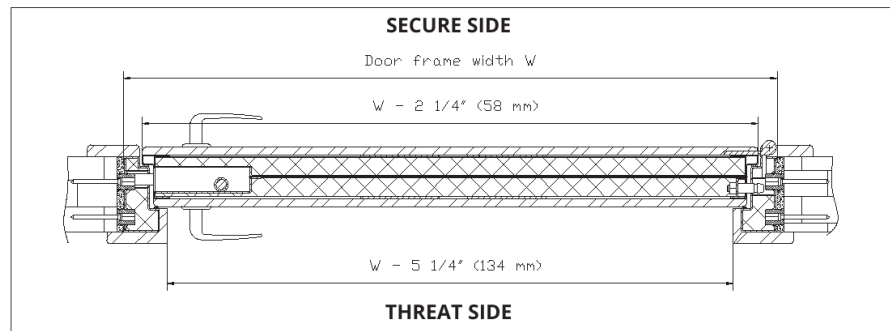
MAXIMUM HEIGHT

3.5 in.

LEAF THICKNESS

4.5 in.

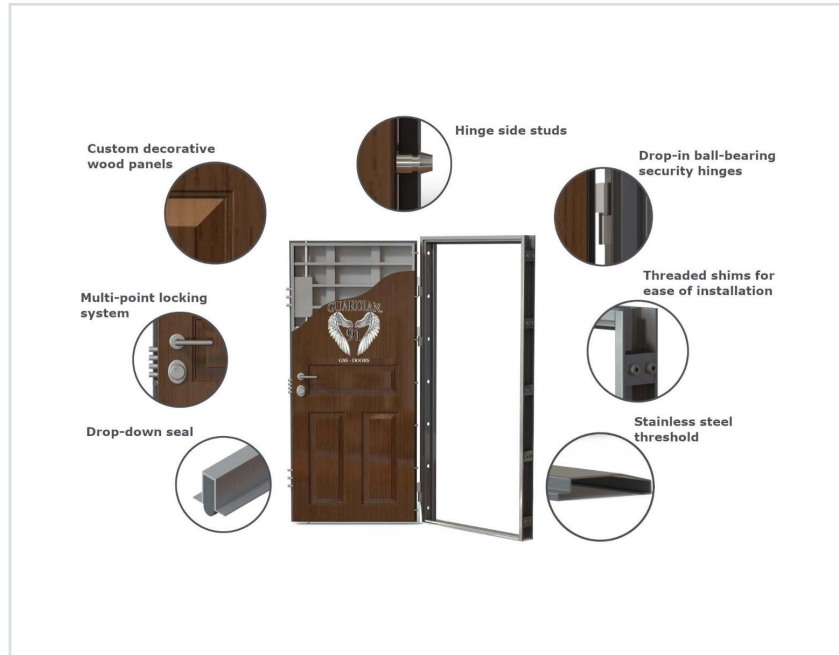
FRAME DEPTH



Reference section only. Project shop drawings control final dimensions and anchor conditions.

ASSEMBLY CONSTRUCTION

Integrated door, frame, locking, hinge, sealing, and finish components



STANDARD SECURITY COMPONENTS

ARMORED MULTI-POINT LOCK

Perimeter locking controlled from a single operating point.

MANGANESE PROTECTION

Lock cases and critical areas are protected against drilling.

SECURITY HINGES

Welded, adjustable ball-bearing hinges with hinge-side protection.

REINFORCED FRAME

12-gauge frame with protected anchorage and threaded shim adjustment.

THERMAL / ACOUSTIC CONTROL

Rock-wool insulation, perimeter gasketing, and optional drop-down seal.

STANDARD CONFIGURATION MATRIX

APPLICATION	AVAILABLE CONDITION
Interior	Flat or low-profile threshold, automatic door bottom, or no threshold where the approved configuration permits
Exterior	Sloped stainless-steel threshold; rain nose available for weather management
Architectural face	Paint-grade Tricoya, stain-grade marine plywood, natural hardwood, raised panel, or applied moulding
Security glazing	Clear, frosted, or tinted security glass; glass size and protection level subject to engineering
Hardware	High-security cylinders with compatible lever hardware and required mounting clearances

CONFIGURATION CONTROL

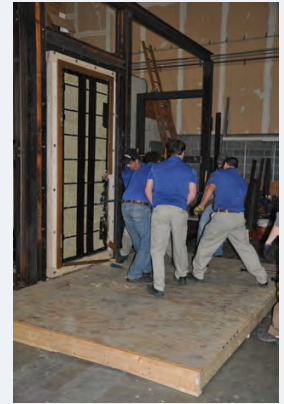
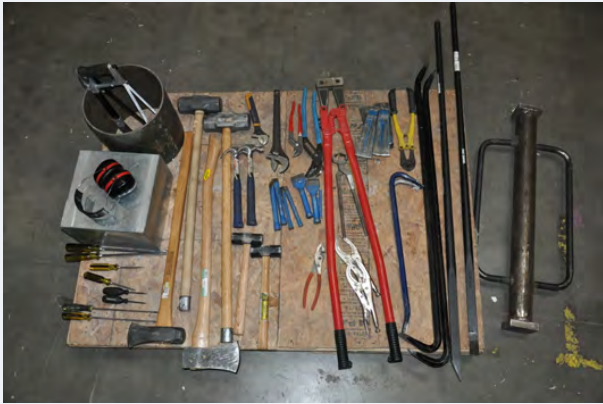
Security ratings apply to evaluated configurations. Changes to size, glazing, ballistic construction, lock type, access control, or hardware may require engineering review.

TESTING DOCUMENTATION

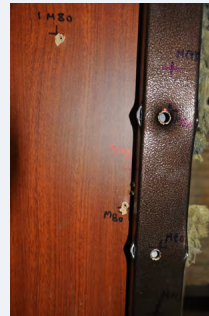
FE/15 forced-entry and Level 3 / Level 8 ballistic test records

FORCED-ENTRY EVALUATION

The Fortress Series was tested at NTS Chesapeake in Belcamp, Maryland, to the U.S. Department of State SD-STD.01.01 Rev. G FE/15 forced-entry standard. It also achieved RC4 under EN 1627 testing at IFT Rosenheim.



BALLISTIC TEST DOCUMENTATION



SUMMARY

FE/15
DoS Rev. G

RC4
EN 1627

Ballistic
Level 3 or Level
8 configurations

TESTING NOTE

Forced-entry classifications apply to the evaluated complete assembly. Ballistic construction is available in project-specific Level 3 handgun-resistant or Level 8 rifle-resistant configurations. Final rating claims and tested components must be confirmed for the specified door, frame, glazing, lock, hardware, and opening configuration.

SECURITY & ACCESS-CONTROL OPTIONS

Configuration-dependent protective and access-control systems

BALLISTIC CONSTRUCTION

Level 3 handgun-resistant and Level 8 rifle-resistant construction is available for the Fortress door-and-frame system in project-specific configurations.



FIAM X1R MULTI-POINT LOCK

Electromechanical multi-point locking with automatic locking, keypad capability, smartphone operation, and third-party access-control integration.



ISEO MULTI-READER

Keyless access by smartphone, RFID credential, PIN, or fingerprint. The reader must be paired with the FIAM X1R locking system.



ELECTRIC STRIKE

Fail-secure electric strike for access control with the standard mechanical lock. The strike releases the latch but does not operate the deadbolts.



DORMA CONCEALED CLOSER

Factory-installed Dorma ITS 96 concealed door closer for controlled closing while maintaining a clean architectural appearance.



BALLISTIC VIEWER & LOCKOUT

Level 3 or Level 8 ballistic viewers and an interior Mottura lockout function are available. The lockout blocks outside entry while engaged.



OPTION COORDINATION

Optional systems are configuration dependent. Electrical power, wire routing, credential management, reader compatibility, egress requirements, door handing, and security classification must be coordinated before fabrication. The ISEO multi-reader requires the FIAM X1R lock.

Final protection claims and tested components must be confirmed for the specified door, frame, glazing, hardware, and opening configuration.

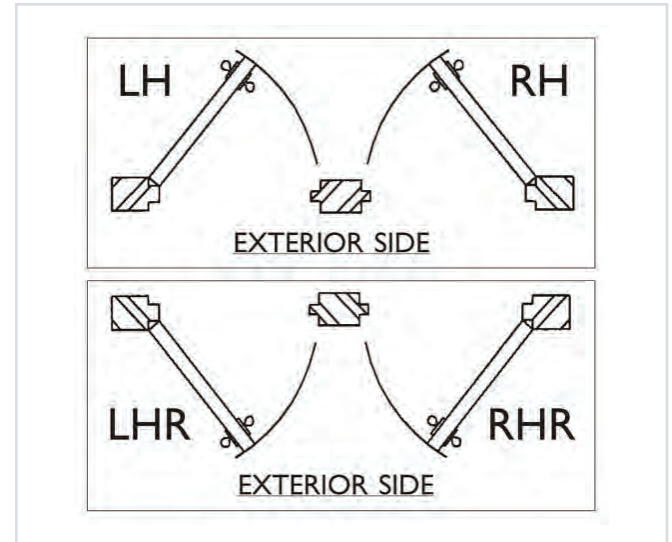
PROJECT INTERFACE REQUIREMENTS

Rough opening, wall condition, handing, threshold, and anchorage references

ROUGH-OPENING MEASUREMENTS

A WIDTH	Measure between framing at the top, middle, and bottom. Record the smallest dimension.
B HEIGHT	Measure from finished floor or planned finished-floor elevation to the underside of the header at left, center, and right. Record the smallest dimension.
C WALL THICKNESS	Measure total finished wall depth, including drywall, sheathing, cladding, and other finishes.

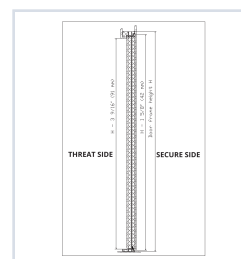
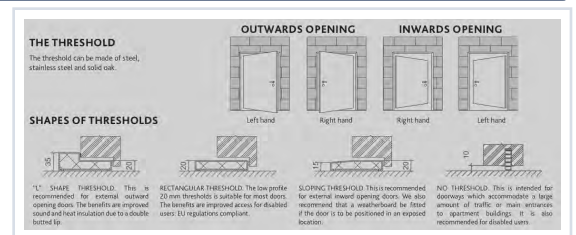
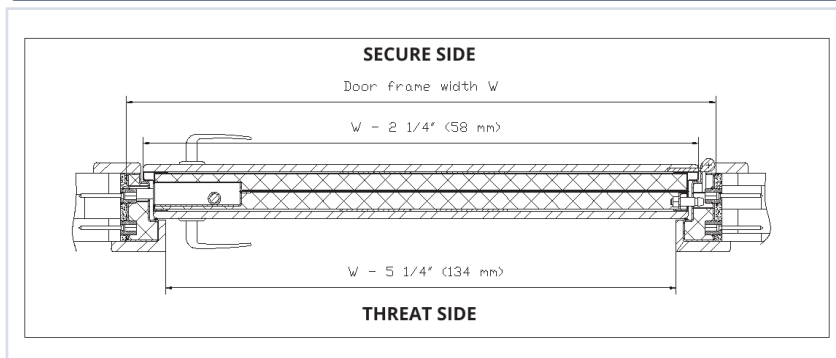
HANDING REFERENCE



PLANNING ALLOWANCES

Rough wall opening	Planning guideline: approximately 5-1/2 in. wider and 2-1/2 in. higher than the desired clear door opening
Installation clearance	Typically approximately 1/2 in. to 3/4 in. around the frame, subject to approved shop drawings
Finished floor	Verify final floor elevation and threshold transition before fabrication
Wall construction	Identify wood stud, masonry, concrete, steel framing, and complete public-to-secure-side wall build-up

SECTION & SILL REFERENCES



Installation control
Frame depth, clear
opening, anchors,
orientation, sill, and
wiring must follow
approved shop
drawings and the
installation manual.