BEST ROLLING DOORS, INC.

STEEL ROLL-UP DOORS
MODELS S10-6065, S10-6565 & S10-100
LARGE MISSILE IMPACT / HVHZ

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

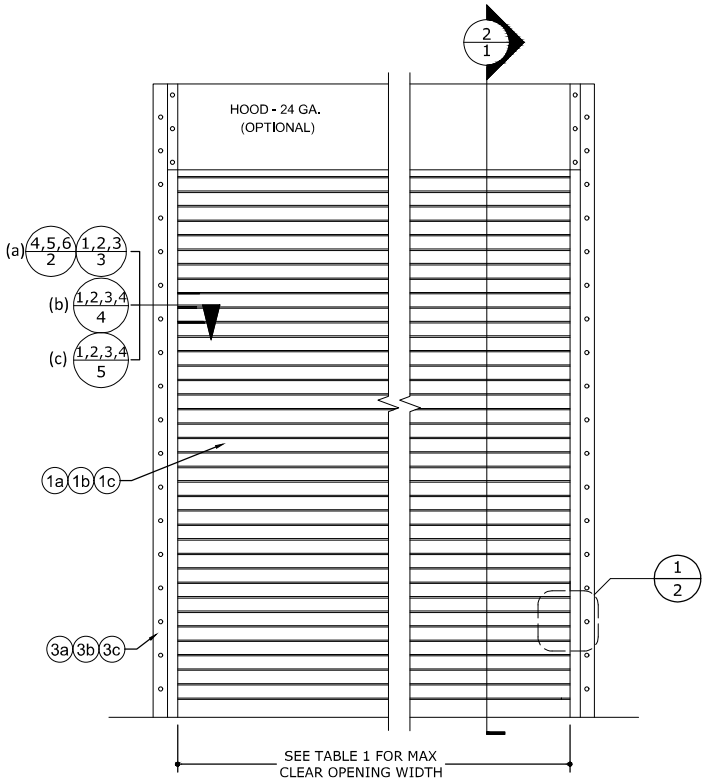
NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT **ENGINEERINGEXPRESS.COM/QUOTE** FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

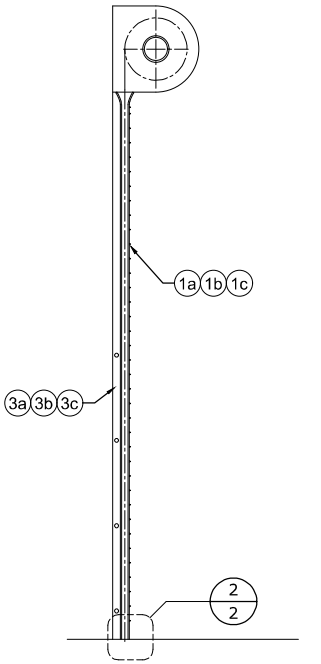
FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

FRANK L. BENNARDO LICENSE No 0046549 STATE OF FLORIDA PROFESSIONAL ENGINEER [SIGNED: &[Date]]

Digitally signed by Frank Bennardo
Date: 2023.11.03 17:11:40 -04'00'



1/1 STEEL ROLL-UP DOOR (ALL MODELS)
SCALE: NTS ELEVATION



2/1 STEEL ROLL-UP DOOR (ALL MODELS)
SCALE: NTS SIDE SECTION

TABLE 1: MAXIMUM ALLOWABLE PRESSURE AND CLEAR OPENING WIDTH

	MODEL #	MAXIMUM CLEAR OPENING WIDTH	MAXIMUM ALLOWABLE PRESSURE
(a)	S10-6065	24'-1 1/2"	+60psf / -65psf
(b)	S10-6565	30'-4 1/2"	+65psf / -65psf
(c)	S10-100	30'-4 1/2"	+100psf / -100psf

GENERAL NOTES:

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) FOR USE INSIDE AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201, 202, AND 203 STANDARDS. SEE PRODUCT EVALUATION REPORT FOR MORE INFORMATION.
2. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-22 AND THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN (TABLE 1) FOR ANY ASSEMBLY AS SHOWN.
3. ALLOWABLE DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
4. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT. THESE INSTALLATION INSTRUCTIONS ARE PART OF A PRODUCT APPROVAL EVALUATION AND SHALL ONLY BE USED IN CONJUNCTION WITH THE EVALUATION REPORT SUBMITTED FOR THE SAME PRODUCT APPROVAL.
5. SLATS TO BE A.S.T.M. A-653 GR 50 STRUCTURAL QUALITY STEEL WITH MIN. Fy = 50 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 Fy = 50 KSI.
6. WINDLOCKS SHALL BE 11 GA PLATED STEEL. A.S.T.M. A-1011
7. ALL ASSEMBLY BOLTS TO BE S.A.E. GRADE 2 CADMIUM PLATED OR GALVANIZED STEEL.
8. ALL RIVETS TO BE A.I.S.I. 1035 STEEL, CADMIUM PLATED, STAINLESS STEEL OR ZINC PLATED W/ Fy= 37,000 PSI.
9. INSULATION MATERIAL SHALL BE EPS-EXPANDED POLYSTYRENE INSULATION MANUFACTURED BY DYPLAST PRODUCTS LLC COMPANY, MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE # 17-1207.05 OR LATEST VERSION.
10. DOOR MAY BE INSTALLED ON THE INSIDE OR OUTSIDE OF AN EXTERIOR WALL. DOOR IMPACTED ON BOTH SIDES.
11. GUIDE DETAILS CAN BE USED IN ANY COMBINATION.
12. ROLL-UP MECHANISM AND HOOD ASSEMBLY ARE NOT PART OF THIS APPROVAL.
13. THIS DOCUMENT CONTAINS INFORMATION RELEVANT TO THE NECESSARY STRUCTURAL REQUIREMENTS OF THE SYSTEM INSTALLATION. COMPONENTS AND FASTENERS NOT REFERENCED WHICH ARE PART OF THE INTERNAL FABRICATION OF THE SPECIFIED SYSTEMS OR ASSEMBLIES SHALL BE PER MANUFACTURER PUBLISHED SPECIFICATIONS.
14. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS OUTLINED HEREIN.
15. UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.
16. CONTRACTOR SHALL BE RESPONSIBLE TO INSULATE DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
17. WATERPROOFING IS NOT PART OF THIS CERTIFICATION AND SHALL BE CERTIFIED BY OTHERS.

INDEX

SHEET # | DESCRIPTION

6 TOTAL SHEETS

VISIT ECALC.IO/62056a
FOR HELPFUL RESOURCES, SITE SPECIFIC JOB ORDERING & MORE INFORMATION ABOUT THIS PRODUCT & RELATED SERVICES
SCAN HERE:

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BEST ROLLING DOORS, INC.
9770 N.W. 79TH AVENUE
HIALEAH GARDENS , FL
Phn. (305) 698-3550

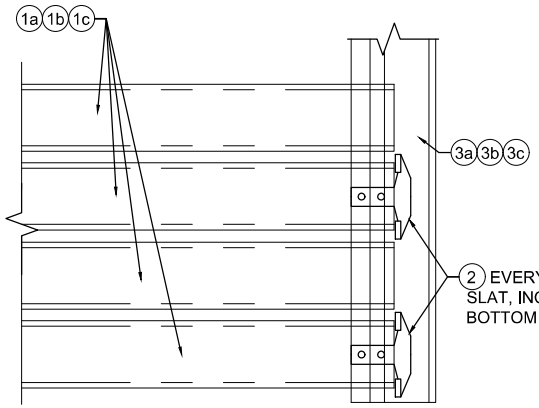
STEEL ROLL-UP DOORS
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#10706.1)

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	RWN	FLB	08/16/17
FBC 2020 (24-36346)	JEM	FLB	01/26/21
FBC 2023	AMZ	RS	09/29/23
-	-	-	-
-	-	-	-
-	-	-	-

23-62056a

SCALE: NTS UNLESS NOTED

1 OF 6



SLAT TO CHANNEL (ALL MODELS)

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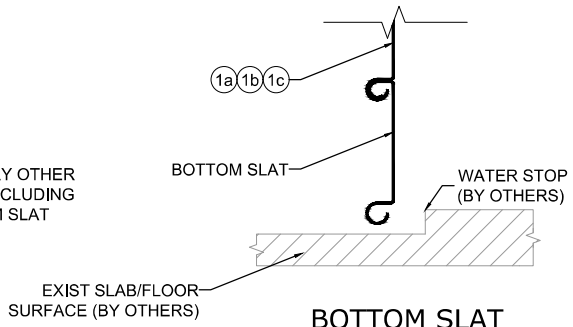
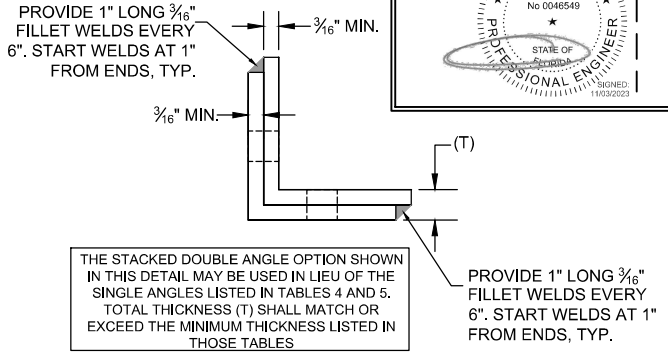


BOTTOM SLAT (ALL MODELS)

2/2 SCALE: NTS SECTION

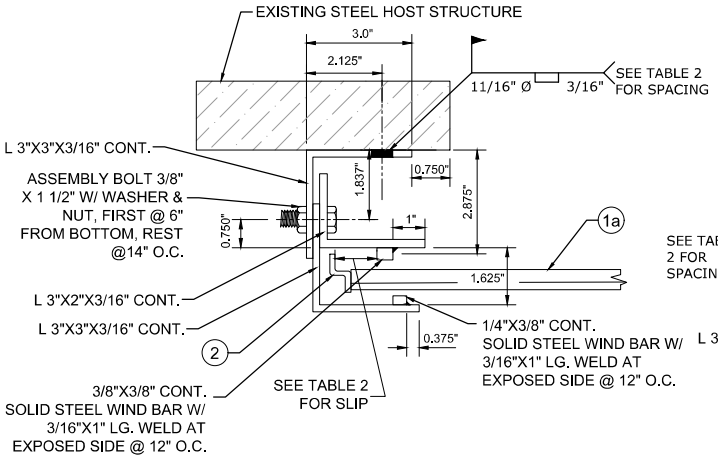


THE STACKED DOUBLE ANGLE OPTION SHOWN IN THIS DETAIL MAY BE USED IN LIEU OF THE SINGLE ANGLES LISTED IN TABLES 4 AND 5. TOTAL THICKNESS (T) SHALL MATCH OR EXCEED THE MINIMUM THICKNESS LISTED IN THOSE TABLES

WALL ANGLE STACKING OPTION (S10-6565 & S10-100 ONLY)

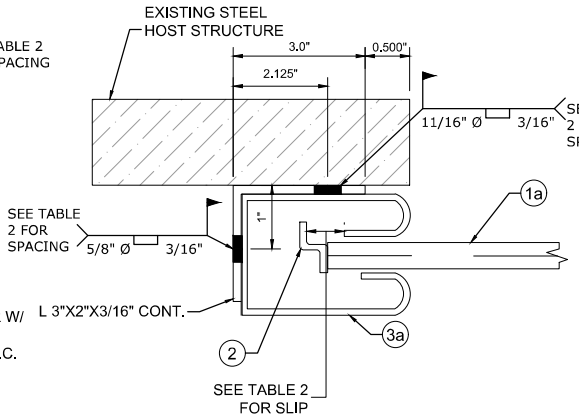
3/2 SCALE: NTS SECTION

JAMB CONNECTIONS
MODEL #S10-6065



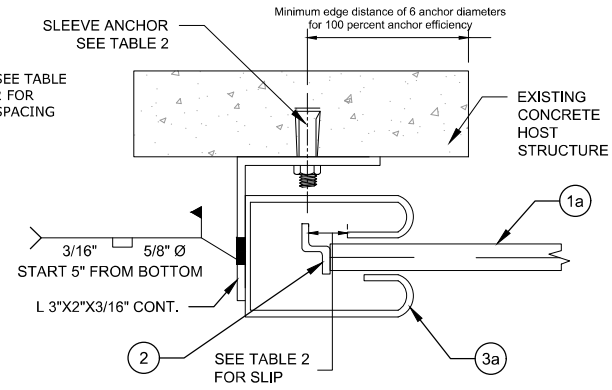
ANGLE JAMB TO STEEL (MODEL S10-6065)

4/2 SCALE: NTS SECTION



CHANNEL JAMB TO STEEL (MODEL S10-6065)

5/2 SCALE: NTS SECTION



CHANNEL JAMB TO CONCRETE 1 (MODEL S10-6065)

6/2 SCALE: NTS SECTION

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

FRANK L. BENNARDO LICENSE No 0046549 STATE OF FLORIDA PROFESSIONAL ENGINEER SIGNED: 11/03/2023

SPACE RESERVED FOR CERTIFYING ENGINEER'S DIGITAL OR PHYSICAL SEAL & DATE OF CERTIFICATION

NOVEMBER 3, 2023

FL 10706.1

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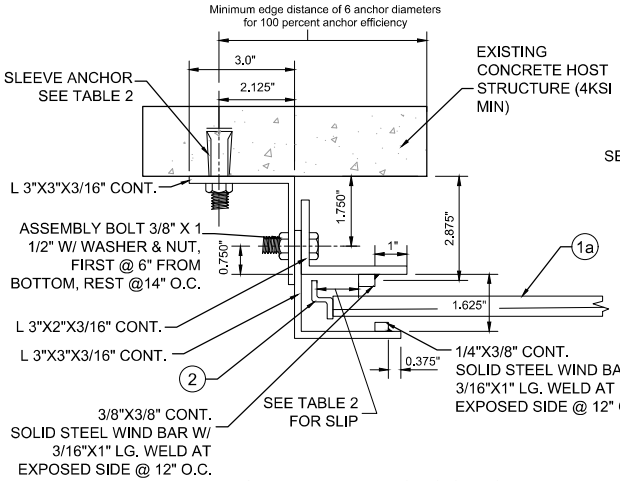
	-	-	-
	-	-	-

23-62056a

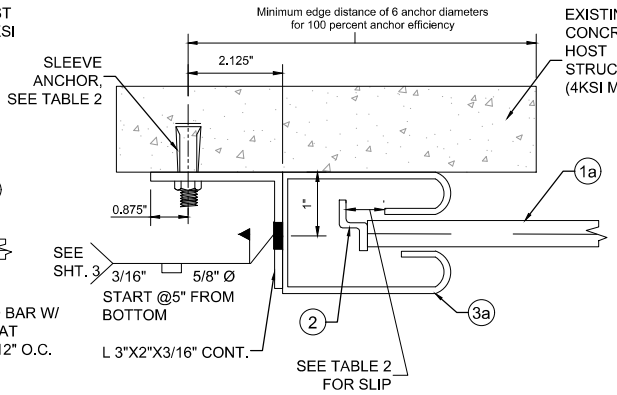
SCALE: NTS UNLESS NOTED

2 OF 6

JAMB CONNECTIONS
MODEL #S10-6065 CONT'D



1 / 3 ANGLE JAMB TO CONCRETE 1 (MODEL S10-6065)
SCALE: NTS SECTION



2 / 3 CHANNEL JAMB TO CONCRETE 2 (MODEL S10-6065)
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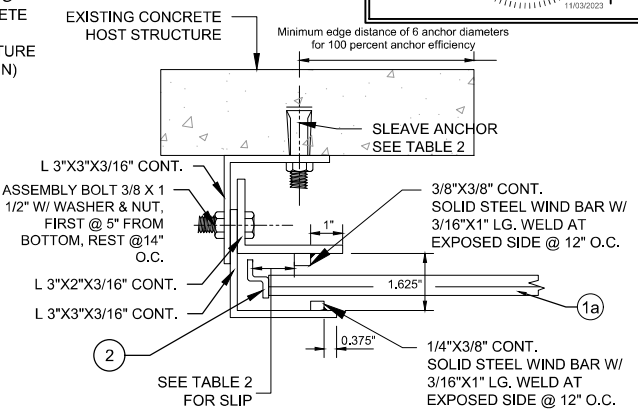


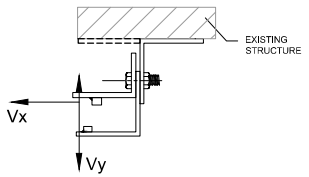
3 / 3 ANGLE JAMB TO CONCRETE 2 (MODEL S10-6065)
SCALE: NTS SECTION

TABLE 2: MODEL #S10-6065 JAMB CONNECTIONS

DOOR OPENING WIDTH	SLIP EACH END	ASSEMBLY CARRIAGE BOLT	ANCHORS TO CONCRETE JAMB		FIELD WELD TO STEEL JAMB		
			ANGLE GUIDE	CHANNEL GUIDE	ANGLE GUIDE	CHANNEL GUIDE	
			HILTI KWIK BOLT 3 OR DYNABOLT SLEEVE ANCHOR* dia. x embedment x spacing	HILTI KWIK BOLT 3 OR DYNABOLT SLEEVE ANCHOR* dia. x embedment x spacing	PLUG WELD WALL ANGLE TO JAMB	PLUG WELD WALL ANGLE TO JAMB	PLUG WELD CHANNEL TO WALL ANGLE
24' 1-1/2"	1.00"	1/2"-13x1-1/2" @14" o.c.	3/4" x 6-1/2" @4-3/4" o.c.	3/4" x 6-1/2" @10" o.c.	11/16" dia. x 3/16" @5-1/2" o.c.	11/16" dia. x 3/16" @14" o.c.	5/8" x 3/16" @4" o.c.
20'-0"	1.00"	1/2"-13x1-1/2" @14" o.c.	3/4" x 6-1/2" @8" o.c.	3/4" x 6-1/2" @13" o.c.	11/16" dia. x 3/16" @7-1/2" o.c.	11/16" dia. x 3/16" @14" o.c.	5/8" x 3/16" @5" o.c.
16'-0"	1.00"	1/2"-13x1-1/2" @14" o.c.	3/4" x 6-1/2" @13" o.c.	3/4" x 4-3/4" @14" o.c. or 5/8" x 4" @13" o.c.	11/16" dia. x 3/16" @11" o.c.	11/16" dia. x 3/16" @14" o.c.	5/8" x 3/16" @7" o.c.
14'-0"	1.00"	1/2"-13x1-1/2" @14" o.c.	3/4" x 4-3/4" @14" o.c. or 5/8" x 5-1/2" @12" o.c.	3/4" x 3-1/4" @14" o.c. or 5/8" x 4" @14" o.c.	11/16" dia. x 3/16" @14" o.c.	11/16" dia. x 3/16" @14" o.c.	5/8" x 3/16" @8-1/2" o.c.
12'-0"	0.50"	1/2"-13x1-1/2" @14" o.c.	3/4" x 3-1/4" @8-1/2" o.c. or 5/8" x 5-1/2" @11" o.c.	3/4" x 3-1/4" @14" o.c. or 5/8" x 5-1/2" @14" o.c.	11/16" dia. x 3/16" @13" o.c.	11/16" dia. x 3/16" @14" o.c.	5/8" x 3/16" @9" o.c.
10'-0"	0.50"	1/2"-13x1-1/2" @14" o.c.	3/4" x 3-1/4" @14" o.c. or 5/8" x 5-1/2" @14" o.c.	3/4" x 3-1/4" @14" o.c. or 5/8" x 5-1/2" @14" o.c.	11/16" dia. x 3/16" @14" o.c.	11/16" dia. x 3/16" @14" o.c.	5/8" x 3/16" @13" o.c.

* FIRST AND LAST ANCHOR SHALL BE 7" MAXIMUM FROM END OF ANGLE

LOAD DIAGRAM (ANGLES)



LOAD DIAGRAM (CHANNEL)

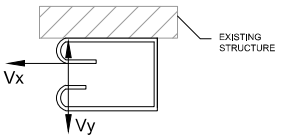


TABLE 3: MODEL #S10-6065 JAMB REACTIONS

DOOR OPENING WIDTH	SLIP EACH END	C CHANNEL OR ANGLE GUIDES			
		POSITIVE WIND		NEGATIVE WIND	
		Vx plf	Vy plf	Vx plf	Vy plf
24' 1-1/2"	1.00"	3486	727	3784	787
20'-0"	1.00"	2574	602	2799	653
16'-0"	1.00"	1738	482	1900	523
14'-0"	1.00"	1329	422	1461	457
12'-0"	0.50"	1434	363	1582	393
10'-0"	0.50"	858	302	971	327

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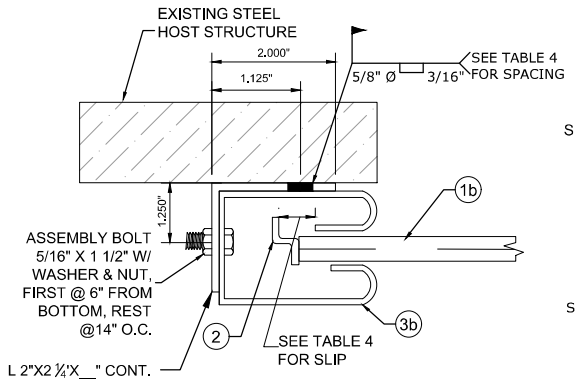
	-	-	-
	-	-	-
	-	-	-

23-62056a

SCALE: NTS UNLESS NOTED

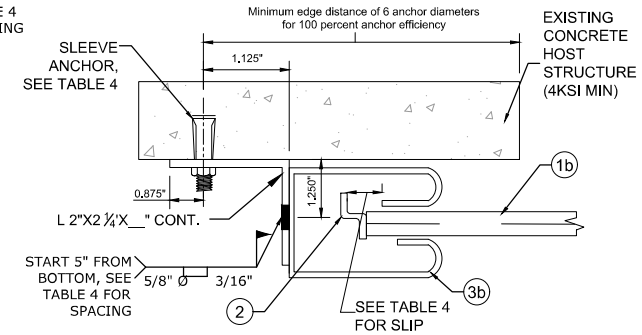
3 OF 6

JAMB CONNECTIONS
MODEL #S10-6565



1/4 SCALE: NTS SECTION

CHANNEL JAMB TO STEEL 1 (MODEL S10-6565)



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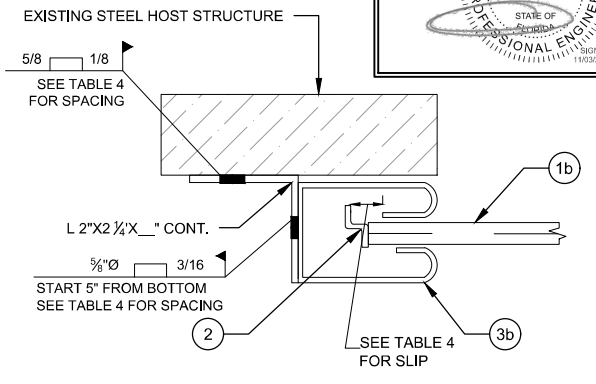
CHANNEL JAMB TO CONCRETE (MODEL S10-6565)



3/4 SCALE: NTS SECTION

CHANNEL JAMB TO STEEL 2 (MODEL S10-6565)

TABLE 4: MODEL #S10-6565 JAMB CONNECTIONS

DOOR OPENING WIDTH	SLIP EACH END	ANCHORS TO CONCRETE JAMB fc= 4000 psi	FIELD WELD TO STEEL JAMB Based on a minimum wall angle thickness: 3/16"		WALL ANGLE THICKNESS Gr50 Fy = 50 ksi, *see detail 3/2 for angle stacking options*	
		WALL ANGLE TO JAMB	CHANNEL GUIDE		CHANNEL GUIDE	
		HILTI Kwik Bolt 3 or Dynabolt Sleeve Anchor *	PLUG WELD WALL ANGLE TO JAMB	PLUG WELD CHANNEL TO WALL ANGLE	E-GUIDE STEEL JAMB	Z-GUIDE CONCRETE JAMB
		dia. x embedment x spacing				
30' 4-1/2"	1.50	5/8" x 4" @ 6-1/2" o.c.	5/8" dia. x 3/16" @ 6-1/2" o.c.	5/8" dia. x 3/16" @ 10" o.c.	3/8"	3/8"
25'- 0"	1.50	5/8" x 4" @ 9-1/2" o.c.	5/8" dia. x 3/16" @ 8" o.c.	5/8" dia. x 3/16" @ 12" o.c.	5/16"	5/16"
20'- 0"	1.50	5/8" x 4" @ 13-1/2" o.c.	5/8" dia. x 3/16" @ 12" o.c.	5/8" dia. x 3/16" @ 14" o.c.	1/4"	1/4"
16'- 0"	1.00	5/8" x 4" @ 16" o.c.	5/8" dia. x 3/16" @ 14" o.c.	5/8" dia. x 3/16" @ 14" o.c.	1/4"	1/4"
14'- 0"	0.75	5/8" x 4" @ 16" o.c.	5/8" dia. x 3/16" @ 14" o.c.	5/8" dia. x 3/16" @ 14" o.c.	3/16"	3/16"
12'- 0"	0.50	5/8" x 4" @ 16" o.c.	5/8" dia. x 3/16" @ 14" o.c.	5/8" dia. x 3/16" @ 14" o.c.	3/16"	3/16"
8'- 0"	0.25	5/8" x 4" @ 16" o.c.	5/8" dia. x 3/16" @ 14" o.c.	5/8" dia. x 3/16" @ 14" o.c.	3/16"	3/16"
4'- 0"	0.50	5/8" x 4" @ 16" o.c.	5/8" dia. x 3/16" @ 14" o.c.	5/8" dia. x 3/16" @ 14" o.c.	3/16"	3/16"

* FIRST AND LAST ANCHOR SHALL BE 7" MAXIMUM FROM END OF ANGLE

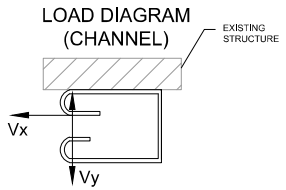
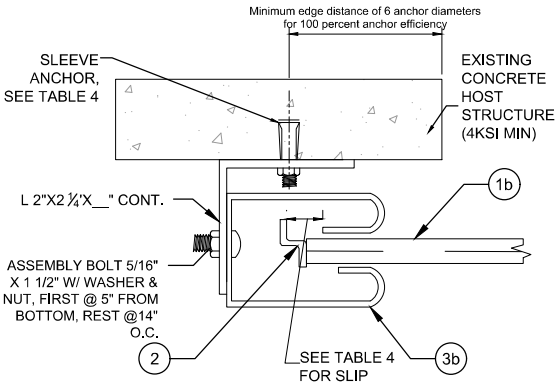


TABLE 5: MODEL #S10-6565 JAMB REACTIONS

Design Wind Load (psf)	Opening Width	Design Slip	Vx (lb/ft)	Vy (lb/ft)
+50 / -50	12'-0"	1/2"	1213	302
	16'-0"	1"	1459	402
	20'-0"	1 1/2"	1739	502
	25'-0"	1 1/2"	2501	627
	30'- 4 1/2"	1 1/2"	3389	761
+55 / -55	12'-0"	1/2"	1362	332
	16'-0"	1"	1620	442
	20'-0"	1 1/2"	1923	552
	25'-0"	1 1/2"	2758	690
	30'- 4 1/2"	1 1/2"	3732	838
+60 / -60	12'-0"	1/2"	1510	362
	16'-0"	1"	1782	483
	20'-0"	1 1/2"	2106	603
	25'-0"	1 1/2"	3014	752
	30'- 4 1/2"	1 1/2"	4075	914
+65 / -65	12'-0"	1/2"	1659	393
	16'-0"	1"	1943	523
	20'-0"	1 1/2"	2290	653
	25'-0"	1 1/2"	3271	815
	30'- 4 1/2"	1 1/2"	4418	990



4/4 SCALE: NTS SECTION

CHANNEL JAMB TO CONCRETE 2 (MODEL S10-6565)

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

FRANK L. BENNARDO LICENSE No 0046549 STATE OF FLORIDA PROFESSIONAL ENGINEER SIGNED: 11/03/2023

SPACE RESERVED FOR CERTIFYING ENGINEER'S DIGITAL OR PHYSICAL SEAL & DATE OF CERTIFICATION

NOVEMBER 3, 2023

FL 10706.1

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Phn. (305) 698-3550

STEEL ROLL-UP DOORS
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#10706.1)

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FBC 2023	AMZ	RS	09/29/23
	-	-	-
	-	-	-
	-	-	-

23-62056a

SCALE: NTS UNLESS NOTED

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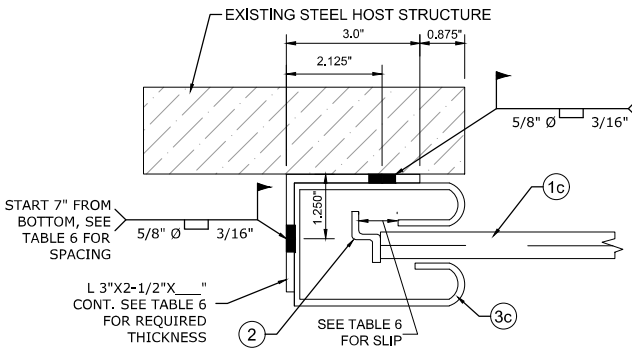
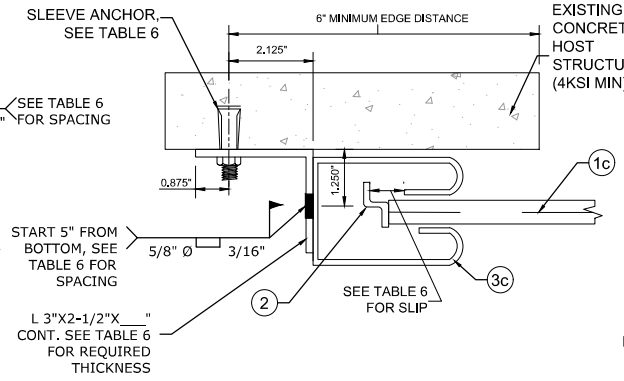
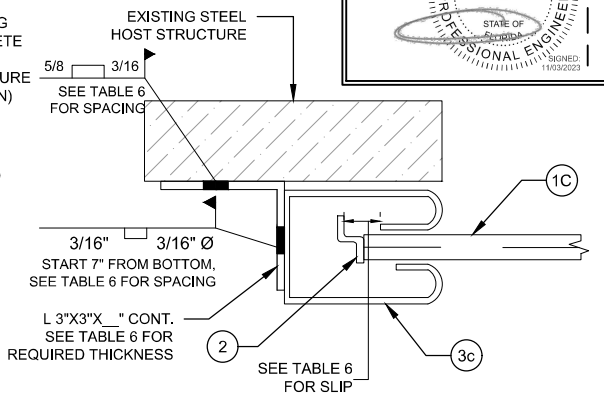
JAMB CONNECTIONS
MODEL #S10-100



1/5 CHANNEL JAMB TO STEEL 1 (MODEL S10-100)
SCALE: NTS SECTION



2/5 CHANNEL JAMB TO CONCRETE 1 (MODEL S10-100)
SCALE: NTS SECTION



3/5 CHANNEL JAMB TO STEEL 2 (MODEL S10-100)
SCALE: NTS SECTION

TABLE 6: MODEL #S10-100 JAMB CONNECTIONS

DOOR OPENING WIDTH	SLIP EACH END	ANCHORS TO CONCRETE JAMB fc= 4000 psi	FIELD WELD TO STEEL JAMB		WALL ANGLE THICKNESS Gr50 Fy = 50 ksi, *see detail 3/2 for angle stacking options*	
		WALL ANGLE TO JAMB	CHANNEL GUIDE		CHANNEL GUIDE	
		HILTI Kwik Bolt 3 or Dynabolt Sleeve Anchor * dia. x embedment x spacing	PLUG WELD WALL ANGLE TO JAMB	PLUG WELD CHANNEL TO WALL ANGLE	E-GUIDE STEEL JAM	Z-GUIDE CONCRETE JAM
30' 4-1/2"	1.50"	3/4" x 6-1/2" @5-1/4" o.c.	5/8" dia. x 3/16" @ 4-3/4" o.c.	5/8" dia. x 3/16" @ 7" o.c.	1/2"	1/2"
25'-0"	1.50"	3/4" x 6-1/2" @7" o.c.	5/8" dia. x 3/16" @ 6-1/4" o.c.	5/8" dia. x 3/16" @ 9-1/4" o.c.	7/16"	7/16"
20'-0"	1.50"	3/4" x 6-1/2" @10-1/2" o.c.	5/8" dia. x 3/16" @ 9" o.c.	5/8"dia. x 3/16" @ 12" o.c.	3/8"	3/8"
15'-0"	1.00"	3/4" x 6-1/2" @14" o.c.	5/8" dia. x 3/16" @ 12" o.c.	5/8"dia. x 3/16" @ 14" o.c.	5/16"	5/16"

* FIRST AND LAST ANCHOR SHALL BE 7" MAXIMUM FROM END OF ANGLE

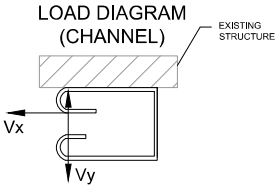
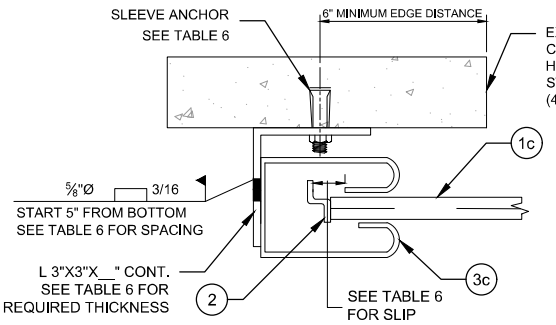


TABLE 7: MODEL #S10-100 JAMB REACTIONS

DOOR OPENING WIDTH	Vx (+ or -)	Vy (+ or -)
	lb / ft	lb / ft
30' 4-1/2"	6799	1523
25'-0"	5035	1254
20'-0"	3528	1004
15'-0"	2670	754



4/5 CHANNEL JAMB TO CONCRETE 2 (MODEL S10-100)
SCALE: NTS SECTION

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	-	-	-
	-	-	-

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SCALE: NTS UNLESS NOTED

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SYSTEM COMPONENTS
ALL MODELS

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

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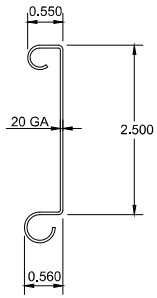

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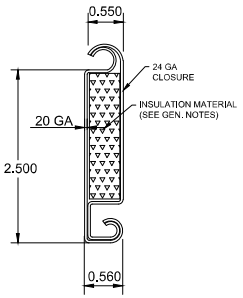

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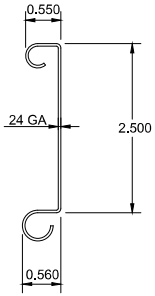

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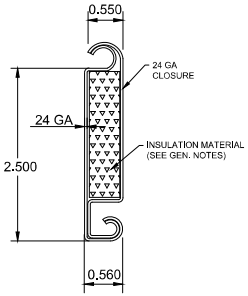

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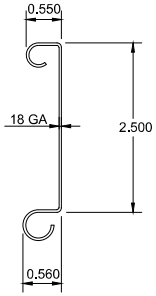

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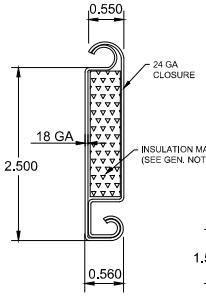

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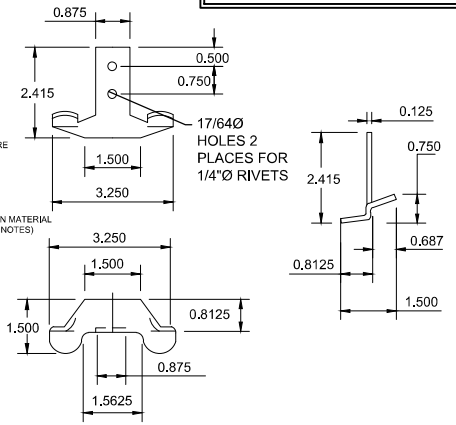


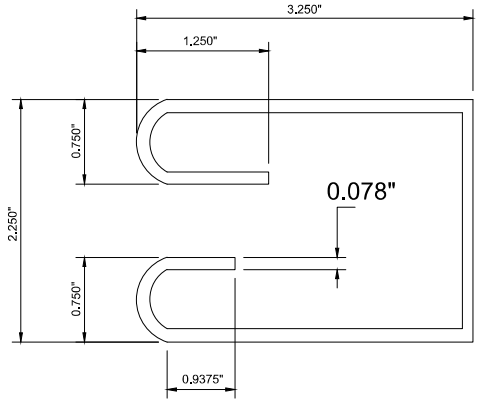
1a FLAT SLAT (Model S10-6065) — SCALE: NTS — STEEL*

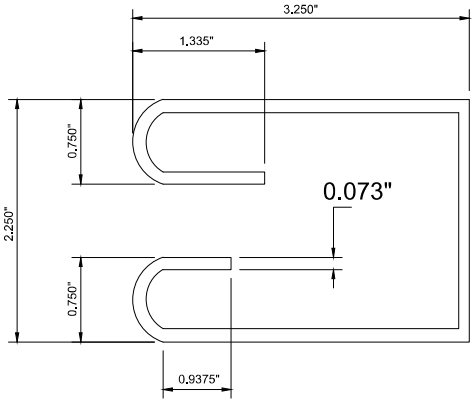
1b FLAT SLAT (Model S10-6565) — SCALE: NTS — STEEL*

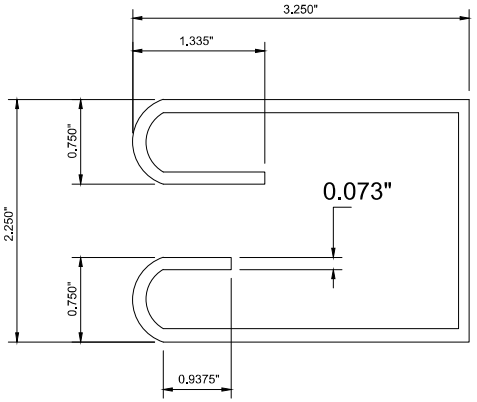
1c FLAT SLAT (Model S10-100) — SCALE: NTS — STEEL*

2 WINDLOCK (ALL MODELS) — SCALE: NTS — STEEL (ASTM A-1011)

***SLAT STEEL NOTE**:
SLAT TO BE A.S.T.M. A-653 GR 50 STRUCTURAL QUALITY STEEL WITH MIN. FY = 50 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 FY = 50 KSI.







3a CHANNEL GUIDE (Model S10-6065) — SCALE: NTS — STEEL (Fy=30KSI MIN.)

3b CHANNEL GUIDE (Model S10-6565) — SCALE: NTS — STEEL (Fy=30KSI MIN.)

3c CHANNEL GUIDE (Model S10-100) — SCALE: NTS — STEEL (Fy=30KSI MIN.)

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SCALE: NTS UNLESS NOTED

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