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COUNTRYSIDE GLASS & MIRROR, INC.

YHC 300 OG - HVHZ

Curtain Wall System with Ballistic Glazing

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBERS OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITH OUT CONSIDERATION OF TOLERANCE). TOLERANCE ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. REFER TO SECTION 7 FOR ANCHOR TYPE, SUBSTRATE STRENGTH, EMBEDMENT, & EDGE DISTANCE REQUIREMENTS. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS FOR INSTALLATION OF ANCHORS.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
6. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
7. 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. ADHESIVE ANCHORS MUST BE INSTALLED BY PERSONNEL CERTIFIED FOR THE SPECIFIED ANCHOR INSTALLATION.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, INCLUDING REQUIREMENTS FOR HVHZ.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY , 2X AND STEEL 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. 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND THE 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 CONDITION 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. THIS PRODUCT DOES NOT REQUIRE IMPACT PROTECTIVE DEVICES.
6. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1	DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
STEP 2	SEE CHARTS ON SECTION 6 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
STEP 3	CHECK MULLION CAPACITY FOR A GIVEN SPACING, HEIGHT, SINGLE SPAN AND CORNERS ON SECTION 4.
STEP 4	USING HEAD/SILL ANCHOR DETAILS, SELECT ANCHOR OPTION FROM TABLES ON SECTION 7 WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
STEP 5	THE LOWEST VALUE RESULTING FROM STEPS 2, 3, AND 4 SHALL APPLY TO ENTIRE SYSTEM.

TABLE OF CONTENTS

SECTION	SECTION DESCRIPTION
1	COVER SHEET & GENERAL NOTES
2	ELEVATION
3	VERTICAL SECTIONS
4	HORIZONTAL SECTIONS
5	DOOR CONNECTION DETAILS
6	GLAZING DETAILS
7	F, T & S ANCHOR DETAILS
8	COMPONENTS & BILL OF MATERIALS

Countryside Glass & Mirror

COUNTRYSIDE GLASS & MIRROR, INC.
2650 GANDY BLVD NORTH
ST. PETERSBURG, FL 33702
PH: (727)738-6000 FAX: (727)738-6100

TITLE: *BALLISTIC CURTAIN WALL SYSTEM*

GENERAL AND INSTALLATION NOTES

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

REMARKS	BY	DATE

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2023.04.13 13:10:50 -04'00'

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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 #: FL41228

DATE: 09.16.22

DWG. BY: SM | CHK. BY: HFN

SCALE: NTS

DWG. #: CGM011

SECTION: 1.0

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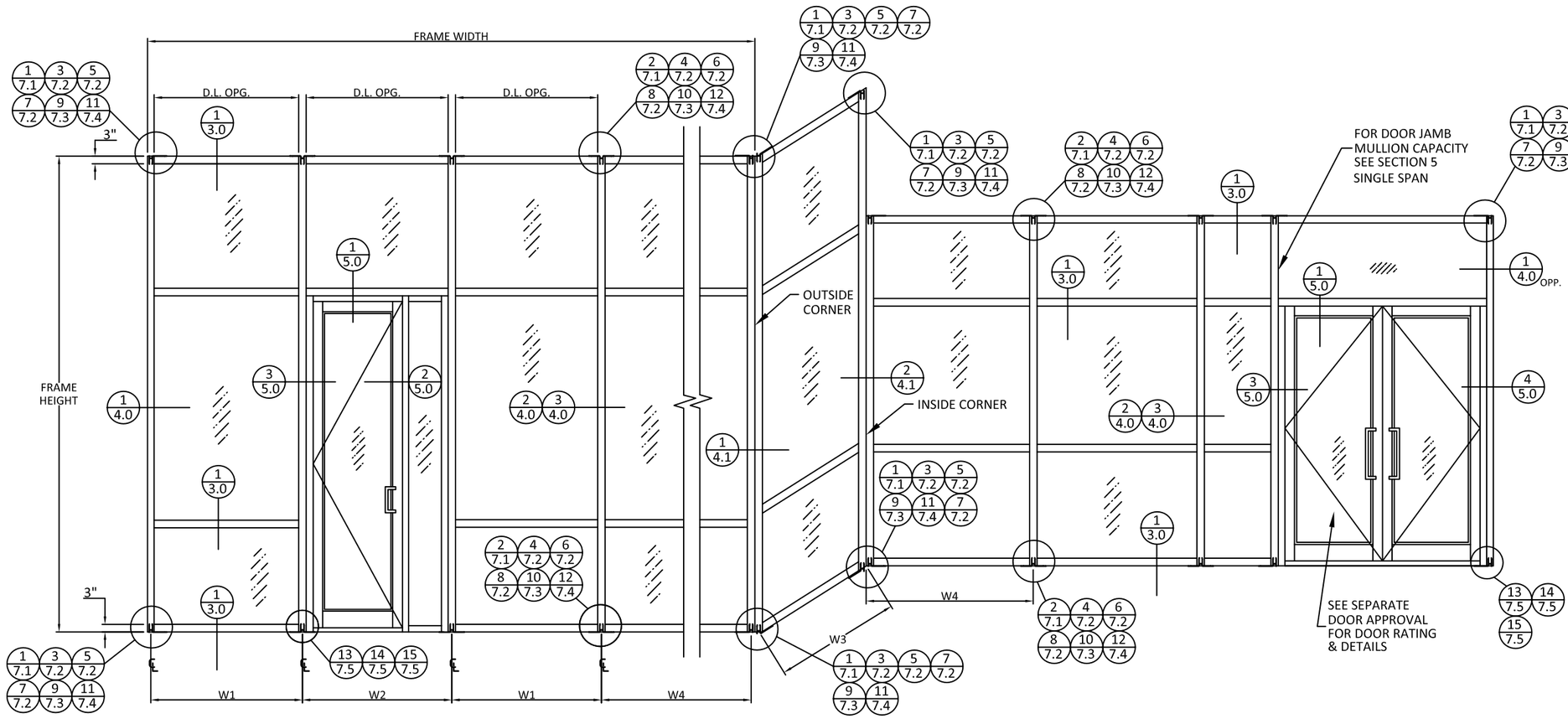
AVERAGE MULLION SPACING

TYP. MULL (W) = $\frac{W1}{2} + \frac{W2}{2}$

JAMB MULL (W) = W1

CORNER MULL (W) = $\frac{W3}{2} + \frac{W4}{2}$



TYPICAL SINGLE SPAN ELEVATION

WITH DOUBLE JAMBS AT CORNERS

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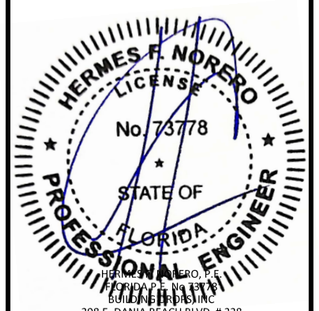

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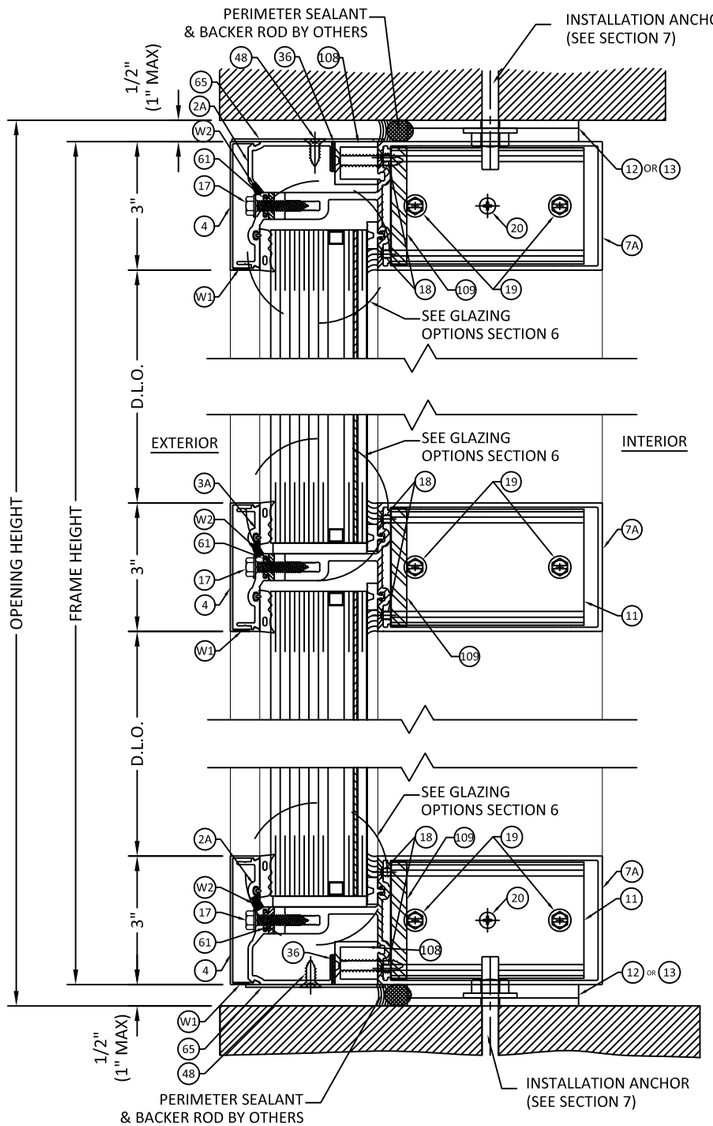
DWG. #: CGM011

SECTION: 2.0

STANDARD MULLIONS - VERTICAL SECTIONS



1/3.0 VERTICAL SECTION

STANDARD MULLION
INSULATING GLASS

WEEPHOLES:
W1 = 5/16" DIA. WEEP HOLES TWO PER D.L. OPNG.
= AT 1/3 POINTS FROM VERTICALS
W2 = 5/16" DIA. WEEP HOLES THREE PER LITE
= AT 3" FROM VERTICALS AND CENTER OF D.L. OPNG.

NOTE:
SOLID SHIM UP TO 1/4" MAY BE USED BETWEEN ANCHOR & SUBSTRATE INCREASING THE CAULK JOINT TO 1" ALLOWABLE UNDER THIS CONDITION.

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TITLE: *BALLISTIC CURTAIN WALL SYSTEM* ELEVATION

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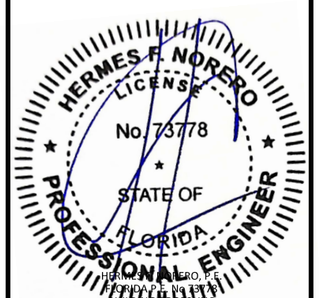

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SECTION: 3.0

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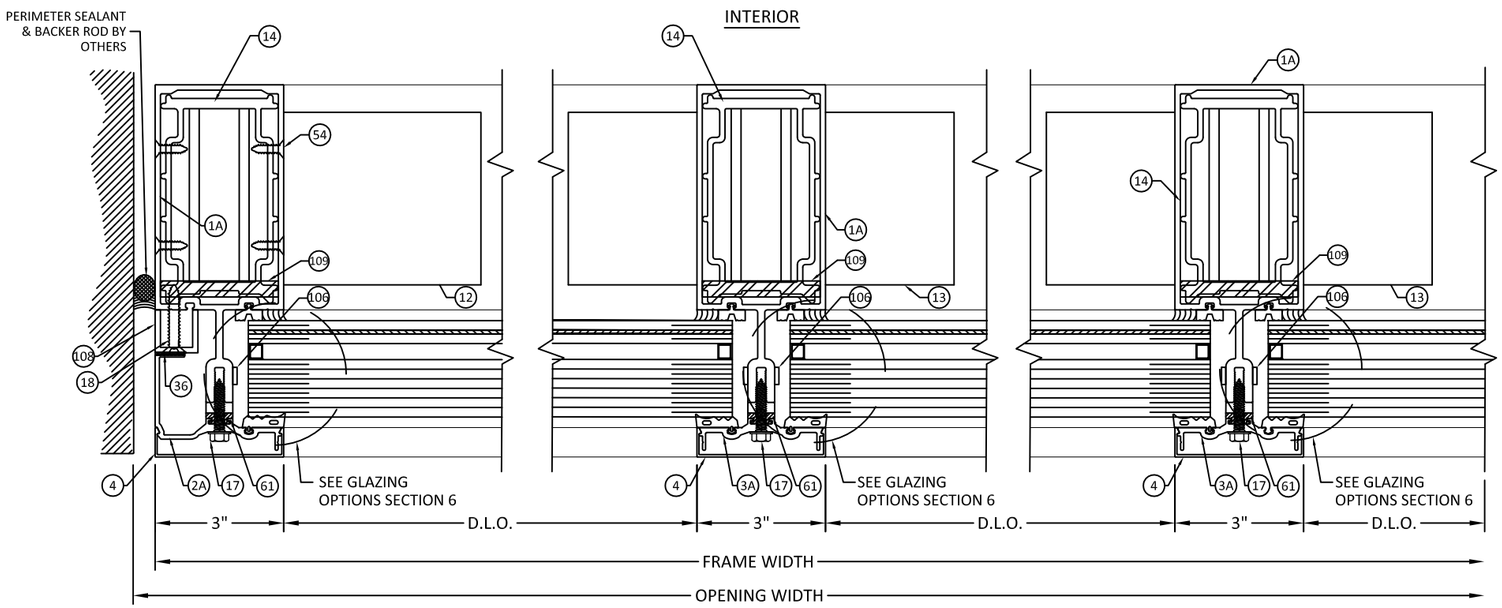

1 / 4.0 HORIZONTAL SECTION
STANDARD MULLION
INSULATING GLASS

2 / 4.0 HORIZONTAL SECTION
STANDARD MULLION
INSULATING GLASS

3 / 4.0 HORIZONTAL SECTION
STANDARD MULLION (REINFORCED)
INSULATING GLASS

MAX. DESIGN LOAD-PSF	MIN. GAP	OPENING WIDTH MAX. GAP
90	1/2"	1"

NOTE:
JOINT AT JAMBS IS NON-STRUCTURAL AND SHALL BE SUFFICIENT TO PROVIDE PROPER WEATHERPROOFING. SEALANT JOINT SIZE MAY VARY IN ACCORDANCE WITH SEALANT MANUFACTURER'S GUIDELINES AND RECOMMENDATION AND SHALL BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

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TITLE: *BALLISTIC CURTAIN WALL SYSTEM*
HORIZONTAL SECTIONS

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DANIA BEACH, FL 33004
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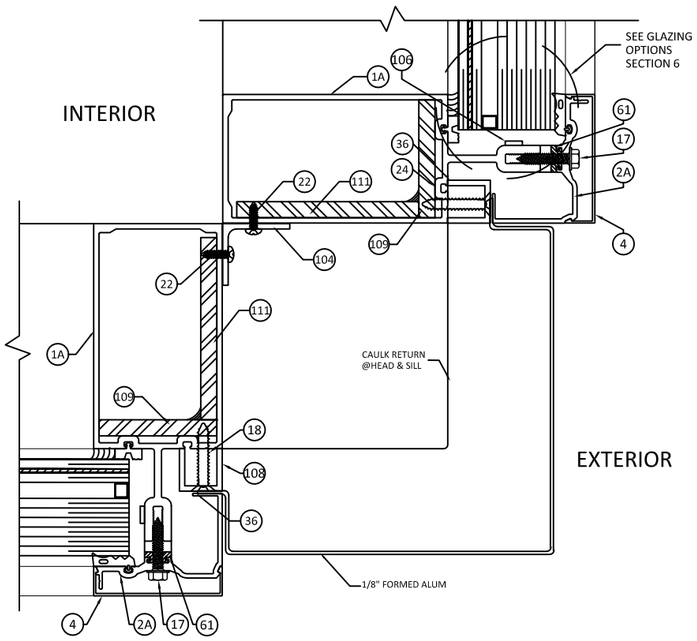
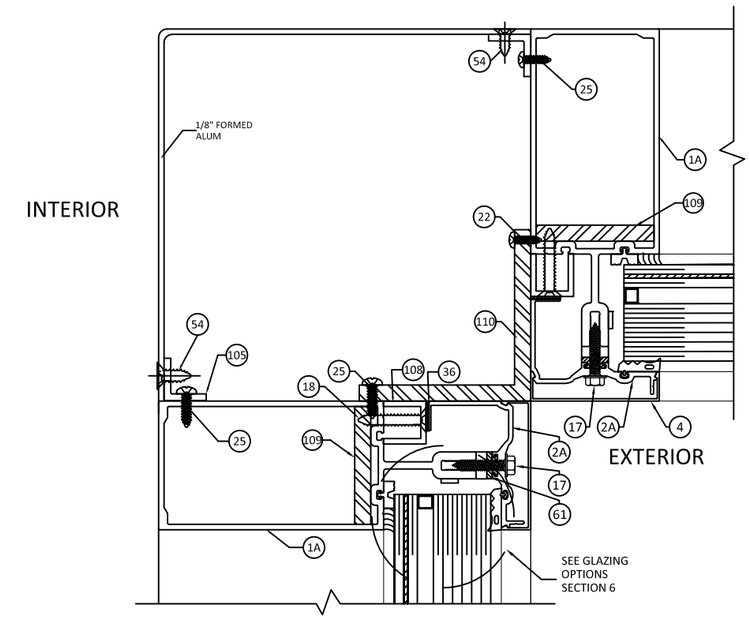
FL #: FL41228
DATE: 09.16.22
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: CGM011
SECTION: 4.0

STANDARD DUTY CORNER MULLIONS - HORIZONTAL SECTIONS



1 / 4.1 HORIZONTAL SECTION
STANDARD DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS



2 / 4.1 HORIZONTAL SECTION
STANDARD DUTY MULLION
90° INSIDE CORNER - INSULATING GLASS

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TITLE: *BALLISTIC CURTAIN WALL SYSTEM*
MULLION CAPACITY CHARTS

PREPARED BY:
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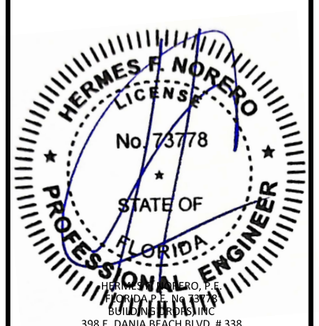

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SECTION: 4.1

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STANDARD DUTY MULLION CAPACITY CHARTS

NOTES

1. DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER CURRENT FBC SPECIFICATIONS FOR HVHZ
2. SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
3. FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.
4. WHEN PANEL WIDTHS ARE NOT EQUAL, USE THE AVERAGE WIDTH ON THE CHART.

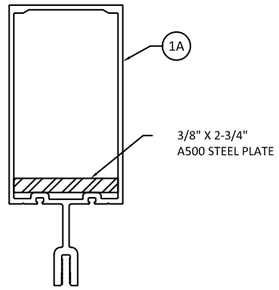
JAMB/MULLION LOAD CAPACITY		
NOMINAL DIMS.		MULLION - 'M1'
WIDTH (W)	SPAN HEIGHT (H)	EXT. (+) INT. (-)
24	78	90.0
30		90.0
36		90.0
42		90.0
48		90.0
54		90.0
60		90.0
66		90.0
72		90.0
24	84	90.0
30		90.0
36		90.0
42		90.0
48		90.0
54		90.0
60		90.0
66		90.0
72		90.0
24	90	90.0
30		90.0
36		90.0
42		90.0
48		90.0
54		90.0
60		90.0
66		90.0
72		90.0
24	96	90.0
30		90.0
36		90.0
42		90.0
48		90.0
54		90.0
60		90.0
66		90.0
72		90.0
24	102	90.0
30		90.0
36		90.0
42		90.0
48		90.0
54		90.0
60		90.0
66		90.0
72		90.0
24	108	90.0
30		90.0
36		90.0
42		90.0
48		90.0
54		90.0
60		90.0
66		90.0
72		82.5
24	114	90.0
30		90.0
36		90.0
42		90.0
48		90.0
54		90.0
60		88.9
66		80.8
72		74.1
24	120	90.0
30		90.0
36		90.0
42		90.0
48		90.0
54		88.2
60		79.4
66		72.2
72		66.2

JAMB/MULLION LOAD CAPACITY		
NOMINAL DIMS.		MULLION - 'M1'
WIDTH (W)	SPAN HEIGHT (H)	EXT. (+) INT. (-)
24	126	90.0
30		90.0
36		90.0
42		90.0
48		85.7
54		76.2
60		68.6
66		62.4
72		57.2
24	132	90.0
30		90.0
36		90.0
42		85.2
48		74.6
54		66.3
60		59.7
66		54.2
72		49.7
24	138	90.0
30		90.0
36		87.0
42		74.6
48		65.3
54		58.0
60		52.2
66		47.5
72		43.5
24	144	90.0
30		90.0
36		76.6
42		65.6
48		57.4
54		51.1
60		45.9
66		41.8
72		38.3
24	150	90.0
30		81.3
36		67.8
42		58.1
48		50.8
54		45.2
60		40.7
66		37.0
72		33.9

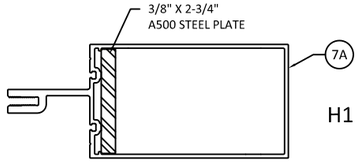
STANDARD DUTY HORIZONTAL MULLIONS (+/- PSF)	
WIDTH, W (in) 'Span'	**Ext. (+) Int. (-)**
72	90

MULLIONS

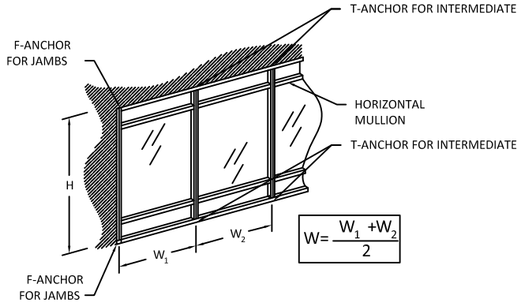
M1



STANDARD DUTY MULLION
(E9-7479)



STANDARD DUTY HORIZONTAL
(E9-7480)



SINGLE SPAN

VERTICAL MEMBER SINGLE SPAN NOTES:

1. DETAILS HAVE BEEN SHOWN FOR ILLUSTRATIVE PURPOSES. FOR DETAILS OF FULL ASSEMBLY PLEASE REFER TO APPLICABLE DETAILS ON SECTION 3.
2. TABULATED DESIGN PRESSURE VALUES ARE BASED ON LIMITATIONS OF DEFLECTION, FIBERSTRESS, & END REACTION PER MULLION SPAN ('L') AND MULLION SPACING ('W').
3. FOR SITE CONDITIONS WHICH EXCEED LIMITATIONS SHOWN, FURTHER ENGINEERING MAY BE REQUIRED ON A CASE BY CASE BASIS.
4. FOR T, F, OR S CLIP ANCHORS, PLEASE REFER TO SECTION 7 FOR ANCHOR SELECTION, SUBSTRATE REQUIREMENTS, AND FURTHER LIMITATIONS OF USE.

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MULLION CAPACITY CHARTS

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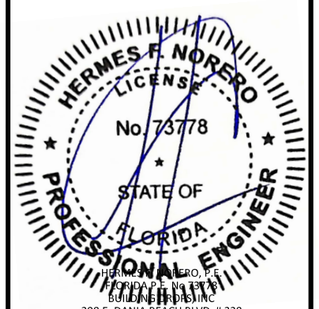

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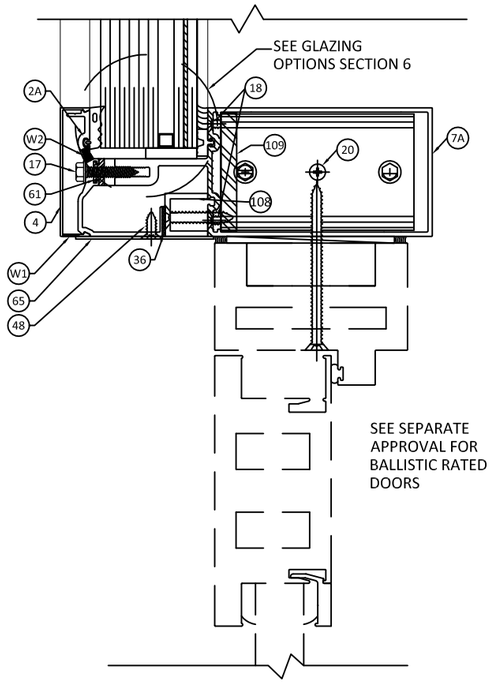
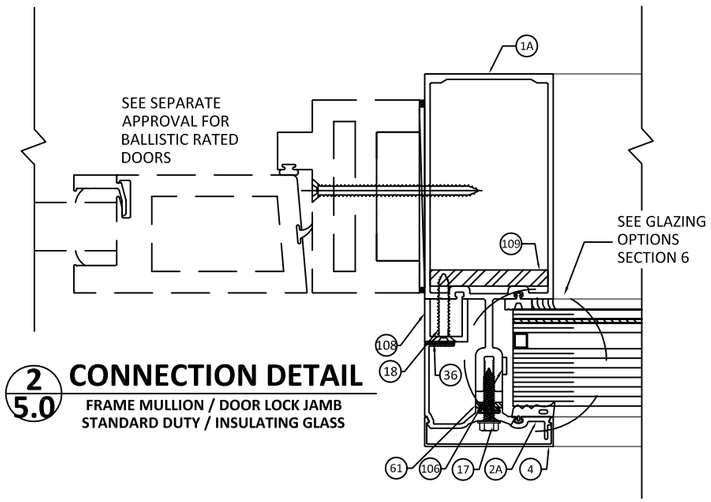
SECTION: 4.2

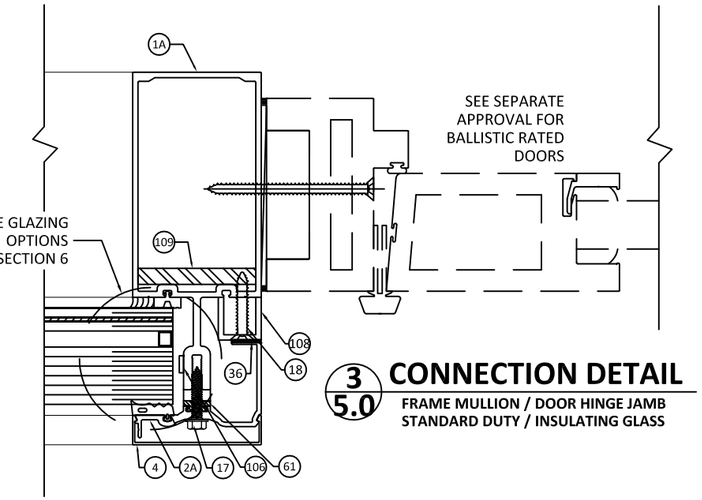
STANDARD DUTY MULLION DOOR DETAILS



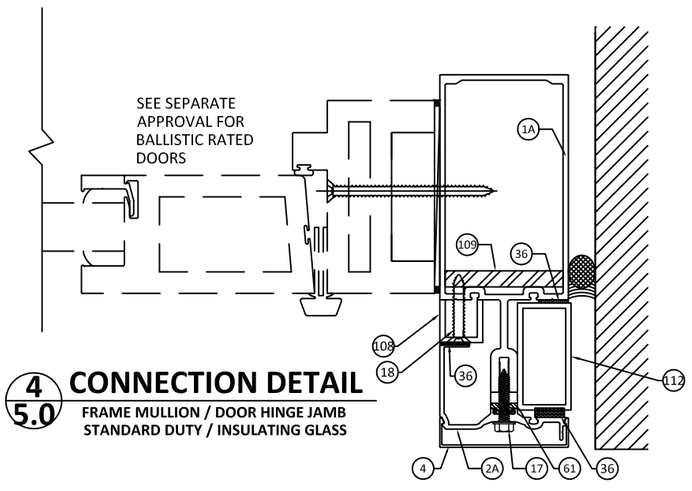
1 / 5.0 CONNECTION DETAIL
FRAME MULLION / DOOR HEAD
STANDARD DUTY / INSULATING GLASS



2 / 5.0 CONNECTION DETAIL
FRAME MULLION / DOOR LOCK JAMB
STANDARD DUTY / INSULATING GLASS

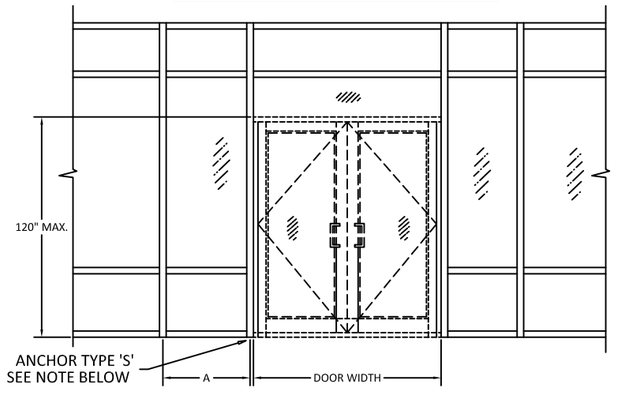


3 / 5.0 CONNECTION DETAIL
FRAME MULLION / DOOR HINGE JAMB
STANDARD DUTY / INSULATING GLASS



4 / 5.0 CONNECTION DETAIL
FRAME MULLION / DOOR HINGE JAMB
STANDARD DUTY / INSULATING GLASS

DOOR JAMB MULLION CAPACITY



MAX. DOOR OPNG, WIDTH	A	DP (+/- PSF)
96"	30"	90.0
84"	38"	90.0
72"	46"	90.0

NOTE: FOR DOOR HEIGHT LESS THAN OR EQUAL TO 120" IN. USE ABOVE TABLE.

CONCRETE AND METAL STRUCTURE NOT BY COUNTRYSIDE. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

WEEPHOLES:
W1 = 5/16" DIA. WEEP HOLES TWO PER D.L. OPNG.
= AT 1/3 POINTS FROM VERTICALS
W2 = 5/16" DIA. WEEP HOLES THREE PER LITE
= AT 3" FROM VERTICALS AND CENTER OF D.L. OPNG.

Countryside Glass & Mirror
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TITLE: *BALLISTIC CURTAIN WALL SYSTEM* DOOR DETAILS

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

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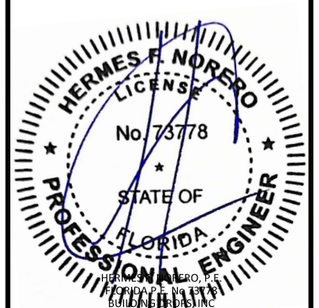

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41228

DATE: 09.16.22

DWG. BY: SM | CHK. BY: HFN

SCALE: NTS

DWG. #: CGM011

SECTION: 5.0

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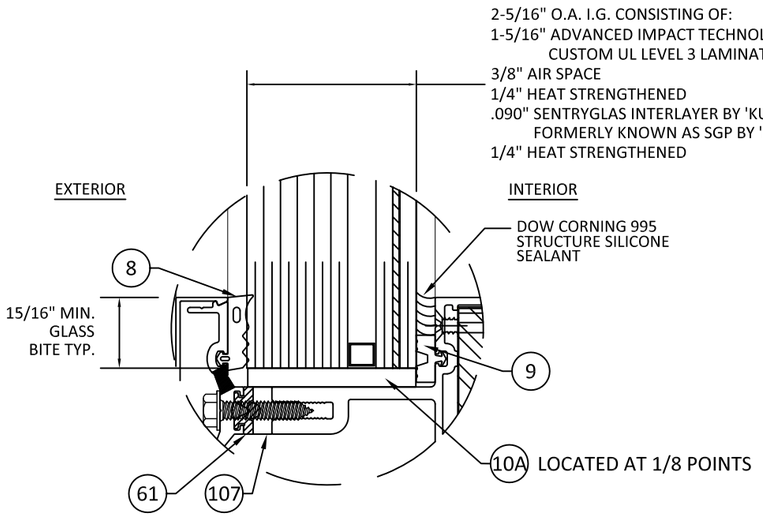
INSULATING LARGE MISSILE IMPACT GLASS OPTIONS

NOTES:

1. CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' (a ≥ b), AND CH. 17 OF THE FBC FOR SIZES OTHER THAN TESTED
2. DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS
3. THIS APPROVAL IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE GLAZING. GLAZING SUITABILITY FOR BALLISTIC RESISTANCE PERFORMANCE SHALL BE REVIEWED AND VERIFIED ON A PROJECT BY PROJECT BASIS.



GLASS TYPE 'A'

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 1/8 SPAN LENGTH AS PER CHAPTER 24.
4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

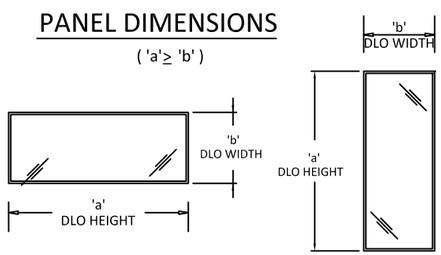
3/8" AIR SPACE CONSISTING OF:

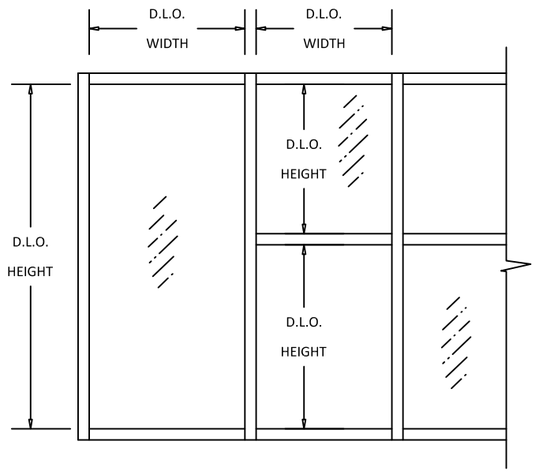
- SPACER: ALUMINUM BOX SPACER
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB)
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS

D.L.O. WIDTH = PANEL WIDTH - 3"
D.L.O. HEIGHT = PANEL HEIGHT - 6"

PANEL DIMENSIONS

('a' ≥ 'b')





GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS.		GLASS TYPE 'A'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)
24	60	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60		85.5	85.5
66		85.5	85.5
72		85.5	85.5
24	66	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60		85.5	85.5
66		77.7	77.7
72		77.7	77.7
24	72	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60		85.5	85.5
66		77.7	77.7
72		71.3	71.3
24	78	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60		85.5	85.5
66		77.7	77.7
72		71.3	71.3
24	84	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60		85.5	85.5
66		77.7	77.7
72		71.3	71.3

GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS.		GLASS TYPE 'A'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)
24	90	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60		85.5	85.5
66		77.7	77.7
72		71.3	71.3
24	94.5	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
57		90.0	90.0
60		85.5	85.5
66		77.7	77.7
72		71.3	71.3
24	102	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60		85.5	85.5
66		77.7	77.7
24	108	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60		85.5	85.5
24	114	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60		85.5	85.5
24	120	90.0	90.0
30		90.0	90.0
36		90.0	90.0
39		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
57		90.0	90.0

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TITLE: *BALLISTIC CURTAIN WALL SYSTEM*
GLAZING DETAILS

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

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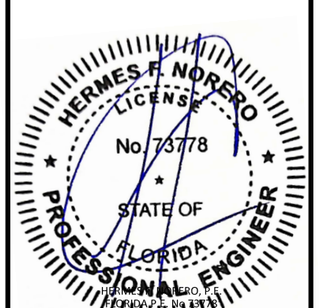

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DWG. BY: SM | CHK. BY: HFN

SCALE: NTS

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SECTION: 6.0

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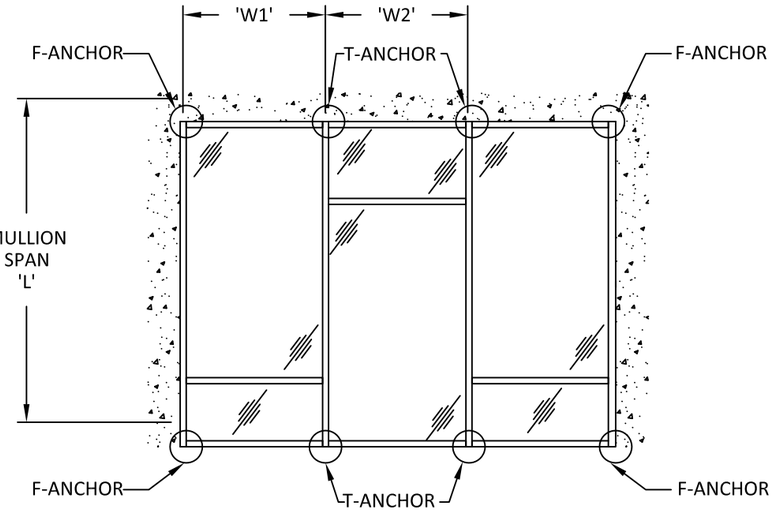
F, T, & S ANCHOR TYPES

TYPE	DIAMETER	ANCHOR TYPE	SUBSTRATE	MINIMUM EDGE DISTANCE	MINIMUM EMBEDMENT
A	1/2"	HILTI KWIK BOLT TZ	MIN. 3000 PSI CONCRETE 'UNCRACKED'	3 1/4"	3 5/8"
			MIN. 3000 PSI CONCRETE 'CRACKED OR UNCRACKED'	4 1/2"	
			MIN. 4000 PSI CONCRETE 'UNCRACKED'	3 1/4"	
			MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	3 3/4"	
B	1/2"	HILTI HAS + HIT HY200 ADHESIVE ANCHOR	MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	5"	5"
C	1/2"	DEWALT SCREW-BOLT+	MIN. 3000 PSI CONCRETE 'UNCRACKED'	5"	4 1/4"
			MIN. 3000 PSI CONCRETE 'CRACKED OR UNCRACKED'	6 1/8"	
D	1/2"	"ASTM A325 OR SAE GR. 5 THREADED BOLT WITH NUT & WASHER OR DRILL & TAP, OR ELCO TAP-FLEX GR. 5 SELF TAPPING BOLT"	MIN. 1/4" THICK, A36 STEEL	1 1/2"	MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE OR NUT
E	1/2"	SIMPSON TITEN HD	MIN. 4000 PSI CONCRETE 'UNCRACKED'	3 5/8"	4"
F	1/2"	HILTI KWIK BOLT TZ2	MIN. 4000 PSI CONCRETE 'UNCRACKED'	5 3/4"	3 3/4"
G	1/2"	SELF-TAPPING OR THREADED BOLT, MIN. SAE GR. 5 OR ASTM A325	MIN. 3/16" THICK A36 STEEL	1 1/4"	- FOR SELF-TAPPING OR DRILL & TAPPED HOLES, MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE. - FOR STANDARD DRILLED HOLES, PENETRATION TO BE SUFFICIENT TO MAINTAIN FULL ENGAGEMENT WITH NUT & WASHER
H	3/8"	SIMPSON TITEN HD	MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	3 5/8"	3 1/4"
I	3/8"	HILTI KWIK BOLT TZ2	MIN. 4000 PSI CONCRETE 'UNCRACKED'	4 1/4"	2 1/2"
J	5/16"	ELCO DRIL-FLEX OR HILTI KWIK-FLEX SELF-DRILLING	MIN. 16 GAUGE STEEL, MIN. Fy = 33KSI	3/4"	MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
K	#14	ELCO CRETE FLEX SS4	MIN. 3500 PSI CONCRETE 'UNCRACKED'	1 3/4"	1 3/4"
L	1/4"	HILTI KWIK-CONII+	MIN. 2000 PSI CONCRETE 'UNCRACKED'	1 3/4"	1 3/4"
M	M12	HALFEN TEE-BOLT GR. 8.8 FOR USE WITH HT3512 & HT6112 HALFEN CAST IN CHANNELS	MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	3"	PER HALFEN'S SPECIFICATIONS HT3512 = 3 1/8" HT6112 = 6 3/8"
N	3/8"	DEWALT SCREW-BOLT+	MIN 3000 PSI CONCRETE UNCRACKED	3 7/8"	2 1/2"
O	#14	WOOD SCREW	WOOD (MIN SG. = 0.55)	1"	1 1/4"
	1/4"	GR 5 SM SCREW			
	1/4"	ELCO ULTRACON			

MULLION SPACING OR BAY WIDTH, 'W', FOR T-ANCHORS	$W = \frac{W1 + W2}{2}$
MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT JAMBS	W = W1
MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT VERTICAL MULL WITH DOORS	$*W = \frac{W1 + W2}{2}$

*REFER TO SECTION 2 FOR ILLUSTRATION OF DETERMINING MAX. TRIBUTARY WIDTH

NOTE:
1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUCTURER'S INSTALLATION INSTRUCTIONS.
2. REFER TO ANCHOR LAYOUTS AT RIGHT FOR LOCATIONS AND DETERMINING MAX. LENGTHS (L) AND TRIBUTARY WIDTHS (W).
3. FOR SITE CONDITIONS NOT SHOWN IN THE DETAILS HEREIN OR EDGE DISTANCE REQUIREMENTS TO BE MODIFIED, ANCHORS MAY BE ENGINEERED ON A SITE SPECIFIC BASIS.
4. REFER TO SECTION 7 DETAILS FOR T, F, & S ANCHOR TYPE CAPACITIES.
5. FOR ANCHOR TYPE 'M', FINAL SELECTION OF HALFEN CAST IN CHANNEL & T-BOLTS SHALL BE VERIFIED BY HALFEN USA IN ACCORDANCE WITH SITE SPECIFIC LOADS PRIOR TO INSTALLATION.



SINGLE SPAN ANCHOR LAYOUT

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F, T & S - ANCHOR DETAILS

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

HERMES F. NORERO, P.E.
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BUILDING DROPS INC
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DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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SCALE: NTS
DWG. #: CGM011
SECTION: 7.0

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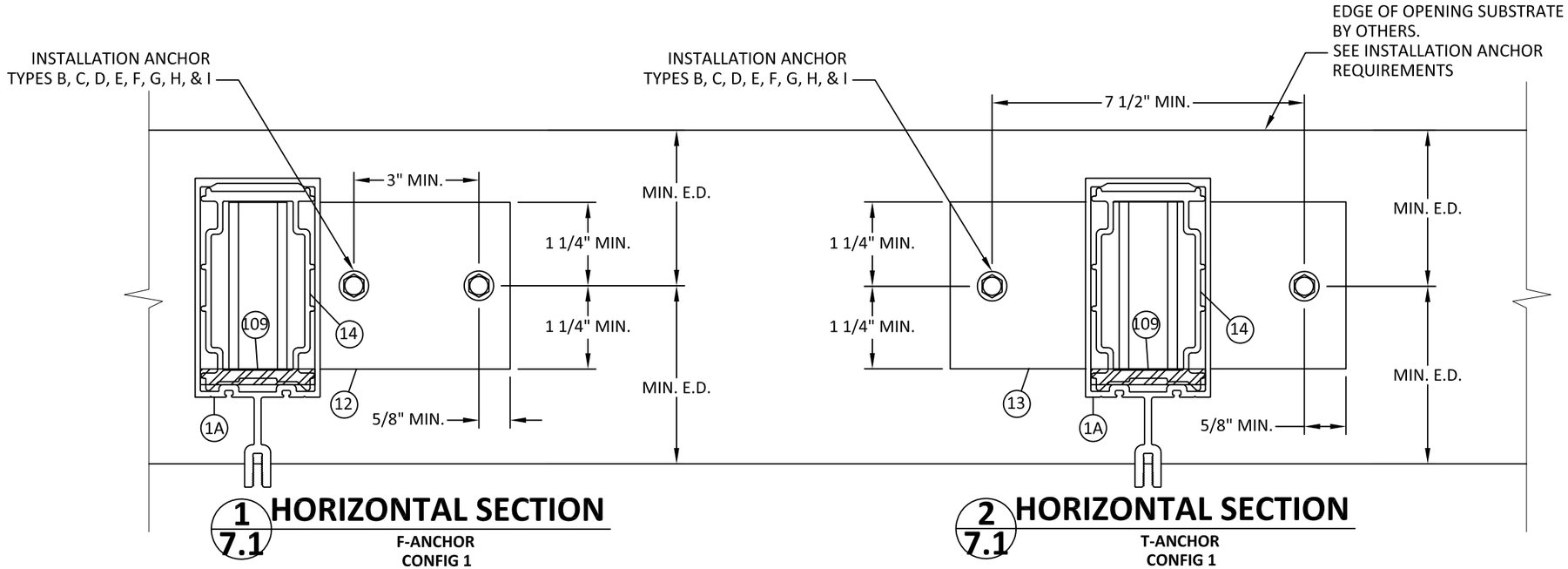
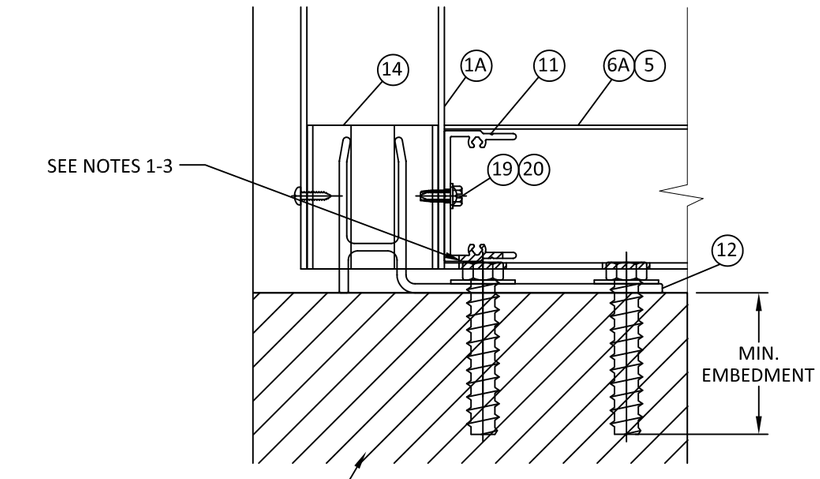


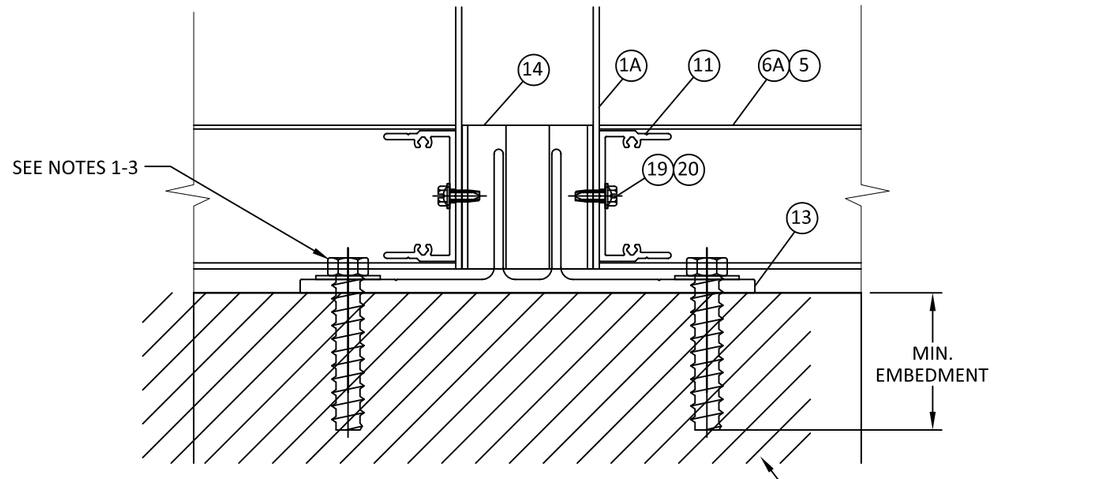
1 / 7.1 HORIZONTAL SECTION
F-ANCHOR
CONFIG 1

2 / 7.1 HORIZONTAL SECTION
T-ANCHOR
CONFIG 1

NOTE:
1. ANCHORS SHOWN HEREIN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL ANCHOR IDENTIFICATION SHALL BE PER ANCHOR MANUFACTURERS INSTALLATION INSTRUCTIONS
2. ANCHOR BOLT EXTENSIONS MAY BE CLIPPED TO T.O. HEX NUT AND SHEAR BLOCKS MAY BE NOTCHED TO ALLOW FOR ANCHOR CLEARANCE.
3. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE, SECTION 7.



EXTERIOR VIEW
F-ANCHOR (TYPICAL)



EXTERIOR VIEW
T-ANCHOR (TYPICAL)

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F & T - ANCHOR DETAILS

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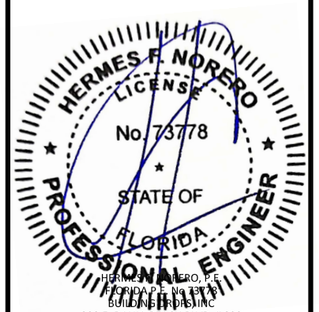

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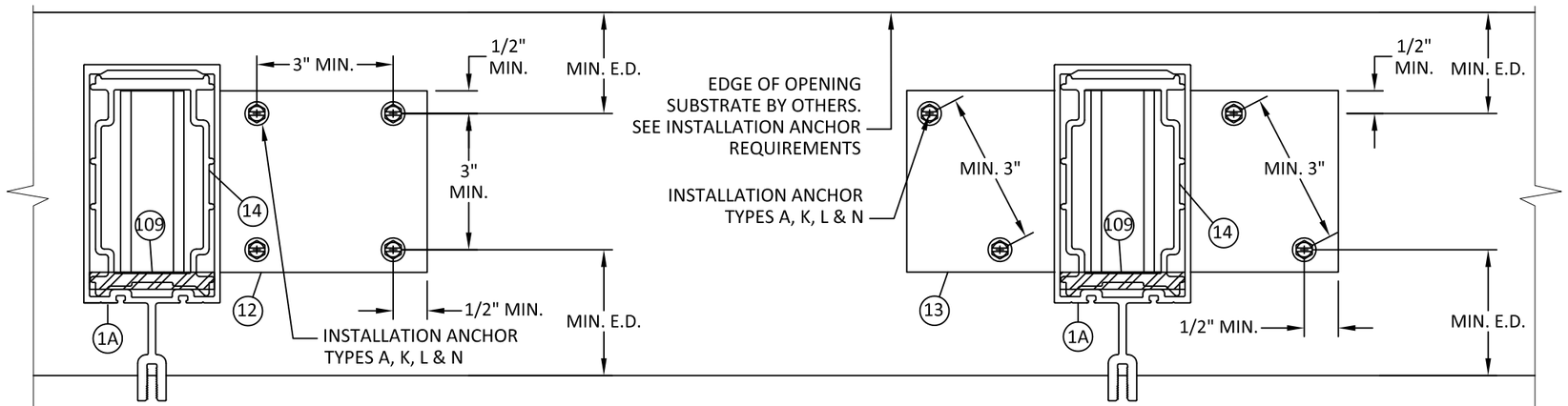
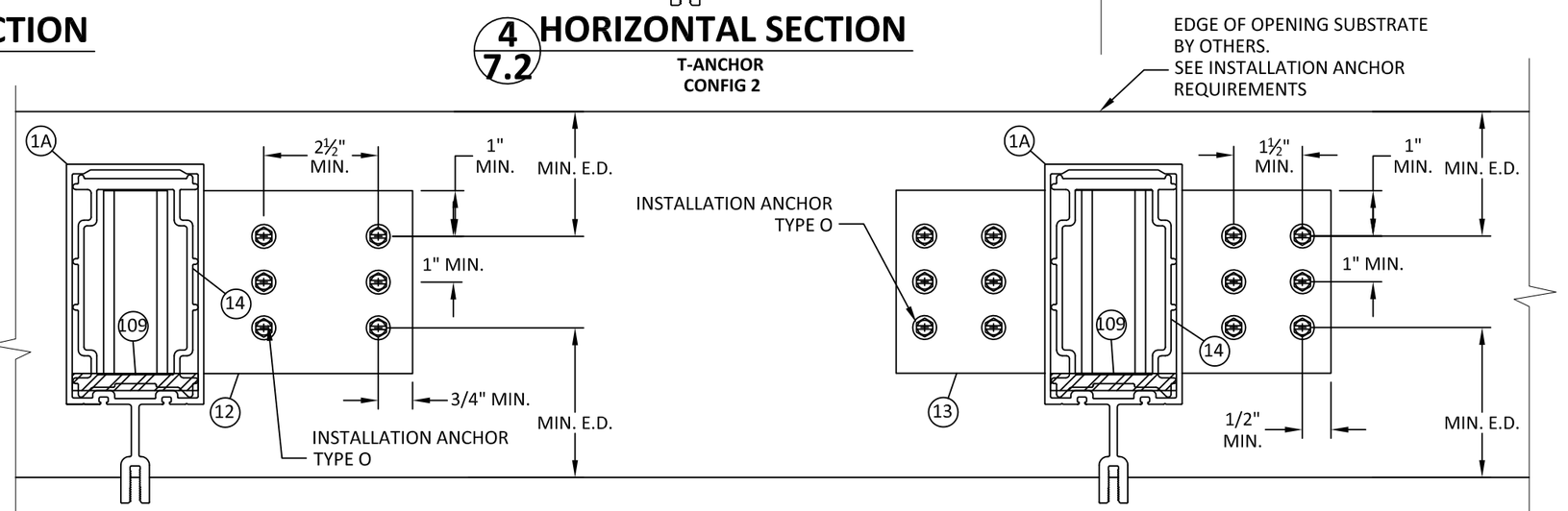


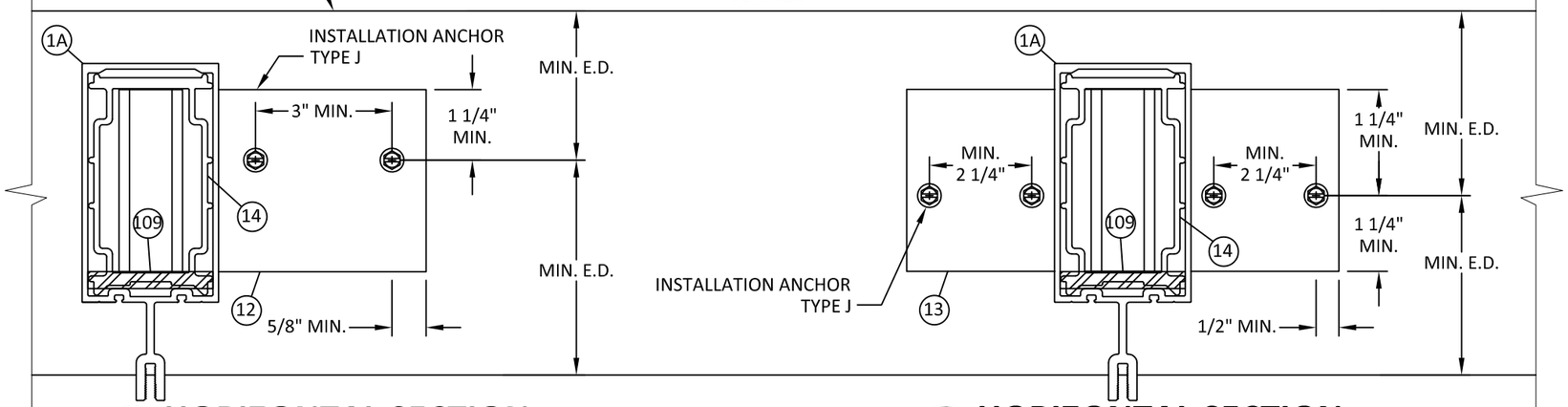
3 / 7.2 HORIZONTAL SECTION
F-ANCHOR
CONFIG 2

4 / 7.2 HORIZONTAL SECTION
T-ANCHOR
CONFIG 2



5 / 7.2 HORIZONTAL SECTION
F-ANCHOR
CONFIG 3

6 / 7.2 HORIZONTAL SECTION
T-ANCHOR
CONFIG 3



7 / 7.2 HORIZONTAL SECTION
F-ANCHOR
CONFIG 7

8 / 7.2 HORIZONTAL SECTION
T-ANCHOR
CONFIG 7

Countryside Glass & Mirror
COUNTRYSIDE GLASS & MIRROR, INC.
2650 GANDY BLVD NORTH
ST. PETERSBURG, FL 33702
PH: (727)738-6000 FAX: (727)738-6100

TITLE: *BALLISTIC CURTAIN WALL SYSTEM*
F & T - ANCHOR DETAILS

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

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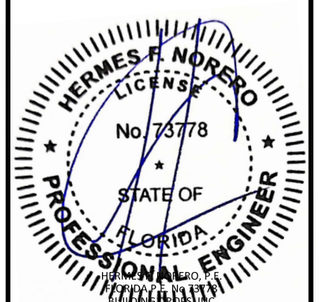

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41228
DATE: 09.16.22
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: CGM011
SECTION: 7.2

4/13/2023 9:29 AM
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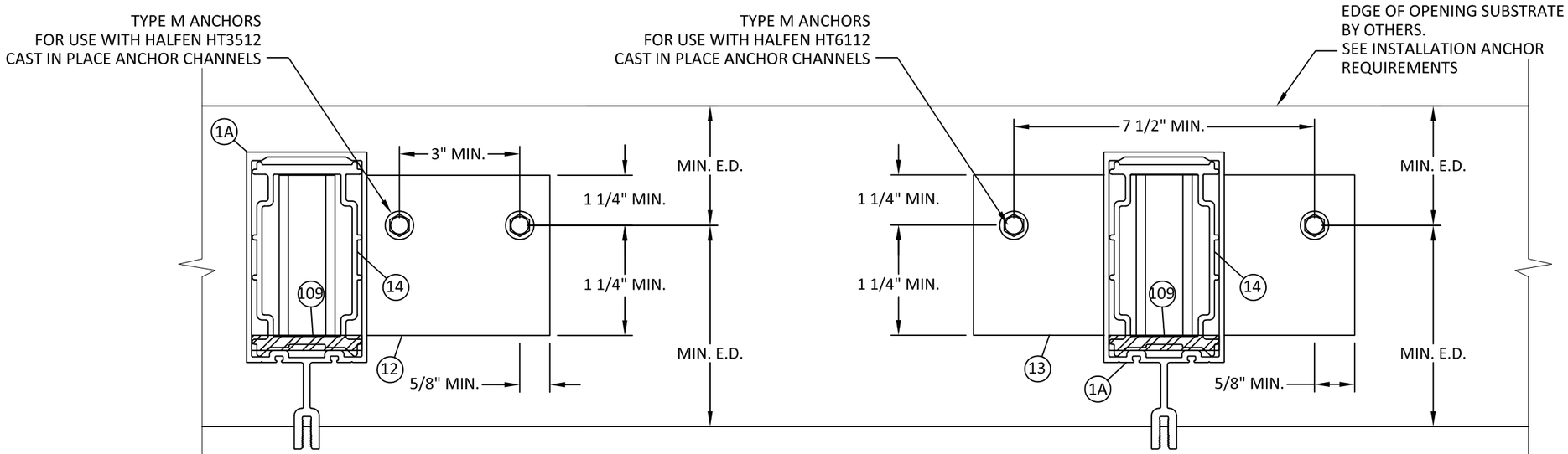
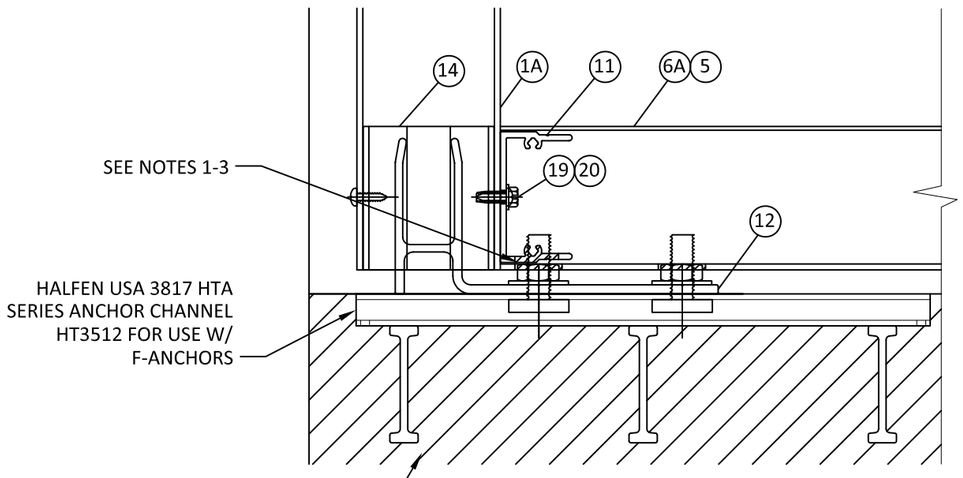


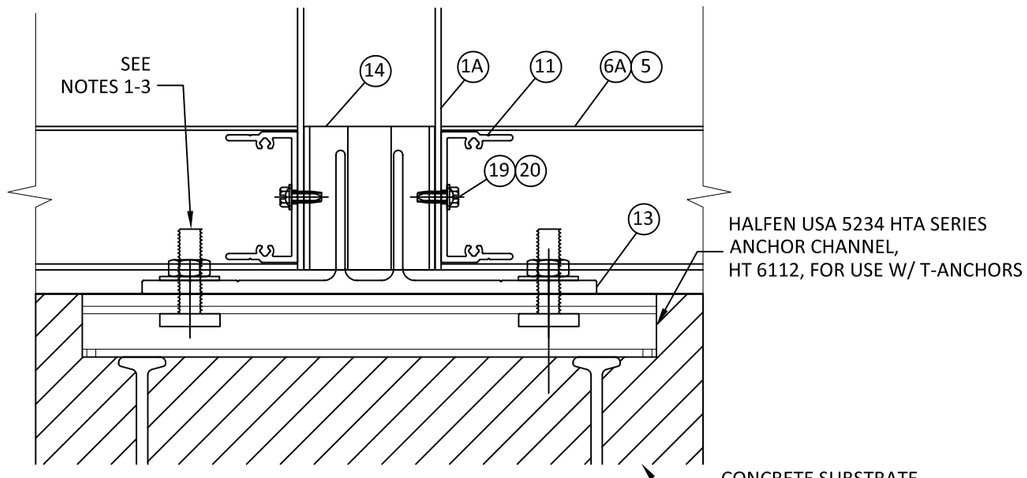
9 / 7.3 HORIZONTAL SECTION
F-ANCHOR
CONFIG 1

10 / 7.3 HORIZONTAL SECTION
T-ANCHOR
CONFIG 1

NOTE:
1. ANCHORS SHOWN HEREIN HAVE BEEN SPECIFIED PER ANCHOR MANUFACTURER'S RECOMMENDATIONS. CAST IN ANCHOR CHANNELS, HT3512 SHALL BE USED WITH F-ANCHORS AND HT6112 SHALL BE USED WITH T-ANCHORS.
2. ANCHOR BOLT EXTENSIONS MAY BE CLIPPED TO T.O. HEX NUT AND SHEAR BLOCKS MAY BE NOTCHED TO ALLOW FOR ANCHOR CLEARANCE.
3. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE



EXTERIOR VIEW
F-ANCHOR (TYPICAL)



EXTERIOR VIEW
T-ANCHOR (TYPICAL)

Countryside Glass & Mirror
COUNTRYSIDE GLASS
& MIRROR, INC.
2650 GANDY BLVD NORTH
ST. PETERSBURG, FL 33702
PH: (727)738-6000 FAX: (727)738-6100

TITLE: *BALLISTIC CURTAIN WALL SYSTEM*
F & T - ANCHOR DETAILS

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

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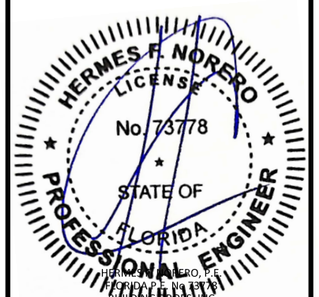

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41228

DATE: 09.16.22

DWG. BY:	CHK. BY:
SM	HFN

SCALE: NTS

DWG. #: CGM011

SECTION: 7.3

4/13/2023 9:29 AM
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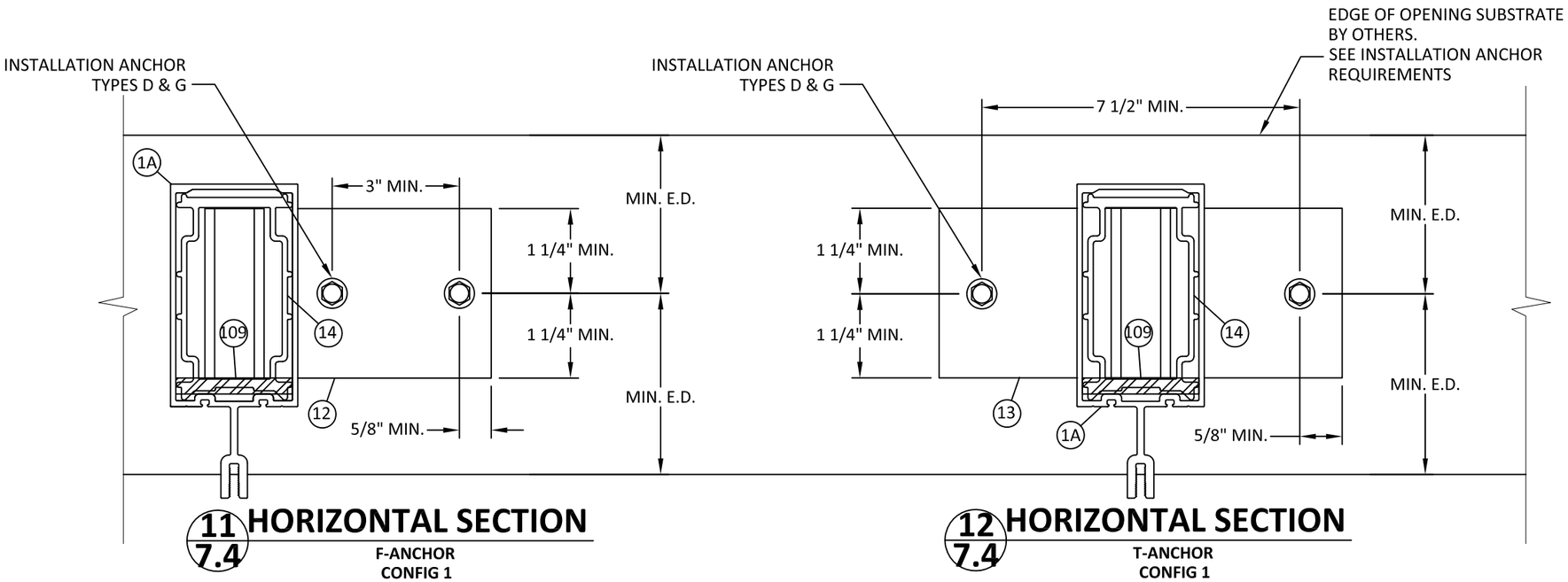
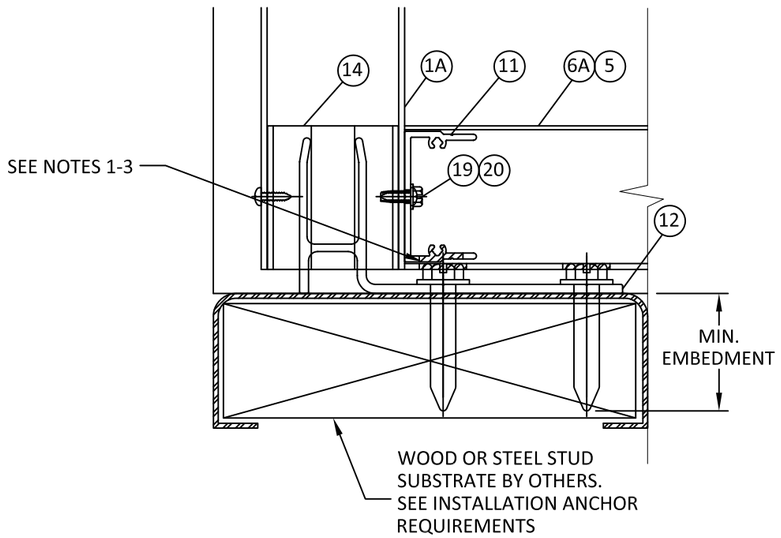


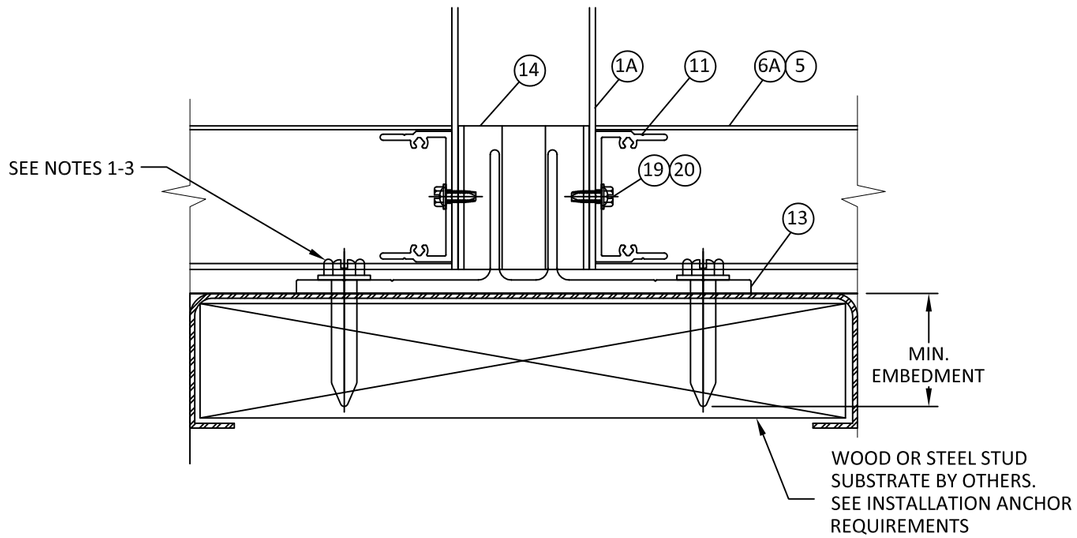
11 / 7.4 HORIZONTAL SECTION
F-ANCHOR
CONFIG 1

12 / 7.4 HORIZONTAL SECTION
T-ANCHOR
CONFIG 1

NOTE:
1. ANCHORS SHOWN HEREIN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL ANCHOR IDENTIFICATION SHALL BE PER ANCHOR MANUFACTURERS INSTALLATION INSTRUCTIONS
2. ANCHOR BOLT EXTENSIONS MAY BE CLIPPED TO T.O. HEX NUT AND SHEAR BLOCKS MAY BE NOTCHED TO ALLOW FOR ANCHOR CLEARANCE.
3. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE



EXTERIOR VIEW
F-ANCHOR (TYPICAL)



EXTERIOR VIEW
T-ANCHOR (TYPICAL)

Countryside Glass & Mirror
COUNTRYSIDE GLASS & MIRROR, INC.
2650 GANDY BLVD NORTH
ST. PETERSBURG, FL 33702
PH: (727)738-6000 FAX: (727)738-6100

TITLE: *BALLISTIC CURTAIN WALL SYSTEM*
F & T - ANCHOR DETAILS

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DANIA BEACH, FL 33004
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REMARKS	BY	DATE

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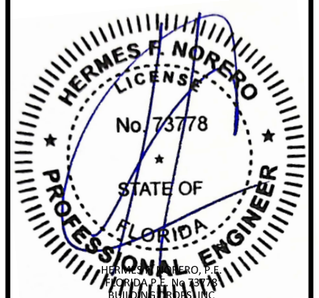

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
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398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41228

DATE: 09.16.22

DWG. BY:	CHK. BY:
SM	HFN

SCALE: NTS

DWG. #: CGM011

SECTION: 7.4

4/13/2023 9:30 AM
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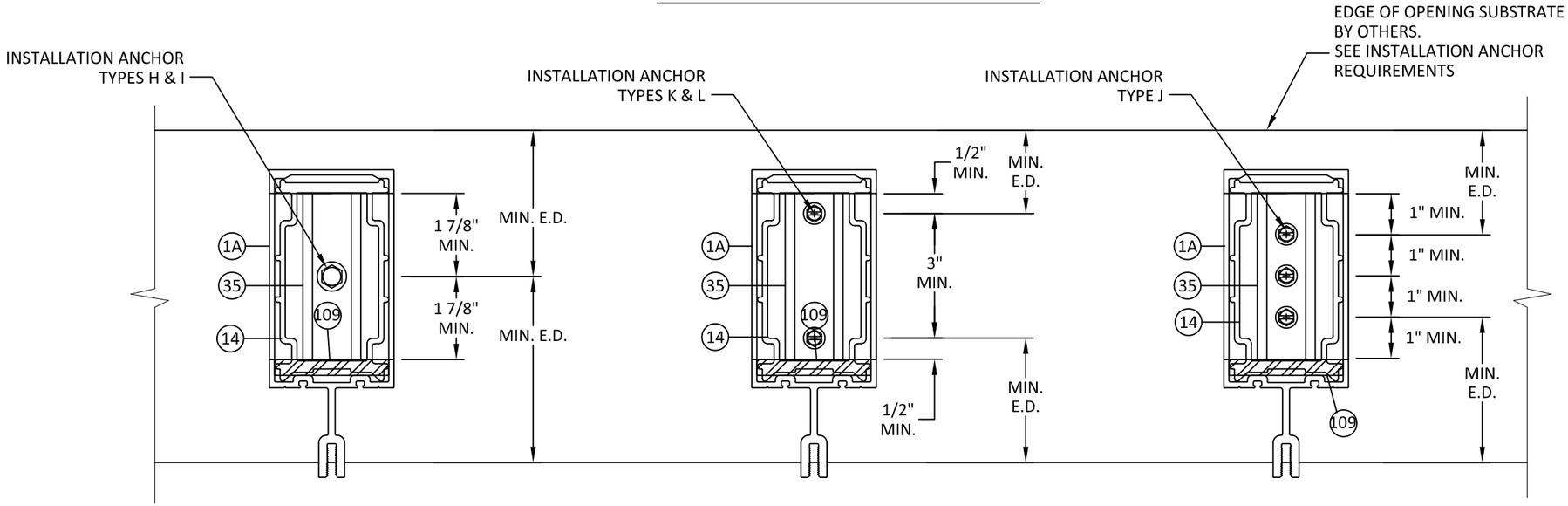
S ANCHOR DETAILS

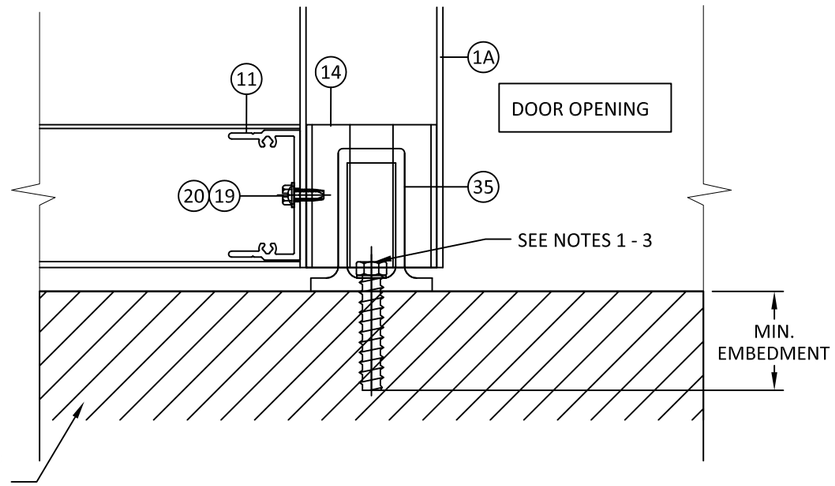


13/7.5 HORIZONTAL SECTION
S-ANCHOR
CONFIG 4

14/7.5 HORIZONTAL SECTION
S-ANCHOR
CONFIG 5

15/7.5 HORIZONTAL SECTION
S-ANCHOR
CONFIG 6

NOTE:
1. ANCHORS SHOWN HEREIN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL ANCHOR IDENTIFICATION SHALL BE PER ANCHOR MANUFACTURERS INSTALLATION INSTRUCTIONS
2. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE.
3. ALTERNATIVELY, F-ANCHORS MAY BE USED IN LIEU OF S-ANCHORS AT DOOR JAMB TO SIDELITE LOCATIONS.



EXTERIOR VIEW
S-ANCHOR (TYPICAL)

Countryside Glass & Mirror
COUNTRYSIDE GLASS
& MIRROR, INC.
2650 GANDY BLVD NORTH
ST. PETERSBURG, FL 33702
PH: (727)738-6000 FAX: (727)738-6100

TITLE: *BALLISTIC CURTAIN WALL SYSTEM*
S - ANCHOR DETAILS

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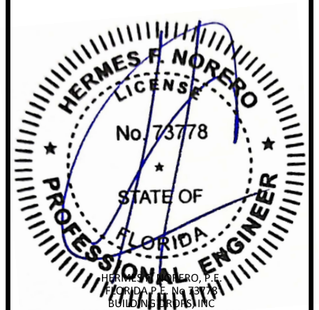

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398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41228

DATE: 09.16.22

DWG. BY: SM | CHK. BY: HFN

SCALE: NTS

DWG. #: CGM011

SECTION: 7.5

4/13/2023 9:30 AM
s:\projects\countryside glass & mirror, inc\fbc-21-0305 - fbc submittal curtainwall with ballistic glass\dwgs\cgm011 - dwgs 7 - f t s anchor dtls.dwg

SINGLE SPAN & MULTI SPAN
T & F ANCHOR CAPACITIES

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
36	78	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
48		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
54		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
60		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
66		125.9	130.0	130.0	130.0	130.0	130.0	130.0	130.0	125.9	130.0	130.0	125.9	130.0	125.9	125.9
72		115.4	130.0	130.0	130.0	130.0	130.0	130.0	130.0	115.4	130.0	130.0	115.4	130.0	115.4	115.4
36	84	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
48		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
54		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
60		128.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	128.6	130.0	130.0	128.6	130.0	128.6	128.6
66		116.9	130.0	130.0	130.0	130.0	130.0	130.0	130.0	116.9	130.0	130.0	116.9	130.0	116.9	116.9
72		107.1	130.0	130.0	130.0	130.0	130.0	130.0	130.0	129.0	107.1	130.0	130.0	107.1	130.0	107.1	107.1
36	90	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
48		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
54		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
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66		109.1	130.0	130.0	130.0	130.0	130.0	130.0	130.0	109.1	130.0	130.0	109.1	130.0	109.1	109.1
72		100.0	130.0	125.0	130.0	130.0	130.0	130.0	120.4	100.0	130.0	130.0	100.0	130.0	100.0	100.0
36	96	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
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66		102.3	130.0	127.8	130.0	130.0	130.0	130.0	123.1	102.3	130.0	130.0	102.3	130.0	102.3	102.3
72		93.8	130.0	117.2	130.0	130.0	130.0	130.0	112.9	93.8	130.0	130.0	93.8	130.0	93.8	93.8
36	102	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
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60		105.9	130.0	130.0	130.0	130.0	130.0	130.0	127.5	105.9	130.0	130.0	105.9	130.0	105.9	105.9
66		96.3	130.0	120.3	130.0	130.0	130.0	130.0	115.9	96.3	130.0	130.0	96.3	130.0	96.3	96.3
72		88.2	130.0	110.3	130.0	130.0	130.0	130.0	106.2	88.2	130.0	130.0	88.2	130.0	88.2	88.2
36	108	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
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66		90.9	130.0	113.6	130.0	130.0	130.0	130.0	109.5	90.9	130.0	130.0	90.9	130.0	90.9	90.9
72		83.3	130.0	104.2	130.0	130.0	130.0	129.2	100.3	83.3	129.2	129.2	83.3	130.0	83.3	83.3
36	114	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42		130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
48		118.4	130.0	130.0	130.0	130.0	130.0	130.0	130.0	118.4	130.0	130.0	118.4	130.0	118.4	118.4
54		105.3	130.0	130.0	130.0	130.0	130.0	130.0	126.7	105.3	130.0	130.0	105.3	130.0	105.3	105.3
60		94.7	130.0	118.4	130.0	130.0	130.0	130.0	114.1	94.7	130.0	130.0	94.7	130.0	94.7	94.7
66		86.1	130.0	107.7	130.0	130.0	130.0	130.0	103.7	86.1	130.0	130.0	86.1	130.0	86.1	86.1
72		78.9	130.0	98.7	130.0	130.0	130.0	122.4	95.1	78.9	122.4	122.4	78.9	130.0	78.9	78.9

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
36	120	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42		128.6	130.0	130.0	130.0	130.0	130.0	130.0	130.0	128.6	130.0	130.0	128.6	130.0	128.6	128.6
48		112.5	130.0	130.0	130.0	130.0	130.0	130.0	130.0	112.5	130.0	130.0	112.5	130.0	112.5	112.5
54		100.0	130.0	125.0	130.0	130.0	130.0	130.0	120.4	100.0	130.0	130.0	100.0	130.0	100.0	100.0
60		90.0	130.0	112.5	130.0	130.0	130.0	130.0	108.4	90.0	130.0	130.0	90.0	130.0	90.0	90.0
66		81.8	130.0	102.3	130.0	130.0	130.0	126.8	98.5	81.8	126.8	126.8	81.8	130.0	81.8	81.8
72		75.0	130.0	93.8	130.0	130.0	130.0	116.3	90.3	75.0	116.3	116.3	75.0	130.0	75.0	75.0
36	126	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42		122.4	130.0	130.0	130.0	130.0	130.0	130.0	130.0	122.4	130.0	130.0	122.4	130.0	122.4	122.4
48		107.1	130.0	130.0	130.0	130.0	130.0	130.0	129.0	107.1	130.0	130.0	107.1	130.0	107.1	107.1
54		95.2	130.0	119.0	130.0	130.0	130.0	130.0	114.7	95.2	130.0	130.0	95.2	130.0	95.2	95.2
60		85.7	130.0	107.1	130.0	130.0	130.0	130.0	103.2	85.7	130.0	130.0	85.7	130.0	85.7	85.7
66		77.9	130.0	97.4	130.0	130.0	130.0	120.8	93.8	77.9	120.8	120.8	77.9	130.0	77.9	77.9
72		71.4	129.0	89.3	129.0	129.0	129.0	110.7	86.0	71.4	110.7	110.7	71.4	129.0	71.4	71.4
36	132	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42		116.9	130.0	130.0	130.0	130.0	130.0	130.0	130.0	116.9	130.0	130.0	116.9	130.0	116.9	116.9
48		102.3	130.0	127.8	130.0	130.0	130.0	130.0	123.1	102.3	130.0	130.0	102.3	130.0	102.3	102.3
54		90.9	130.0	113.6	130.0	130.0	130.0	130.0	109.5	90.9	130.0	130.0	90.9	130.0	90.9	90.9
60		81.8	130.0	102.3	130.0	130.0	130.0	126.8	98.5	81.8	126.8	126.8	81.8	130.0	81.8	81.8
66		74.4	130.0	93.0	130.0	130.0	130.0	115.3	89.6	74.4	115.3	115.3	74.4	130.0	74.4	74.4
72		68.2	123.2	85.2	123.1	123.1	123.2	105.7	82.1	68.2	105.7	105.7	68.2	123.2	68.2	68.2
36	138	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
42		111.8	130.0	130.0	130.0	130.0	130.0	130.0	130.0	111.8	130.0	130.0	111.8	130.0	111.8	111.8
48		97.8	130.0	122.3	130.0	130.0	130.0	130.0	117.8	97.8	130.0	130.0	97.8	130.0	97.8	97.8
54		87.0	130.0	108.7	130.0	130.0	130.0	130.0	104.7	87.0	130.0	130.0	87.0	130.0	87.0	87.0
60		78.3	130.0	97.8	130.0	130.0	130.0	121.3	94.2	78.3	121.3	121.3	78.3	130.0	78.3	78.3
66		71.1	128.5	88.9	128.5	128.5	128.5	110.3	85.7	71.1	110.3	110.3	71.1	128.5	71.1	71.1
72		65.2	117.8	81.5	117.8	117.8	117.8	101.1	78.5	65.2	101.1	101.1	65.2	117.8	65.2	65.2
36	144	125.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	125.0	130.0	130.0	125.0	130.0	125.0	125.0
42		107.1	130.0	130.0	130.0	130.0	130.0	130.0	129.0	107.1	130.0	130.0	107.1	130.0	107.1	107.1
48		93.8	130.0	117.2	130.0	130.0	130.0	130.0	112.9	93.8	130.0	130.0	93.8	130.0	93.8	93.8
54		83.3	130.0	104.2	130.0	130.0	130.0	129.2	100.3	83.3	129.2	129.2	83.3	130.0	83.3	83.3
60		75.0	130.0	93.8	130.0	130.0	130.0	116.3	90.3	75.0	116.3	116.3	75.0	130.0	75.0	75.0
66		68.2	123.2	85.2	123.1	123.1	123.2	105.7	82.1	68.2	105.7	105.7	68.2	123.2	68.2	68.2
72		62.5	112.9	78.1	112.8	112.9	112.9	96.9	75.3	62.5	96.9	96.9	62.5	112.9	62.5	62.5
36	150	120.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	120.0	130.0	130.0	120.0	130.0	120.0	120.0
42		102.9	130.0	128.6	130.0	130.0	130.0	130.0	123.8	102.9	130.0	130.0	102.9	130.0	102.9	102.9
48		90.0	130.0	112.5	130.0	130.0	130.0	130.0	108.4	90.0	130.0	130.0	90.0	130.0	90.0	90.0
54		80.0	130.0	100.0	130.0	130.0	130.0	124.0	96.3	80.0	124.0	124.0	80.0	130.0	80.0	80.0
60		72.0	130.0	90.0	130.0	130.0	130.0	111.6	86.7	72.0	111.6	111.6	72.0	130.0	72.0	72.0
66		65.5	118.2	81.8	118.2	118.2	118.2	101.5	78.8	65.5	101.5	101.5	65.5	118.2	65.5	65.5
72		60.0	108.4	75.0	108.3	108.3	108.4	93.0	72.2	60.0	93.0	93.0	60.0	108.4	60.0	60.0

NOTE:
1. REFER TO SECTION 7.0 THRU 7.5 FOR DETAILS OF ANCHOR REQUIREMENTS.AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'

Countryside Glass & Mirror
COUNTRYSIDE GLASS & MIRROR, INC.
2650 GANDY BLVD NORTH
ST. PETERSBURG, FL 33702
PH: (727)738-6000 FAX: (727)738-6100

TITLE: *BALLISTIC CURTAIN WALL SYSTEM*
F & T - ANCHOR CAPACITY

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. 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 #: FL41228
DATE: 09.16.22
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: CGM011
SECTION: 7.6

4/13/2023 9:30 AM
s:\projects\countryside glass & mirror, inc\fbc-21-0305 - fbc submittal curtainwall with ballistic glass\dwgs\cgm011 - dwgs 7 - f t s anchor dtls.dwg

SINGLE SPAN & MULTI SPAN
F ANCHOR CAPACITIES WHEN USED AT DOOR
JAMB TO SIDELITE LOCATIONS

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
36	78	115.4	130	130	130	130	130	130	130	115.4	130	115.4	115.4	130	115.4	115.4
42		98.9	130	123.6	130	130	130	130	119.1	98.9	130	98.9	98.9	130	98.9	98.9
48		86.5	130	108.2	130	130	130	130	104.2	86.5	130	86.5	86.5	130	86.5	86.5
54		76.9	130	96.2	130	130	130	119.2	92.6	76.9	119.2	76.9	76.9	130	76.9	76.9
60		69.2	125	86.5	125	125	125	107.3	83.4	69.2	107.3	69.2	69.2	125	69.2	69.2
66		62.9	113.7	78.7	113.6	113.7	113.7	97.6	75.8	62.9	97.6	62.9	62.9	113.7	62.9	62.9
72		57.7	104.2	72.1	104.2	104.2	104.2	89.4	69.5	57.7	89.4	57.7	57.7	104.2	57.7	57.7
36	84	107.1	130	130	130	130	130	130	129	107.1	130	107.1	107.1	130	107.1	107.1
42		91.8	130	114.8	130	130	130	130	110.6	91.8	130	91.8	91.8	130	91.8	91.8
48		80.4	130	100.4	130	130	130	124.6	96.8	80.4	124.6	80.4	80.4	130	80.4	80.4
54		71.4	129	89.3	129	129	129	110.7	86	71.4	110.7	71.4	71.4	129	71.4	71.4
60		64.3	116.1	80.4	116.1	116.1	116.1	99.6	77.4	64.3	99.6	64.3	64.3	116.1	64.3	64.3
66		58.4	105.6	73.1	105.5	105.5	105.6	90.6	70.4	58.4	90.6	58.4	58.4	105.6	58.4	58.4
72		53.6	96.8	67	96.7	96.7	96.8	83	64.5	53.6	83	53.6	53.6	96.8	53.6	53.6
36	90	100	130	125	130	130	130	130	120.4	100	130	100	100	130	100	100
42		85.7	130	107.1	130	130	130	130	103.2	85.7	130	85.7	85.7	130	85.7	85.7
48		75	130	93.8	130	130	130	116.3	90.3	75	116.3	75	75	130	75	75
54		66.7	120.4	83.3	120.4	120.4	120.4	103.3	80.3	66.7	103.3	66.7	66.7	120.4	66.7	66.7
60		60	108.4	75	108.3	108.3	108.4	93	72.2	60	93	60	60	108.4	60	60
66		54.5	98.5	68.2	98.5	98.5	98.5	84.5	65.7	54.5	84.5	54.5	54.5	98.5	54.5	54.5
72		50	90.3	62.5	90.3	90.3	90.3	77.5	60.2	50	77.5	50	50	90.3	50	50
36	96	93.8	130	117.2	130	130	130	130	112.9	93.8	130	93.8	93.8	130	93.8	93.8
42		80.4	130	100.4	130	130	130	124.6	96.8	80.4	124.6	80.4	80.4	130	80.4	80.4
48		70.3	127	87.9	127	127	127	109	84.7	70.3	109	70.3	70.3	127	70.3	70.3
54		62.5	112.9	78.1	112.8	112.9	112.9	96.9	75.3	62.5	96.9	62.5	62.5	112.9	62.5	62.5
60		56.3	101.6	70.3	101.6	101.6	101.6	87.2	67.7	56.3	87.2	56.3	56.3	101.6	56.3	56.3
66		51.1	92.4	63.9	92.3	92.3	92.4	79.3	61.6	51.1	79.3	51.1	51.1	92.4	51.1	51.1
72		46.9	84.7	58.6	84.6	84.6	84.7	72.7	56.4	46.9	72.7	46.9	46.9	84.7	46.9	46.9
36	102	88.2	130	110.3	130	130	130	130	106.2	88.2	130	88.2	88.2	130	88.2	88.2
42		75.6	130	94.5	130	130	130	117.2	91.1	75.6	117.2	75.6	75.6	130	75.6	75.6
48		66.2	119.5	82.7	119.5	119.5	119.5	102.6	79.7	66.2	102.6	66.2	66.2	119.5	66.2	66.2
54		58.8	106.2	73.5	106.2	106.2	106.2	91.2	70.8	58.8	91.2	58.8	58.8	106.2	58.8	58.8
60		52.9	95.6	66.2	95.6	95.6	95.6	82.1	63.7	52.9	82.1	52.9	52.9	95.6	52.9	52.9
66		48.1	86.9	60.2	86.9	86.9	86.9	74.6	57.9	48.1	74.6	48.1	48.1	86.9	48.1	48.1
72		44.1	79.7	55.1	79.7	79.7	79.7	68.4	53.1	44.1	68.4	44.1	44.1	79.7	44.1	44.1
36	108	83.3	130	104.2	130	130	130	129.2	100.3	83.3	129.2	83.3	83.3	130	83.3	83.3
42		71.4	129	89.3	129	129	129	110.7	86	71.4	110.7	71.4	71.4	129	71.4	71.4
48		62.5	112.9	78.1	112.8	112.9	112.9	96.9	75.3	62.5	96.9	62.5	62.5	112.9	62.5	62.5
54		55.6	100.3	69.4	100.3	100.3	100.3	86.1	66.9	55.6	86.1	55.6	55.6	100.3	55.6	55.6
60		50	90.3	62.5	90.3	90.3	90.3	77.5	60.2	50	77.5	50	50	90.3	50	50
66		45.5	82.1	56.8	82.1	82.1	82.1	70.5	54.7	45.5	70.5	45.5	45.5	82.1	45.5	45.5
72		41.7	75.3	52.1	75.2	75.2	75.3	64.6	50.2	41.7	64.6	41.7	41.7	75.3	41.7	41.7
36	114	78.9	130	98.7	130	130	130	122.4	95.1	78.9	122.4	78.9	78.9	130	78.9	78.9
42		67.7	122.2	84.6	122.2	122.2	122.2	104.9	81.5	67.7	104.9	67.7	67.7	122.2	67.7	67.7
48		59.2	106.9	74	106.9	106.9	106.9	91.8	71.3	59.2	91.8	59.2	59.2	106.9	59.2	59.2
54		52.6	95.1	65.8	95	95	95.1	81.6	63.4	52.6	81.6	52.6	52.6	95.1	52.6	52.6
60		47.4	85.6	59.2	85.5	85.5	85.6	73.4	57	47.4	73.4	47.4	47.4	85.6	47.4	47.4
66		43.1	77.8	53.8	77.8	77.8	77.8	66.7	51.8	43.1	66.7	43.1	43.1	77.8	43.1	43.1
72		39.5	71.3	49.3	71.3	71.3	71.3	61.2	47.5	39.5	61.2	39.5	39.5	71.3	39.5	39.5

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
36	120	75	130	93.8	130	130	130	116.3	90.3	75	116.3	75	75	130	75	75
42		64.3	116.1	80.4	116.1	116.1	116.1	99.6	77.4	64.3	99.6	64.3	64.3	116.1	64.3	64.3
48		56.3	101.6	70.3	101.6	101.6	101.6	87.2	67.7	56.3	87.2	56.3	56.3	101.6	56.3	56.3
54		50	90.3	62.5	90.3	90.3	90.3	77.5	60.2	50	77.5	50	50	90.3	50	50
60		45	81.3	56.3	81.3	81.3	81.3	69.8	54.2	45	69.8	45	45	81.3	45	45
66		40.9	73.9	51.1	73.9	73.9	73.9	63.4	49.3	40.9	63.4	40.9	40.9	73.9	40.9	40.9
72		37.5	67.7	46.9	67.7	67.7	67.7	58.1	45.2	37.5	58.1	37.5	37.5	67.7	37.5	37.5
36	126	71.4	129	89.3	129	129	129	110.7	86	71.4	110.7	71.4	71.4	129	71.4	71.4
42		61.2	110.6	76.5	110.5	110.6	110.6	94.9	73.7	61.2	94.9	61.2	61.2	110.6	61.2	61.2
48		53.6	96.8	67	96.7	96.7	96.8	83	64.5	53.6	83	53.6	53.6	96.8	53.6	53.6
54		47.6	86	59.5	86	86	86	73.8	57.3	47.6	73.8	47.6	47.6	86	47.6	47.6
60		42.9	77.4	53.6	77.4	77.4	77.4	66.4	51.6	42.9	66.4	42.9	42.9	77.4	42.9	42.9
66		39	70.4	48.7	70.3	70.4	70.4	60.4	46.9	39	60.4	39	39	70.4	39	39
72		35.7	64.5	44.6	64.5	64.5	64.5	55.4	43	35.7	55.4	35.7	35.7	64.5	35.7	35.7
36	132	68.2	123.2	85.2	123.1	123.1	123.2	105.7	82.1	68.2	105.7	68.2	68.2	123.2	68.2	68.2
42		58.4	105.6	73.1	105.5	105.5	105.6	90.6	70.4	58.4	90.6	58.4	58.4	105.6	58.4	58.4
48		51.1	92.4	63.9	92.3	92.3	92.4	79.3	61.6	51.1	79.3	51.1	51.1	92.4	51.1	51.1
54		45.5	82.1	56.8	82.1	82.1	82.1	70.5	54.7	45.5	70.5	45.5	45.5	82.1	45.5	45.5
60		40.9	73.9	51.1	73.9	73.9	73.9	63.4	49.3	40.9	63.4	40.9	40.9	73.9	40.9	40.9
66		37.2	67.2	46.5	67.1	67.2	67.2	57.6	44.8	37.2	57.6	37.2	37.2	67.2	37.2	37.2
72		34.1	61.6	42.6	61.6	61.6	61.6	52.8	41	34.1	52.8	34.1	34.1	61.6	34.1	34.1
36	138	65.2	117.8	81.5	117.8	117.8	117.8	101.1	78.5	65.2	101.1	65.2	65.2	117.8	65.2	65.2
42		55.9	101	69.9	100.9	100.9	101	86.6	67.3	55.9	86.6	55.9	55.9	101	55.9	55.9
48		48.9	88.3	61.1	88.3	88.3	88.3	75.8	58.9	48.9	75.8	48.9	48.9	88.3	48.9	48.9
54		43.5	78.5	54.3	78.5	78.5	78.5	67.4	52.3	43.5	67.4	43.5	43.5	78.5	43.5	43.5
60		39.1	70.7	48.9	70.7	70.7	70.7	60.7	47.1	39.1	60.7	39.1	39.1	70.7	39.1	39.1
66		35.6	64.3	44.5	64.2	64.2	64.3	55.1	42.8	35.6	55.1	35.6	35.6	64.3	35.6	35.6
72		32.6	58.9	40.8	58.9	58.9	58.9	50.5	39.3	32.6	50.5	32.6	32.6	58.9	32.6	32.6
36	144	62.5	112.9	78.1	112.8	112.9	112.9	96.9	75.3	62.5	96.9	62.5	62.5	112.9	62.5	62.5
42		53.6	96.8	67	96.7	96.7	96.8	83	64.5	53.6	83	53.6	53.6	96.8	53.6	53.6
48		46.9	84.7	58.6	84.6	84.6	84.7	72.7	56.4	46.9	72.7	46.9	46.9	84.7	46.9	46.9
54		41.7	75.3	52.1	75.2	75.2	75.3	64.6	50.2	41.7	64.6	41.7	41.7	75.3	41.7	41.7
60		37.5	67.7	46.9	67.7	67.7	67.7	58.1	45.2	37.5	58.1	37.5	37.5	67.7	37.5	37.5
66		34.1	61.6	42.6	61.6	61.6	61.6	52.8	41	34.1	52.8	34.1	34.1	61.6	34.1	34.1
72		31.3	56.4	39.1	56.4	56.4	56.4	48.4	37.6	31.3	48.4	31.3	31.3	56.4	31.3	31.3
36	150	60	108.4	75	108.3	108.3	108.4	93	72.2	60	93	60	60	108.4	60	60
42		51.4	92.9	64.3	92.9	92.9	92.9	79.7	61.9	51.4	79.7	51.4	51.4	92.9	51.4	51.4
48		45	81.3	56.3	81.3	81.3	81.3	69.8	54.2	45	69.8	45	45	81.3	45	45
54		40	72.2	50	72.2	72.2	72.2	62	48.2	40	62	40	40	72.2	40	40
60		36	65	45	65	65	65	55.8	43.3	36	55.8	36	36	65	36	36
66		32.7	59.1	40.9	59.1	59.1	59.1	50.7	39.4	32.7	50.7	32.7	32.7	59.1	32.7	32.7
72		30	54.2	37.5	54.2	54.2	54.2	46.5	36.1	30	46.5	30	30	54.2	30	30

NOTE:
1. REFER TO SECTION 7.0 THRU 7.5 FOR DETAILS OF ANCHOR REQUIREMENTS.AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'

Countryside Glass & Mirror
COUNTRYSIDE GLASS & MIRROR, INC.
2650 GANDY BLVD NORTH
ST. PETERSBURG, FL 33702
PH: (727)738-6000 FAX: (727)738-6100

TITLE: *BALLISTIC CURTAIN WALL SYSTEM*
F - ANCHOR CAPACITY

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

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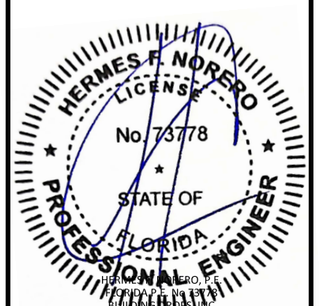

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41228

DATE: 09.16.22

DWG. BY: SM | CHK. BY: HFN

SCALE: NTS

DWG. #: CGM011

SECTION: 7.7

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SINGLE SPAN & MULTI SPAN
S ANCHOR CAPACITIES

MAX. ANCHOR CAPACITY FOR SINGLE SPAN - DESIGN PRESSURES (+/- PSF)

MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	H	I	J	K	L
36	78	113.0	114.0	130.0	46.0	114.0
42		97.0	98.0	130.0	39.0	98.0
48		85.0	86.0	129.0	34.0	86.0
54		75.0	76.0	115.0	30.0	76.0
60		68.0	68.0	103.0	27.0	68.0
66		62.0	62.0	94.0	25.0	62.0
72		56.0	57.0	86.0	23.0	57.0
36	84	105.0	106.0	130.0	42.0	106.0
42		90.0	91.0	130.0	36.0	91.0
48		79.0	80.0	120.0	32.0	80.0
54		70.0	71.0	106.0	28.0	71.0
60		63.0	64.0	96.0	25.0	64.0
66		57.0	58.0	87.0	23.0	58.0
72		52.0	53.0	80.0	21.0	53.0
36	90	98.0	99.0	130.0	40.0	99.0
42		84.0	85.0	128.0	34.0	85.0
48		74.0	74.0	112.0	30.0	74.0
54		65.0	66.0	99.0	26.0	66.0
60		59.0	59.0	89.0	24.0	59.0
66		53.0	54.0	81.0	21.0	54.0
72		49.0	49.0	74.0	20.0	49.0
36	96	92.0	93.0	130.0	37.0	93.0
42		79.0	80.0	120.0	32.0	80.0
48		69.0	70.0	105.0	28.0	70.0
54		61.0	62.0	93.0	25.0	62.0
60		55.0	56.0	84.0	22.0	56.0
66		50.0	50.0	76.0	20.0	50.0
72		46.0	46.0	70.0	18.0	46.0
36	102	87.0	87.0	130.0	35.0	87.0
42		74.0	75.0	113.0	30.0	75.0
48		65.0	65.0	99.0	26.0	65.0
54		58.0	58.0	88.0	23.0	58.0
60		52.0	52.0	79.0	21.0	52.0
66		47.0	47.0	72.0	19.0	47.0
72		43.0	43.0	66.0	17.0	43.0
36	108	82.0	82.0	124.0	33.0	82.0
42		70.0	71.0	106.0	28.0	71.0
48		61.0	62.0	93.0	25.0	62.0
54		54.0	55.0	83.0	22.0	55.0
60		49.0	49.0	74.0	20.0	49.0
66		44.0	45.0	68.0	18.0	45.0
72		41.0	41.0	62.0	16.0	41.0
36	114	77.0	78.0	118.0	31.0	78.0
42		66.0	67.0	101.0	27.0	67.0
48		58.0	58.0	88.0	23.0	58.0
54		51.0	52.0	78.0	21.0	52.0
60		46.0	47.0	70.0	18.0	47.0
66		42.0	42.0	64.0	17.0	42.0
72		38.0	39.0	59.0	15.0	39.0

MAX. ANCHOR CAPACITY FOR SINGLE SPAN - DESIGN PRESSURES (+/- PSF)

MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	H	I	J	K	L
36	120	74.0	74.0	112.0	30.0	74.0
42		63.0	64.0	96.0	25.0	64.0
48		55.0	56.0	84.0	22.0	56.0
54		49.0	49.0	74.0	20.0	49.0
60		44.0	44.0	67.0	18.0	44.0
66		40.0	40.0	61.0	16.0	40.0
72		37.0	37.0	56.0	15.0	37.0
36	126	70.0	71.0	106.0	28.0	71.0
42		60.0	60.0	91.0	24.0	60.0
48		52.0	53.0	80.0	21.0	53.0
54		46.0	47.0	71.0	19.0	47.0
60		42.0	42.0	64.0	17.0	42.0
66		38.0	38.0	58.0	15.0	38.0
72		35.0	35.0	53.0	14.0	35.0
36	132	67.0	67.0	102.0	27.0	67.0
42		57.0	58.0	87.0	23.0	58.0
48		50.0	50.0	76.0	20.0	50.0
54		44.0	45.0	68.0	18.0	45.0
60		40.0	40.0	61.0	16.0	40.0
66		36.0	37.0	55.0	14.0	37.0
72		33.0	33.0	51.0	13.0	33.0
36	138	64.0	64.0	97.0	26.0	64.0
42		55.0	55.0	83.0	22.0	55.0
48		48.0	48.0	73.0	19.0	48.0
54		42.0	43.0	65.0	17.0	43.0
60		38.0	38.0	58.0	15.0	38.0
66		35.0	35.0	53.0	14.0	35.0
72		32.0	32.0	48.0	13.0	32.0
36	144	61.0	62.0	93.0	25.0	62.0
42		52.0	53.0	80.0	21.0	53.0
48		46.0	46.0	70.0	18.0	46.0
54		41.0	41.0	62.0	16.0	41.0
60		37.0	37.0	56.0	15.0	37.0
66		33.0	33.0	51.0	13.0	33.0
72		30.0	31.0	46.0	12.0	31.0
36	150	59.0	59.0	89.0	24.0	59.0
42		50.0	51.0	76.0	20.0	51.0
48		44.0	44.0	67.0	18.0	44.0
54		39.0	39.0	59.0	16.0	39.0
60		35.0	35.0	53.0	14.0	35.0
66		32.0	32.0	48.0	13.0	32.0
72		29.0	29.0	44.0	12.0	29.0

NOTE:
1. REFER TO SECTION 7.0 THRU 7.5 FOR DETAILS OF ANCHOR REQUIREMENTS.AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'

Countryside Glass & Mirror
COUNTRYSIDE GLASS & MIRROR, INC.
2650 GANDY BLVD NORTH
ST. PETERSBURG, FL 33702
PH: (727)738-6000 FAX: (727)738-6100

TITLE: *BALLISTIC CURTAIN WALL SYSTEM*
S - ANCHOR DETAILS

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

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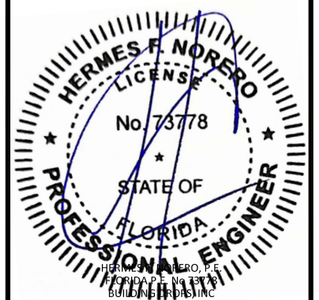

HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41228
DATE: 09.16.22
DWG. BY: SM
CHK. BY: HFN
SCALE: NTS
DWG. #: CGM011
SECTION: 7.8

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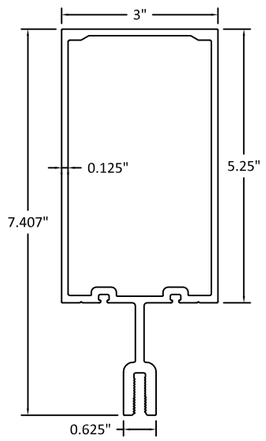
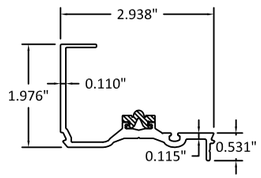
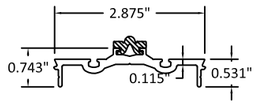


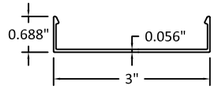
1A VERTICAL MULLION (INS)



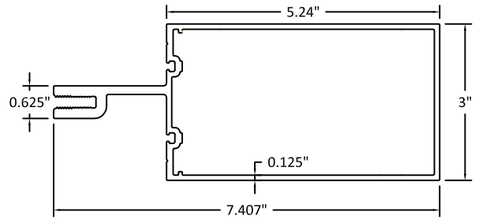
2A PERIMETER PRESSURE PLATE (INS)



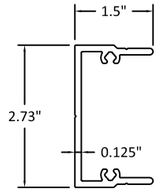
3A PRESSURE PLATE (INS)



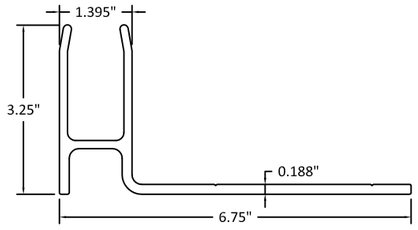
4 FACE COVER



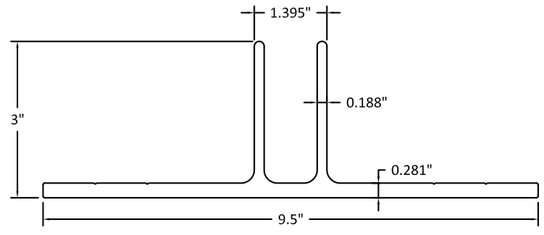
7A HORIZONTAL (INS)



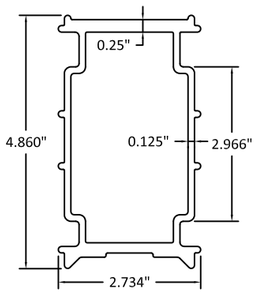
11 SHEAR BLOCK (STD)



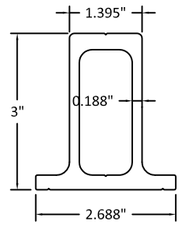
12 JAMB F-ANCHOR (STD)



13 MULLION T-ANCHOR (STD)



14 MULLION ANCHOR SLEEVE (STD) (3" LONG @ TOP & BOTTOM)

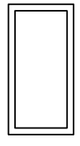


35 S-ANCHOR (STD)

104 1-1/2" X 1-1/2" X 1/8" ANGLE

105 1" X 1" X 1/8" ANGLE

108 1" X 1" X 1/8" U CHANNEL



112 1 1/4" X 2 1/2" X 1/8" TUBE

Countryside Glass & Mirror

COUNTRYSIDE GLASS & MIRROR, INC.
2650 GANDY BLVD NORTH
ST. PETERSBURG, FL 33702
PH: (727)738-6000 FAX: (727)738-6100

TITLE: *BALLISTIC CURTAIN WALL SYSTEM* COMPONENTS

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

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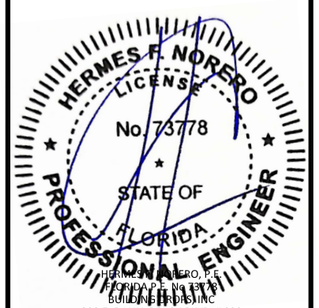

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: FL41228

DATE: 09.16.22

DWG. BY: SM | CHK. BY: HFN

SCALE: NTS

DWG. #: CGM011

SECTION: 8.0

ITEM	PART NO.	DESCRIPTION	MATERIAL
1A	E9-7479	VERTICAL MULLION (INS)	6063-T6
2A	AS-3178	PERIMETER PRESSURE PLATE (INS)	6063-T5
3A	AS-3172	PRESSURE PLATE (INS)	6063-T5
4	E9-3161	FACE COVER	6063-T5
7A	E9-7480	HORIZONTAL (INS)	6063-T5
8	E2-0379	EXT/INT GLAZING GASKET	EPDM
9	E2-0353	INTERIOR GLAZING SILICONE SPACER	EPDM
10A	E2-0611	SETTING BLOCK (INS)	EPDM (85±5)
11	E1-3001	SHEAR BLOCK (STD)	6063-T5
12	E1-3004	JAMB F ANCHOR (STD)	6063-T5
13	E1-3003	MULLION T ANCHOR (STD)	6061-T6
14	E1-3006	MULLION ANCHOR SLEEVE (STD) (3" LONG @ TOP & BOTTOM)	6063-T5
17	HD-2520-W3-SS	1/4"-20 X 1-1/4" HWHMS	STAINLESS STEEL
18	FC-1220	#12 X 1-1/4" FHSMS TYPE AB	ZINC PLATED STEEL
19	HF-2510-W1	#1/4"-20 X 5/8" HWHS TYPE F	ZINC PLATED STEEL
20	PC-1010	#10 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL
22	PC-1210	#12 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL
24	TEK-1012	#10-16 X 3/4" TEK HWHS	ZINC PLATED STEEL
25	PC-1010	#10 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL
35	E1-3039	S ANCHOR (STD)	6063-T6
36	E2-0386	ISOLATOR TAPE	PVC SPONGE
48	FC-1410	#14 X 5/8" FHSMS TYPE AB	ZINC PLATED STEEL
54	FC-1212	#12 X 3/4" FHSMS TYPE AB	ZINC PLATED STEEL
61	E2-0103	THERMAL ISOLATOR	EPDM (85±5)
65	-	MULLION END CAP	ALUM SHEET
106	E2-0356	ISOLATOR TAPE	PVC SPONGE
104	E9-9303	1-1/2" X 1-1/2" X 1/8" ANGLE	6063-T5
105	E9-9302	1" X 1" X 1/8" ANGLE	6063-T5
106	E2-0537	SIDE BLOCK	EPDM (85±5)
107	E2-0265	THERMAL ISOLATOR	EPDM (85±5)
108	-	1" X 1" X 1/8" U CHANNEL	6063-T5
109	-	3/8" X 2-3/4" BAR	A36
110	-	4" X 4" X 3/8" ANGLE	A36
111	-	3/8" X 4-1/4" BAR	A36
112	-	1 1/4" X 2 1/2" X 1/8" TUBE	6063-T5

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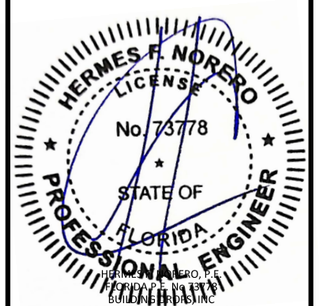
WEB: www.buildingdrops.com

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



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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 #: FL41228

DATE: 09.16.22

DWG. BY: SM | CHK. BY: HFN

SCALE: NTS

DWG. #: CGM011

SECTION: 8.1

4/13/2023 9:34 AM
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