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CORPORATE HEADQUARTERS

114 Lincoln Ave.
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PRODUCT LISTING

Reference No. TitanMetal-A-615-SecurityDetentionDoors

Status: Current

Manufacturer:

TITAN Metal Products, Inc.
1891 Wardrobe Avenue
Merced, CA 95341

Product(s):

TITAN Security and Detention Door Systems

Report:

Guardian Evaluation Report # EER-6-15-20-Z; Report Date: June 15, 2020

Standards Tested To:

Fire Ratings:

UL 10C-2016
UL 10B-2008
NFPA-252-2017
CAN/ULC-S104-2010
Fabrication Standard (frames) UL 63-2003

Security Ratings:

ASTM F1450-2019
ASTM F1577-2019
NAAMM/HMMA-863-14
UL 752 (Ballistic)
ASTM F1643-2019 (Hardware)
ASTM F1915-2019 (Glazing)

Other Reference Documents:

NFPA-80-2019
NFPA-101-2018
NFPA-105-2019
UL 1784-2015
IBC-2018



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Ratings:

NOTE: All Security Doors are vertically Stiffened Steel / hollow metal type, doors. They are min. 2" thick; as different from purely fire rated doors which are typically 1-3/4" thick. The Security doors are single swing only; as different from purely Fire rated Doors which can be single swing or straight door pair configurations. The Doorframes (Steel) should be sized accordingly.

Sizes, Ratings and other requirements.

1. All Security door assemblies described in this Listing are fire rated (20 min-3-hours) per UL-10 B (Current edition is 2/27/2008) and UL-10C-2016.
2. The Security Ratings are based primarily on the successful tests to ASTM F 1450 (current edition is 2019) and the related family of test standards.
3. The Bullet Resistance ratings are based on successful tests to UL-752 (Small Arms, level III-0.44 magnum) (Current edition is 12/11/2015).
4. Door Frame for all door assemblies is 3-Hr Fire rated per UL-63-2003. Security Ratings are not required for Door frames as they are directly attached to a Security Rated Wall.

Security Grades per ASTM F 1450-2019	Door Skin Steel Spec	Rack Load (lbf)	Static Load (lbf)	Edge Crush Load (lbf) per NAAMM/HMMA 863-87	Bullet Resistance Rating per UL-752
1	10Ga, 12 Ga	7500	14000	15000	Level III
2	12 Ga,14 Ga	7500	14000	15000	Level III
3	14 Ga, 16Ga	5500	11000	Not Reqd.	Not Reqd.
4	16 Ga	5500	11000	Not reqd.	Not Reqd.
Not Rated, Fire Rating Only	18Ga	N/A	N/A	N/A	N/A

Description: Hollow Metal Type (Steel-Faced) (10 Gauge Faces / 12 Gauge Faces / 14 Gauge Faces / 16 Gauge Faces/18 Ga Faces) (Vertically - Steel Stiffened) Swinging Flush Design Fire Door and Pressed Steel (Welded up) (12 Ga steel / 14 Ga Steel / 16 Ga) Door Frame Assembly for installation in single swing 3 hour locations in masonry walls in Detention Security Applications, where Fire Rating is required, and where restricted and/or remote controlled egress is permitted. The door assembly can be installed as door pairs where only the fire rating is needed.

Sizes Per Test Standard:

Door: Nominal 3'0" wide x 7'-0" high x 2" thick Door

Door Frame: Overall Width: 42" Overall Height: 86" with Door Opening: Max. 3'-0" wide x 7'-0" high; Min. 2" faced Door Frame (with fully welded corners); jamb width prepared for 2" thick doors; Overall door frame prepared for installation in a Concrete Block wall or masonry wall. Minimum Throat Opening: 4". Fabrication must comply with UL-63.



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Overall Assembly Size: 42" wide x 86" high

Allowed Hardware: (All hardware used must be Listed and Certified as follows: Security Rated to Grade 1 or Grade 2 of ASTM F 1450 / ASTM F 1577 and to Fire rating to 3-hours per UL 10C).

Latches/Locks: Remote Manual or Electro. -Mechanical Rotary Latch/Manual or Key- operated Latches. (e.g. Adtec's model 2124 Electro-Mechanical Lock; or equivalent)

Door (edge) Guards (Min. 16 Ga Steel)

Institutional Hinges: Min. 4-1/2" x 4-1/2" x 0.180" thick; steel; ball bearing type; (e.g. Adtec's model 5014 Fully mortised Hinges).

Door Closers: (No Security Rating needed, must be covered with 16 Ga. Steel cover, for fire door closers must have fire rating)

Food Pass Drawer: Max. Depth 2.5"; Must be fully welded, 16 Ga. Min. Steel, with frame edges welded in place overlapping the door surfaces by 1" on all sides, must be lockable from corridor side of the door.

Door Vision Panel: Not advised for Grade 1 security door assembly, but if used, per test standard, max. clear view size is 100 Sq. inches (10" x 10") (or 25" high x 4" wide where ADA compliance is required). Min. Spacing from Latch Prep is 6". Glazing must be security rated glazing per ASTM F 1915-2019.