

Model 3100



Last updated: 05.14.10

Part 1- GENERAL

1.01 DESCRIPTION-

- 1.01.01 Type: Continuous sheet rolling door Model 3100 as manufactured by Janus International, Temple, GA. Available in sizes up to 16'0" x 20'0".
- 1.01.02. Mounting: To be interior or exterior face mounted on a prepared jamb on steel, concrete or filled block surface.
- 1.01.03. Related Work: Preparation of opening, miscellaneous or structural steel, iron work, access panels, master keying cylinders, finish or field painting, electrical wiring, conduit, disconnecting switches are in the scope of the work of other sections or trades.

1.02 QUALITY ASSURANCE- Qualifications of Manufacturer: Products utilized in this section shall be manufactured by an organization who regularly engages in the production of similar products and has a proven history of successful manufactured products acceptable to the Architect, such as Janus International Corporation.

1.03 GUARANTEE- All doors and components specified herein shall be guaranteed to be free of workmanship and defect for a period of 1 year.

1.04 CERTIFIED WINDLOAD RATING - Through 12'0" opening width, design wind load rating is +36.0 / - 41.0 PSF. Over 12'0" through 16'0" opening width, design wind load rating is + 35.0 /-38.0 PSF. Rates valid on opening heights through 20'0". (Consult Janus for specific applications.)

Part 2- PRODUCT

2.01 CURTAIN—

- 2.01.01 Sheets: Continuous 20" corrugated sheets roll formed from 26 gauge ASTM A653 Grade 80 full hard steel and lock seamed together. Reinforced with 12 gauge wind locks spaced on alternating corrugations and attached with rivets.
- 2.01.02 Finish: Galvanized and pre-painted with Super Durable Polyester paint guaranteed with a 40 year film integrity warranty to not crack, peel, flake, split, delaminate or blister. Additional guarantee up to 25 years against fading or changing color based on color chosen.
- 2.01.03 Bottom Bar: Roll formed clear acrylic coated galvanized steel reinforced with a 2" x 1-1/2" - 12 gauge galvanized angle that extends fully into the guides.
- 2.01.04 1-1/2" wide nylon strips attached on each end of both the front and back of the curtain to control stretch and reduce wear.
- 2.01.05 Wind locks: Made of 11 gauge galvanized steel spaced every other corrugation through 12'0" opening widths. Over 12'0" through 16'0" opening width, spaced at every corrugation. Excludes seamed corrugation for all widths.

2.02 WEATHERSTRIPPING—

- 2.02.01 Black PVC bulb-type astragal affixed to the bottom bar assembly provides positive contact with the floor.
- 2.02.02 (Optional) Side draft stop attaching to guide leg.
- 2.02.03 (Optional) Black flexible neoprene top draft stop with 2" lip attached to curtain.
- 2.02.04 (Optional) 4" Header seal attached to header.

2.03 BARREL ASSEMBLY— Galvanized coil steel fabricated in a 12" diameter spiral formation to enclose spring counterbalance system and provide full span curtain weight support. Attached galvanized drums are furnished with grease-filled, shielded radial ball bearings at rotating points around the axle.

2.04 SPRING COUNTERBALANCE— Factory lubricated, oil tempered, helical torsion springs located inside the barrel made of wire conforming to ASTM A229. Springs are attached the steel axle tube by means of a welded spring clip. Axle tube provided is sufficient size to carry curtain load and spring torque. Spring cycle life of 15,000.

2.05 SUPPORT BRACKETS— Galvanized and reinforced one-piece 12 gauge formed steel brackets.

2.06 SPRING TENSIONER— External mounted cam action tension retaining device allows for field adjustment of spring tension on all springs.

2.07 GUIDE ASSEMBLY— Universal mounted guides rolled formed from 12 gauge galvanized steel. 3" guide depth furnished for sufficient curtain engagement with 12 gauge wind load bar. Removable galvanized door stop at the top of each guide.

2.08 OPERATION—

- 2.08.01 Universal 5.7:1 cast iron reduced drive hand operated chain hoist furnished for all doors.
- 2.08.02 (Optional) Electric operator (furnished by vendor) with electric 72 tooth sprocket operator kit for door adaptation.

2.09 LOCKING MECHANISM—Dual steel bottom bar slide locks suitable for pad locks (provided by others) mount to the inside angle of the bottom bar. Chain keeper guide mounted to wall for chain operation doors.

2.10 HOOD (Optional) — Fabricated from 20 gauge steel and reinforced with end caps and roll formed edges. Manufactured square.

2.11 FINISH—Non-galvanized surfaces, excluding axle tube, to consist of shop coat of rust inhibitor primer.

Part 3- EXECUTION

3.01 INSTALLATION— To be performed by an authorized Janus representative or professional door installer in accordance with the Janus International installation standards, instructions and recommendations.

HEAD ROOM REQUIREMENTS

Opening Height	Vertical Headroom	Horizontal Headroom
Thru 8'0"	17"	19"
Over 8'0" thru 10'0"	19"	21"
Over 10'0" thru 14'0"	20"	22"
Over 14'0" thru 16'0"	21"	23"
Over 16'0" thru 18'0"	22"	24"
Over 18'0" thru 20'0"	23"	25"

SIDE ROOM REQUIREMENTS

Operation	Guide	Outside of Bracket Tensioner End	Outside of Bracket Drive End	Outside of Hand Chain Drive	Each End of Axle
Push Up	4-1/4"	5-7/8"	5-7/8"	---	8-3/4"
Reduced Drive Chain	4-1/4"	5-7/8"	6-5/8"	8-1/8"	8-3/4"
**Electric	4-1/4"	5-7/8"	7-3/8"	---	8-3/4"

*Vertical head room: the space above the clear opening on the same face of wall (header).

*Horizontal head room: the amount of space required off of the wall to which the door is fastened.

*Side room: the amount of space required on each side away from the opening along the face of the wall.

**Excludes electric operation.