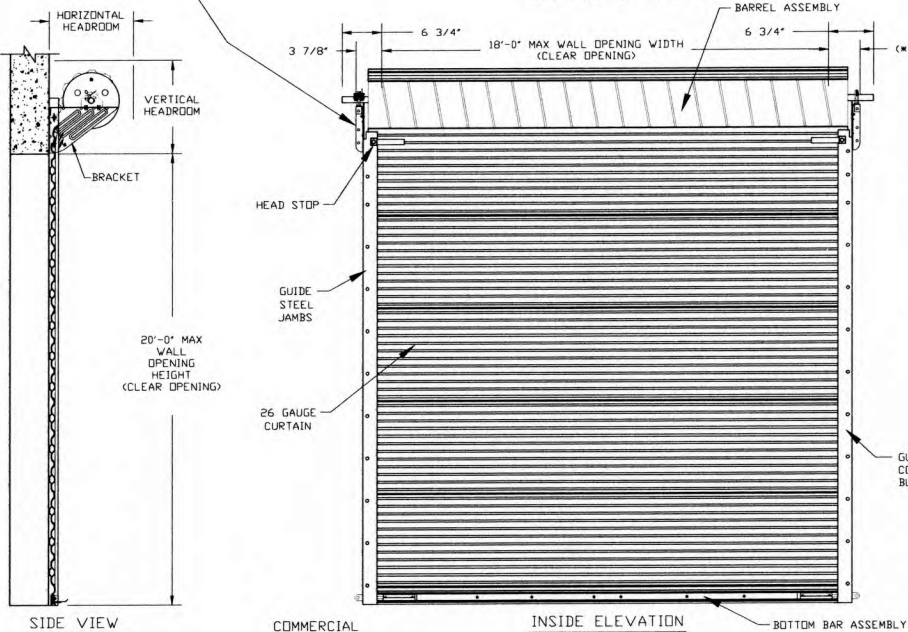


BRACKET ATTACHMENT
 CONCRETE/FILLED BLOCK POWERS WEDGE-BOLT, 3/8 X 1 3/4" LONG
 STEEL HEX BOLT, GR 5, 3/8-16 X 1 1/4" LONG OR 3/8-16 X 1" HW
 TYPE 23 THREAD-CUTTING SCREW

(*) FOR PUSH-UP OPERATION: 3 7/8"
 FOR HAND CHAIN OPERATION: 4 5/8"
 FOR ELECTRIC OPERATION: 5 3/8"
 FOR OUTSIDE OF CHAIN DRIVE: 6 1/8"
 NOTE: RIGHT SIDE DRIVE SHOWN



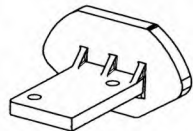
SIDE VIEW

COMMERCIAL WINDLOCK

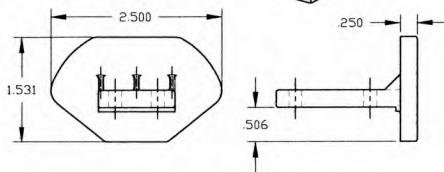
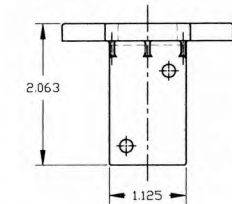
INSIDE ELEVATION

BOTTOM BAR ASSEMBLY

MATERIAL:
 BLACK NYLON
 TYPE 6/6



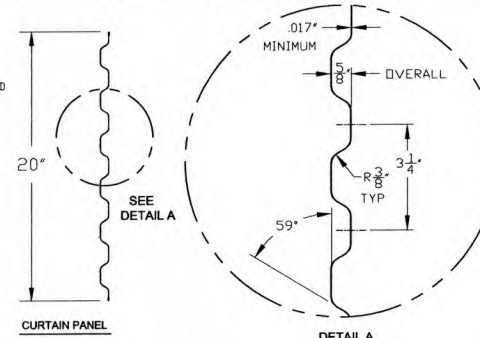
SMALL MOUNTING PLATE
 INSTALL ON BOTH JAMBS FOR
 BRACKET ATTACHMENT TO STEEL
 JAMBS OF METAL BUILDINGS



SEE SHEET 2 FOR NOTES

HEADROOM REQUIRED		
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"

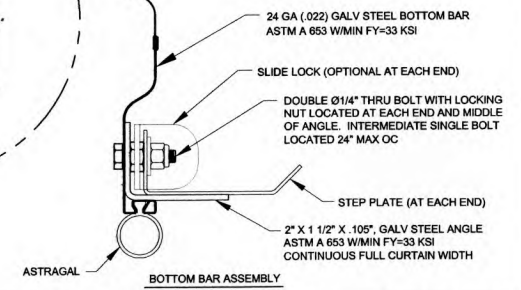
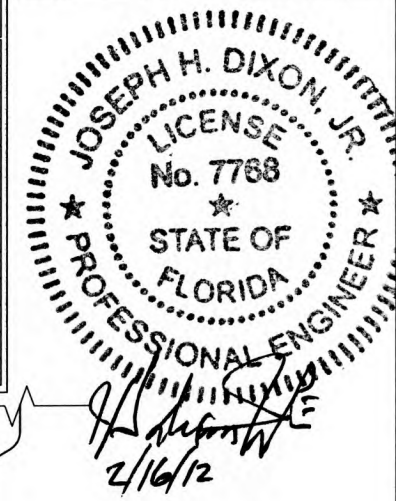
ALLOWABLE TRANSVERSE DESIGN WIND LOADS (PSF)			
MAX DOOR WIDTH	MAX DOOR HEIGHT	DESIGN LOAD POSITIVE (PSF)	DESIGN LOAD NEGATIVE (PSF)
6'-0"	20'-0"	72.9	79.2
7'-0"	20'-0"	72.9	79.2
8'-0"	20'-0"	72.9	79.2
9'-0"	20'-0"	56.4	61.7
10'-0"	20'-0"	51.6	56.8
11'-0"	20'-0"	42.6	47.1
12'-0"	20'-0"	36.0	40.0
13'-0"	20'-0"	31.0	34.5
14'-0"	20'-0"	27.0	30.2
15'-0"	20'-0"	23.9	26.8
16'-0"	20'-0"	21.3	23.9
17'-0"	20'-0"	19.2	21.6
18'-0"	20'-0"	17.4	19.6



ASTM A 653 GR 80 ZINC COATED STEEL
 PRE-PAINTED WITH FULL COAT OF PRIMER AND
 BAKED SILICONIZED POLYESTER FINISH COAT

26 GA CURTAIN DETAIL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
—	DRAWING RELEASE	1-31-03	DM
A	ADDED 'T' BRACKET OPTION	01-23-12	CS



BOTTOM BAR ASSEMBLY

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE:

DECIMAL	FRACTIONS	ANGLES	HOLE DIAMETERS
.XX ±.03	± 1/16	± 0° 30'	UNDER .251 +.004 -.003
.XXX ±.005			.251 to .500 +.006 -.003
			OVER .500 +.008 -.003

PART NUMBER:	NA
MATERIAL:	NA
APPLIED FINISH:	NA
UNIT OF MEASURE:	NA
APPROVALS	DATE
DRAWN: BECKY NELSON	2-1-11
CHECKED: DON MILLS	2-21-11
APPROVED: DON MILLS	2-21-11

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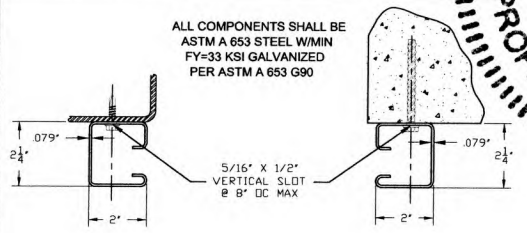
CERTIFIED WIND LOAD RATED
 26 GA SERIES 3652 DOOR ASSEMBLY
 MAX SIZE 18'-0" X 20'-0"

DRAWING NUMBER: **T1014**

SCALE: NONE SHEET: 1 OF 2

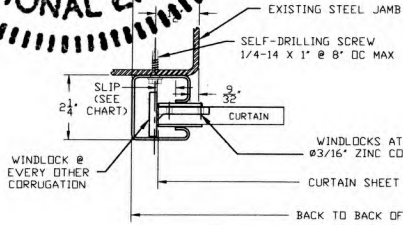


ALL COMPONENTS SHALL BE
ASTM A 653 STEEL W/ MIN
FY=33 KSI GALVANIZED
PER ASTM A 653 G90

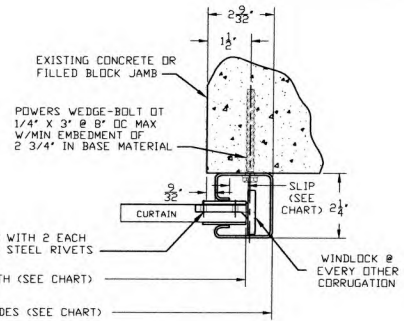


GUIDE MOUNTED TO
STEEL JAMBS
USING 1/4-14 X 1\"/>

GUIDE MOUNTED TO
CONCRETE/FILLED BLOCK JAMBS
USING 1/4\"/>



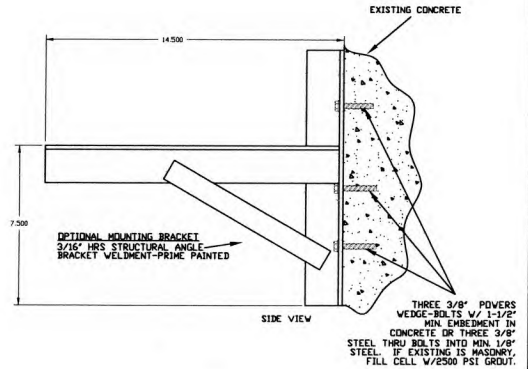
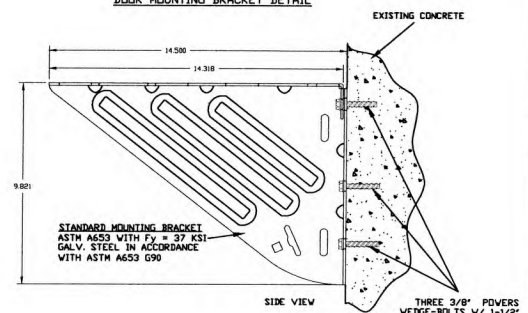
STEEL JAMBS
LH GUIDE MOUNT SHOWN



CONCRETE/FILLED BLOCK JAMBS
RH GUIDE MOUNT SHOWN

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
—	DRAWING RELEASE	1-31-03	DM
A	ADDED 'T' BRACKET OPTION	01-23-12	CS

DOOR MOUNTING BRACKET DETAIL



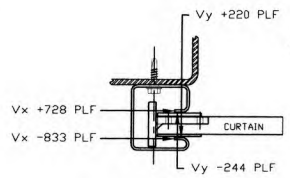
GENERAL NOTES

- THIS ROLL-UP DOOR SYSTEM IS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND THE INTERNATIONAL BUILDING CODE. THE REQUIRED DESIGN WIND PRESSURES FOR A DOOR IN ANY PARTICULAR BUILDING SHALL BE DETERMINED IN ACCORDANCE WITH SECTION 1609 OF THE FBC. IN CODE JURISDICTIONS OUTSIDE OF FLORIDA, REQUIRED DESIGN WIND PRESSURES MAY BE DETERMINED IN ACCORDANCE WITH SECTION 1609 OF THE FBC OR WITH THE LOCAL BUILDING CODE IN EFFECT FOR THE SPECIFIC LOCATION.
- THIS ROLL-UP DOOR HAS BEEN SUCCESSFULLY TESTED ACCORDING TO THE UNIFORM STATIC AIR PRESSURE TEST PER ASTM E 330 AND ANSI/DASMA 108 TO SAFELY RESIST A POSITIVE AND NEGATIVE WIND LOAD AS NOTED BELOW. A TEST LOAD OF 1.5 X DESIGN LOAD HAS BEEN USED.

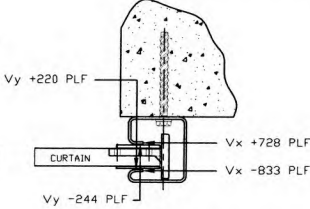
DESIGN LOAD = +36.0 PSF
-40.0 PSF

- 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 Vx AND Vy HEREIN. CONTRACTORS SHALL HAVE BUILDING ENGINEER VERIFY ADEQUACY OF BUILDING STRUCTURE TO RESIST SUPERIMPOSED LOADS Vx, Vy.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS, LATEST EDITION. ALL WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 GRADE E-70.
- DOORS MAY 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 CERTIFIED TESTING LABORATORIES, INC., TEST REPORT NO. CTLA 2058W DATED FEBRUARY 17, 2011. (STATIC PRESSURE)

OPENING WIDTH	SLIP	CURTAIN SHEET WIDTH	BACK TO BACK OF GUIDES
≤7'-0"	3/8"	OPENING WIDTH + 2 3/16"	CURTAIN SHEET WIDTH + 2 3/8"
>7'-0" ≤9'-0"	1/2"	OPENING WIDTH + 2 7/16"	CURTAIN SHEET WIDTH + 2 1/8"
>9'-0" ≤18'-0"	21/32"	OPENING WIDTH + 2 3/4"	CURTAIN SHEET WIDTH + 1 13/16"



STEEL JAMBS
LH GUIDE MOUNT SHOWN



CONCRETE/FILLED BLOCK JAMBS
RH GUIDE MOUNT SHOWN

SUPERIMPOSED LOAD DIAGRAM

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE:

DECIMAL	FRACTIONS	ANGLES	HOLE DIAMETERS
.XX ±.03	± 1/16	± 0° 30'	UNDER .251 +.004 -.003
.XXX ±.005			.251 to .500 +.006 -.003
			OVER .500 +.008 -.003

PART NUMBER:	NA
MATERIAL:	NA
APPLIED FINISH:	NA
UNIT OF MEASURE:	NA
APPROVALS:	DATE
DRAWN:	2-1-11
CHECKED:	2-21-11
APPROVED:	2-21-11

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CERTIFIED WIND LOAD RATED
26 GA SERIES 3652 DOOR ASSEMBLY
MAX SIZE 18'-0" X 20'-0"

SIZE: **B** DRAWING NUMBER: T1014 REV: A
SCALE: NONE SHEET: 2 OF: 2

- GUIDE TO JAMB ATTACHMENT FASTENERS IN WALL OPENING AREA BEGIN 4' FROM FLOOR AND END 4' BELOW THE TOP OF WALL OPENING.
- TEST DOOR WALL OPENING SIZE: 12'-0" X 8'-0".

February 21, 2011
Rev. 2/15/12

EVALUATION REPORT No.: ER-11-0004-R

Reference No.: 31004_32003

Product: Exterior Doors – Roll-Up Exterior Door Assemblies
Series 3652

Manufacturer: Janus International Corporation
134 Janus International Blvd.
Temple, GA 30179-4435

Statement of Compliance:

The Rolling Doors, Series 3652 described in this report were evaluated to be in compliance with the 2010 Florida Building Code. The doors are, for the purpose intended, at least equivalent to that required by the Code when manufactured and installed as described below.

Description of the Product:

All doors consist of a corrugated steel sheet curtain 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 lateral wind forces. The guide configuration used for this series is a cold-formed steel channel section, 0.079" thick with a minimum yield strength of 33 ksi. The lateral wind forces are transferred from the curtain to the guides and then through the attachment elements to the door jamb. The door jambs are part of the main wind frame resisting system and usually are constructed of steel, concrete, or concrete masonry units.



JH Dixon Jr
2/16/12

Series 3652

Door curtains have a thickness of 26 gage 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 in. Style variations include door width, and wind load rating. Maximum door opening height is limited to 20'-0". The door is described in detail on drawing T1014. The test was conducted on a door with a 12'-0" opening width. Design wind loads were calculated for opening widths of 6'-0" to 18'-0" using comparative analyses with the test door. All doors shown on drawings T1014 have windlocks.

Design Wind Loads

Maximum door widths and heights are shown in Table 1. The pressures shown in Table 1 are the maximum allowable design wind load values.

Drawings

The Door Series covered by this report is described in detail on the following Janus International Corporation drawing:

Drawing T1014: 6'-0" wide through 18'-0" wide, maximum opening height 20'-0", sheets 1 and 2 of 2, dated 02/21/11, rev. A, 1/23/12

Technical Documentation:

All testing was done at Certified Testing Laboratories, Orlando, Florida. The test was conducted following the procedures of ASTM E330-02, Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference. The test also complied with ANSI/DASMA 108-05, Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance Under Uniform Static Air Pressure Difference. The following test report, signed and sealed by R. Patel, P.E. covers doors contained in this report:

- Test Report No.: CTLA-2058W, date: February 17, 2011
12'-0" wide x 8'-0" high, +36 / -40 psf design pressure

Calculations prepared by Joseph H. Dixon, Jr. P.E.:

- Calibration calculations for 12'-0" wide test door, 2 pages
- Tabulated design wind loads for various width doors, 6'-0" to 18'-0" wide. 1 page

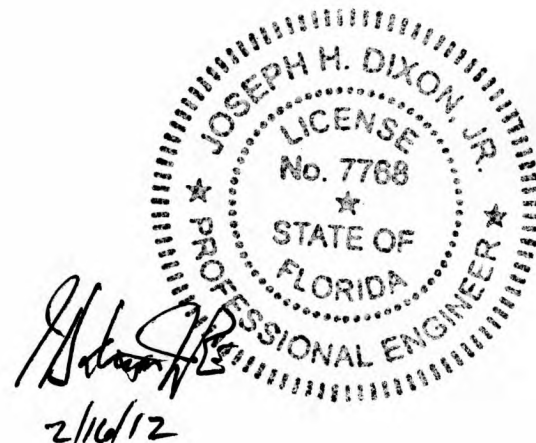


TABLE 1
Allowable Transverse Design Wind Loads (psf)

Series	Max. Door Width	Max. Door Height	Drawing Number	Design Load Positive	Design Load Negative
3652	6'-0"	20'-0"	T1014	72.9	79.2
3652	7'-0"	20'-0"	T1014	72.9	79.2
3652	8'-0"	20'-0"	T1014	72.9	79.2
3652	9'-0"	20'-0"	T1014	56.4	61.7
3652	10'-0"	20'-0"	T1014	51.6	56.8
3652	11'-0"	20'-0"	T1014	42.6	47.1
3652	12'-0"	20'-0"	T1014	36.0	40.0
3652	13'-0"	20'-0"	T1014	31.0	34.5
3652	14'-0"	20'-0"	T1014	27.0	30.2
3652	15'-0"	20'-0"	T1014	23.9	26.8
3652	16'-0"	20'-0"	T1014	21.3	23.9
3652	17'-0"	20'-0"	T1014	19.2	21.6
3652	18'-0"	20'-0"	T1014	17.4	19.6

Design values used for the tests are shown in the boxed shaded values.

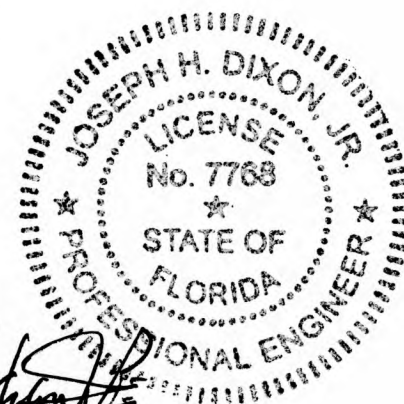
Maximum test load was 150% of design load.

Unshaded design wind loads were determined by comparative analyses using test results.

Installation Requirements:

Installation requirements are described in the Janus International Corporation Installation Instructions as follows:

- Door Installation Instructions, Series 3652, dated 2/21/11, 9 pages



J. H. Dixon, Jr.
2/16/12

Limitations and Conditions of use:

The use of any door is limited to buildings for which the design wind loads for wall components and cladding, determined in accordance with Section 1609 of the 2010 Florida Building Code, do not exceed the rated design wind loads of the door as shown in Table 1.

The maximum width and height limitations are shown in Table 1.

Doors are to be assembled as shown on the appropriate drawing referenced above, and the doors are to be installed in accordance with the installation instructions referenced above.

Door manufacturing is limited to those plants that have met the 2010 Florida Building Code Product Approval quality assurance requirements.

The doors covered by this report are not for use in the Florida High-Velocity Hurricane Zone.

Certification of Independence:

I, Joseph H. Dixon, Jr., certify that I am self-employed and operate as an independent contractor providing professional engineering services. I have no financial interest in nor will I acquire any financial interest in any company manufacturing or distributing products for which evaluation or validation reports have been issued by me.

Likewise, I have no financial interest in nor will I acquire any financial interest in any other entity involved in the approval process of those products for which I have issued reports.



Joseph H. Dixon, Jr. P.E.

