



Rocky Mountain Metals, Inc.

Tornado Resistant Openings



Rocky Mountain Metals, Inc. offers a complete line of **certified and labeled Tornado Openings FEMA 361/ICC 500 Compliant Opening Configurations**. These openings are tested as complete assemblies including doors, frames and hardware. Initially the Rocky Mountain Metals, Inc. solutions are certified and labeled with Securitech hardware. This program is under continued development. For up to date information contact Rocky Mountain Metals, Inc.

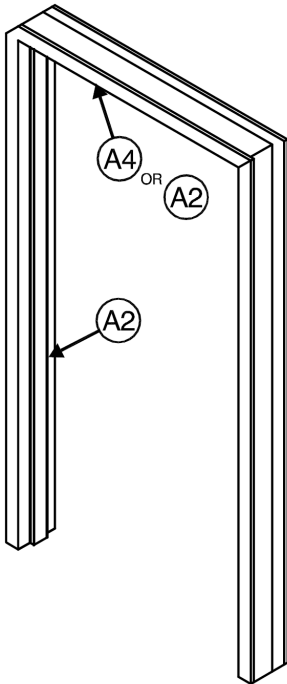
The offerings consists of openings of up to 8 ft. in width and 9 ft. in height for double doors and 4 ft. in width and 9 ft. in height for single doors.

Frame Details

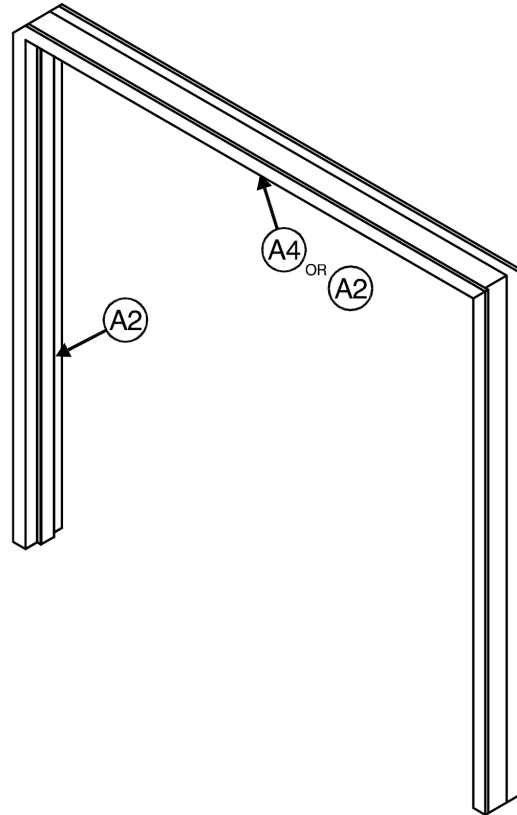
Material	Galvannealed A40 ASTM-A-653
Thickness	1 3/4 " Standard. 14 Ga. Galvannealed
Dimensions	2" jambs and 2" or 4" heads as specified
Construction	Mitered and welded face and back alternatively welded face only
Appearance	Square, true and free of defects, warp and buckle
Reinforcements	4 pcs 7 Ga. 1 1/4" x 10" joggled hinge reinforcement, drilled and tapped. Back welded for additional strength Strike and bolt preps 12 Ga. x 12" long, spot and MIG welded Strike jambs prepared for three rubber silencers, unless otherwise specified
Hardware Locations	Any specified locations
Guards	Dust covers on all frames. Mortar guards on frames for masonry walls
Anchors	5 piece wall anchors per jamb and 2 piece head anchors for 2 double doors
Spreaders	Temporary spreader bars welded to the bottom of all three sided frames. To be removed before installation
Marking	Embossed with opening numbers above the middle hinge. In the jamb for continuous hinge frames
Finish	Thoroughly cleaned and coated with a rust inhibiting primer meeting requirements as per ANSI/SDI A250 10
Options	UL labeling requirements as specified



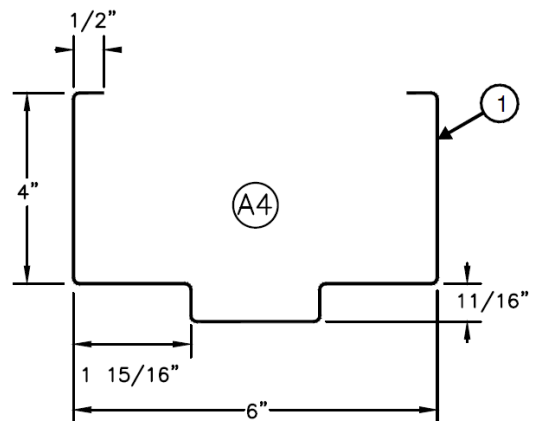
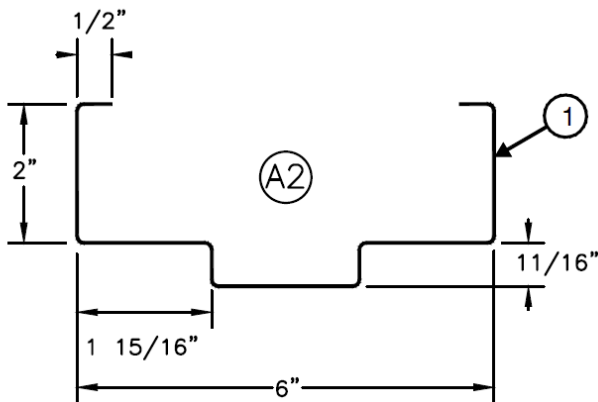
Tornado Resistant Openings—Frames



TYPICAL SINGLE HOLLOW METAL FRAME



TYPICAL DOUBLE HOLLOW METAL FRAME





Rocky Mountain Metals, Inc.

1400 Door for Tornado Resistant Openings

Face Material	Galvannealed A40 or A60 ASTM-A-653
Face thickness	14 Ga.
Construction	Hollow metal with 18 Ga. vertical steel stiffeners (ribs). Space between ribs insulated with glass wool insulation
Door thickness	1 3/4" Standard
Hardware Locations	Any specified locations
Reinforcements	7 Ga. 1 1/4" x 10" joggled hinge reinforcement, drilled and tapped 12 Ga. mortise hardware tabs, drilled and tapped 14 Ga. surface hardware and trim reinforcement, drilled and tapped
Edge reinforcement	Horizontal and vertical edges reinforced with 12 Ga. (min) full length channels spot welded to the face sheets
Vertical edges	Fully welded with no visible seam (for doors up to 10' height and 4' width)
Handing	Doors are handed
Appearance	Faces and edges free of defects, warp and buckle
Finish	Thoroughly cleaned and coated with a rust inhibiting primer meeting requirements as per ANSI/SDI A250.10
Options	UL Labeling requirements as specified

FEMA 361
FEMA 320
ICC 500-08/NSSA

