



THIS ROLL-UP DOOR SYSTEM HAS BEEN SUCCESSFULLY TESTED ACCORDING TO THE UNIFORM STATIC AIR PRESSURE TEST PER ANSI/DASMA 108, THE LARGE MISSILE IMPACT TEST AND THE CYCLIC WIND PRESSURE LOADING TEST PER ANSI/DASMA 115, IN AN INDEPENDENT TESTING LAB CONFORMING TO TAS 301-94.

- DESIGN LOAD = +40.0 PSF AT 14" WIDE
-40.0
- WIND LOADS FOR BUILDING OPENINGS SHALL BE DETERMINED BY A PROFESSIONAL ENGINEER USING APPROPRIATE WIND SPEED AND DESIGN CRITERIA. THIS DOOR MAY BE USED WHERE THE DESIGN LOAD MEETS OR EXCEEDS THE DESIGN LOAD FOR THE BUILDING OPENING.
- SUPERIMPOSED LOADS ON THE JAMBS FROM THIS DOOR ARE DESIGNED AS V_x AND V_y HEREIN. CONTRACTORS SHALL VERIFY ADEQUACY OF BUILDING STRUCTURE TO RESIST SUPERIMPOSED LOADS V_x , V_y .
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH A.W.S. SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO A.W.S. A5.1 GRADE E-70.
- DOORS SHALL BE PROVIDED WITH LOCK MECHANISMS AT THE OPTION OF THE OWNER.
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI.
- DESIGN BASED ON UNDERWRITER LABORATORIES TEST REPORT NO. SV30743-20180723-Report
- ANCHOR NOTES:
 - EMBEDMENT LENGTH DOES NOT INCLUDE STUCCO FINISH.
 - FOR HOLLOW MASONRY, FILL ALL CELLS @ ANCHOR WITH 2000 PSI MINIMUM GROUT.
 - ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
 - 2500 PSI MINIMUM CONCRETE FOR CONCRETE JAMBS.
- DOOR OPERATION TYPE TO BE PUSH-UP, HAND CHAIN, OR ELECTRIC.
- GUIDE TO JAMB ATTACHMENT FASTENERS BEGIN 4" FROM FLOOR AND 4" BELOW TOP OF THE WALL OPENING.
- TEST DOOR WALL OPENING SIZE: 14' - 0" X 10' - 0".

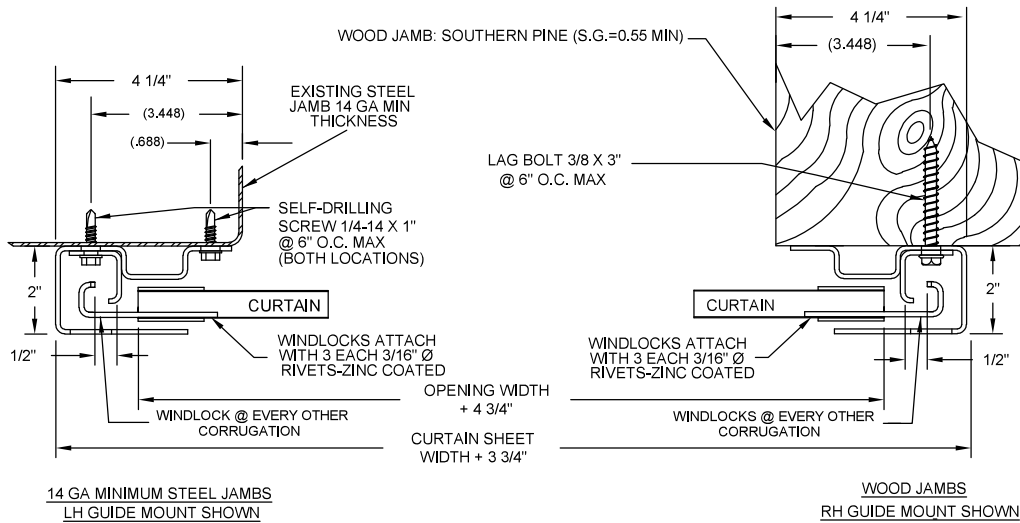
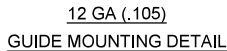


Diagram illustrating the Door Mounting Bracket Detail, showing a side view of the bracket assembly mounted on a wall.

Dimensions:

- Horizontal dimension: 14.500
- Vertical dimension: 9.821

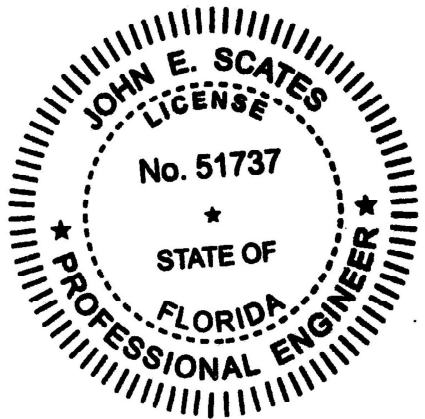
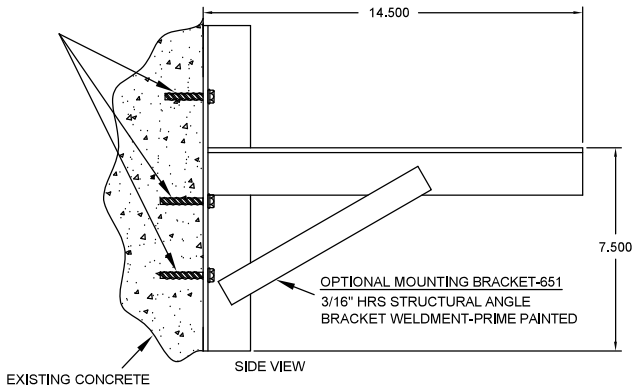
Labels and Callouts:

- EXISTING CONCRETE (pointing to the wall structure)
- STANDARD MOUNTING BRACKET (pointing to the bracket assembly)
- ASTM A653 WITH $F_y = 37$ KSI GALV. STEEL IN ACCORDANCE WITH ASTM A653 G90 (specification for the bracket material)
- SIDE VIEW (orientation label)

Notes:

THREE 3/8" DEWALT SCREW-BOLT+ W/ 1-1/2" MIN. EMBEDMENT IN CONCRETE OR THREE 3/8" STEEL THRU BOLTS INTO MIN. 1/8" STEEL. IF EXISTING IS MASONRY, FILL CELL W/ 2000 PSI GROUT.

Section Title: DOOR MOUNTING BRACKET DETAIL



Professional Engineer's seal provided only for
verificaiton of windload construction details.

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES LISTED BELOW.						UNIT OF MEASURE:								CERTIFIED WIND LOAD RATED 26 GA. SERIES 3100 / 3100-IM DOOR ASSEMBLY																											
						APPROVALS		DATE																																	
						DRAWN:		SCOTT ROBILLARD		04-24-18																															
<table><tr><th>DECIMAL</th><th>FRACTIONS</th><th>ANGLES</th><th colspan="3">HOLE DIAMETERS</th></tr><tr><td>X.XX</td><td>+/-0.030"</td><td>+/-1/16"</td><td>+/- 0° 30'</td><td>UNDER 0.251</td><td>+ 0.004 - 0.003</td></tr><tr><td>X.XXX</td><td>+/-0.005"</td><td></td><td></td><td>0.251 - 0.500</td><td>+ 0.006 - 0.003</td></tr><tr><td></td><td></td><td></td><td></td><td>OVER 0.500</td><td>+ 0.008 - 0.003</td></tr></table>						DECIMAL	FRACTIONS	ANGLES	HOLE DIAMETERS			X.XX	+/-0.030"							+/-1/16"	+/- 0° 30'	UNDER 0.251	+ 0.004 - 0.003	X.XXX	+/-0.005"			0.251 - 0.500	+ 0.006 - 0.003					OVER 0.500	+ 0.008 - 0.003	CHECKED:		CURT SCHROEDER		04-24-18	
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John E. Scates, Professional Engineer

office (972) 492-9500 | fax (972) 492-0077

August 14, 2019

Janus International
135 Janus International Blvd
Temple, GA 30179

Re: Janus Series 3100/3100-IM Rolling Doors

To Whom It May Concern:

At the request of Janus International, I have reviewed the drawings and tests listed below. The tests were conducted by Underwriters Laboratories according to ANSI/DASMA 108 and 115 test procedures. The pressures listed on the drawings are direct results of these tests or conservative engineering rational analysis from the actual tests, except that no extrapolation of impact pressures were used. I have concluded that the construction shown on these drawings comply with the structural requirements of the 6th Edition (2017) Florida Building Code. I certify that I meet the requirements of "independence" as detailed in Florida Statutes.

Drawings

T1015-RevB	Series 3100/3100-IM Door Assembly,	+40.0 / -40.0 PSF
T1016-Rev-	Series 3100/3100-IM Door Assembly,	+42.5 / -45.0 PSF

Test Report

Test Reports

<u>Drawing</u>	<u>UL Test Report</u>	<u>Test Date</u>
T1015	SV30743-20180723 (14x8)	07-23-2018
T1016	SV30743-20190716 (16x10)	07-16-2019

The test facility was located at:

UL LLC
750 Anthony Trail
Northbrook, IL 60062

The test reports were signed by an authorized representative of UL LLC, and a Florida P.E.

Test Methods

Static Pressure:

The 14x8 door was tested for Static pressure per ANSI/DASMA 108-2012.

The 16x10 door was tested for Static pressure per ANSI/DASMA 108-2017.

All tests were conducted in a manner that was compatible/equivalent to 108-2005, 108-2012 and 108-2017.

Impact and Cycling:

The 14x8 door was tested for Impact and Cycling per ANSI/DASMA 115-2012.

The 16x10 door was tested for Impact and Cycling per ANSI/DASMA 115-2017.

All tests were conducted in a manner that was compatible/equivalent to 115-2005, 115-2012 and 115-2017.

Calculations

The loads applied to the jambs by the door via direct pressure and end-tension catenary forces were computed using industry standard methods. These results are shown as "Vx" and "Vy" on sheet 2 of each drawing.

For locations requiring Impact:

- Doors less than the tested width are allowed, but carry the same psf rating as the tested product.
- Doors wider than tested width (14' for T1015, 16' for T1016) are not approved in locations requiring impact.

For locations *not* requiring Impact:

- Doors other than tested width may have a higher or lower psf rating based on rational analysis using industry-standard calculation methods. The psf rating was determined wherein the end tension, jamb loads, and curtain bending stress are limited to the values computed for the tested width and pressure. A table on the drawing lists these additional widths.

Installation

Anchorage Requirements:

The door drawing includes means to attach the door to the building structure as detailed on Sheet 2. Mounting to steel, concrete, filled-CMU, and wood were all tested.

This Evaluation Report does not address design of the wall/jambs themselves, but provides the anticipated jamb loads that will be generated by this product, Vx and Vy, also illustrated on Sheet 2.

Model Description

This Evaluation is for Series 3100 and 3100-IM Rolling Doors by Janus International.

Series **3100-IM** is **Impact-rated**, wherein no rational analysis was allowed.

Series **3100** is the same construction, but for **non-impact** applications.

All doors consist of a corrugated steel sheet curtain suspended from a drum roller. The curtain is suspended from a drum roller. Coiling around the drum raises the curtain. The sides of the curtain are constrained from lateral movement along their vertical edges by steel guides that are attached to the door jambs. This constraint provides resistance to wind forces. The wind forces are transferred from the curtain to the guides and then through the attachment elements to the door jamb.

Door curtains have a thickness of 26 gage (min. 0.016 in.) and are made of ASTM A653 structural steel, grade 80, pre-painted, galvanized steel with a full coat of primer and baked siliconized polyester finish coat. The corrugated sheets are interlocked mechanically to form the curtain. Lap splices are at approximately 20 inches on center vertically in the installed door. The corrugation height is approximately 5/8 inches and the corrugation pitch is 3.25 inches. Style variations include door width, windlocks, and wind load rating.

Windlocks are attached with three rivets at every other corrugation of the sheet at approximately 6-1/2" spacing.

Limitations

The drawing cited above is an explicit part of this evaluation report. The text of this report does not attempt to address all design details, but relies upon the illustrations and text of these drawings and instructions as well.

Each door should be chosen based on the "psf" requirement determined for a specific installation or locale.

The maximum opening width approved with this report is 16' for IMPACT (Dwg T1016).

The maximum opening width approved with this report is 20' for NON-IMPACT.

The maximum door height for is 20'-0" nominal.

The user of this product is reminded that rolling doors can generate substantial catenary forces at the jambs ("Vx"). The building jambs must be designed to withstand these loads in combinations of Vx with Vy(+), and Vx with Vy(-) shown on sheet 2 of the drawings.

These doors have been tested and evaluated for impact. However, they are not being offered for use in the Florida High Velocity Hurricane Zone (HVHZ).

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John E. Scates, P.E.
FL PE #51737

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