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Product Approval
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 Application Detail

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FL #	FL14444-R4								
Application Type	Revision								
Code Version	2020								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
Product Manufacturer	Rolling Door Industries, LLC								
Address/Phone/Email	8214 NW 64th St Miami, FL 33166 (305) 599-9977 mail@rolling-door.com								
Authorized Signature	Ernesto Rodriguez mail@rolling-door.com								
Technical Representative									
Address/Phone/Email									
Quality Assurance Representative									
Address/Phone/Email									
Category	Exterior Doors								
Subcategory	Roll-Up Exterior Door Assemblies								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received								
Florida Engineer or Architect Name who developed the Evaluation Report	Walter A. Tillit Jr., P.E.								
Florida License	PE-44167								
Quality Assurance Entity	National Accreditation and Management Institute								
Quality Assurance Contract Expiration Date	12/31/2021								
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	FL14444 R4 COI ROLLING DOORS INDUSTRIES COI 20-212.pdf FL14444 R4 COI ROLLING DOORS INDUSTRIES COI 20-213.pdf FL14444 R4 COI ROLLING DOORS INDUSTRIES COI 20-214.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>								
TAS 201	1994								
TAS 202	1994								
TAS 203	1994								
Equivalence of Product Standards									
Certified By									
Sections from the Code									

Product Approval Method

Method 1 Option D

Date Submitted 10/06/2020
 Date Validated 10/08/2020
 Date Pending FBC Approval 10/23/2020
 Date Approved 12/15/2020

Summary of Products

FL #	Model, Number or Name	Description
14444.1	14'-2" MAX. WIDE 24 GAGE SLAT ROLL UP DOOR	COLD FORMED SLATS INTERLOCKED TOGETHER AND RETAINED BY TRACKS TO PROVIDE HURRICANE PROTECTION AND ENTRANCE CLOSURE.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-60 Other: Large Missile. Max span is 14'-2" for +/- 60 psf ASD Design Load. See sheet 3 of installation drawings for other spans and pressures.		Installation Instructions FL14444 R4 II ROLLING DOORS INDUSTRIES DRWG 20-214.pdf Verified By: Walter A. Tillit Jr., P.E. PE 44167 Created by Independent Third Party: Yes Evaluation Reports FL14444 R4 AE ROLLING DOORS INDUSTRIES PER 20-214.pdf Created by Independent Third Party: Yes
14444.2	16'-2" MAX. WIDE 22 GAGE SLAT ROLL UP DOOR	COLD FORMED SLATS INTERLOCKED TOGETHER AND RETAINED BY TRACKS TO PROVIDE HURRICANE PROTECTION AND ENTRANCE CLOSURE.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +65/-65 Other: Large Missile. Max span is 16'-2" for +/- 65 psf ASD Design Load. See sheet 3 of installation drawings for other spans and pressures.		Installation Instructions FL14444 R4 II ROLLING DOORS INDUSTRIES DRWG 20-212.pdf Verified By: Walter A. Tillit, Jr. P.E. PE 44167 Created by Independent Third Party: Yes Evaluation Reports FL14444 R4 AE ROLLING DOORS INDUSTRIES PER 20-212.pdf Created by Independent Third Party: Yes
14444.3	26'-0" MAX. WIDE 20 GAGE SLAT ROLL UP DOOR	COLD FORMED SLATS INTERLOCKED TOGETHER AND RETAINED BY TRACKS TO PROVIDE HURRICANE PROTECTION AND ENTRANCE CLOSURE.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +70/-70 Other: Large Missile. Max span is 26'-0" for +/- 70 psf ASD Design Load. See sheet 3 of installation drawings for other spans and pressures.		Installation Instructions FL14444 R4 II ROLLING DOORS INDUSTRIES DRWG 20-213.pdf Verified By: Walter A. Tillit Jr., P.E. PE 44167 Created by Independent Third Party: Yes Evaluation Reports FL14444 R4 AE ROLLING DOORS INDUSTRIES PER 20-213.pdf Created by Independent Third Party: Yes

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GENERAL NOTES:

1- ROLL-UP DOOR SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2020 (7th EDITION) OF THE FLORIDA BUILDING CODE.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, FOR A WIND SPEED AS REQUIRED BY JURISDICTION WHERE THIS PRODUCT WILL BE INSTALLED AND FOR A DIRECTIONALITY FACTOR $K_d=0.85$, USING ASCE 7-16 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 1.

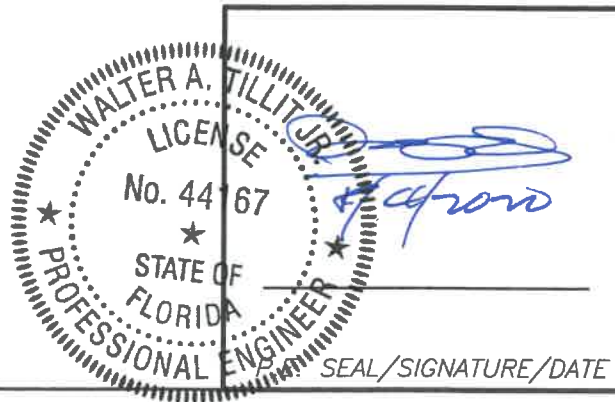
IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-16 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 1.

ROLL-UP DOOR'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER FENESTRATION TESTING LABORATORY, INC. REPORT # 6451, PER TAS-201, TAS-202 & TAS-203 PROTOCOLS.

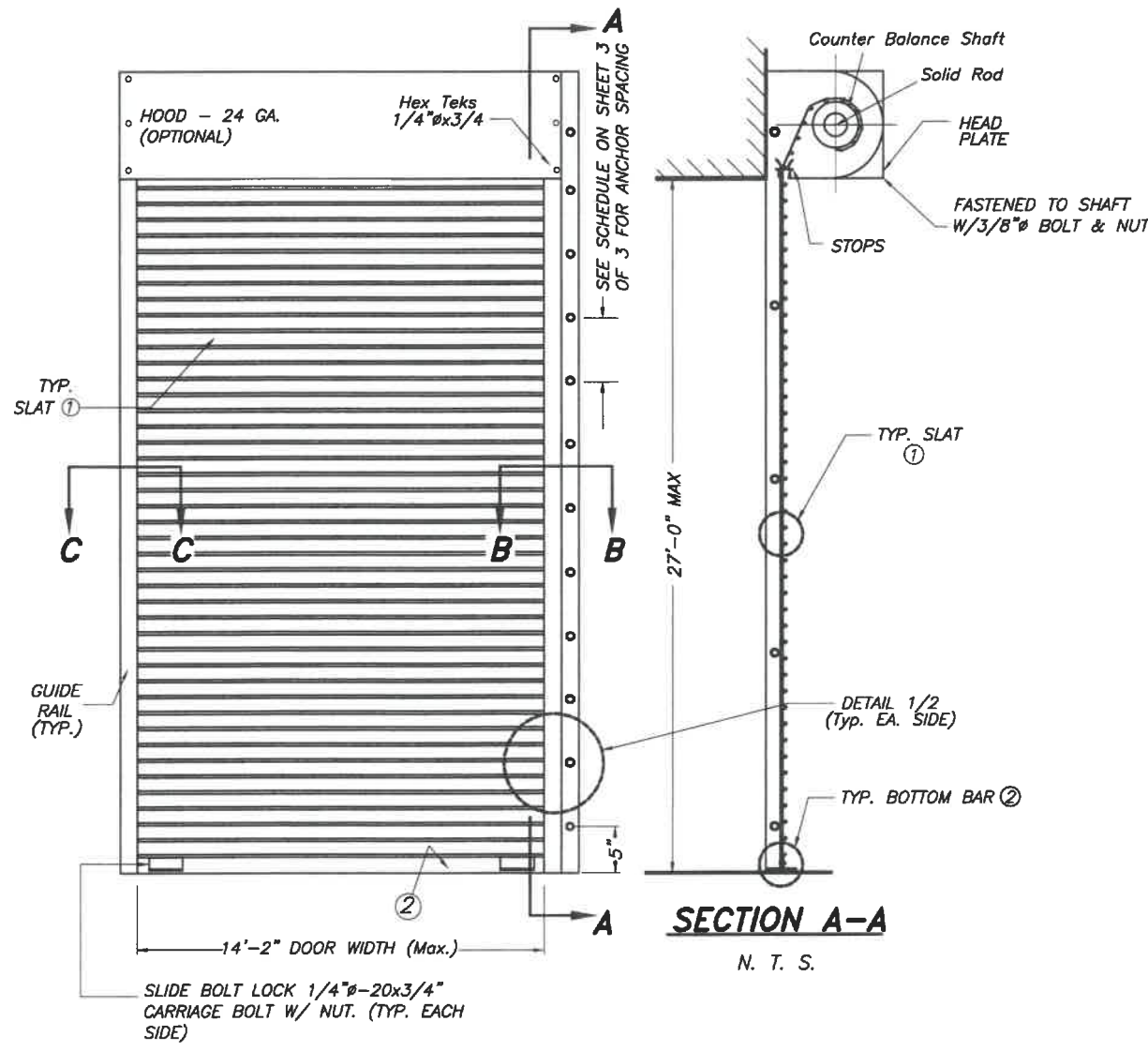
MAX. A.S.D. DESIGN PRESSURE RATING: +60.0, -60.0 PSF.

- 2- SLAT TO BE A.S.T.M. A-653 GR 40 STRUCTURAL QUALITY STEEL WITH MIN $F_y = 47.0$ ksi. AND G-90 GALVANIZING PER A.S.T.M. A-653, OR A.I.S.I. 304 SERIES STAINLESS STEEL MANUFACTURED WITH A MINIMUM YIELD STRENGTH OF $F_y = 47.0$ ksi.
- 3- ALL STEEL ANGLES TO BE A.S.T.M. A-36 DESIGNATION, SHOP PRIMED AGAINST CORROSION PRIOR TO INSTALLATION. PAINT TO CONFORM TO FEDERAL SPECIFICATIONS CORRESPONDING TO RED OXIDE PAINT OR EQUAL.
- 4- WINDLOCKS TO BE "MALLEABLE IRON" $F_y = 42$ ksi OR A.I.S.I. DESIGNATION STEEL W/ $F_y = 40$ ksi., CHROME OR NICKEL PLATED.
- 5- ALL ASSEMBLY BOLTS TO BE S.A.E. GRADE 2 CADMIUM PLATED OR GALVANIZED STEEL.
- 6- STEEL WINDBARS TO BE A.S.T.M. A-36 DESIGNATION, SHOP PRIMED PRIOR TO INSTALLATION. PAINT TO CONFORM TO FEDERAL SPECIFICATIONS CORRESPONDING TO RED OXIDE PAINT OR EQUAL.
- 7- HOOD TO BE 24 GA. A.S.T.M. A-653 DESIGNATION G-90 FINISH TYPE COATING.
- 8- ALL RIVETS TO BE A.I.S.I. C1006 SPHERODIZED ANNEALED ALUMINUM LOW CARBON COLD HEADING QUALITY STEEL, ZINC PLATED, W/ 55.0 ksi. MINIMUM TENSILE STRENGTH, AS MANUFACTURED BY UNIVERSAL RIVET, INC.
- 9- CONCRETE ANCHORS TO BE AS MANUFACTURED BY DEWALT, INC, AND SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.
- 10- ALL WELDING TO CONFORM TO AMERICAN WELDING SOCIETY'S AWS D1.1 REGULATIONS. USE A.W.S A5.1 OR A5.5 E60XX ELECTRODES MIN. 3/16" FILLET SIZE.
- 11- INSULATION MATERIAL SHALL BE EPS-EXPANDED POLYSTYRENE INSULATION, MANUFACTURED BY DYPLAST PRODUCTS LLC. W/ MIAMI DADE COUNTY APPROVAL.
- 12- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE EXISTING STRUCTURE IS DESIGNED TO SUPPORT V_x AND V_y FORCES AT BOTH JAMBS. SEE SCHEDULE ON SHEET 3 OF 3, FOR V_x & V_y VALUES.
- 13- ROLL-UP MECHANISM NOT PART OF THIS APPROVAL.
- 14- (A) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
 (B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS P.E.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
 (C) THIS P.E.D. WILL BE CONSIDERED INVALID IF MODIFIED.
 (D) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
 (E) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
- 15- SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT DOOR. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.5.2.1.1 OF THE FLORIDA BUILDING CODE.

THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA



<i>Florida Building Code (High Velocity Hurricane Zone)</i>					
© 2020 TILTECO, INC			14'-2" MAXIMUM WIDE, 24 GAGE SLAT ROLL-UP DOOR		DRAWN BY: F.P.
TILTECO inc. <small>TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167</small>			ROLLING DOOR INDUSTRIES, LLC.		07/21/2020 DATE
<small>8214 NW 64 ST MIAMI, FL. 33166 PH: 305-599-9977 FAX: 305-599-9979</small>			20-214 DRAWING No		
<small>REV. No</small>	<small>DESCRIPTION</small>	<small>DATE</small>	<small>REV. No</small>	<small>DESCRIPTION</small>	<small>DATE</small>
1	OLD 17-247	7/21/20	3		
2			4		
SHEET 1 OF 3					

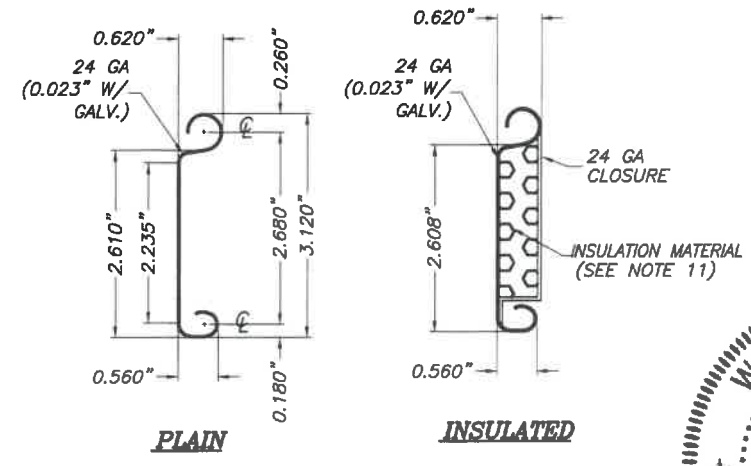


SECTION A-A

N. T. S.

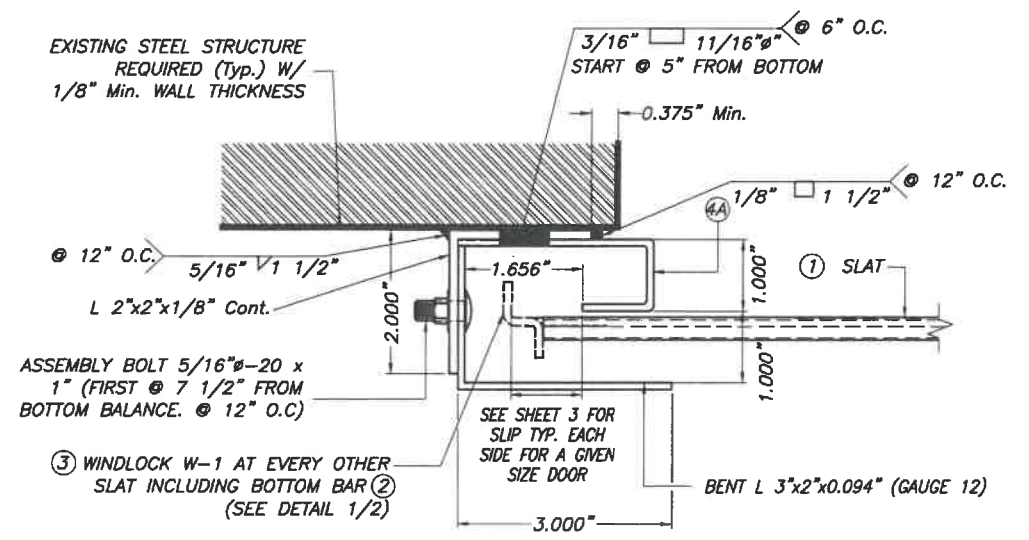
TYPICAL DOOR ELEVATION

N. T. S.

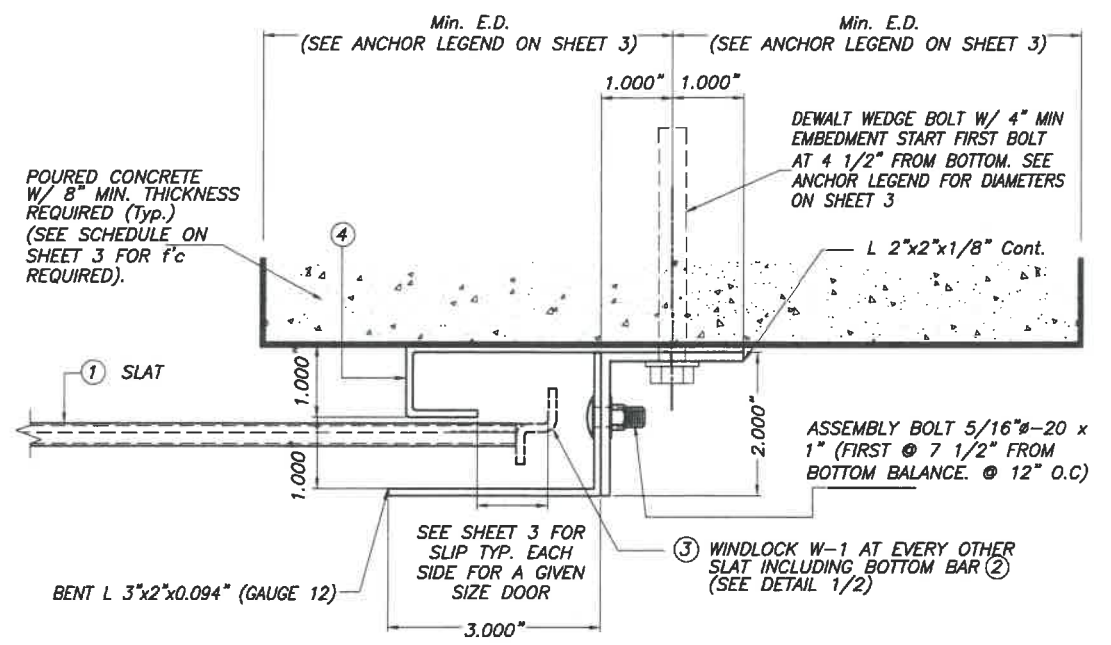


1 FLAT SLAT

SCALE : 3/8" = 1"

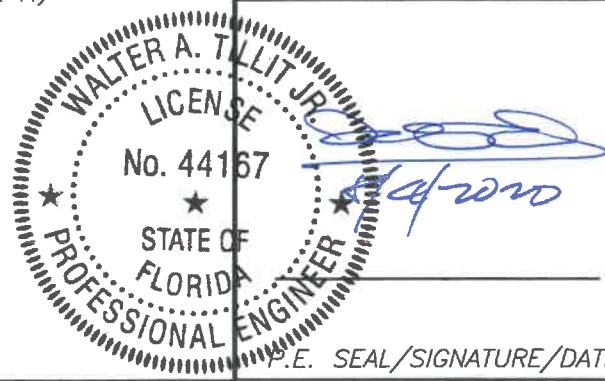


SECTION C-C



SECTION B-B

SCALE : 3/8" = 1"



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 CA-0006719
 WALTER A. TILLIT Jr. P.E.
 FLORIDA Lic. # 44167

14'-2" MAXIMUM WIDE, 24 GAGE SLAT ROLL-UP DOOR

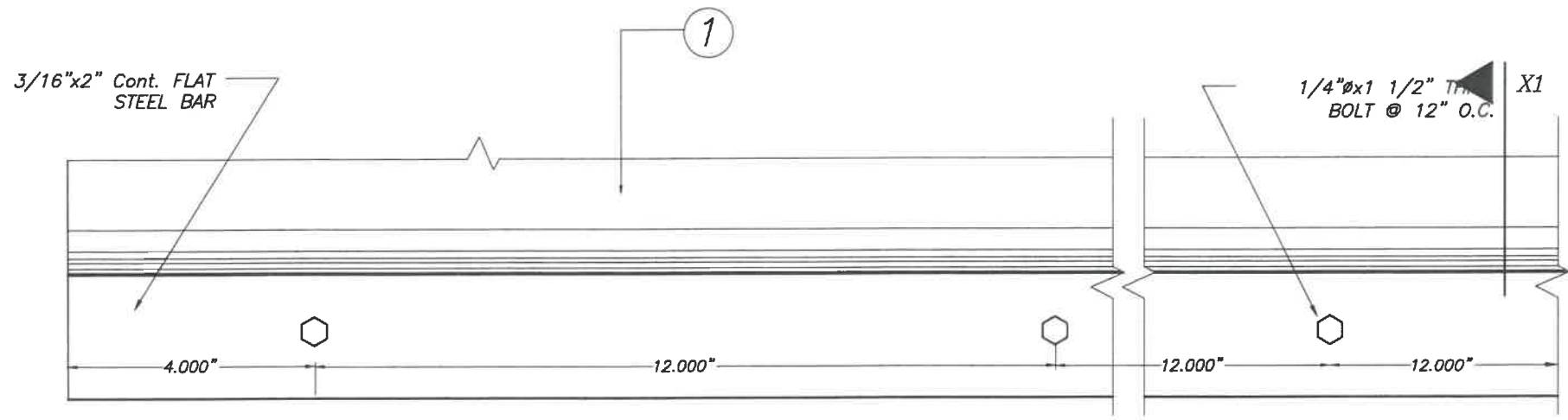
ROLLING DOOR INDUSTRIES, LLC.
 8214 NW 64 ST
 MIAMI, FL. 33166
 PH: 305-599-9977 FAX: 305-599-9979

DRAWN BY: F.P.

07/21/2020 DATE

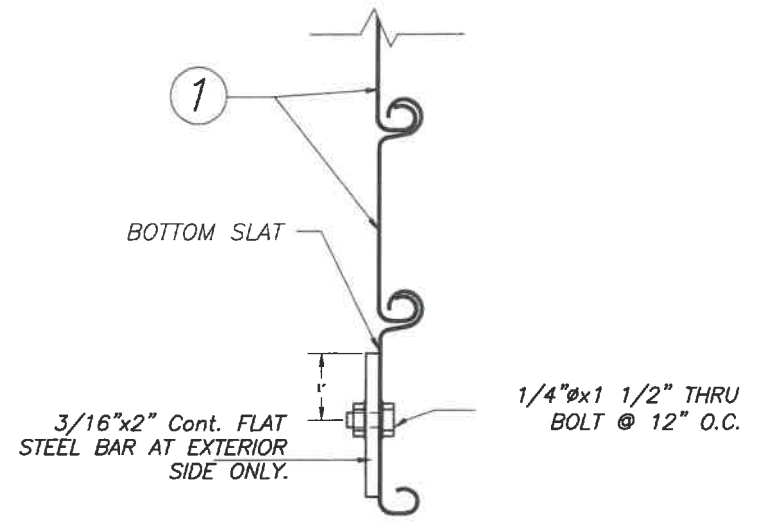
20-214 DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

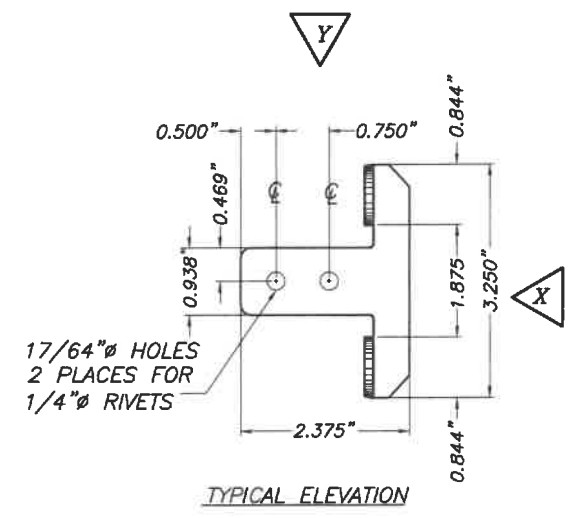


ELEVATION

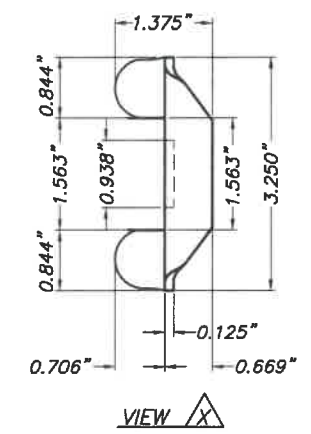
2 BOTTOM BAR
SCALE : 3/8" = 1"



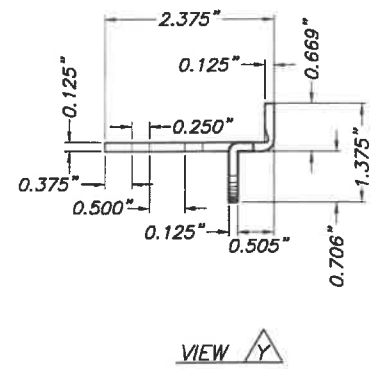
SECTION XI



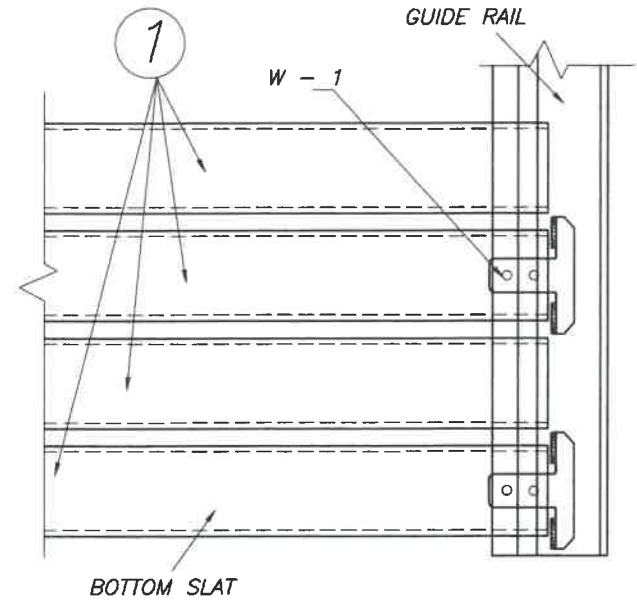
TYPICAL ELEVATION



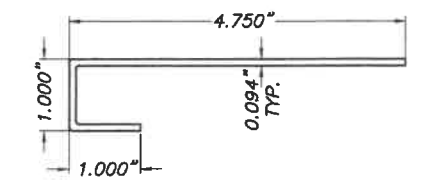
VIEW X



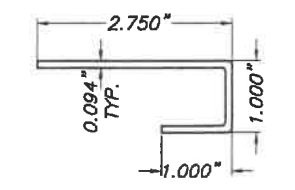
VIEW Y



DETAIL 1 (elevation)
N.T.S.



4 "J" GUIDE FOR CONCRETE WALL
SCALE : 3/8" = 1"



4A "J" GUIDE FOR STEEL WALL
SCALE : 3/8" = 1"

3 TYPICAL WINDLOCK W - 1 DETAIL
SCALE : 3/8" = 1"

COMPONENTS

WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SEAL/SIGNATURE/DATE

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FLORIDA Lic. # 44167

14'-2" MAXIMUM WIDE, 24 GAGE SLAT
ROLL-UP DOOR

ROLLING DOOR INDUSTRIES, LLC.
8214 NW 64 ST
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PH: 305-599-9977 FAX: 305-599-9979

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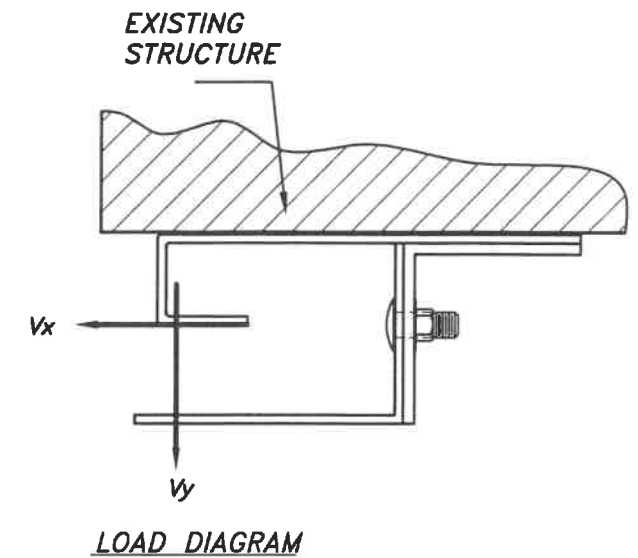
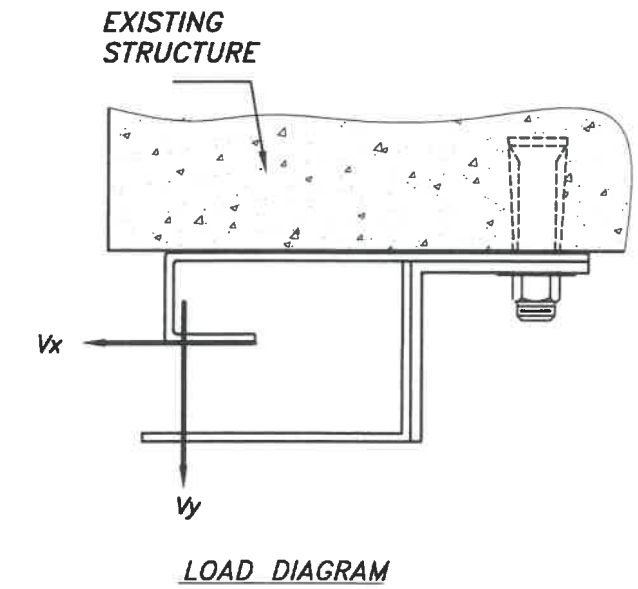
07/21/2020
DATE

20-214
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-247	7/21/20	3		
2			4		

Vx & Vy REACTIONS & ANCHOR SCHEDULE

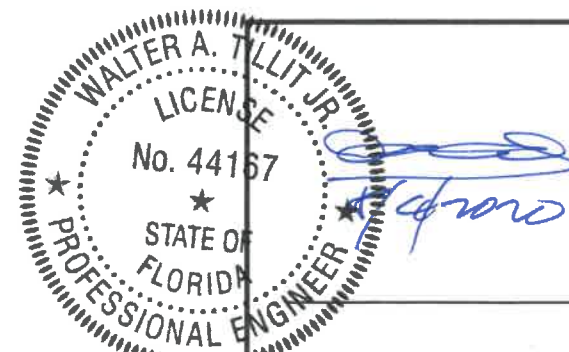
DOOR WIDTH (Ft)	MAXIMUM A.S.D. DESIGN PRESSURE RATING (PSF)	SLIP (In)	Vx (Lb/Ft)	Vy (Lb/Ft)	MAX., ANCHOR SPACING					
					ANCHOR TYPE 1 *			ANCHOR TYPE 2 *		
					FOR Min. f'c = 3000 psi CONCRETE	FOR Min. f'c = 4000 psi CONCRETE	FOR Min. f'c = 6000 psi CONCRETE	FOR Min. f'c = 3000 psi CONCRETE	FOR Min. f'c = 4000 psi CONCRETE	FOR Min. f'c = 6000 psi CONCRETE
12'-0"	+30.0, -30.0	1/4"	731	180	11"	11"	11"	11"	11"	11"
	+35.0, -35.0	1/4"	884	210	11"	11"	11"	11"	11"	11"
	+40.0, -40.0	1/4"	1034	240	11"	11"	11"	11"	11"	11"
	+45.0, -45.0	1/4"	1182	270	10"	11"	11"	11"	11"	11"
	+50.0, -50.0	1/4"	1328	300	8 1/2"	10"	10 1/2"	11"	11"	11"
	+55.0, -55.0	1/4"	1472	330	8"	9"	9 1/2"	9 1/2"	11"	11"
	+60.0, -60.0	1/4"	1614	360	7"	8"	8 1/2"	9"	10 1/2"	11"
14'-2"	+30.0, -30.0	7/16"	792	212	11"	11"	11"	11"	11"	11"
	+35.0, -35.0	7/16"	944	248	11"	11"	11"	11"	11"	11"
	+40.0, -40.0	7/16"	1095	283	10 1/2"	11"	11"	11"	11"	11"
	+45.0, -45.0	7/16"	1243	319	9"	10 1/2"	10 1/2"	11"	11"	11"
	+50.0, -50.0	7/16"	1390	354	8"	9 1/2"	9 1/2"	10"	11"	11"
	+55.0, -55.0	7/16"	1535	390	7 1/2"	8 1/2"	8 1/2"	9"	10 1/2"	11"
	+60.0, -60.0	7/16"	1679	425	7"	7 1/2"	8"	8"	9 1/2"	10 1/2"



ANCHOR LEGEND

* **ANCHOR TYPE 1:** 1/2"Ø DEWALT, INC WEDGE BOLT, W/ 4" MIN. EMBEDMENT AND 4 1/2" MIN. EDGE DISTANCE.

ANCHOR TYPE 2: 5/8"Ø DEWALT, INC WEDGE BOLT, W/ 4" MIN. EMBEDMENT AND 6" MIN. EDGE DISTANCE.



P.E. SEAL/SIGNATURE/DATE

Florida Building Code (High Velocity Hurricane Zone)

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1	QLD 17-247	7/21/20	3		
2			4		

SHEET 3 OF 3