OLDCASTLE BUILDING ENVELOPE

FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)

INSTALLATION NOTES:

1. SEE SHEET 11 FOR ANCHOR TYPE REQUIREMENTS, MINIMUM EMBEDMENTS, AND MINIMUM EDGE DISTANCES. ALL ANCHOR REQUIREMENTS MUST BE ADHERED TO. ANY DEVIATIONS FROM ANCHOR REQUIREMENTS REQUIRES SEPARATE EVALUATION AND APPROVAL.
2. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
3. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
4. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
5. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8" AT HEAD & SILL AND 1/2" AT THE JAMBS. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
7. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
8. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
9. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
10. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
    A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
    B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
    C. MASONRY - CMU UNIT STRENGTH CONFORMS TO ASTM C-90, WITH MIN. COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MIN. GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
    D. STEEL - MINIMUM YIELD STRENGTH OF 36 KSI. MINIMUM 12 GA. WALL THICKNESS.
    E. ALUMINUM - MINIMUM 1/8 INCH THICK 6063-T5 ALUMINUM.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), **INCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
    - TAS 201-94
    - TAS 202-94
    - TAS 203-94
    - AAMA 501-15
    - ASTM E1886-13a
    - ASTM E1996-17
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE. SEE SHEET 3 FOR GLASS TYPE.
6. STOREFRONT FRAME MATERIAL: ALUMINUM 6063-T6
7. ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.
8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAILS.

TABLE OF CONTENTS

INSTRUCTIONS FOR USE:

1. DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, & WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
2. SEE CHART ON SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
3. CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHART ON SHEET 4 FOR STOREFRONT MULLION AND SHEETS 9 & 10 FOR DOOR MULLION, THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
4. USING CHARTS ON SHEETS 5 THROUGH 8 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
5. THE LOWEST VALUE RESULTING FROM STEP 2, 3, AND 4 SHALL APPLY TO ENTIRE SYSTEM.

Oldcastle BuildingEnvelope™

OLDCASTLE BUILDING ENVELOPE
803 AIRPORT ROAD
TERRELL, TEXAS 75160
PH: (972)551-6100 WEB: OBE.ORG

TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)
INSTALLATION & GENERAL NOTES

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2022.12.20 10:40:52 -05'00'

HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41841

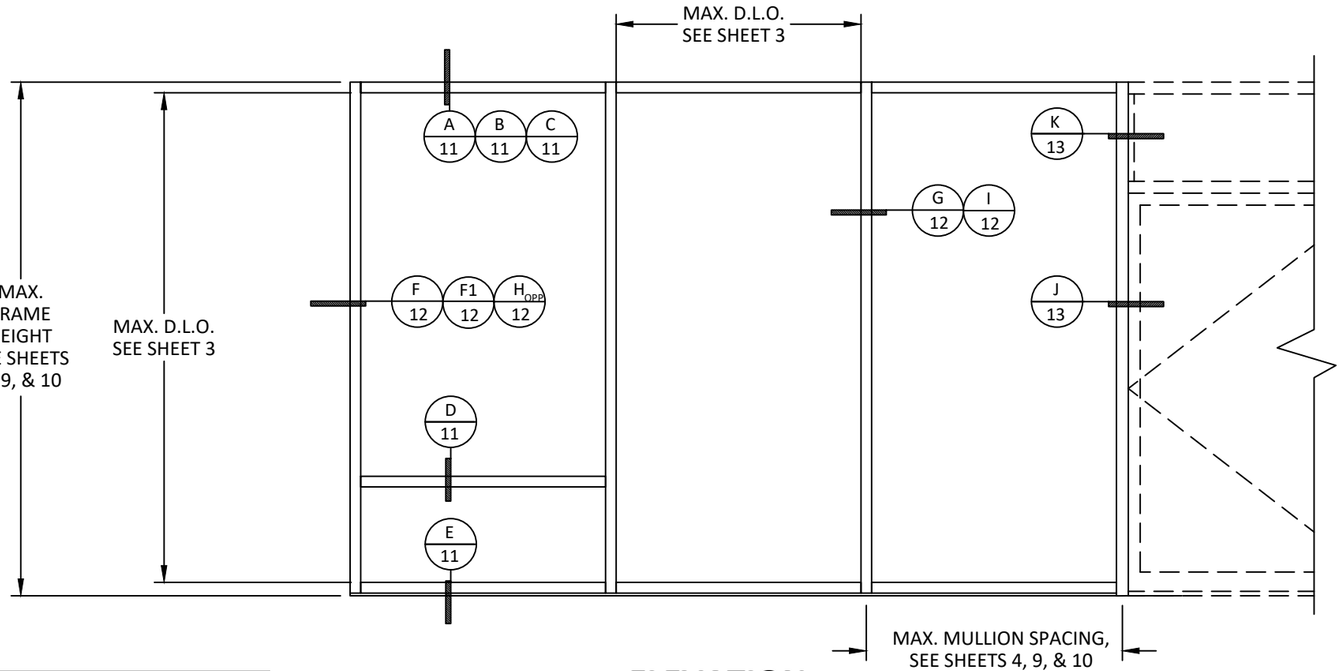
DATE: 12.16.2022

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: OBE007

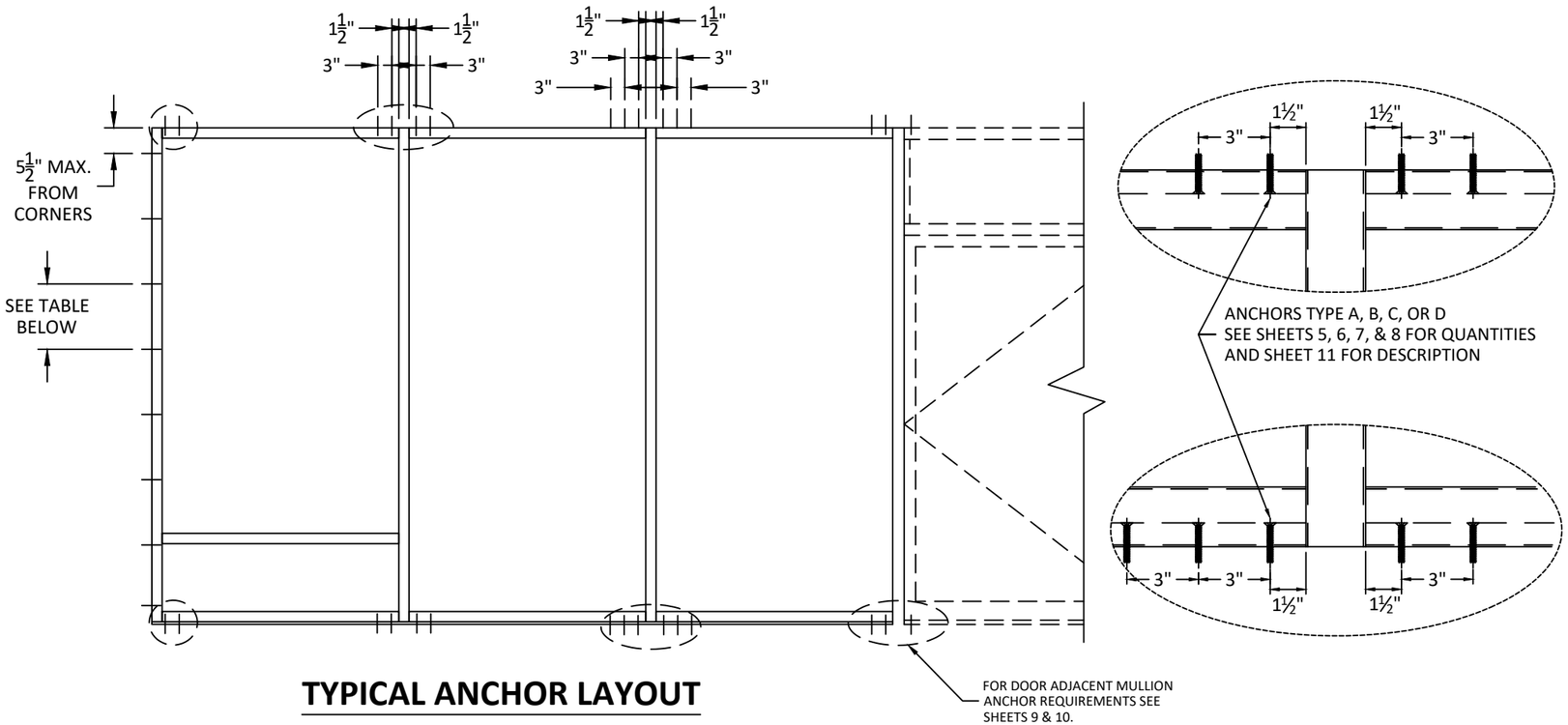
SHEET: 1 OF 14



ELEVATION

TYPICAL FG-5750 STOREFRONT

NOTE: SEE SEPARATE DOOR APPROVAL FOR DOOR RATING & DETAILS. LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.



JAMB ANCHOR SPACING		
ANCHOR TYPE	MAX. SPACING	MAX. DP
A	24.0"	90 PSF
B	11.0"	
C	13.5"	
D	24.0"	

TYPICAL ANCHOR LAYOUT

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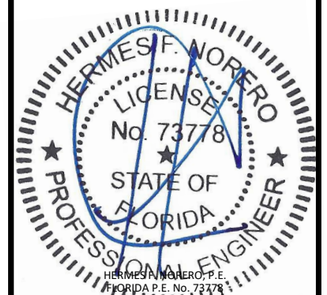

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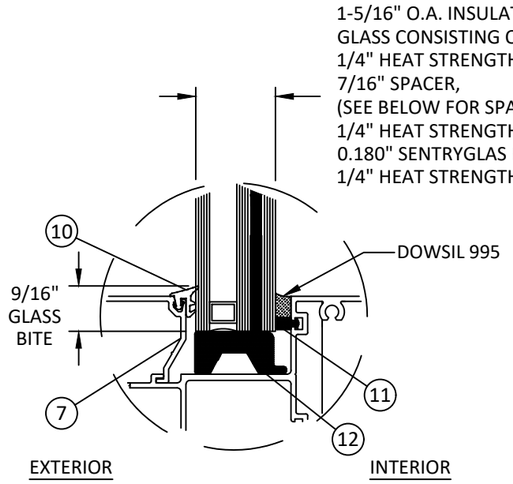
SHEET: 2 OF 14

GLASS TYPES

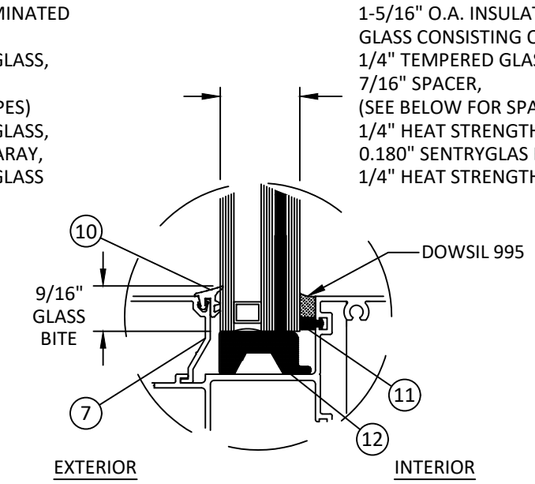
MISSILE LEVEL E IMPACT

GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS.		GLASS TYPE '1' OR '2'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)
39.5	55	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		70.0	90.0
69.5		70.0	90.0
39.5	61	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		66.0	84.8
69.5		66.0	84.8
39.5	67	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		60.1	77.2
39.5	73	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		57.9	74.5
39.5	79	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		57.9	74.5

GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS.		GLASS TYPE '1' OR '2'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)
39.5	85	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		57.9	74.5
39.5	91	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
69.5		57.9	74.5
39.5	97	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
39.5	103	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
63.5		63.4	81.5
39.5	109	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0
39.5	115	70.0	90.0
45.5		70.0	90.0
51.5		70.0	90.0
57.5		70.0	90.0



GLAZING DETAIL 1



GLAZING DETAIL 2

GLASS SPACER OPTIONS	
OPTION #	SPACER TYPE
1	ALUMINUM BOX SPACER
2	TECHNOFORM TGI-SPACER
3	QUANEX SUPER SPACER T-SPACER
4	FULLER K4SG (THERMOPLASTIC SPACER)

* NOTE:

1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

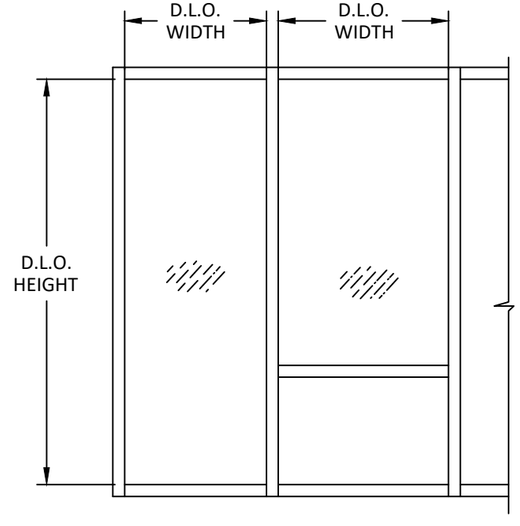
DAYLITE OPENING DIMENSIONS:

DAYLITE OPENING WIDTH:

- NOMINAL PANEL WIDTH - 2.500"

DAYLITE OPENING HEIGHT W/O INTERMEDIATE HORIZONTAL:

- FRAME HEIGHT - 5.625"



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MISSILE LEVEL E GLAZING DETAILS

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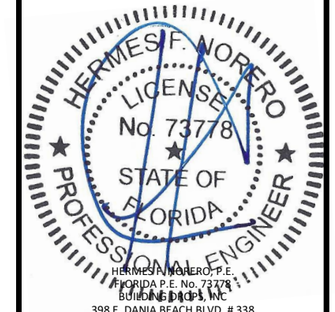

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FL #: FL41841

DATE: 12.16.2022

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

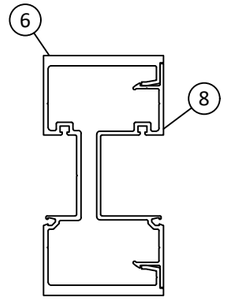
DWG. #: OBE007

SHEET: 3 OF 14

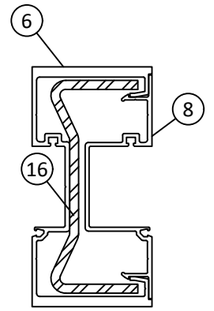
MULLION LOAD TABLES

DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		HEAVY JAMB J1		HEAVY MULLION M1		HEAVY MULLION M2	
WIDTH (W) (in.)	FRAME HEIGHT (H) (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30	72	70.0	90.0	70.0	90.0	70.0	70.0
36		70.0	90.0	70.0	90.0	70.0	70.0
42		70.0	90.0	70.0	90.0	70.0	70.0
48		70.0	90.0	70.0	90.0	70.0	70.0
54		70.0	90.0	70.0	90.0	70.0	70.0
60		70.0	90.0	70.0	90.0	70.0	70.0
66		70.0	90.0	70.0	90.0	70.0	70.0
72		70.0	90.0	70.0	90.0	70.0	70.0
30	78	70.0	90.0	70.0	90.0	70.0	70.0
36		70.0	90.0	70.0	90.0	70.0	70.0
42		70.0	90.0	70.0	90.0	70.0	70.0
48		70.0	90.0	70.0	90.0	70.0	70.0
54		70.0	90.0	70.0	90.0	70.0	70.0
60		70.0	90.0	70.0	90.0	70.0	70.0
66		70.0	90.0	70.0	90.0	70.0	70.0
72		70.0	90.0	70.0	90.0	67.3	67.3
30	84	70.0	90.0	70.0	90.0	70.0	70.0
36		70.0	90.0	70.0	90.0	70.0	70.0
42		70.0	90.0	70.0	90.0	70.0	70.0
48		70.0	90.0	70.0	90.0	70.0	70.0
54		70.0	90.0	70.0	90.0	70.0	70.0
60		70.0	90.0	70.0	90.0	70.0	70.0
66		70.0	90.0	70.0	90.0	68.2	68.2
72		70.0	90.0	70.0	90.0	62.5	62.5
30	90	70.0	90.0	70.0	90.0	70.0	70.0
36		70.0	90.0	70.0	90.0	70.0	70.0
42		70.0	90.0	70.0	90.0	70.0	70.0
48		70.0	90.0	70.0	90.0	70.0	70.0
54		70.0	90.0	70.0	90.0	70.0	70.0
60		70.0	90.0	70.0	90.0	70.0	70.0
66		70.0	90.0	70.0	90.0	63.6	63.6
72		70.0	90.0	70.0	90.0	58.3	58.3

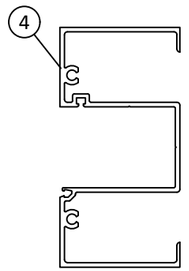
DESIGN LOAD CAPACITY - PSF							
NOMINAL DIMS.		HEAVY JAMB J1		HEAVY MULLION M1		HEAVY MULLION M2	
WIDTH (W) (in.)	FRAME HEIGHT (H) (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30	96	70.0	90.0	70.0	90.0	70.0	70.0
36		70.0	90.0	70.0	90.0	70.0	70.0
42		70.0	90.0	70.0	90.0	70.0	70.0
48		70.0	90.0	70.0	90.0	70.0	70.0
54		70.0	90.0	70.0	90.0	70.0	70.0
60		70.0	90.0	70.0	90.0	65.6	65.6
66		70.0	90.0	70.0	90.0	59.7	59.7
72		70.0	90.0	70.0	90.0	54.7	54.7
30	102	70.0	90.0	70.0	90.0	70.0	70.0
36		70.0	90.0	70.0	90.0	70.0	70.0
42		70.0	90.0	70.0	90.0	70.0	70.0
48		70.0	90.0	70.0	90.0	70.0	70.0
54		70.0	90.0	70.0	90.0	68.6	68.6
60		70.0	90.0	70.0	90.0	61.8	61.8
66		70.0	90.0	70.0	90.0	56.1	56.1
69		70.0	90.0	70.0	90.0	53.7	53.7
30	108	70.0	90.0	70.0	90.0	70.0	70.0
36		70.0	90.0	70.0	90.0	70.0	70.0
42		70.0	90.0	70.0	90.0	70.0	70.0
48		70.0	90.0	70.0	90.0	70.0	70.0
54		70.0	90.0	70.0	90.0	64.8	64.8
60		70.0	90.0	70.0	90.0	58.3	58.3
66		70.0	90.0	70.0	90.0	53.0	53.0
30	114	70.0	90.0	70.0	90.0	70.0	70.0
36		70.0	90.0	70.0	90.0	70.0	70.0
42		70.0	90.0	70.0	90.0	70.0	70.0
48		70.0	90.0	70.0	90.0	69.1	69.1
54		70.0	90.0	70.0	90.0	61.4	61.4
60		70.0	90.0	70.0	90.0	55.3	55.3
63		70.0	90.0	70.0	90.0	52.6	52.6
30	120	70.0	90.0	70.0	90.0	70.0	70.0
36		70.0	90.0	70.0	90.0	70.0	70.0
42		70.0	90.0	70.0	90.0	70.0	70.0
48		70.0	90.0	70.0	90.0	65.6	65.6
54		70.0	90.0	70.0	90.0	58.3	58.3
60		70.0	90.0	70.0	90.0	52.5	52.5



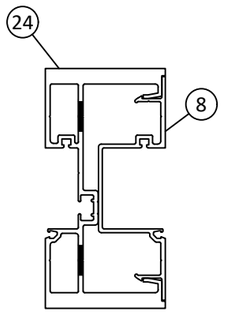
HEAVY JAMB - J1



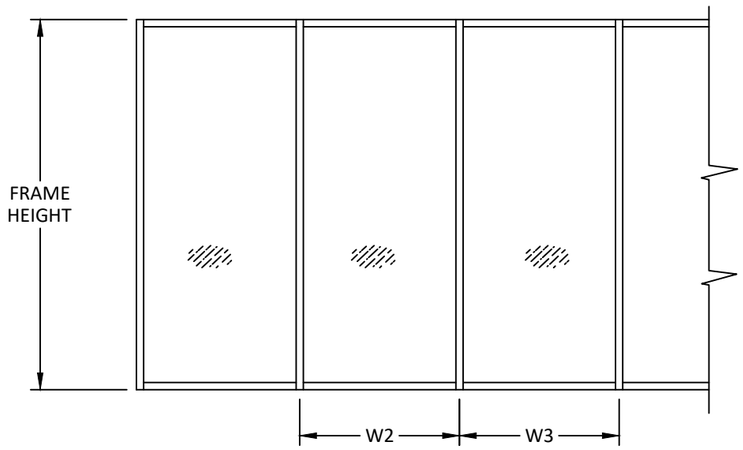
HEAVY MULLION - M1



ANCHORED JAMB - J2



HEAVY MULLION - M2



$$\text{WIDTH (W)} = \frac{W2 + W3}{2} \text{ (MULLION)}$$

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MULLION LOAD TABLES

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

HERMES F. NORIEGA, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41841

DATE: 12.16.2022

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: OBE007

SHEET: 4 OF 14

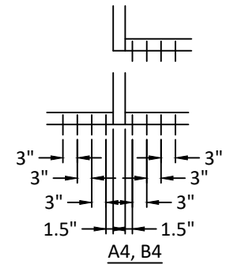
ANCHOR TYPE 'A & B' TABLES

ANCHOR LOAD CAPACITY - PSF					
NOMINAL DIMS.		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'		
WIDTH (W)	FRAME HEIGHT	A4	B4	B5	B6
30	72	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	90.0	90.0	90.0
54		90.0	90.0	90.0	90.0
57		90.0	90.0	90.0	90.0
60		90.0	87.7	90.0	90.0
63		90.0	83.5	90.0	90.0
66		90.0	79.7	90.0	90.0
69		90.0	76.2	90.0	90.0
72		90.0	73.1	90.0	90.0
30	78	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	90.0	90.0	90.0
54		90.0	89.9	90.0	90.0
57		90.0	85.2	90.0	90.0
60		90.0	80.9	90.0	90.0
63		90.0	77.1	90.0	90.0
66		90.0	73.6	90.0	90.0
69		90.0	70.4	88.0	90.0
72		90.0	67.4	84.3	90.0
30	84	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	88.4	90.0	90.0
54		90.0	83.5	90.0	90.0
57		90.0	79.1	90.0	90.0
60		90.0	75.2	90.0	90.0
63		90.0	71.6	89.5	90.0
66		90.0	68.3	85.4	90.0
69		90.0	65.3	81.7	90.0
72		90.0	62.6	78.3	90.0

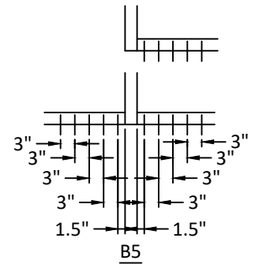
ANCHORS TYPES: SEE SHEET 11 FOR DESCRIPTION

A4 = (4) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION

B4 = (4) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
B5 = (5) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
B6 = (6) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
B7 = (7) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION



A4, B4



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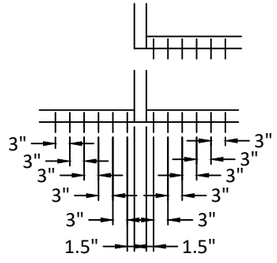
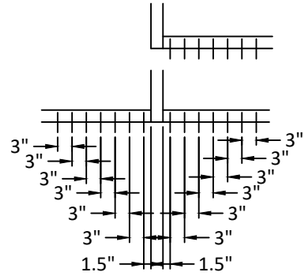
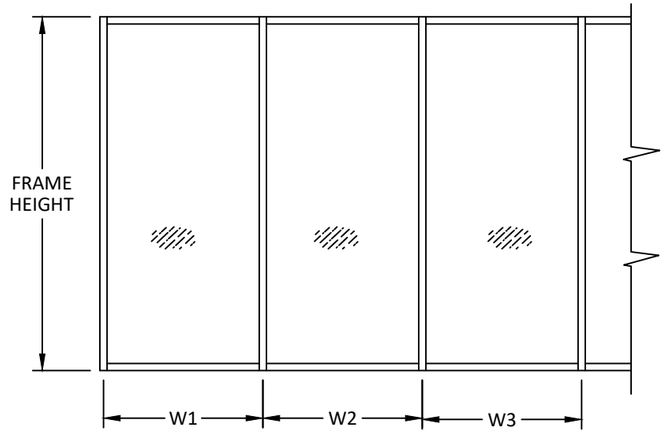


B6



B7



WIDTH (W) = W1 (JAMB)

WIDTH (W) = $\frac{W2 + W3}{2}$ (MULLION)

OLDCASTLE BUILDING ENVELOPE
803 AIRPORT ROAD
TERRELL, TEXAS 75160
PH: (972)551-6100 WEB: OBE.ORG

TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)

TYPE A & B ANCHOR TABLES

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
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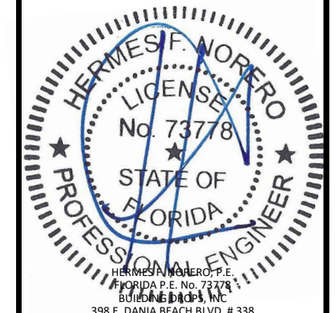
REMARKS	BY	DATE



HERMES F. NORIEGA, P.E.
FLORIDA P.E. No. 73778
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398 E. DANIA BEACH BLVD. # 338
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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41841

DATE: 12.16.2022

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: OBE007

SHEET: 5 OF 14

ANCHOR TYPE 'A & B' TABLES - CONTINUED

ANCHOR LOAD CAPACITY - PSF						
NOMINAL DIMS.		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'			
WIDTH (W)	FRAME HEIGHT	A4	B4	B5	B6	B7
30	90	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0	90.0
48		90.0	87.7	90.0	90.0	90.0
51		90.0	82.5	90.0	90.0	90.0
54		90.0	77.9	90.0	90.0	90.0
57		90.0	73.8	90.0	90.0	90.0
60		90.0	70.1	87.7	90.0	90.0
63		90.0	66.8	83.5	90.0	90.0
66		90.0	63.8	79.7	90.0	90.0
69		90.0	61.0	76.2	90.0	90.0
72		90.0	58.5	73.1	87.7	90.0
30	96	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0	90.0
45		90.0	87.7	90.0	90.0	90.0
48		90.0	82.2	90.0	90.0	90.0
51		90.0	77.4	90.0	90.0	90.0
54		90.0	73.1	90.0	90.0	90.0
57		90.0	69.2	86.5	90.0	90.0
60		90.0	65.8	82.2	90.0	90.0
63		90.0	62.6	78.3	90.0	90.0
66		90.0	59.8	74.7	89.7	90.0
69		90.0	57.2	71.5	85.8	90.0
72		90.0	54.8	68.5	82.2	90.0
30	102	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0	90.0
42		90.0	88.4	90.0	90.0	90.0
45		90.0	82.5	90.0	90.0	90.0
48		90.0	77.4	90.0	90.0	90.0
51		90.0	72.8	90.0	90.0	90.0
54		90.0	68.8	86.0	90.0	90.0
57		90.0	65.1	81.4	90.0	90.0
60		90.0	61.9	77.4	90.0	90.0
63		90.0	58.9	73.7	88.4	90.0
66		90.0	56.3	70.3	84.4	90.0
69		90.0	53.8	67.3	80.7	90.0

ANCHOR LOAD CAPACITY - PSF						
NOMINAL DIMS.		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'			
WIDTH (W)	FRAME HEIGHT	A4	B4	B5	B6	B7
30	108	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0
39		90.0	89.9	90.0	90.0	90.0
42		90.0	83.5	90.0	90.0	90.0
45		90.0	77.9	90.0	90.0	90.0
48		90.0	73.1	90.0	90.0	90.0
51		90.0	68.8	86.0	90.0	90.0
54		90.0	64.9	81.2	90.0	90.0
57		90.0	61.5	76.9	90.0	90.0
60		90.0	58.5	73.1	87.7	90.0
63		90.0	55.7	69.6	83.5	90.0
66		90.0	53.1	66.4	79.7	90.0
30	114	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0	90.0
39		90.0	85.2	90.0	90.0	90.0
42		90.0	79.1	90.0	90.0	90.0
45		90.0	73.8	90.0	90.0	90.0
48		90.0	69.2	86.5	90.0	90.0
51		90.0	65.1	81.4	90.0	90.0
54		90.0	61.5	76.9	90.0	90.0
57		90.0	58.3	72.9	87.4	90.0
60		90.0	55.4	69.2	83.1	90.0
63		90.0	52.7	65.9	79.1	90.0
30	120	90.0	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0	90.0
36		90.0	87.7	90.0	90.0	90.0
39		90.0	80.9	90.0	90.0	90.0
42		90.0	75.2	90.0	90.0	90.0
45		90.0	70.1	87.7	90.0	90.0
48		90.0	65.8	82.2	90.0	90.0
51		90.0	61.9	77.4	90.0	90.0
54		90.0	58.5	73.1	87.7	90.0
57		90.0	55.4	69.2	83.1	90.0
60		90.0	52.6	65.8	78.9	90.0

OLDCASTLE BUILDING ENVELOPE
803 AIRPORT ROAD
TERRELL, TEXAS 75160
PH: (972)551-6100 WEB: OBE.ORG

TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)

TYPE A & B ANCHOR TABLES CONTINUED

PREPARED BY:
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REMARKS	BY	DATE

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HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41841

DATE: 12.16.2022

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: OBE007

SHEET: 6 OF 14

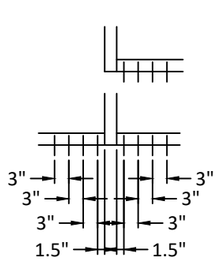
ANCHOR TYPE 'C & D' TABLES

ANCHOR LOAD CAPACITY - PSF				
NOMINAL DIMS.		ANCHOR TYPE 'C'		ANCHOR TYPE 'D'
WIDTH (W)	FRAME HEIGHT	C4	C5	D4
30	72	90.0	90.0	90.0
33		90.0	90.0	90.0
36		90.0	90.0	90.0
39		90.0	90.0	90.0
42		90.0	90.0	90.0
45		90.0	90.0	90.0
48		90.0	90.0	90.0
51		90.0	90.0	90.0
54		90.0	90.0	90.0
57		90.0	90.0	90.0
60		90.0	90.0	90.0
63		90.0	90.0	90.0
66		90.0	90.0	90.0
69		90.0	90.0	90.0
72		90.0	90.0	90.0
30	78	90.0	90.0	90.0
33		90.0	90.0	90.0
36		90.0	90.0	90.0
39		90.0	90.0	90.0
42		90.0	90.0	90.0
45		90.0	90.0	90.0
48		90.0	90.0	90.0
51		90.0	90.0	90.0
54		90.0	90.0	90.0
57		90.0	90.0	90.0
60		90.0	90.0	90.0
63		90.0	90.0	90.0
66		90.0	90.0	90.0
69		90.0	90.0	90.0
72		87.9	90.0	90.0
30	84	90.0	90.0	90.0
33		90.0	90.0	90.0
36		90.0	90.0	90.0
39		90.0	90.0	90.0
42		90.0	90.0	90.0
45		90.0	90.0	90.0
48		90.0	90.0	90.0
51		90.0	90.0	90.0
54		90.0	90.0	90.0
57		90.0	90.0	90.0
60		90.0	90.0	90.0
63		90.0	90.0	90.0
66		89.1	90.0	90.0
69		85.2	90.0	90.0
72		81.6	90.0	90.0

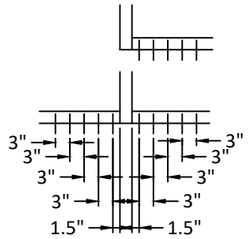
ANCHORS TYPES: SEE SHEET 11 FOR DESCRIPTION

C4 = (4) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
C5 = (5) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
C6 = (6) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

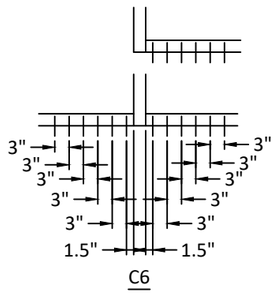
D4 = (4) ANCHORS TYPE 'D' AT JAMB OR EACH SIDE OF MULLION



C4, D4



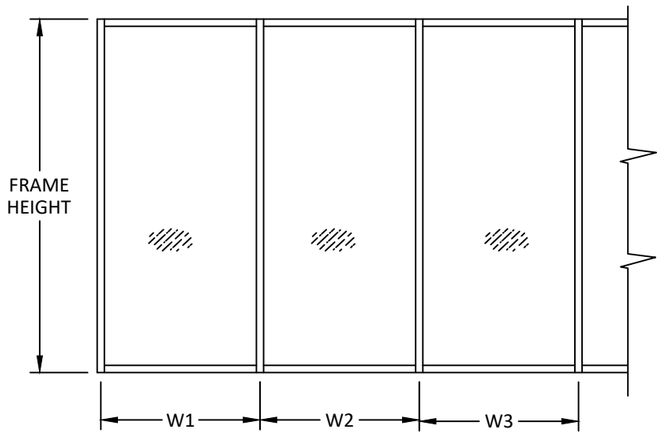
C5



C6

WIDTH (W) = W1 (JAMB)

WIDTH (W) = $\frac{W2 + W3}{2}$ (MULLION)



OLDCASTLE BUILDING ENVELOPE
803 AIRPORT ROAD
TERRELL, TEXAS 75160
PH: (972)551-6100 WEB: OBE.ORG

TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)

TYPE C & D ANCHOR TABLES

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DANIA BEACH, FL 33004
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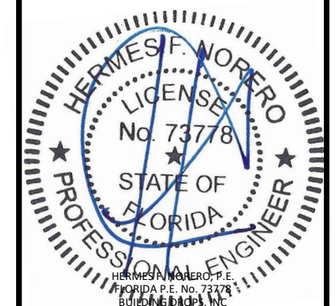
REMARKS	BY	DATE



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FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41841

DATE: 12.16.2022

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: OBE007

SHEET: 7 OF 14

ANCHOR TYPE 'C & D' TABLES - CONTINUED

ANCHOR LOAD CAPACITY - PSF					
NOMINAL DIMS.		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'
WIDTH (W)	FRAME HEIGHT	C4	C5	C6	D4
30	90	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	90.0	90.0	90.0
54		90.0	90.0	90.0	90.0
57		90.0	90.0	90.0	90.0
60		90.0	90.0	90.0	90.0
63		87.1	90.0	90.0	90.0
66		83.1	90.0	90.0	90.0
69		79.5	90.0	90.0	90.0
72		76.2	90.0	90.0	90.0
30	96	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	90.0	90.0	90.0
54		90.0	90.0	90.0	90.0
57		90.0	90.0	90.0	90.0
60		85.7	90.0	90.0	90.0
63		81.6	90.0	90.0	90.0
66		77.9	90.0	90.0	90.0
69		74.5	90.0	90.0	90.0
72		71.4	89.3	90.0	90.0
30	102	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		90.0	90.0	90.0	90.0
54		89.6	90.0	90.0	90.0
57		84.9	90.0	90.0	90.0
60		80.7	90.0	90.0	90.0
63		76.8	90.0	90.0	90.0
66		73.3	90.0	90.0	90.0
69		70.1	87.7	90.0	90.0

ANCHOR LOAD CAPACITY - PSF					
NOMINAL DIMS.		ANCHOR TYPE 'C'			ANCHOR TYPE 'D'
WIDTH (W)	FRAME HEIGHT	C4	C5	C6	D4
30	108	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		89.6	90.0	90.0	90.0
54		84.7	90.0	90.0	90.0
57		80.2	90.0	90.0	90.0
60		76.2	90.0	90.0	90.0
63		72.6	90.0	90.0	90.0
66		69.3	86.6	90.0	90.0
30	114	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
51		84.9	90.0	90.0	90.0
54		80.2	90.0	90.0	90.0
57		76.0	90.0	90.0	90.0
60		72.2	90.0	90.0	90.0
63		68.7	85.9	90.0	90.0
30	120	90.0	90.0	90.0	90.0
33		90.0	90.0	90.0	90.0
36		90.0	90.0	90.0	90.0
39		90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
45		90.0	90.0	90.0	90.0
48		85.7	90.0	90.0	90.0
51		80.7	90.0	90.0	90.0
54		76.2	90.0	90.0	90.0
57		72.2	90.0	90.0	90.0
60		68.6	85.7	90.0	90.0

OLDCASTLE BUILDING ENVELOPE
803 AIRPORT ROAD
TERRELL, TEXAS 75160
PH: (972)551-6100 WEB: OBE.ORG

TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)
TYPE C & D ANCHOR TABLES CONTINUED

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
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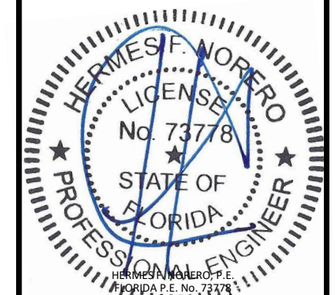
REMARKS	BY	DATE



HERMES F. NORIEGA, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41841

DATE: 12.16.2022

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

DWG. #: OBE007

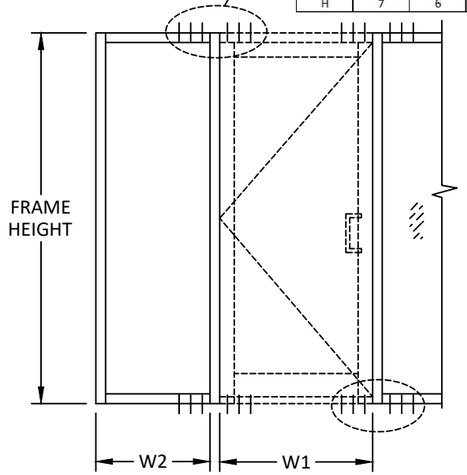
SHEET: 8 OF 14

DOOR MULLION LOAD & ANCHOR TABLES

DOOR MULLION LOAD CAPACITY (PSF)			
NOMINAL DIMS.		WITH STEEL REINF.	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
24	72	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
54		70.0	90.0
60		70.0	90.0
66		70.0	90.0
72		70.0	90.0
24	78	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
54		70.0	90.0
60		70.0	90.0
66		70.0	90.0
72		70.0	90.0
24	84	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
54		70.0	90.0
60		70.0	90.0
66		70.0	90.0
24	90	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
54		70.0	90.0
60		70.0	90.0

DOOR MULLION LOAD CAPACITY (PSF)			
NOMINAL DIMS.		WITH STEEL REINF.	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
24	96	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
54		70.0	90.0
60		70.0	90.0
24	102	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
54		70.0	90.0
24	108	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
24	114	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0
24	120	70.0	90.0
30		70.0	90.0
36		70.0	90.0
42		70.0	90.0
48		70.0	90.0

ANCHOR TYPE	TOTAL NO. OF ANCHORS REQUIRED AT DOUBLE DOOR/SINGLE DOOR TO SIDELITE MULLION AT HEAD & SILL BY DESIGN PRESSURE						
	90 PSF	80 PSF	70 PSF	60 PSF	50 PSF	40 PSF	30 PSF
A	5	4	4	3	3	2	2
B	12	10	9	8	7	5	4
C	9	8	7	6	5	4	3
D	4	4	3	3	2	2	2
E	7	6	5	5	4	3	3
F	12	11	10	8	7	6	4
G	14	13	11	10	8	7	5
H	7	6	5	5	4	3	3

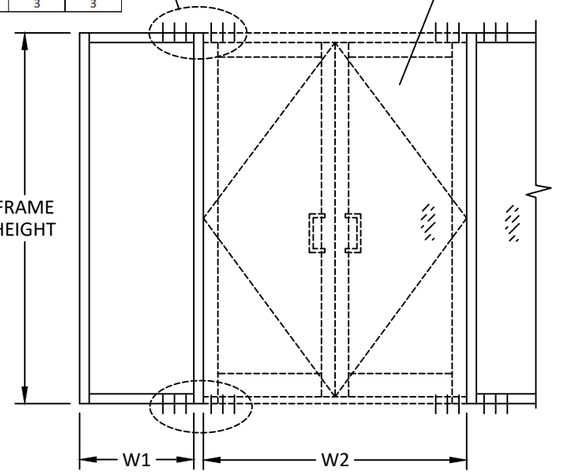


WIDTH (W) = $\frac{W1 + W2}{2}$

SINGLE DOOR

NOTE: DOOR THRESHOLD ANCHORS TO BE 1/4" DIAMETER SEE SHEET 11 FOR DETAILS

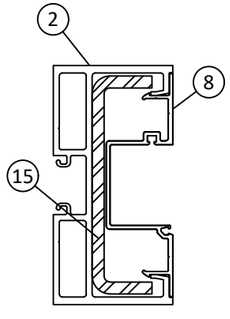
OLDCASTLE BUILDING ENVELOPE OUTSWING DOORS SEE SEPARATE APPROVAL



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$

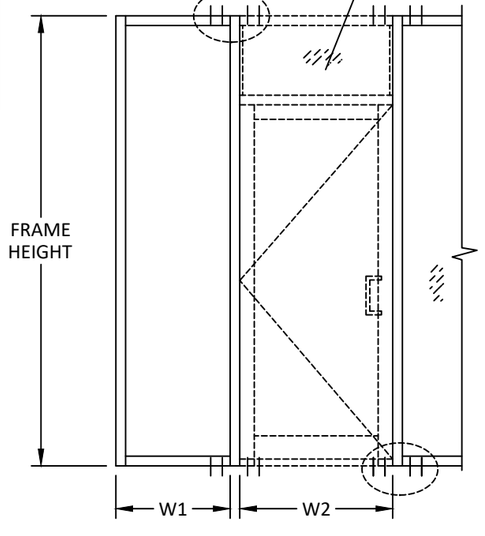
DOUBLE DOOR

ANCHOR TYPE	TOTAL NO. OF ANCHORS REQUIRED AT SINGLE DOOR W/TRANSOM TO SIDELITE MULLION AT HEAD & SILL BY DESIGN PRESSURE						
	90 PSF	80 PSF	70 PSF	60 PSF	50 PSF	40 PSF	30 PSF
A	5	4	4	3	3	2	2
B	12	10	9	8	7	5	4
C	9	8	7	6	5	4	3
D	4	4	3	3	2	2	2
E	7	6	5	5	4	3	3
F	12	11	10	8	7	6	4
G	14	13	11	10	8	7	5
H	7	6	5	5	4	3	3



DOOR MULLION
WITH STEEL REINFORCEMENT

OLDCASTLE BUILDING ENVELOPE OUTSWING DOORS SEE SEPARATE APPROVAL



NOTE: DOOR THRESHOLD ANCHORS TO BE 1/4" DIAMETER SEE SHEET 11 FOR DETAILS

WIDTH (W) = $\frac{W1 + W2}{2}$

SINGLE DOOR WITH TRANSOM

OLDCASTLE BUILDING ENVELOPE
803 AIRPORT ROAD
TERRELL, TEXAS 75160
PH: (972)551-6100 WEB: OBE.ORG

TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E) DOOR MULLION TABLES

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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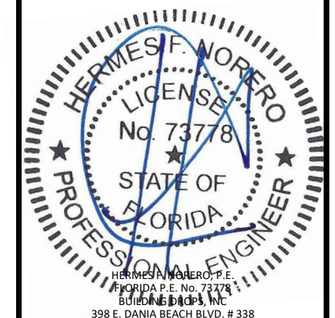
REMARKS	BY	DATE



HERMES F. MORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41841

DATE: 12.16.2022

DWG. BY:	CHK. BY:
SH	HFN

SCALE: NTS

DWG. #: OBE007

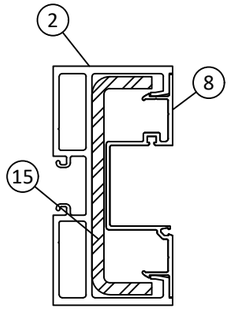
SHEET: 9 OF 14

DOOR MULLION LOAD & ANCHOR TABLES

DOOR MULLION LOAD CAPACITY				
NOMINAL DIMS.			WITH STEEL REINF.	
FRAME HEIGHT (IN.)	DOOR WIDTH - W1 (IN.)	SIDELITE WIDTH - W2 (IN.)	EXT. (+)	INT. (-)
108	72	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
		60	70.0	90.0
		66	70.0	90.0
		72	70.0	90.0
	78	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
		60	70.0	90.0
		66	70.0	90.0
		72	70.0	90.0
	84	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
		60	70.0	90.0
		66	70.0	90.0
		72	70.0	90.0
	90	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
		60	70.0	90.0
		66	70.0	90.0
	96	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
		60	70.0	90.0

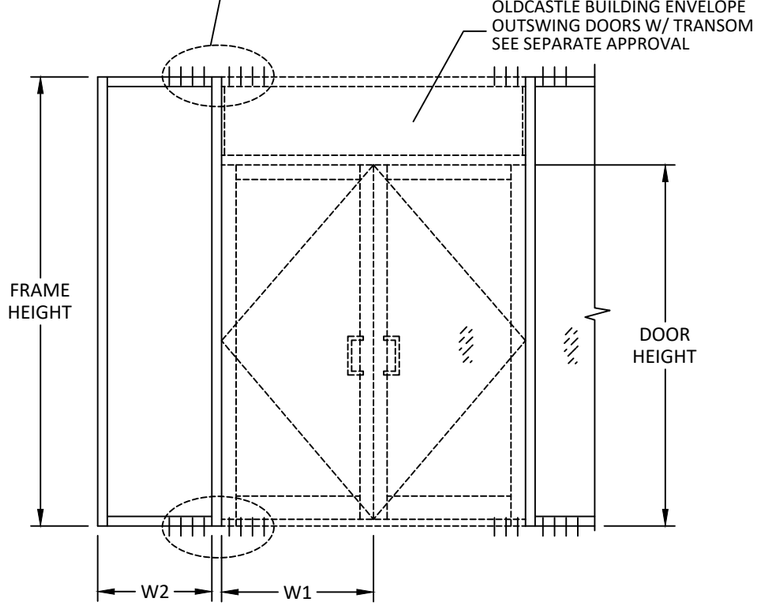
DOOR MULLION LOAD CAPACITY				
NOMINAL DIMS.			WITH STEEL REINF.	
FRAME HEIGHT (IN.)	DOOR WIDTH - W1 (IN.)	SIDELITE WIDTH - W2 (IN.)	EXT. (+)	INT. (-)
114	72	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
		60	70.0	90.0
		66	70.0	90.0
		72	70.0	90.0
	78	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
		60	70.0	90.0
		66	70.0	90.0
	84	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
		60	70.0	90.0
	90	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
	96	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0

DOOR MULLION LOAD CAPACITY				
NOMINAL DIMS.			WITH STEEL REINF.	
FRAME HEIGHT (IN.)	DOOR WIDTH - W1 (IN.)	SIDELITE WIDTH - W2 (IN.)	EXT. (+)	INT. (-)
120	72	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
		60	70.0	90.0
		66	70.0	90.0
	78	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
		60	70.0	90.0
	84	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
		54	70.0	90.0
	90	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0
		48	70.0	90.0
	96	30	70.0	90.0
		36	70.0	90.0
		42	70.0	90.0



DOOR MULLION
WITH STEEL REINFORCEMENT

ANCHOR TYPE	TOTAL NO. OF ANCHORS REQUIRED AT DOOR W/TRANSOM TO SIDELITE MULLION AT HEAD & SILL BY DESIGN PRESSURE						
	90 PSF	80 PSF	70 PSF	60 PSF	50 PSF	40 PSF	30 PSF
A	7	6	5	5	4	3	3
B	17	15	13	12	10	8	6
C	13	12	10	9	8	6	5
D	6	5	4	4	3	3	2
E	10	9	8	7	6	5	4
F	18	16	14	12	10	8	6
G	21	19	16	14	12	10	7
H	10	9	8	7	6	5	4



DOUBLE DOOR WITH TRANSOM

WIDTH (W) = $\frac{W1 + W2}{2}$

NOTE: DOOR THRESHOLD ANCHORS TO BE 1/4" DIAMETER SEE SHEET 11 FOR DETAILS

OLDCASTLE BUILDING ENVELOPE
803 AIRPORT ROAD
TERRELL, TEXAS 75160
PH: (972)551-6100 WEB: OBE.ORG

TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)
DOOR MULLION TABLES CONTINUED

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

HERMES F. NORIEGA, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41841

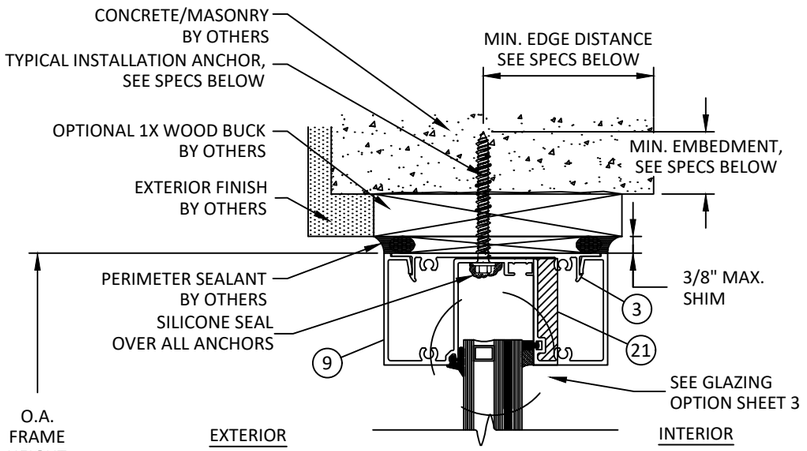
DATE: 12.16.2022

DWG. BY: SH | CHK. BY: HFN

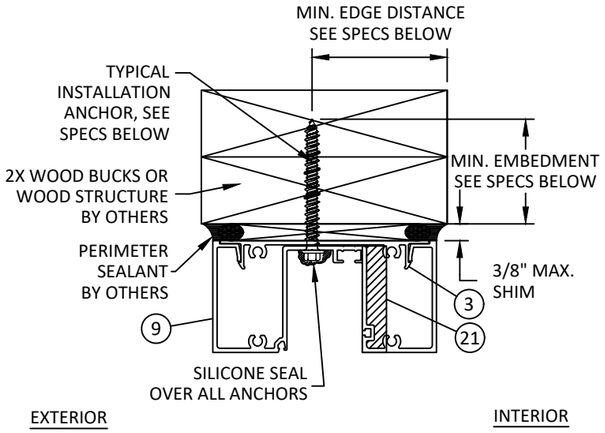
SCALE: NTS

DWG. #: OBE007

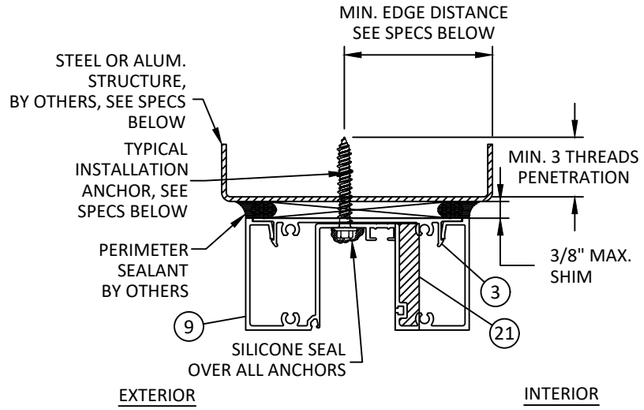
SHEET: 10 OF 14



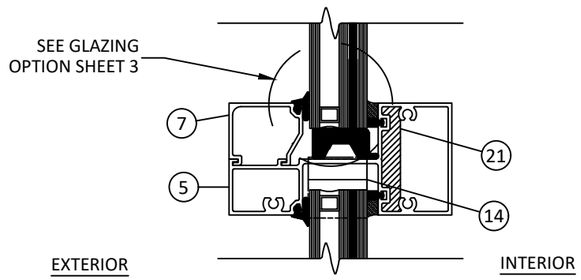
A 11 VERTICAL SECTION
HEAD - CONCRETE/MASONRY W/ 1X BUCK TYPICAL INSTALLATION



B 11 VERTICAL SECTION
HEAD - WOOD FRAMING TYPICAL INSTALLATION



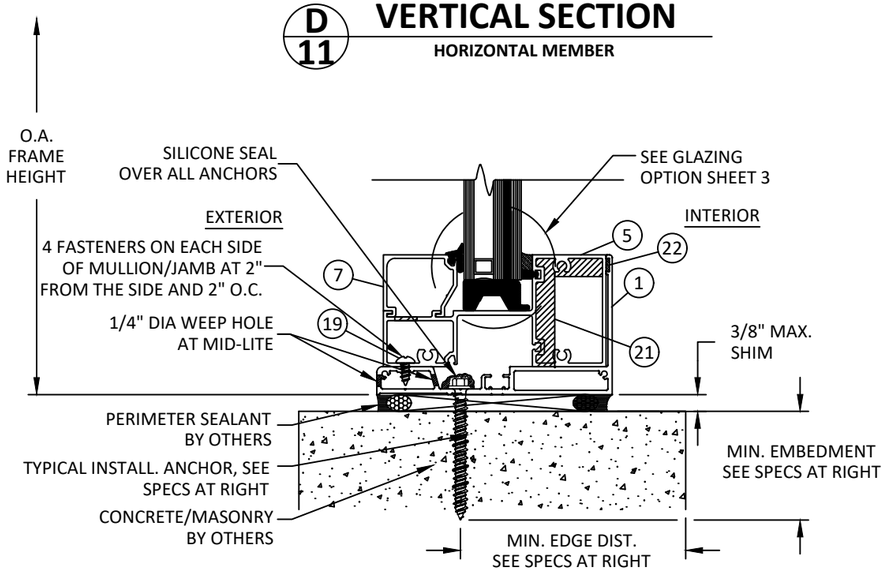
C 11 VERTICAL SECTION
HEAD - METAL SUBSTRATE TYPICAL INSTALLATION



D 11 VERTICAL SECTION
HORIZONTAL MEMBER

LIMIT DESIGN LOADS FOR HORIZONTAL AS FOLLOWS			
MAX HORIZ. SPAN	MAX GLASS HEIGHT ABOVE HORIZ.	MAX DESIGN LOADS	
		EXT. (+)	INT. (-)
57.5"	96"	70 PSF	90 PSF

DESIGN LOADS SHOWN ABOVE ARE BASED ON MAX. GLASS AREA ABOVE HORIZONTAL, FOR SIZES SMALLER THAN SHOWN ABOVE, ALLOWABLE DESIGN LOADS MAY BE CALCULATED SEPARATELY.



E 11 VERTICAL SECTION
SILL - DIRECT TO CONCRETE/MASONRY TYPICAL CONFIGURATION

FG-5750 ANCHOR TYPES					
ANCHOR TYPE	ANCHOR DESCRIPTION	SUBSTRATE REQUIREMENTS	MIN. EMBEDMENT	MIN. EDGE DISTANCE	NOTES
A	5/16" DIA. TAPCON BY ITW (Fu=125 KSI, Fy=100 KSI) OR 5/16" DIA. ULTRACON BY DEWALT (Fu=177 KSI, Fy=155 KSI)	F'C = 3000 PSI MIN.	1-3/4"	2-1/2"	FOR USE THROUGH OPTIONAL 1X BUCKS, BY OTHERS
B		C-90 HOLLOW/FILLED BLOCK AT JAMBS F'M = 2000 PSI MIN.	1-1/2"	2-1/2"	
C	5/16" DIA. ULTRACON BY DEWALT (Fu=177 KSI, Fy=155 KSI)	MIN. S.G. = 0.55 WOOD	1-1/2"	1"	--
D	5/16" SELF-DRILLING SCREWS (GRADE 5)	STEEL: 16 GA. MIN., Fy=36 KSI MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED
E	1/4" DIA. TAPCON BY ITW (Fu=125 KSI, Fy=100 KSI) OR 1/4" DIA. ULTRACON+ BY DEWALT (Fu=177 KSI, Fy=155 KSI)	F'C = 3000 PSI MIN.	1-3/4"	2-1/2"	FOR USE THROUGH OPTIONAL 1X BUCKS, BY OTHERS
F		C-90 HOLLOW/FILLED BLOCK AT JAMBS F'M = 2000 PSI MIN.	1"	2-1/2"	
G	1/4" DIA. ULTRACON+ BY DEWALT (Fu=177 KSI, Fy=155 KSI)	MIN. S.G. = 0.55 WOOD	1-1/2"	1"	--
H	1/4" SELF-DRILLING SCREWS (GRADE 5)	STEEL: 16 GA. MIN., Fy=36 KSI MIN. ALUM.: 1/8" MIN., 6063-T5 MIN.	3 THREADS PENETRATION PAST METAL STRUCTURE	3/4"	STEEL IN CONTACT WITH ALUM. TO BE PLATED OR PAINTED

Oldcastle BuildingEnvelope
OLDCASTLE BUILDING ENVELOPE
803 AIRPORT ROAD
TERRELL, TEXAS 75160
PH: (972)551-6100 WEB: OBE.ORG

TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)
VERTICAL SECTIONS

PREPARED BY:
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398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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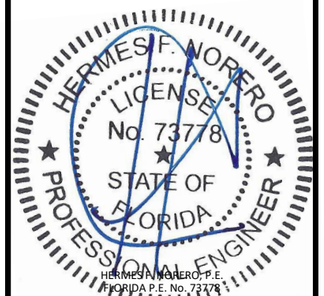

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398 E. DANIA BEACH BLVD. # 338
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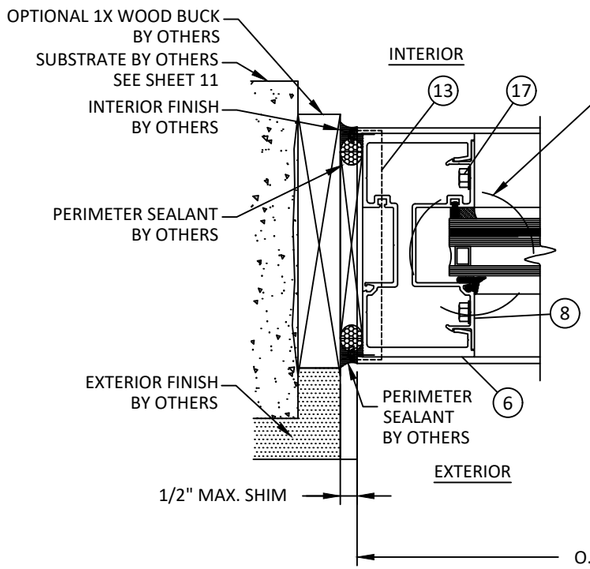
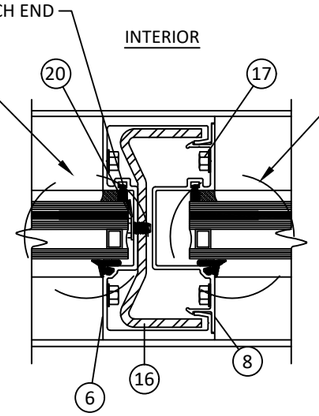
SHEET: 11 OF 14



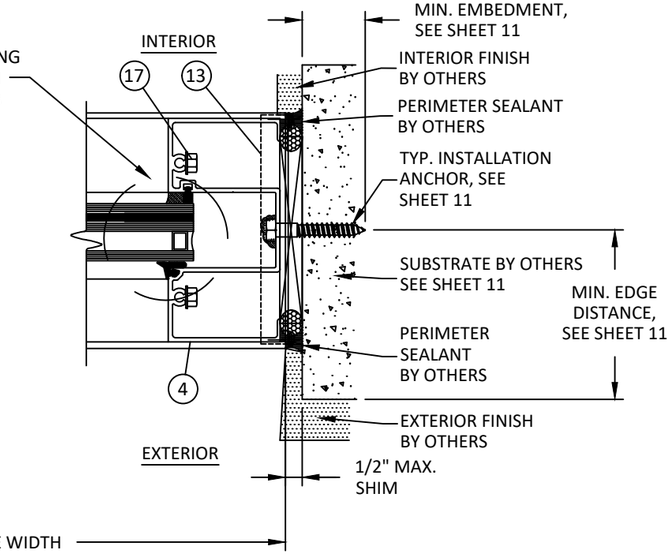
F/12 HORIZONTAL SECTION

JAMB - J1
HEAVY CONFIGURATION



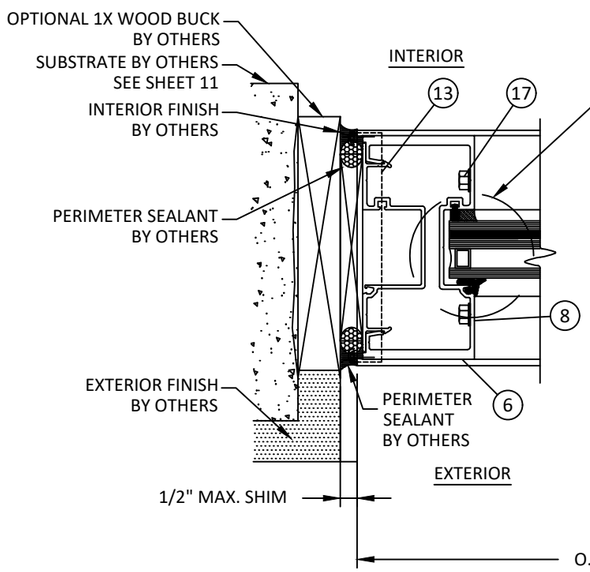
G/12 HORIZONTAL SECTION

VERTICAL MULLION - M1
HEAVY CONFIGURATION



H/12 HORIZONTAL SECTION

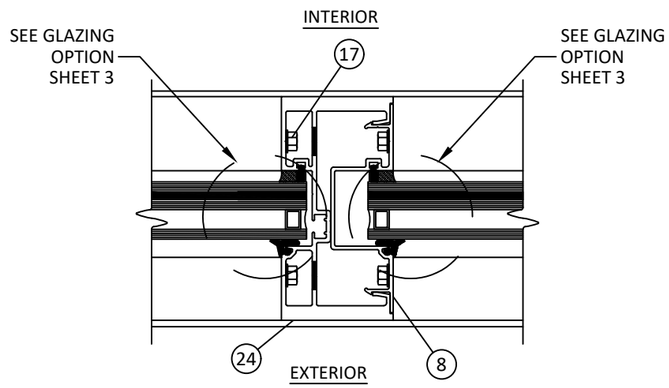
JAMB - J2
TYPICAL CONFIGURATION



F1/12 HORIZONTAL SECTION

JAMB - J1
HEAVY CONFIGURATION

NOTE:
DETAIL I/12 IS LIMITED TO THE DESIGN PRESSURE SHOWN ON SHEET 4



I/12 HORIZONTAL SECTION

VERTICAL MULLION - M2
HEAVY CONFIGURATION

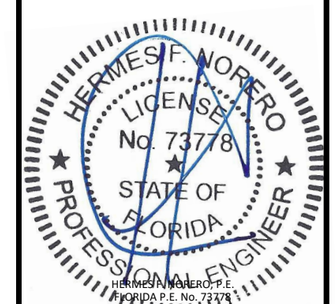
Oldcastle BuildingEnvelope™

OLDCASTLE BUILDING ENVELOPE
803 AIRPORT ROAD
TERRELL, TEXAS 75160
PH: (972)551-6100 WEB: OBE.ORG

TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)
HORIZONTAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE



HERMES F. MORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41841

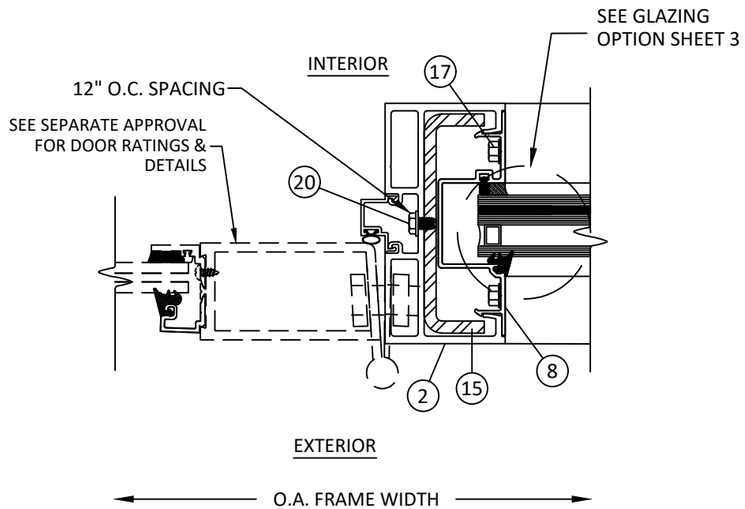
DATE: 12.16.2022

DWG. BY: SH | CHK. BY: HFN

SCALE: NTS

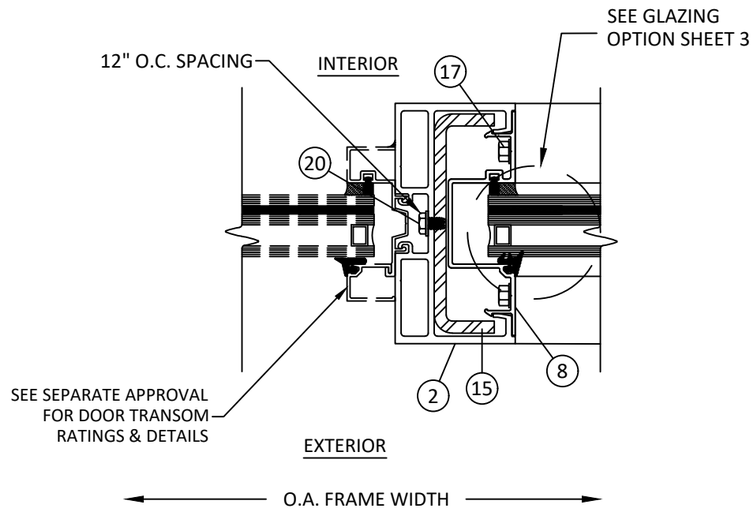
DWG. #: OBE007

SHEET: 12 OF 14



J/13 HORIZONTAL SECTION

DOOR/SIDELITE JAMB MULLION



K/13 HORIZONTAL SECTION

DOOR TRANSOM/SIDELITE JAMB MULLION

OLDCASTLE BUILDING ENVELOPE
803 AIRPORT ROAD
TERRELL, TEXAS 75160
PH: (972)551-6100 WEB: OBE.ORG

TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)

HORIZONTAL SECTIONS

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REMARKS	BY	DATE

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HERMES F. NORIEGA LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

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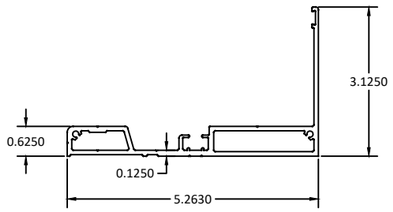
SCALE: NTS

DWG. #: OBE007

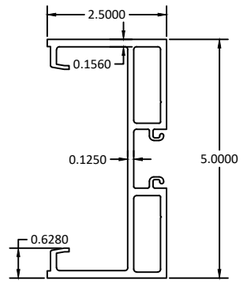
SHEET: 13 OF 14

BILL OF MATERIALS

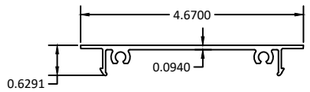
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL
1	FG-5726	SUB-SILL	6063-T6 ALUMINUM
2	FG-5717	HEAVY DOOR JAMB	6063-T6 ALUMINUM
3	FG-5718	HEAD FILLER	6063-T6 ALUMINUM
4	FG-5750	JAMB	6063-T6 ALUMINUM
5	FG-5752	SILL / HORIZONTAL	6063-T6 ALUMINUM
6	FG-5754	MULLION	6063-T6 ALUMINUM
7	FG-5760	GLASS STOP	6063-T6 ALUMINUM
8	FG-5761	MULLION FILLER	6063-T6 ALUMINUM
9	FG-5770	HEAD	6063-T6 ALUMINUM
10	FG-5736	GLAZING GASKET	70 DURO EPDM
11	FG-5731	SPACER GASKET	70 DURO SILICONE
12	FG-5743	SETTING BLOCK	85 DURO SILICONE
13	AN-104-01	END DAM	6063-T6 ALUMINUM
14	FG5790-02	WATER DIVERTER	RIGID PVC
15	FG5000-PP-8	STEEL REINFORCMENT	ZINC RICH PRIMED A.S.T.M A-36 STEEL
16	RS-50	STEEL REINFORCMENT	ZINC RICH PRIMED A.S.T.M A-36 STEEL
17	FS-8	#14 X 1" HH STS	STEEL
18	FS-23	#6 X 3/8" PPH	STEEL
19	FS-27	#12 X 1/2" PPH STS	STEEL
20	FS-354	1/4"-20 X 3/8" SLOTTED HWH TYPE F	STEEL
21	SM-5601	JOINT TAPE	BUTYL MASTIC TAPE
22	SEALANT	PERIMETER SEALANT	SILICONE
23	DOWSIL 995	GLAZING POCKET SEALANT	SILICONE
24	FG-5774	HEAVY MULLION	6063-T6 ALUMINUM



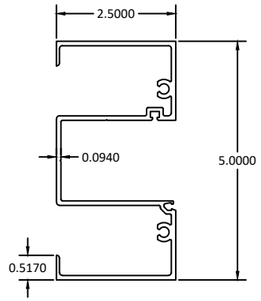
1 SUB-SILL



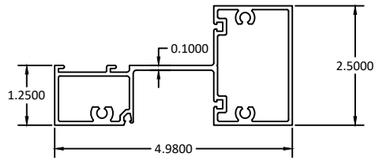
2 HEAVY DOOR JAMB



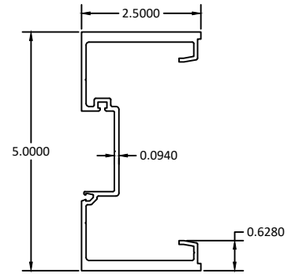
3 HEAD FILLER



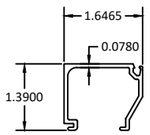
4 JAMB



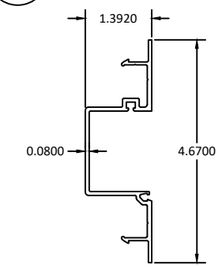
5 SILL/HORIZONTAL



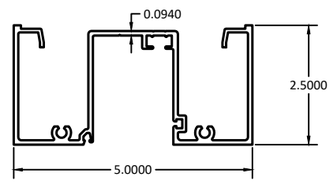
6 MULLION



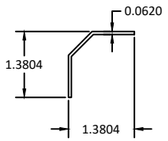
7 GLASS STOP



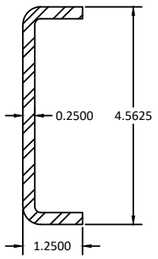
8 MULLION FILLER



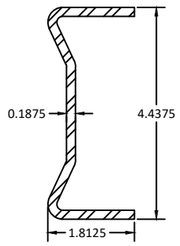
9 HEAD



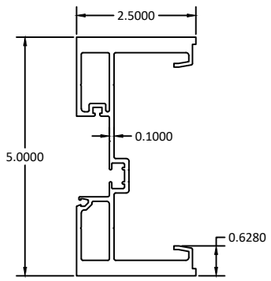
14 WATER DIVERTER



15 STEEL REINFORCMENT (1-1/4" X 4-9/16" X 1/4")



16 STEEL REINFORCMENT (1-13/16" X 4-7/16" X 3/16")



24 HEAVY MULLION

OLDCASTLE BUILDING ENVELOPE
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TERRELL, TEXAS 75160
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TITLE: FG-5750 STORMMAX ALUMINUM STOREFRONT SYSTEM (HVHZ) (MISSILE LEVEL E)
COMPONENTS & BILL OF MATERIALS

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SHEET: 14 OF 14