

**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.

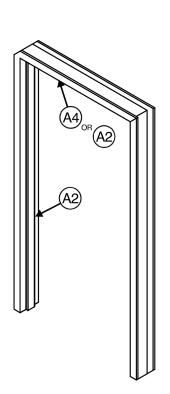
The offerings consists of openings of up to 8 ft. in width and 9 ft. in height for double doors and 4 ft. in width and 9 ft. in height for single doors.

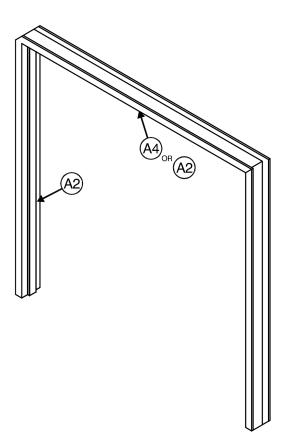
## **Frame Details**

Galvannealed A40 or A60 ASTM-A-653 14 Ga.
Hollow metal with 18 Ga. vertical steel stiffeners (ribs). Space between ribs insulated with glass wool insulation
1 3/4"
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
t Horizontal and vertical edges reinforced with 12 Ga. (min) full length channels spot welded to the face sheets
Fully welded with no visible seam (for doors up to 10' height and 4' width)
Doors are handed
Faces and edges free of defects, warp and buckle
Thoroughly cleaned and coated with a rust inhibiting primer meeting requirements as per ANSI/SDI A250.10

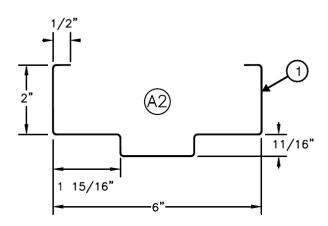


Tornado Resistant Openings—Frames

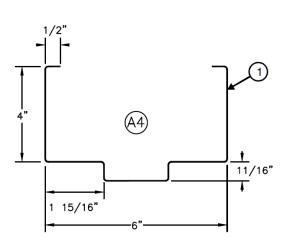




TYPICAL SINGLE HOLLOW METAL FRAME



TYPICAL DOUBLE HOLLOW METAL FRAME



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1400 Door for Tornado Resistant Openings

Face Material Face thickness Construction	Galvannealed A40 or A60 ASTM-A-653 14 Ga. Hollow metal with 18 Ga. vertical steel stiffeners (ribs). Space between ribs
Door thickness	insulated with glass wool insulation 1 3/4"
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 reinforcemen	It Horizontal and vertical edges reinforced with 12 Ga. (min) full length channels
Vertical edges	spot welded to the face sheets 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
	TEMA 301 TEMA 300 CC: 300-UBINISA
	Image: Second state of the

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5 14 GA. - CLOSED REINFORCEMENT 4" X 24" FLAT 6 14 GA. AT LOCK SIDE 4" X VARIES FLAT

8 4 - 4-1/2" HEAVY WEIGHT BALL BEARING.

(9) CONTINUOUS EDGE WELD. 100% PENETRATION. FIRST RIB LOCK EDGE 7" IN SET/OTHER 6" ON CENTER

TOP OF DOOR 14 GA INVERTED/12 GA FLUSH. TOP 3/8" HOLES WELDED AND STITCH WELDED.

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