



YKK AP AMERICA, Inc.

YHC 300 OG - HVHZ

Curtain Wall Systems

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBERS OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- 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.
- REFER TO SECTION 7 & 8 FOR ANCHOR TYPE, SUBSTRATE STRENGTH, EMBEDMENT, & EDGE DISTANCE REQUIREMENTS. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS FOR INSTALLATION OF ANCHORS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 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.

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, TWIN SPAN, MULTIPLE SPANS AND CORNERS ON SECTION 4. |
| STEP 4 | USING HEAD/SILL ANCHOR DETAILS, SELECT ANCHOR OPTION FROM TABLES ON SECTION 7 & 8 WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE. |
| STEP 5 | CHECK INTERMEDIATE ANCHOR CAPACITY FOR MULTIPLE SPANS USING CHARTS OR DETAILS ON SECTION 8. |
| STEP 6 | THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM. |

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, INCLUDING REQUIREMENTS FOR HVHZ.
- 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.
- 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.
- 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.
- THIS PRODUCT DOES NOT REQUIRE IMPACT PROTECTIVE DEVICES.
- 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.

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3	VERTICAL SECTIONS
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8	DEAD/WIND LOAD ANCHOR DETAILS
9	COMPONENTS & BILL OF MATERIALS



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

GENERAL AND INSTALLATION NOTES

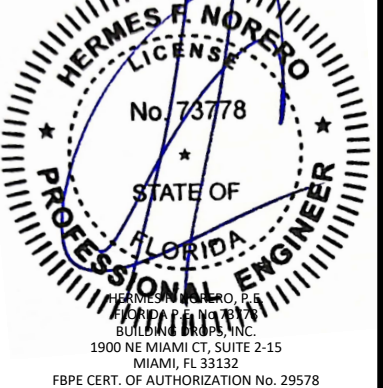
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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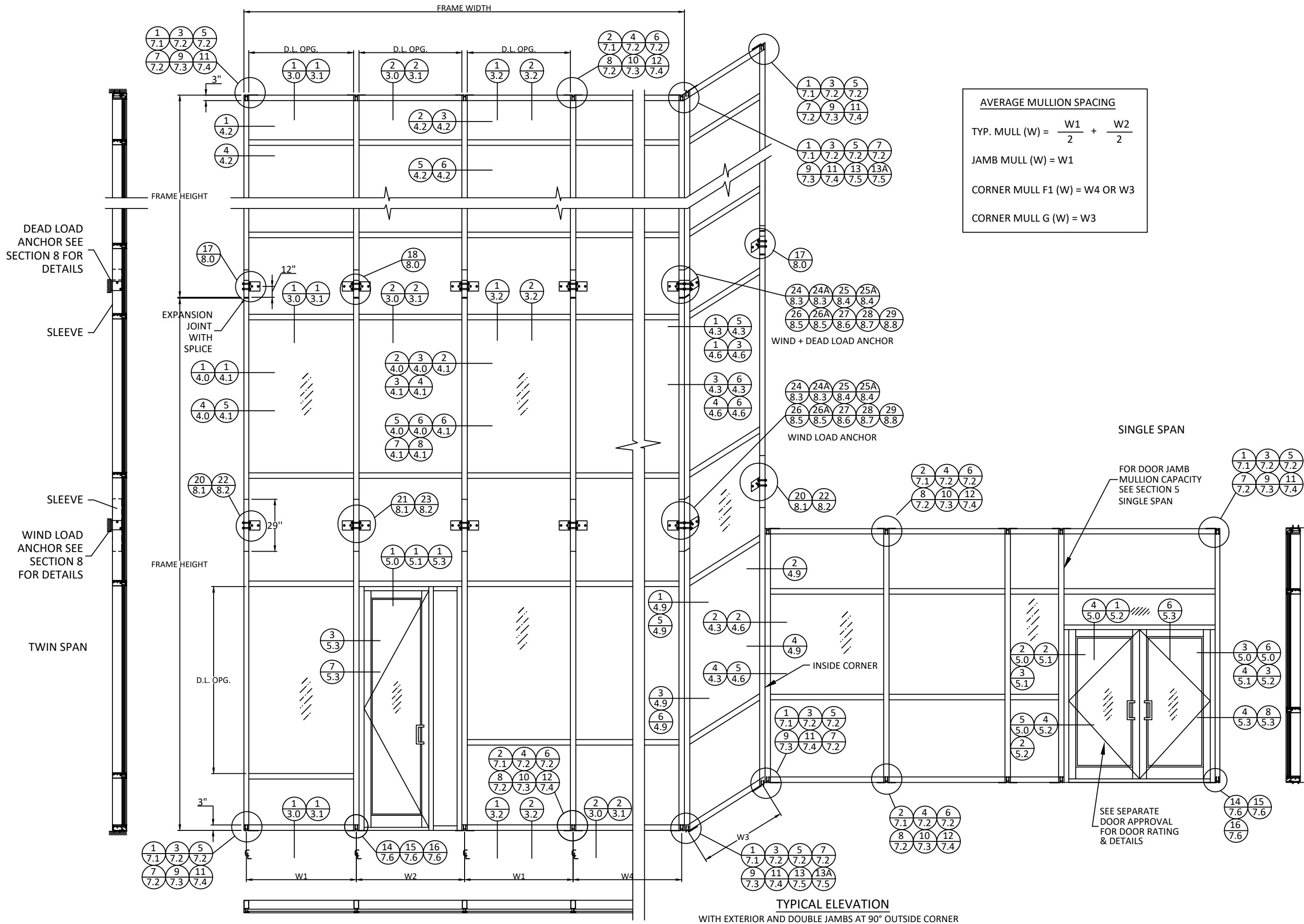
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Reason: I am approving this document
Date: 2026.07.17 16:29:01 -0400



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AR	HFN	
SCALE:		NTS
DWG. #:		YKK204
SECTION:		1.0

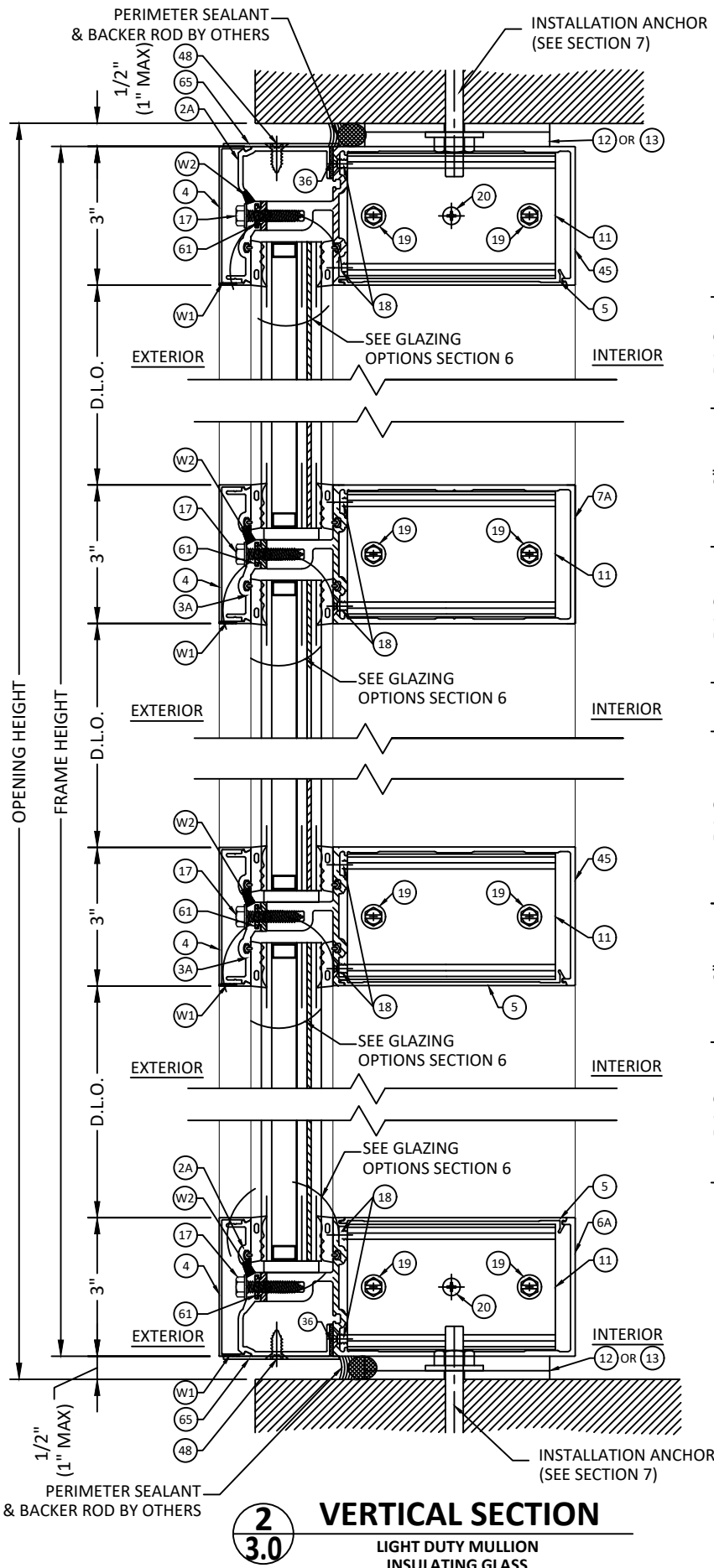
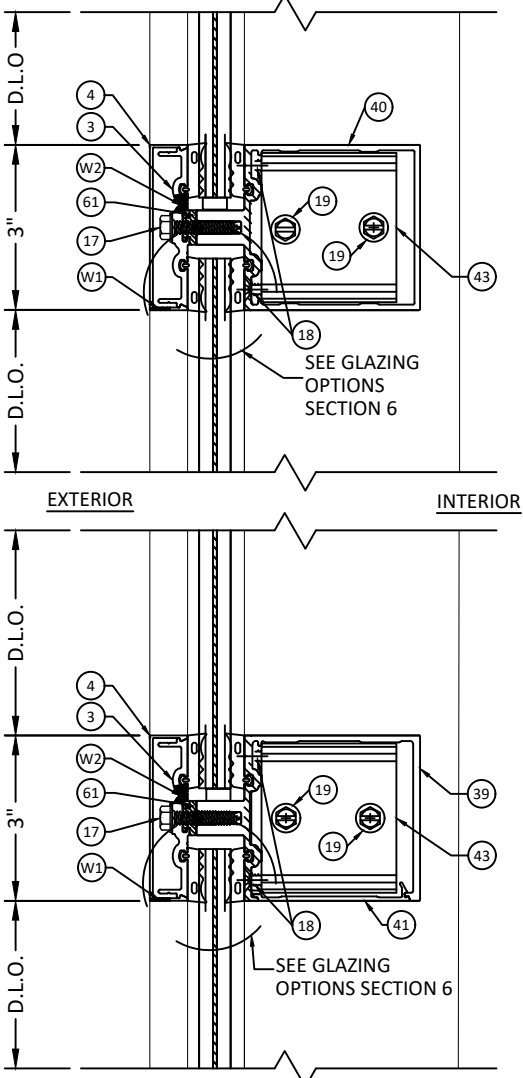
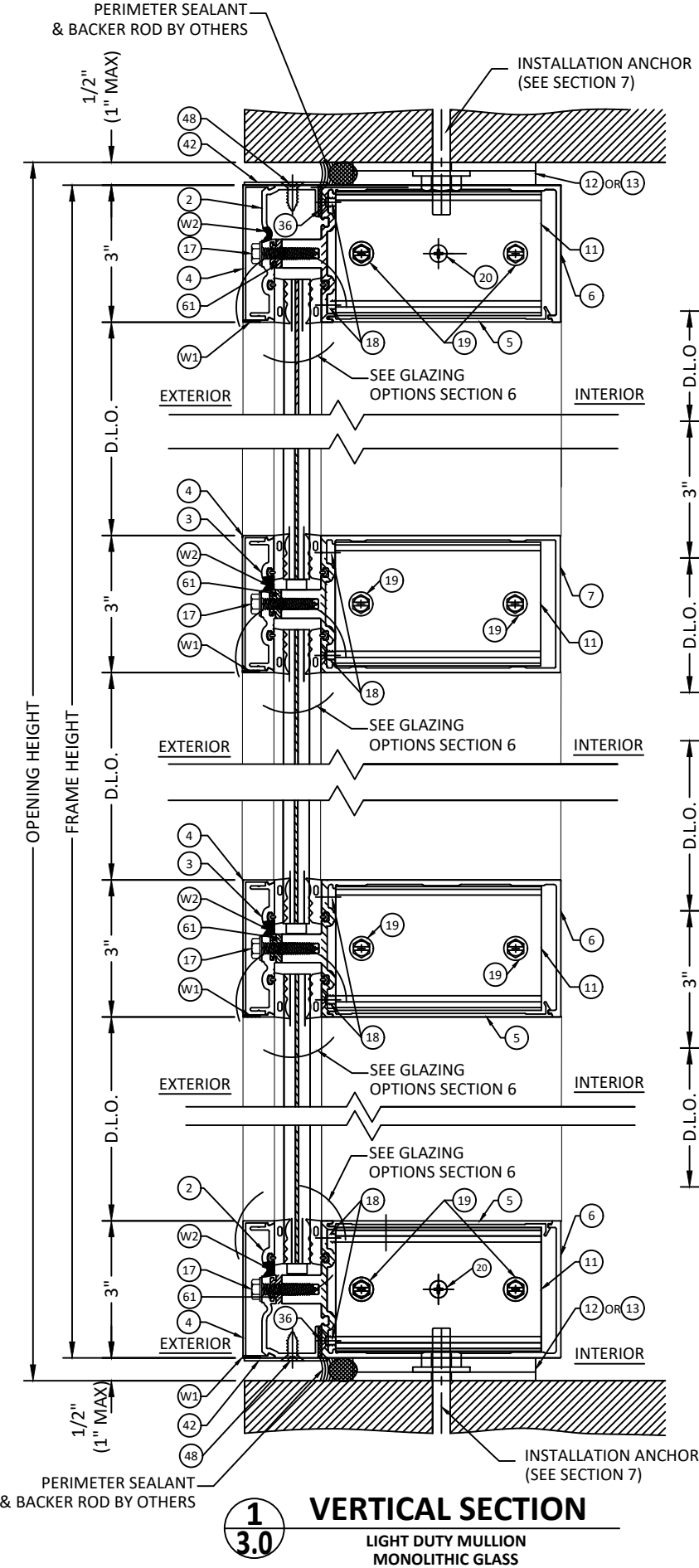
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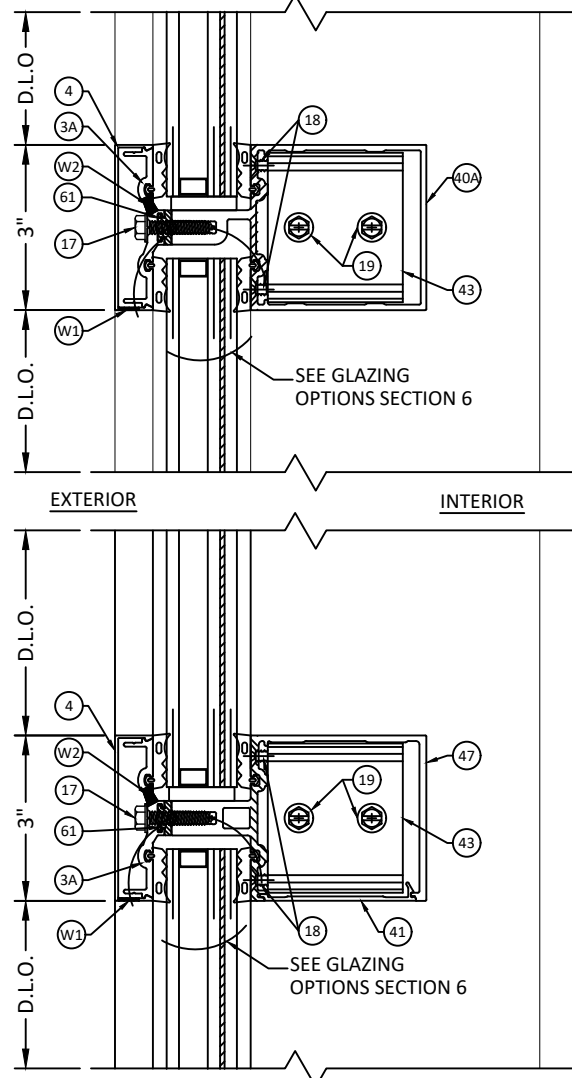


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LIGHT DUTY MULLIONS - VERTICAL SECTIONS



2
3.0
VERTICAL SECTION
LIGHT DUTY 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: YHC - 300 OG (HVVH)
CURTAIN WALL SYSTEM
ELEVATION

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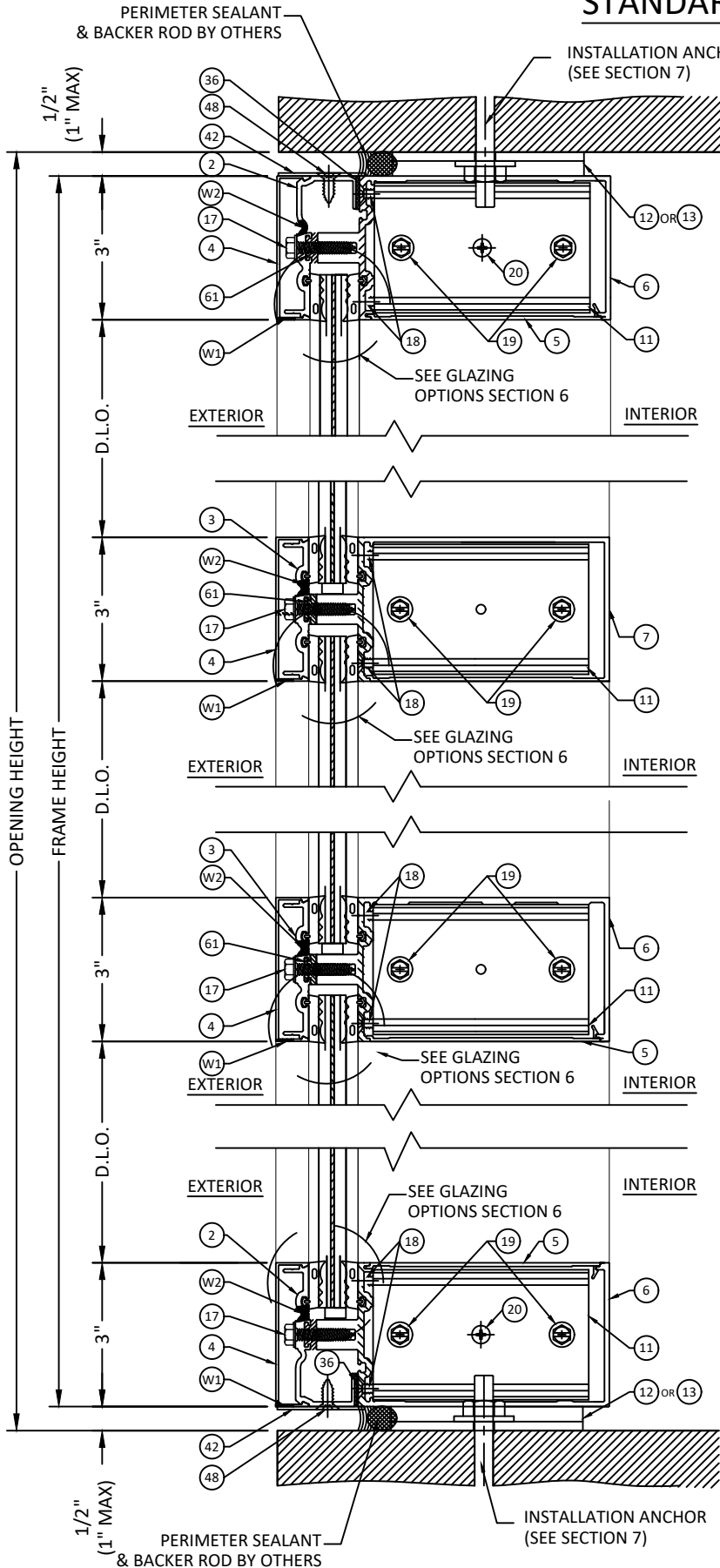
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

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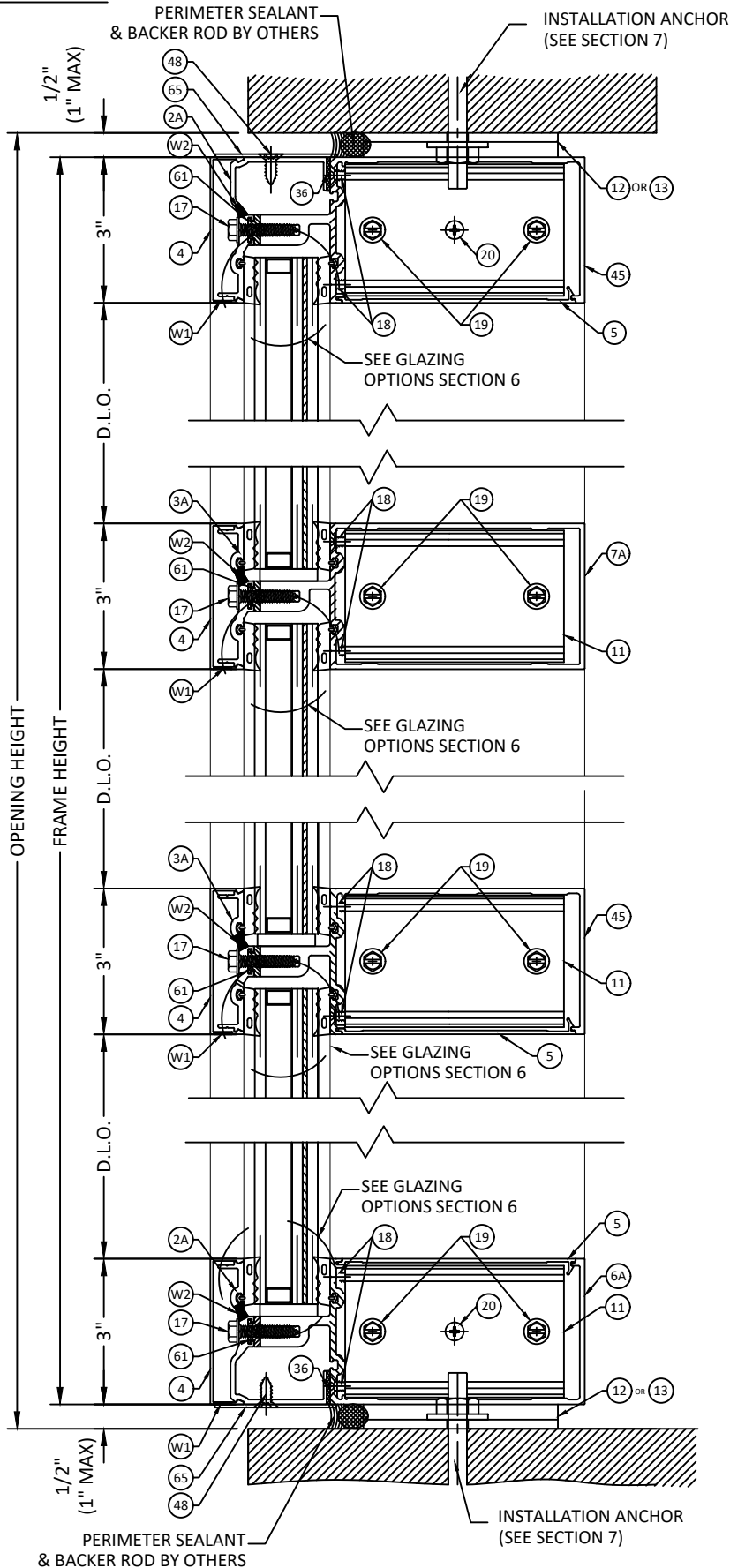
STANDARD MULLIONS - VERTICAL SECTIONS



1
3.1 VERTICAL SECTION
STANDARD MULLION
MONOLITHIC GLASS

WEEPHOLES:
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= AT 1/3 POINTS FROM VERTICALS
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2
3.1 VERTICAL SECTION
STANDARD MULLION
INSULATING GLASS



Quality
inspires™

YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

VERTICAL SECTIONS

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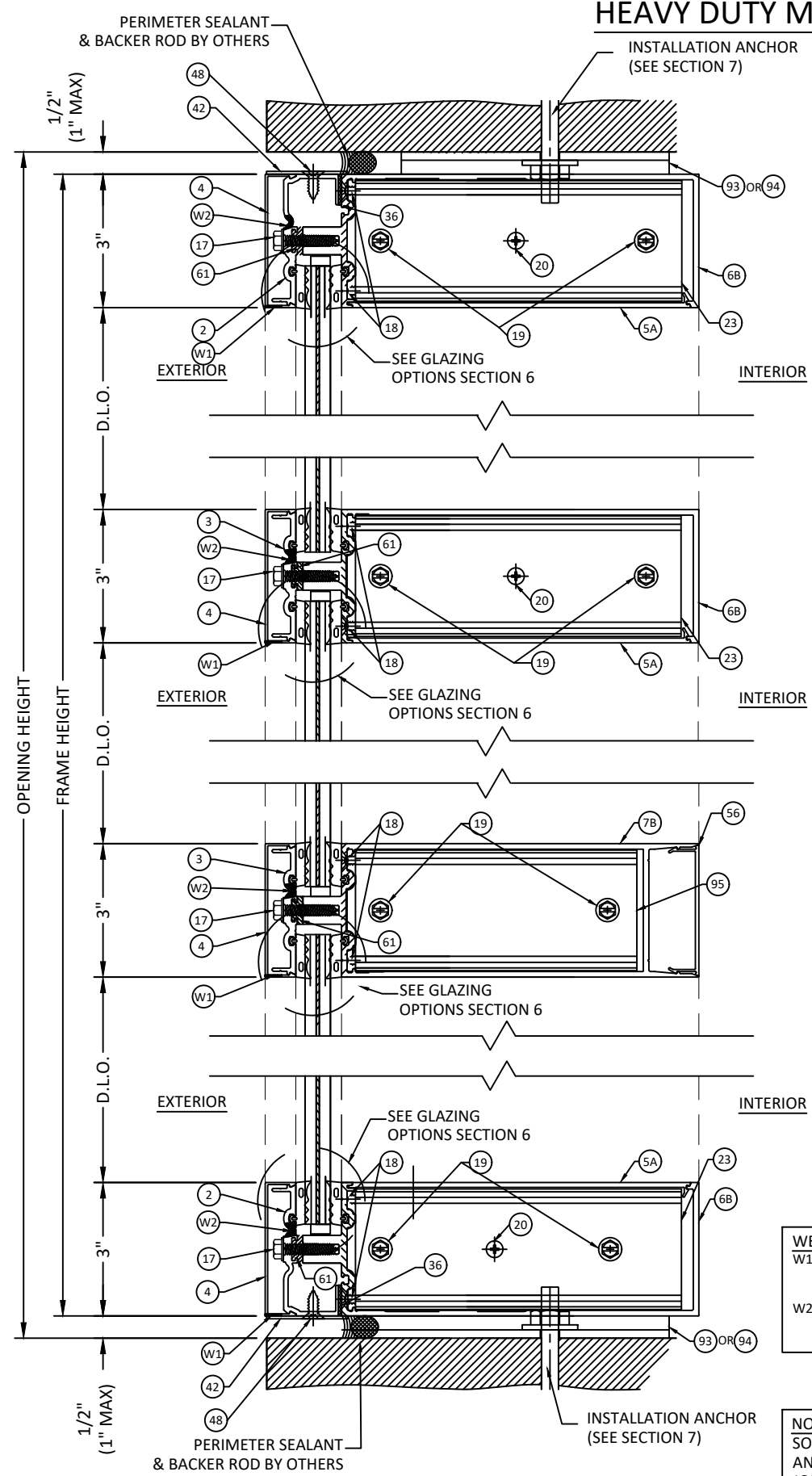
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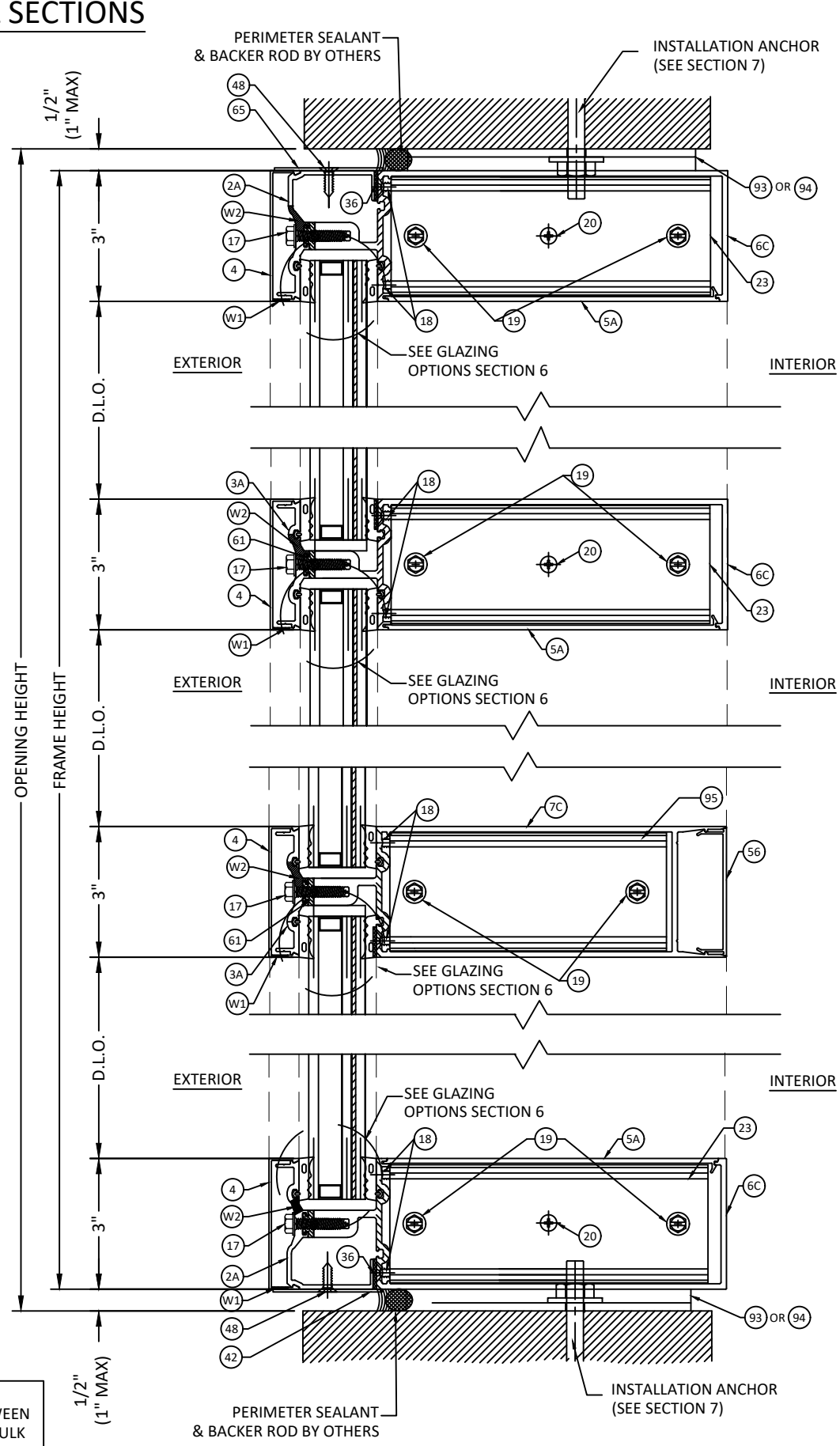
HEAVY DUTY MULLIONS - VERTICAL SECTIONS



1
3.2
VERTICAL SECTION
HEAVY DUTY MULLION
MONOLITHIC GLASS

WEEPHOLES:
W1 = 5/16" DIA. WEEP HOLES TWO PER D.L. OPNG.
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W2 = 5/16" DIA. WEEP HOLES THREE PER LITE
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NOTE:
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2
3.2
VERTICAL SECTION
HEAVY DUTY MULLION
INSULATING GLASS

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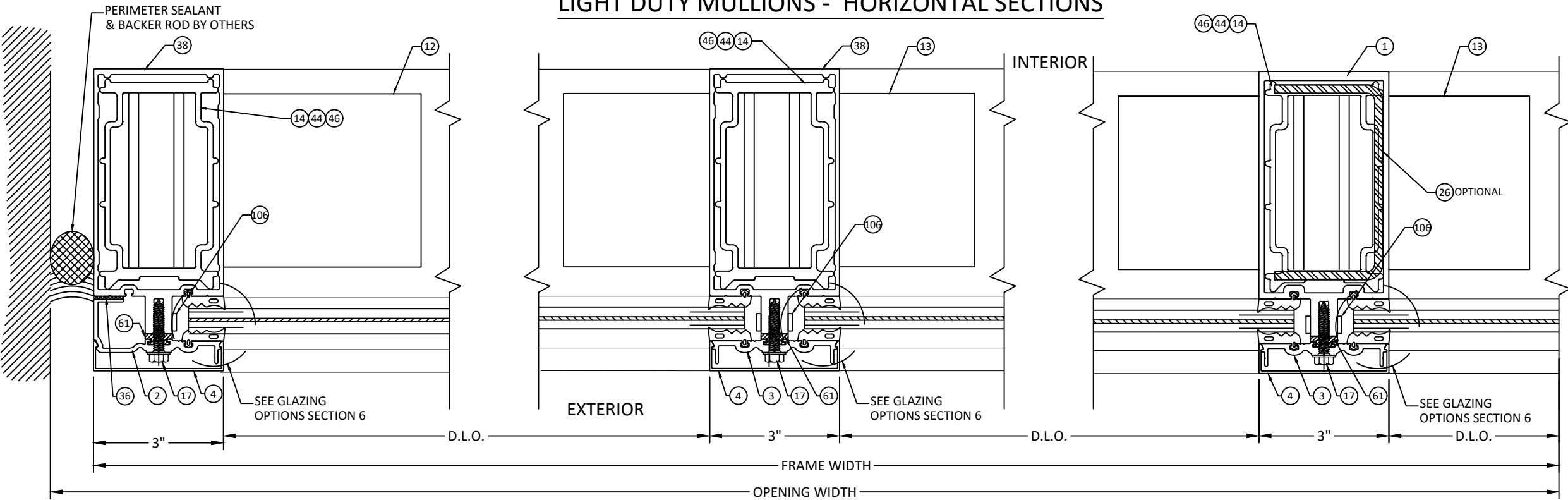
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LIGHT DUTY MULLIONS - HORIZONTAL SECTIONS



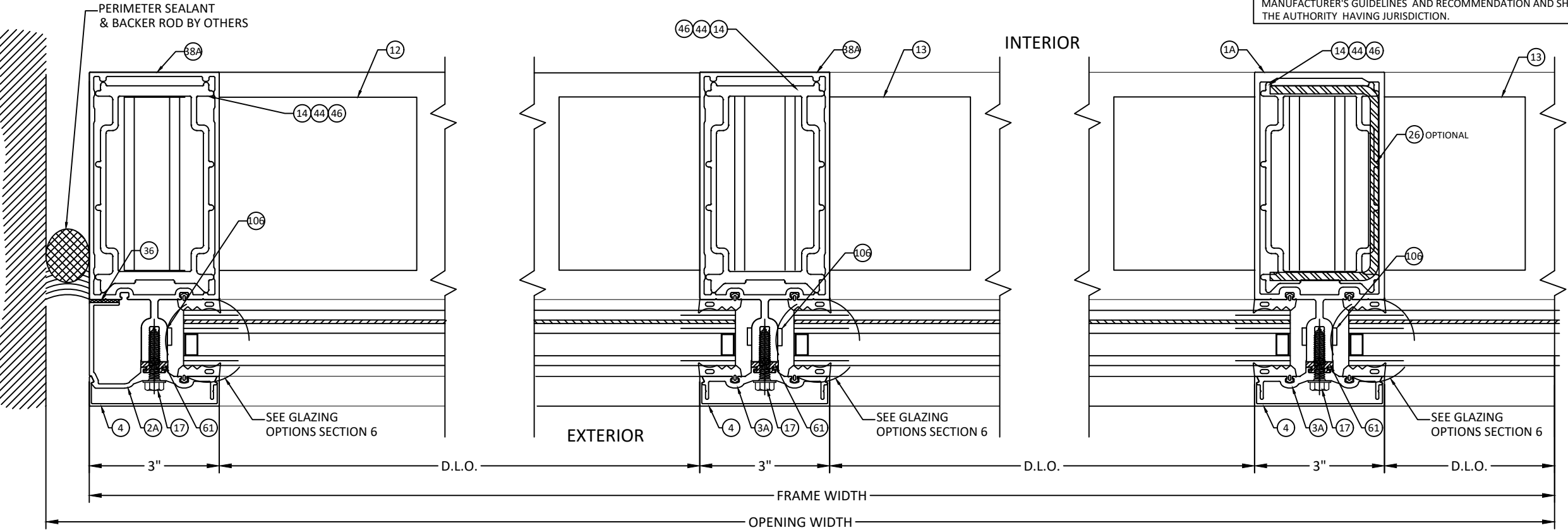
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4.0 LIGHT DUTY MULLION
MONOLITHIC GLASS

2 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION
MONOLITHIC GLASS

3 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION
MONOLITHIC GLASS

MAX. DESIGN LOAD- PSF	MIN. GAP	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.



4 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION
INSULATING GLASS

5 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION
INSULATING GLASS

6 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION
INSULATING GLASS

YKK
ap Quality
inspires™

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DUBLIN, GEORGIA 31021
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TITLE: YHC - 300 OG (HVVZ)
CURTAIN WALL SYSTEM

HORIZONTAL SECTIONS

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BD
BUILDING DROPS

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

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL13433**

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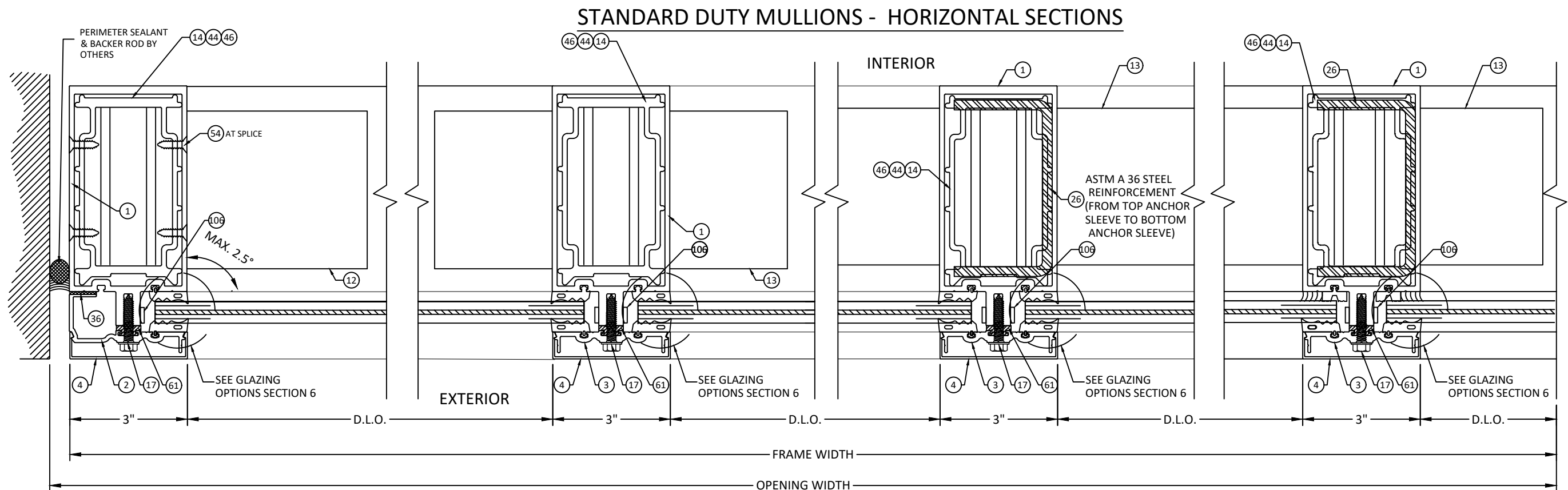
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DWG. #: **YKK204**

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1 HORIZONTAL SECTION
4.1 STANDARD MULLION
MONOLITHIC GLASS

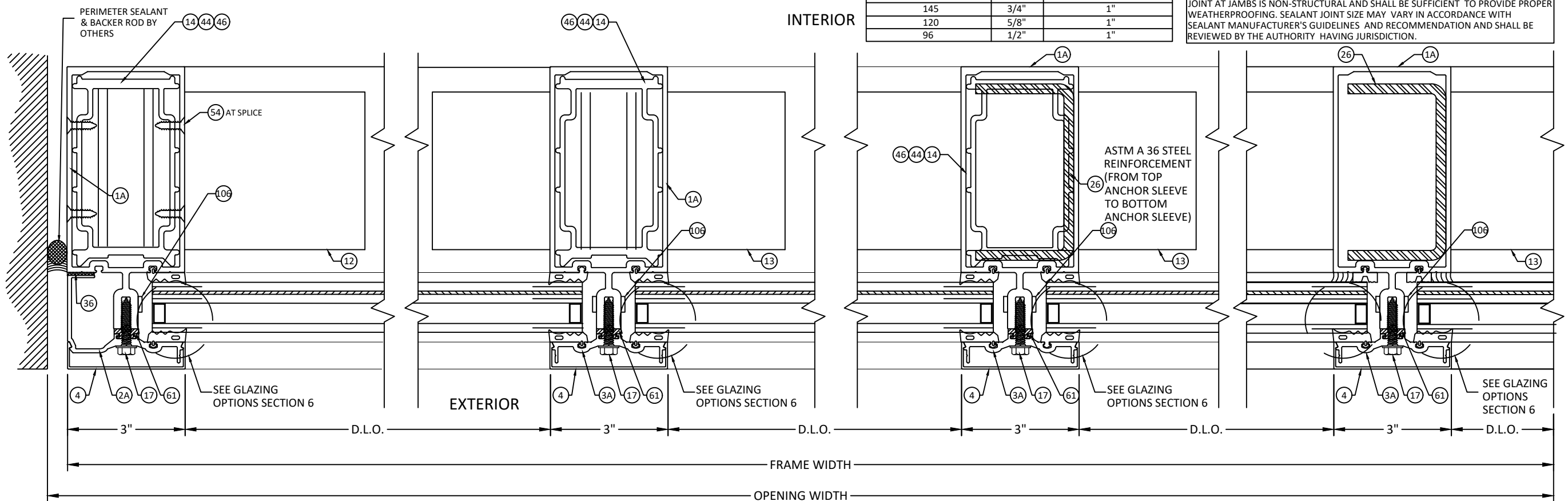
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4.1 STANDARD MULLION
MONOLITHIC GLASS

3 HORIZONTAL SECTION
4.1 STANDARD MULLION (REINFORCED)
MONOLITHIC GLASS

4 HORIZONTAL SECTION
4.1 STANDARD MULLION (REINFORCED)
MONOLITHIC GLASS

MAX. DESIGN LOAD-PSF	MIN. GAP	OPENING WIDTH MAX. GAP
145	3/4"	1"
120	5/8"	1"
96	1/2"	1"

NOTE:
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5 HORIZONTAL SECTION
4.1 STANDARD MULLION
INSULATING GLASS

6 HORIZONTAL SECTION
4.1 STANDARD MULLION
INSULATING GLASS

7 HORIZONTAL SECTION
4.1 STANDARD MULLION (REINFORCED)
INSULATING GLASS

8 HORIZONTAL SECTION
4.1 STANDARD MULLION (REINFORCED)
INSULATING GLASS

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CURTAIN WALL SYSTEM

HORIZONTAL SECTIONS

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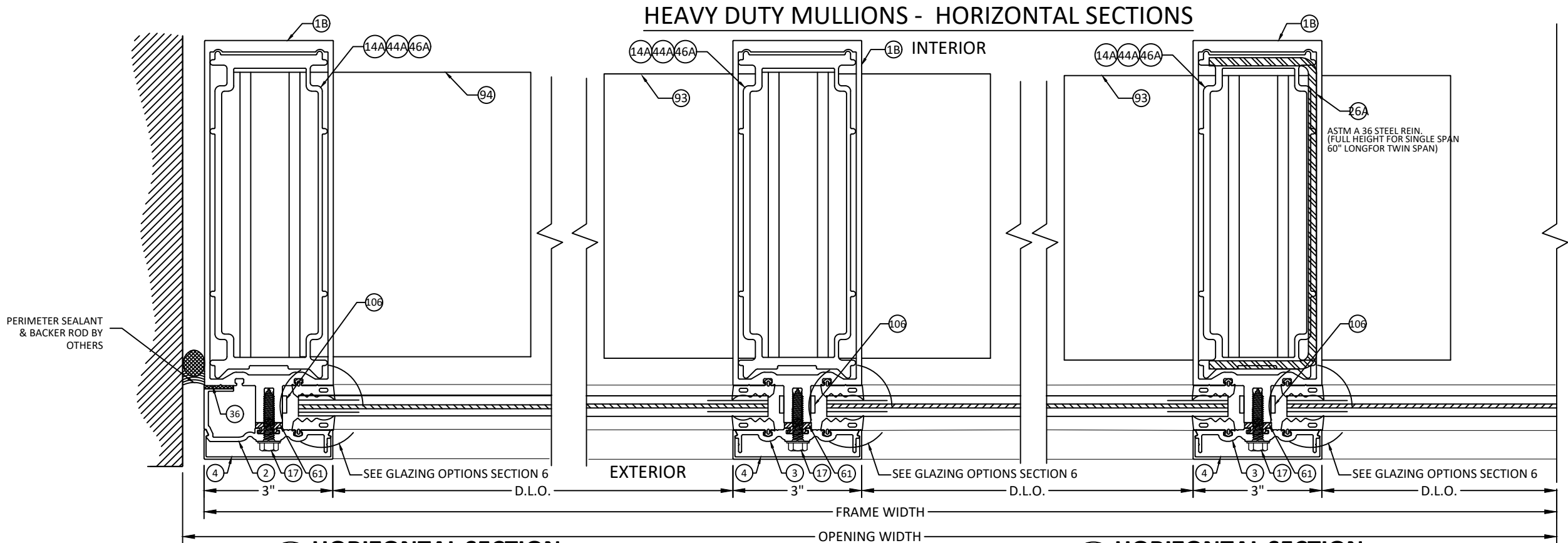
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[Page 7 of 59]

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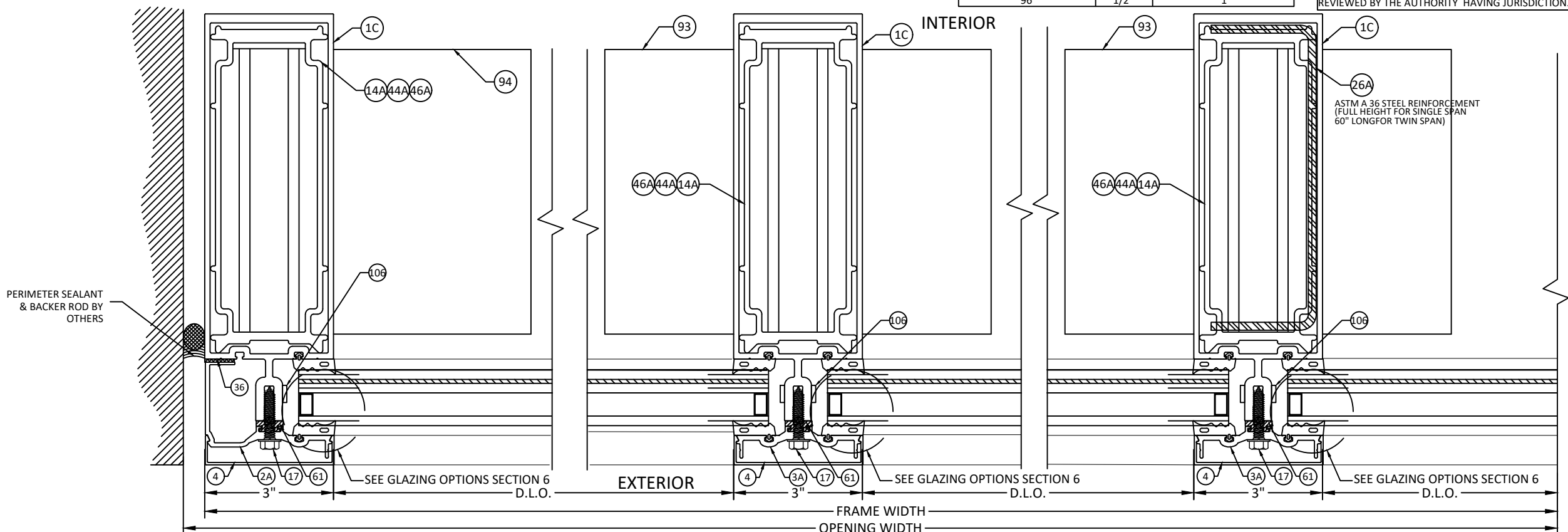
1 HORIZONTAL SECTION
4.2 HEAVY DUTY MULLION MONOLITHIC GLASS

2 HORIZONTAL SECTION
4.2 HEAVY DUTY MULLION MONOLITHIC GLASS

3 HORIZONTAL SECTION
4.2 HEAVY DUTY MULLION MONOLITHIC GLASS

MAX. DESIGN LOAD-PSF	MIN. GAP	OPENING WIDTH MAX. GAP
145	3/4"	1"
120	5/8"	1"
96	1/2"	1"

NOTE:
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4 HORIZONTAL SECTION
4.2 HEAVY DUTY MULLION INSULATING GLASS

5 HORIZONTAL SECTION
4.2 HEAVY DUTY MULLION INSULATING GLASS

6 HORIZONTAL SECTION
4.2 HEAVY DUTY MULLION INSULATING GLASS



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021

PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (H/VHZ)
CURTAIN WALL SYSTEM

HORIZONTAL SECTIONS

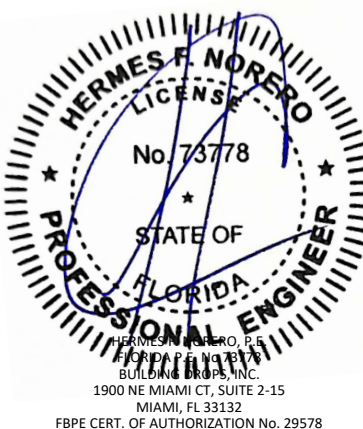
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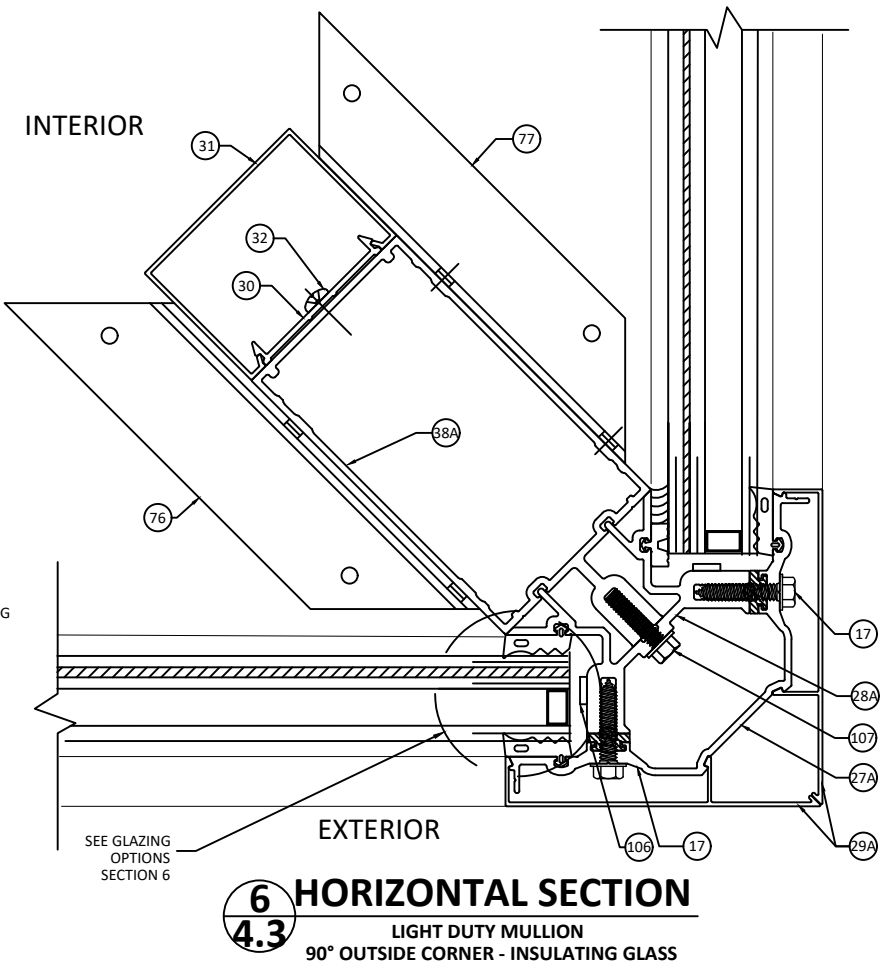
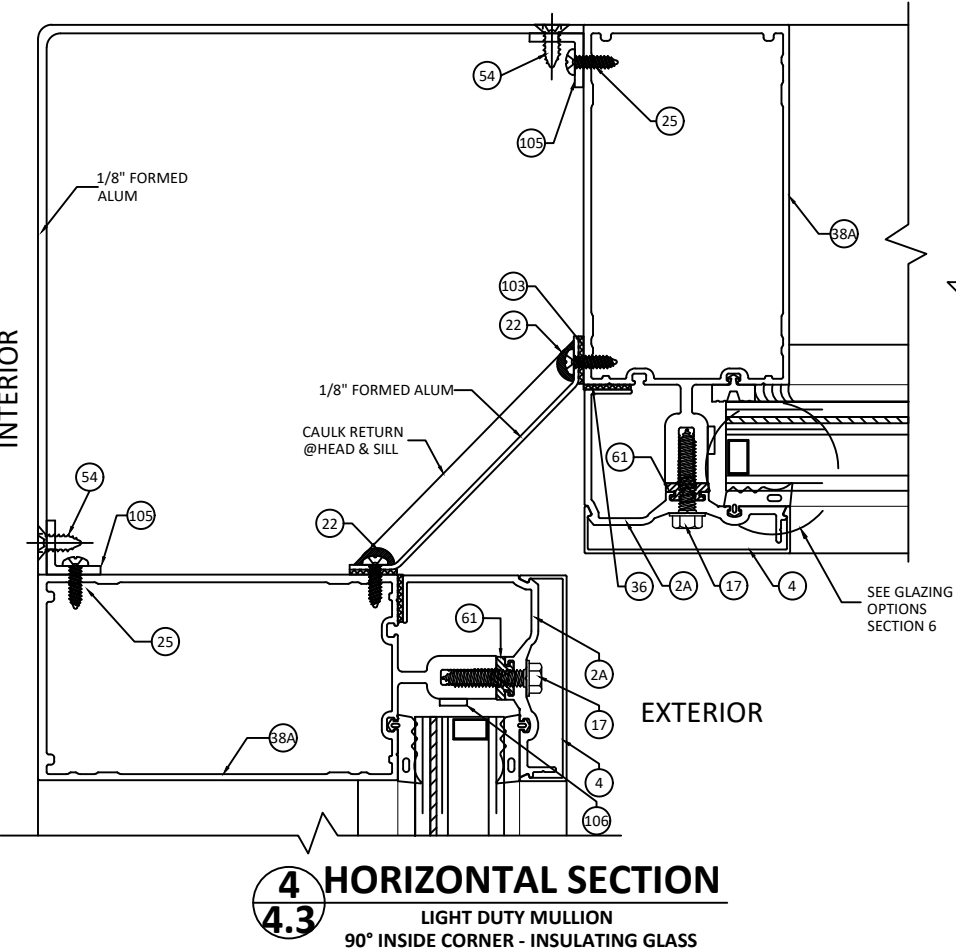
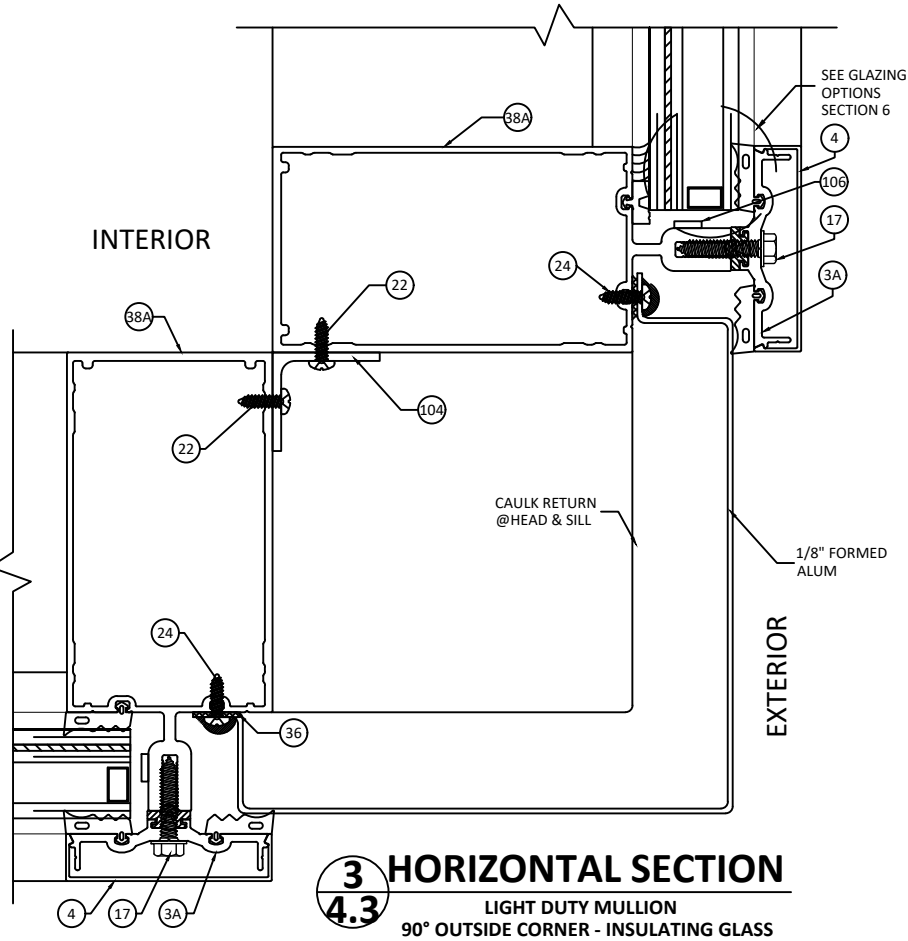
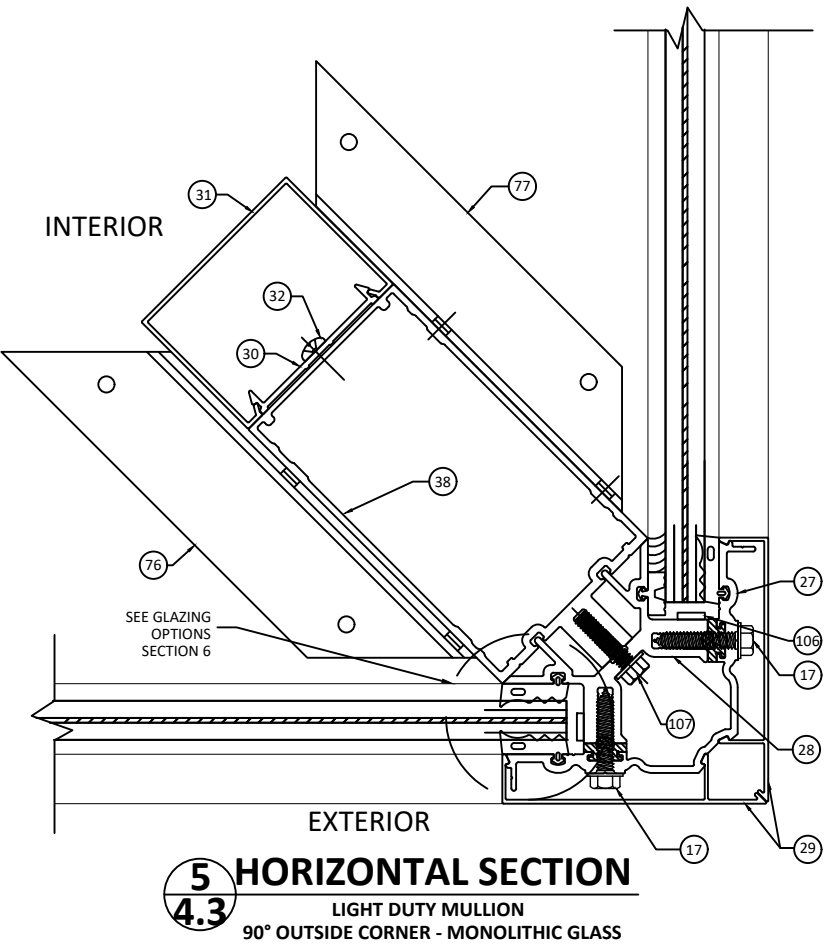
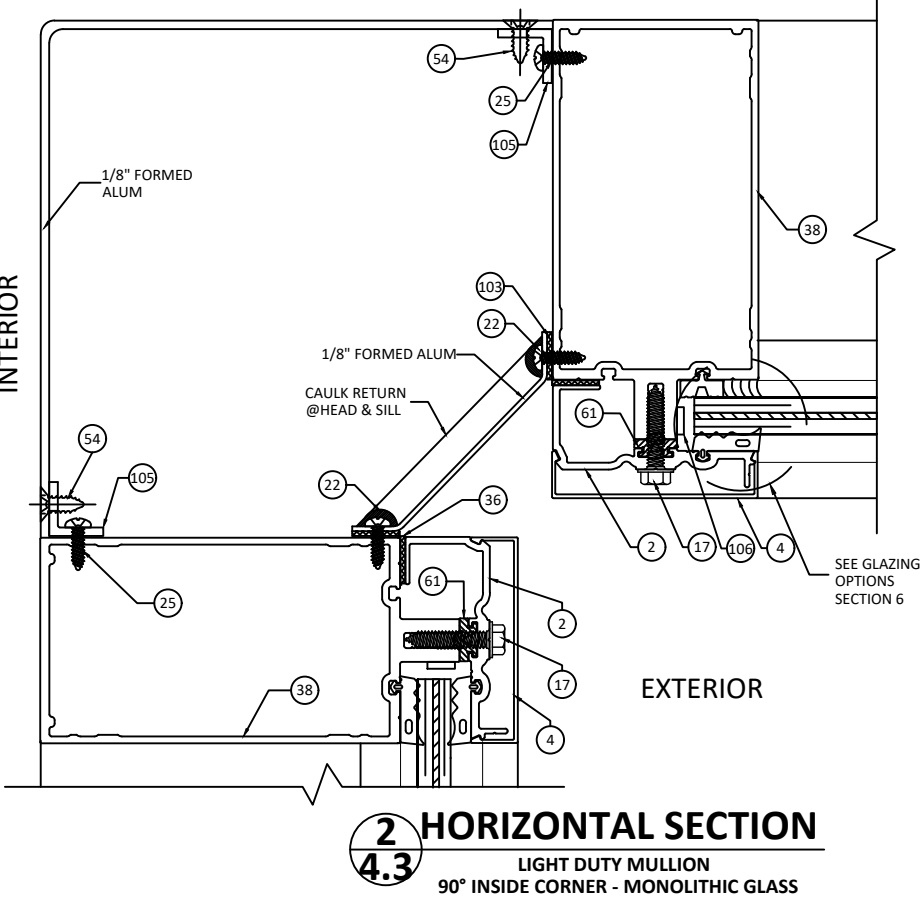
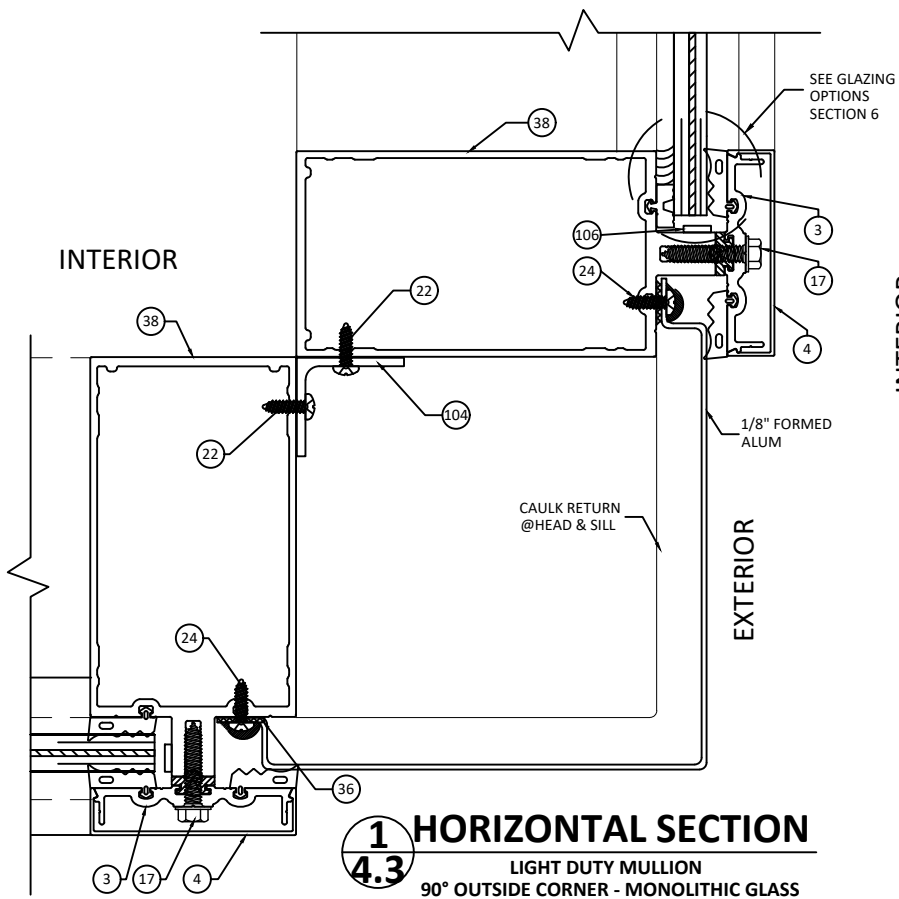
DWG. #: **YKK204**

SECTION:

4.2

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LIGHT DUTY CORNER MULLIONS - HORIZONTAL SECTIONS



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

HORIZONTAL SECTIONS (CORNERS)

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL13433
DATE:	7.17.17
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK204
SECTION:	4.3

[Page 9 of 59]

6/2/2026 11:35 AM

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LIGHT DUTY MULLION CAPACITY CHARTS

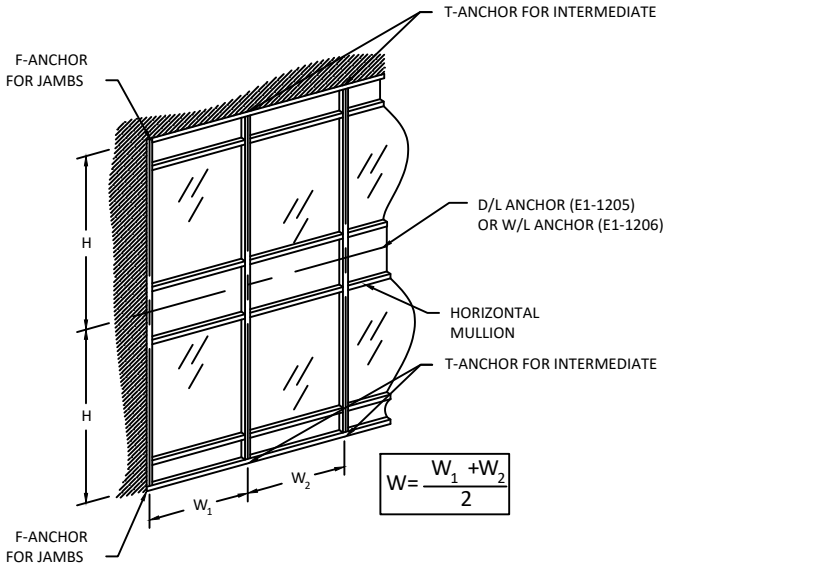
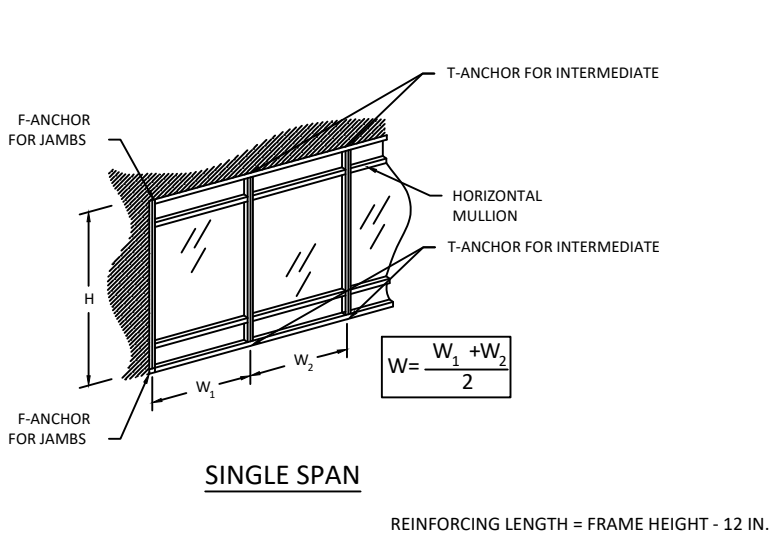
NOTES

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

CASE 1: SINGLE SPAN WITH UNREINFORCED MULLION
CASE 2: SINGLE SPAN WITH REINFORCED MULLION FULL HEIGHT
CASE 3: TWIN SPAN WITH REINFORCED MULLION AT INTERMEDIATE SUPPORT ONLY

LIGHT DUTY HORIZONTAL MULLIONS (+/- PSF)	
WIDTH, W (in) 'Span'	Ext. (+) Int. (-)
48	65

STANDARD DUTY HORIZONTAL MULLIONS (+/- PSF)	
WIDTH, W (in) 'Span'	Ext. (+) Int. (-)
74	65



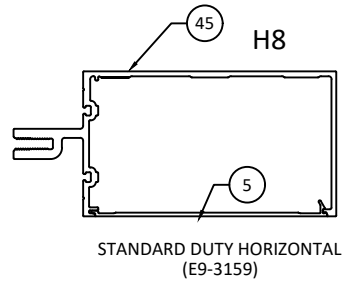
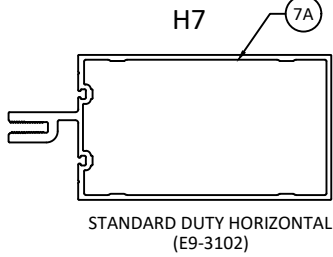
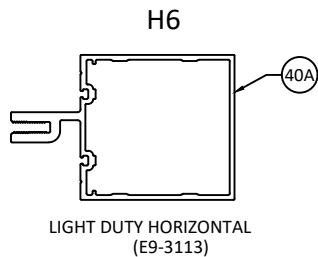
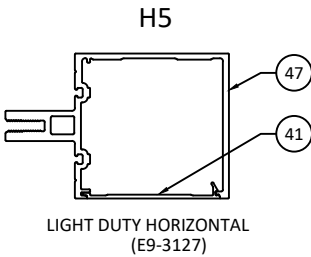
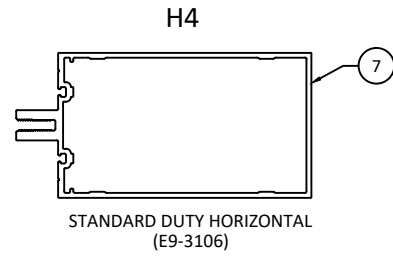
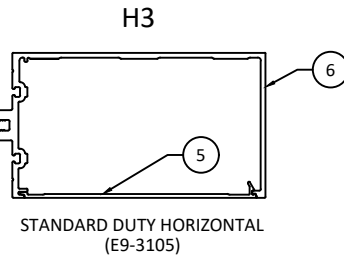
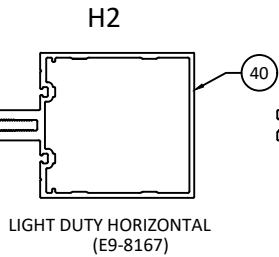
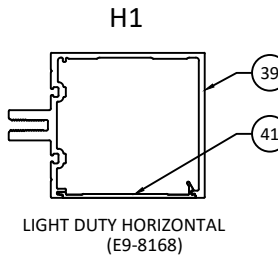
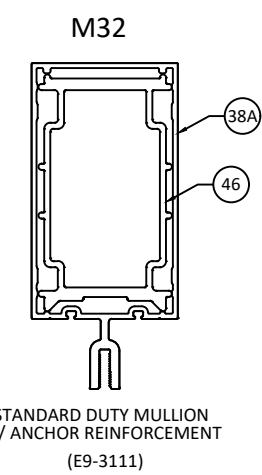
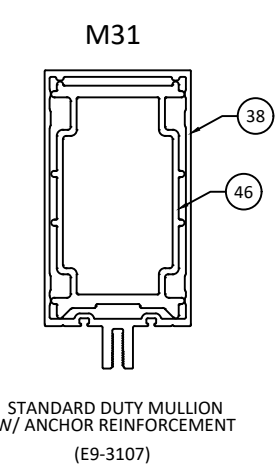
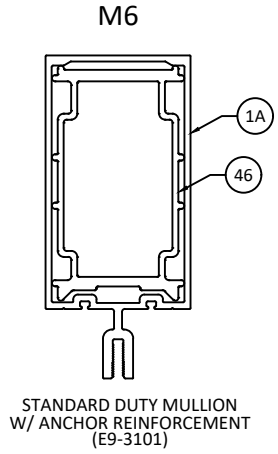
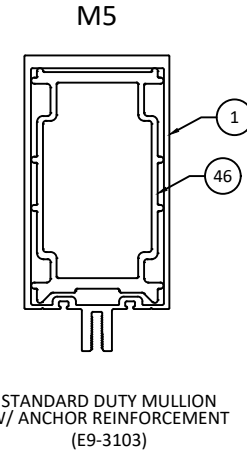
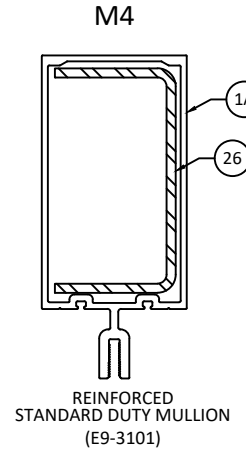
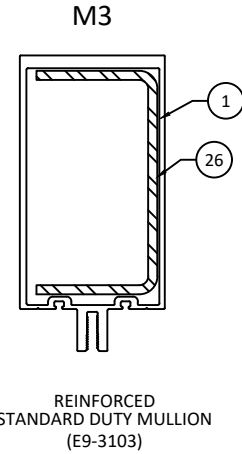
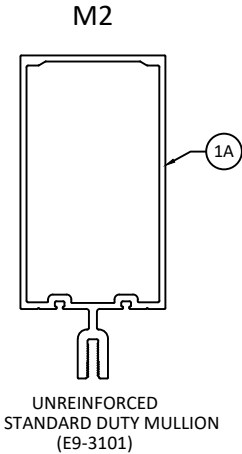
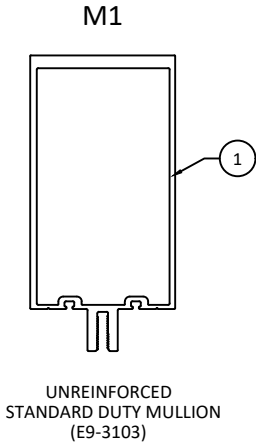
SINGLE SPAN

SECTIONS @ F/T ANCHOR SPLICE/WIND LOAD/DEAD LOAD LOCATION

MULLIONS

- VERTICAL MEMBER SINGLE SPAN NOTES:
- DETAILS HAVE BEEN SHOWN FOR ILLUSTRATIVE PURPOSES. FOR DETAILS OF FULL ASSEMBLY PLEASE REFER TO APPLICABLE DETAILS ON SECTION 3.
 - TABULATED DESIGN PRESSURE VALUES ARE BASED ON LIMITATIONS OF DEFLECTION, FIBERSTRESS, & END REACTION PER MULLION SPAN ('L') AND MULLION SPACING ('W').
 - FOR SITE CONDITIONS WHICH EXCEED LIMITATIONS SHOWN, FURTHER ENGINEERING MAY BE REQUIRED ON A CASE BY CASE BASIS.
 - FOR T, F, OR S CLIP ANCHORS, PLEASE REFER TO SECTION 7 & 8 FOR ANCHOR SELECTION, SUBSTRATE REQUIREMENTS, AND FURTHER LIMITATIONS OF USE.

REFER TO 4.5 FOR LIGHT DUTY MULLION CAPACITY TABLES





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YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021

PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

MULLION CAPACITY CHART

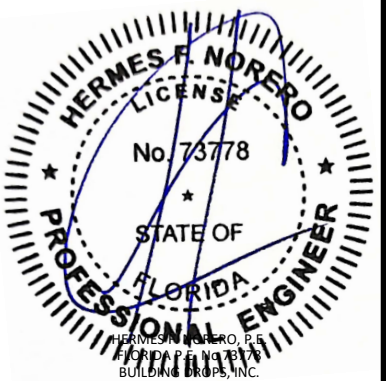
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL13433

DATE:
7.17.17

DWG. BY:
AR

CHK. BY:
HFN

SCALE:
NTS

DWG. #:
YKK204

SECTION:
4.4

[Page 10 of 59]

LIGHT DUTY MULLION LOAD CAPACITY CHARTS

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M1' & 'M2'	MULLION 'M3' & 'M4'	MULLION 'M5', 'M6', 'M31' & 'M32'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	78	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		65.0	65.0	65.0
72		65.0	65.0	65.0
24	84	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		65.0	65.0	65.0
72		65.0	65.0	65.0
24	90	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		65.0	65.0	65.0
72		65.0	65.0	65.0
24	96	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		65.0	65.0	65.0
72		65.0	65.0	65.0
24	102	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		65.0	65.0	65.0
72		65.0	65.0	65.0

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M1' & 'M2'	MULLION 'M3' & 'M4'	MULLION 'M5', 'M6', 'M31' & 'M32'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	108	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		65.0	65.0	65.0
72		65.0	65.0	65.0
24	114	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		65.0	65.0	65.0
72		65.0	65.0	65.0
24	120	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		65.0	65.0	65.0
72		65.0	65.0	65.0
24	126	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		65.0	65.0	65.0
60		65.0	65.0	65.0
66		62.4	65.0	65.0
72		57.2	65.0	65.0

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M1' & 'M2'	MULLION 'M3' & 'M4'	MULLION 'M5', 'M6', 'M31' & 'M32'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	132	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		65.0	65.0	65.0
60		59.7	65.0	65.0
66		54.2	65.0	65.0
72		49.7	65.0	65.0
24	138	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		65.0	65.0	65.0
54		58.0	65.0	65.0
60		52.2	65.0	65.0
66		47.5	65.0	65.0
72		43.5	65.0	65.0
24	144	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		65.0	65.0	65.0
48		57.4	65.0	65.0
54		51.1	65.0	65.0
60		45.9	65.0	65.0
66		41.8	65.0	65.0
72		38.3	65.0	65.0
24	150	65.0	65.0	65.0
30		65.0	65.0	65.0
36		65.0	65.0	65.0
42		58.1	65.0	65.0
48		50.8	65.0	65.0
54		45.2	65.0	65.0
60		40.7	65.0	65.0
66		37.0	65.0	65.0
72		33.9	65.0	65.0

*SLEEVE REINFORCEMENT @ WL + DL, 29" LONG



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

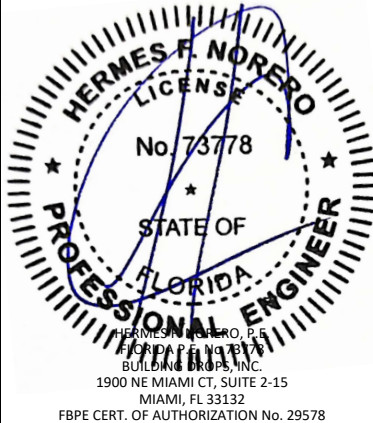
TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
MULLION CAPACITY CHART

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL13433		
DATE:	7.17.17		
DWG. BY:	AR	CHK. BY:	HFN
SCALE:	NTS		
DWG. #:	YKK204		
SECTION:	4.5		

[Page 11 of 59]

STANDARD DUTY MULLION CAPACITY CHARTS

NOTES

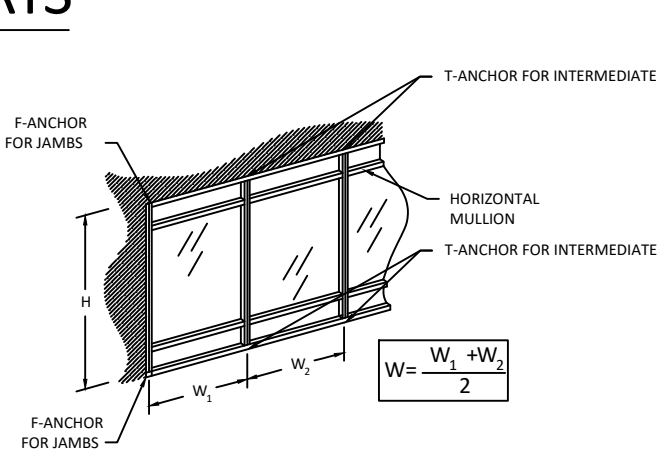
- 1. DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER CURRENT FBC SPECIFICATIONS FOR HVHZ
- 2. SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
- 3. FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.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

CASE 1: SINGLE SPAN WITH UNREINFORCED MULLION
CASE 2: SINGLE SPAN WITH REINFORCED MULLION FULL HEIGHT
CASE 3: TWIN SPAN WITH REINFORCED MULLION AT INTERMEDIATE SUPPORT ONLY

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLIO N 'M7' & 'M8'	MULLIO N 'M9' & 'M10'	MULLIO N 'M11' & 'M12'
36	78	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		90.0	90.0	90.0
72	84	90.0	90.0	90.0
36		90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66	90	90.0	90.0	90.0
72		90.0	90.0	90.0
36		90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60	96	90.0	90.0	90.0
66		90.0	90.0	90.0
72		90.0	90.0	90.0
36		90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54	102	90.0	90.0	90.0
60		90.0	90.0	90.0
66		90.0	90.0	90.0
72		90.0	90.0	90.0
36		90.0	90.0	90.0
42		90.0	90.0	90.0
48	108	90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		90.0	90.0	90.0
72		90.0	90.0	90.0
36		90.0	90.0	90.0
42	114	90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		90.0	90.0	90.0
72		90.0	90.0	90.0
36	120	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		90.0	90.0	90.0
72		90.0	90.0	90.0

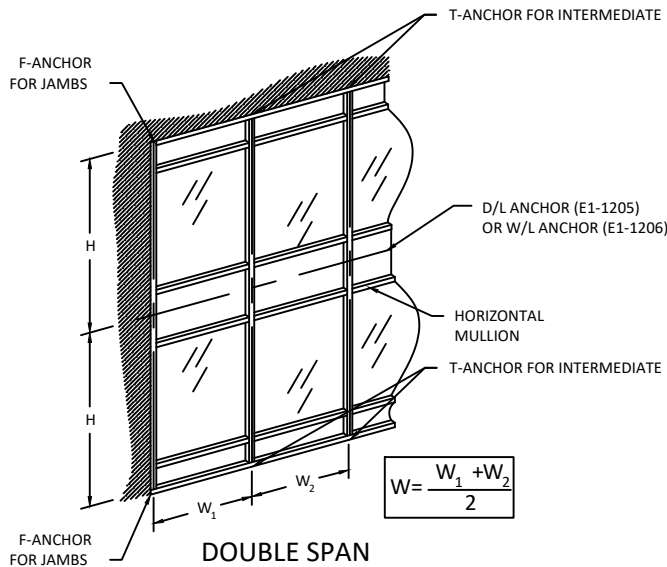
JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLIO N 'M7' & 'M8'	MULLIO N 'M9' & 'M10'	MULLIO N 'M11' & 'M12'
36	123	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		90.0	90.0	90.0
72	126	61.4	90.0	90.0
36		90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66	132	62.4	90.0	90.0
72		57.2	90.0	90.0
36		90.0	90.0	90.0
42		85.2	90.0	90.0
48		74.6	90.0	90.0
54		66.3	90.0	90.0
60	138	59.7	90.0	90.0
66		54.2	90.0	90.0
72		49.7	90.0	90.0
36		87.0	90.0	90.0
42		74.6	90.0	90.0
48		65.3	90.0	90.0
54	144	58.0	90.0	90.0
60		52.2	90.0	90.0
66		47.5	90.0	90.0
72		43.5	90.0	90.0
36		76.6	90.0	90.0
42		65.6	90.0	90.0
48	150	57.4	90.0	90.0
54		51.1	90.0	90.0
60		45.9	90.0	90.0
66		41.8	90.0	90.0
72		38.3	83.2	89.2
36		67.8	90.0	90.0
42		58.1	90.0	90.0
48		50.8	90.0	90.0
54		45.2	90.0	90.0
60		40.7	90.0	90.0
66		37.0	83.6	90.0
72		33.9	76.6	85.6

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



SINGLE SPAN

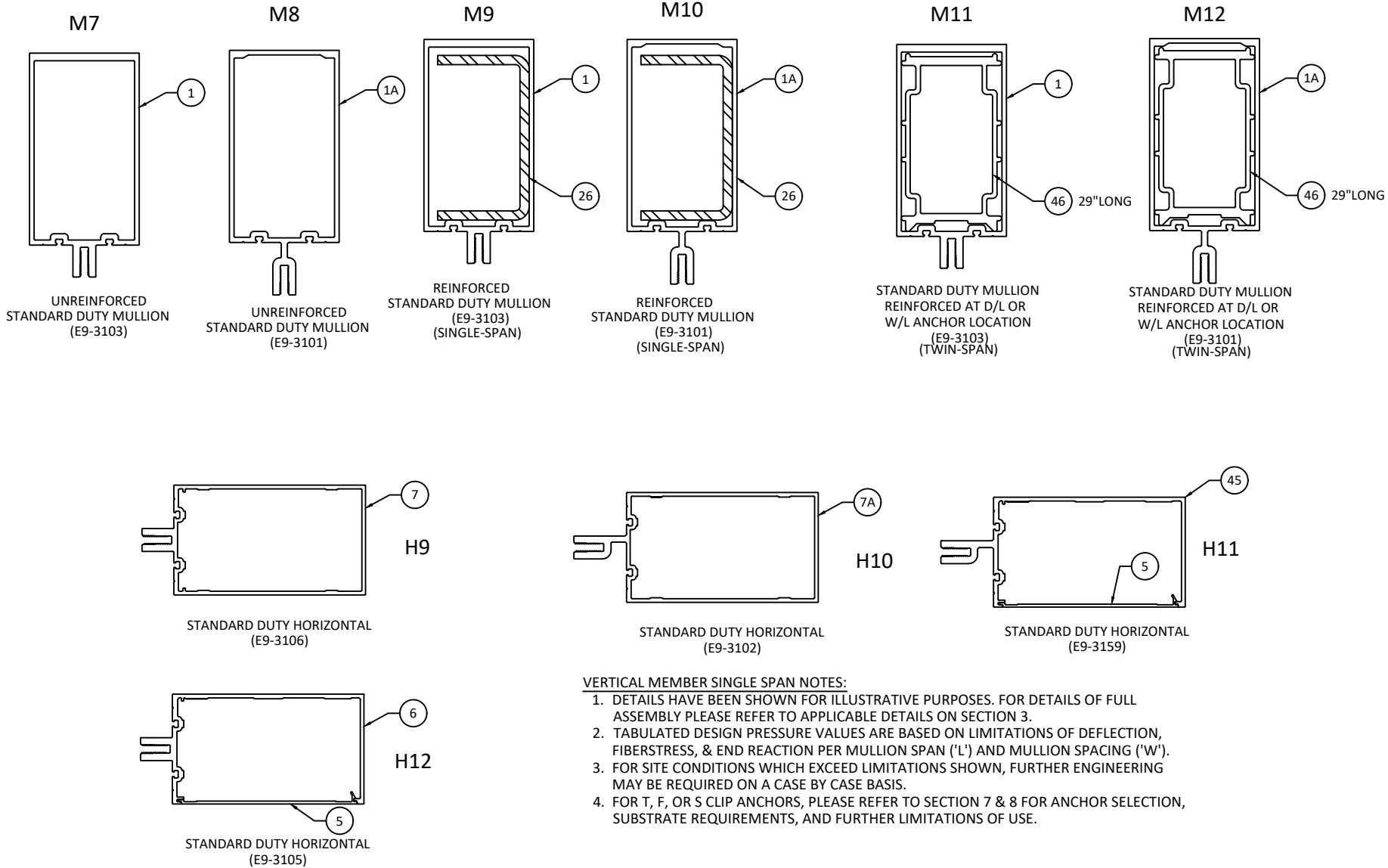
REINFORCING LENGTH = FRAME HEIGHT - 12 IN.



DOUBLE SPAN

MULLIONS

SECTIONS @ F/T ANCHOR SPLICE/WIND LOAD/DEAD LOAD LOCATION



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 & 8 FOR ANCHOR SELECTION, SUBSTRATE REQUIREMENTS, AND FURTHER LIMITATIONS OF USE.



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

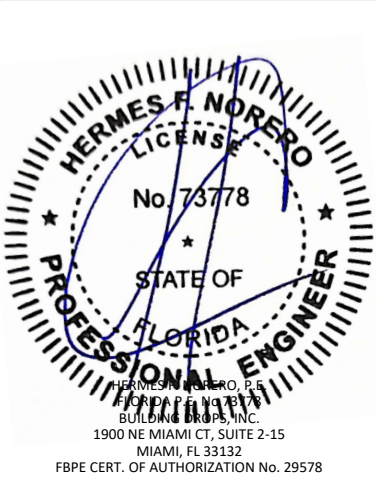
TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

MULLION CAPACITY CHARTS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:

FL13433

DATE:

7.17.17

DWG. BY:

AR

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK204

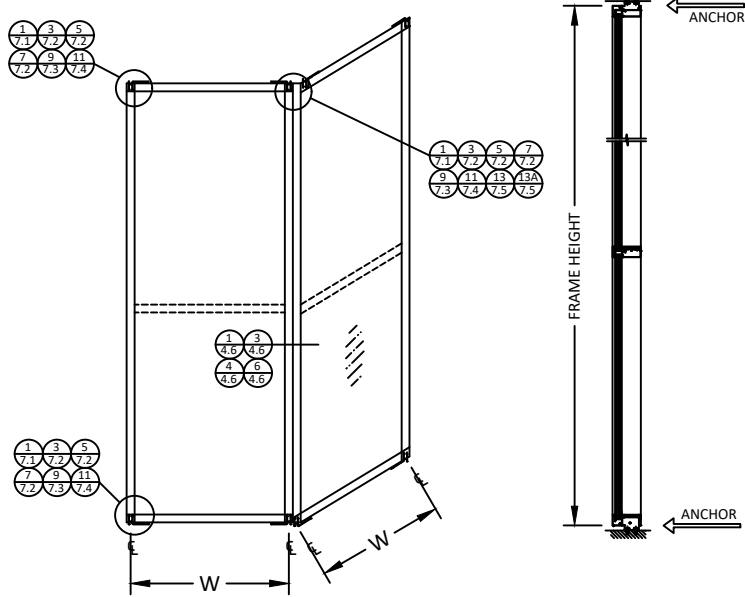
SECTION:

4.7

[Page 13 of 59]

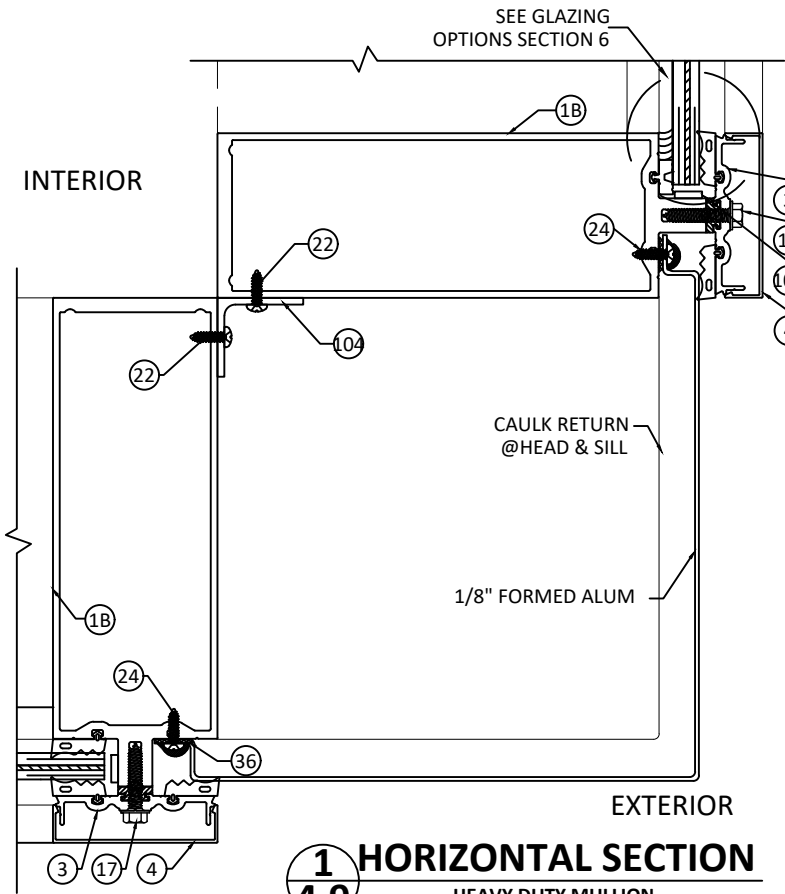
STANDARD DUTY CORNER MULLIONS - CAPACITY CHART

CORNER MULLION W/O REINFORCING
SINGLE SPAN WITH HORIZONTAL

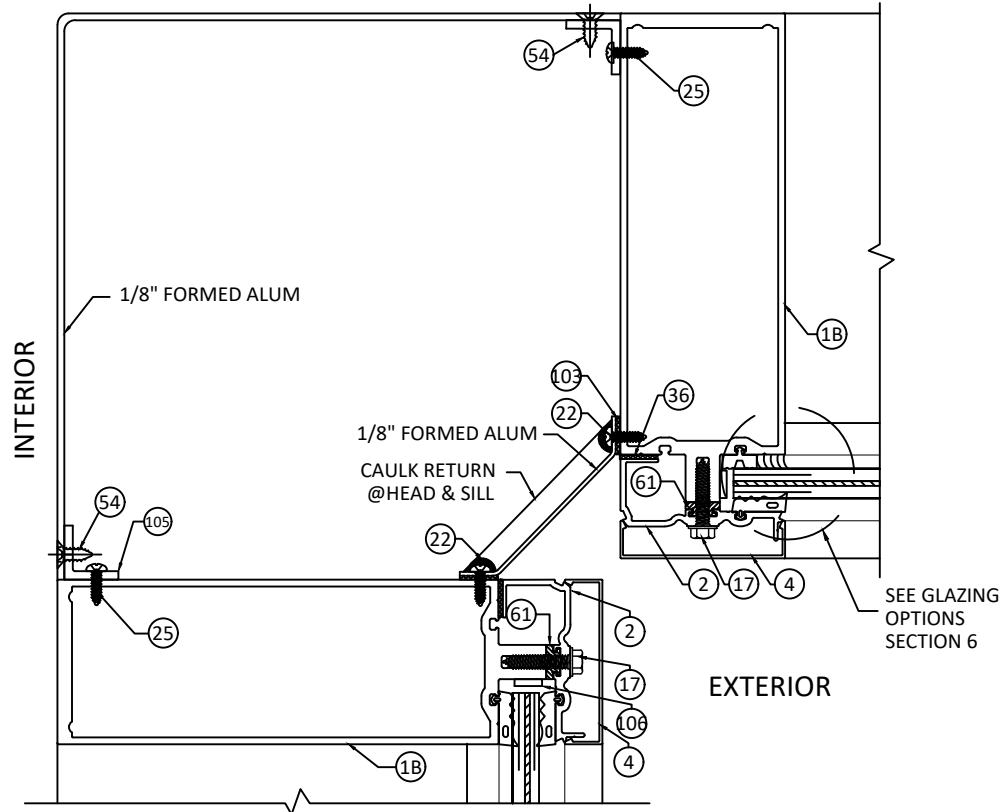


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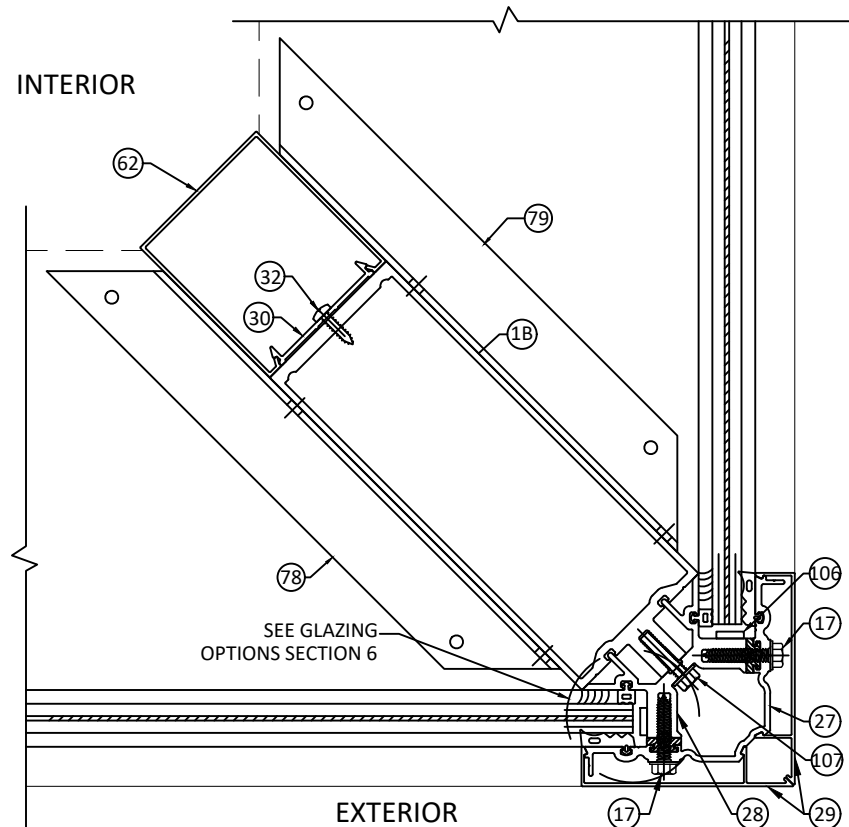
HEAVY DUTY CORNER MULLIONS - HORIZONTAL SECTIONS



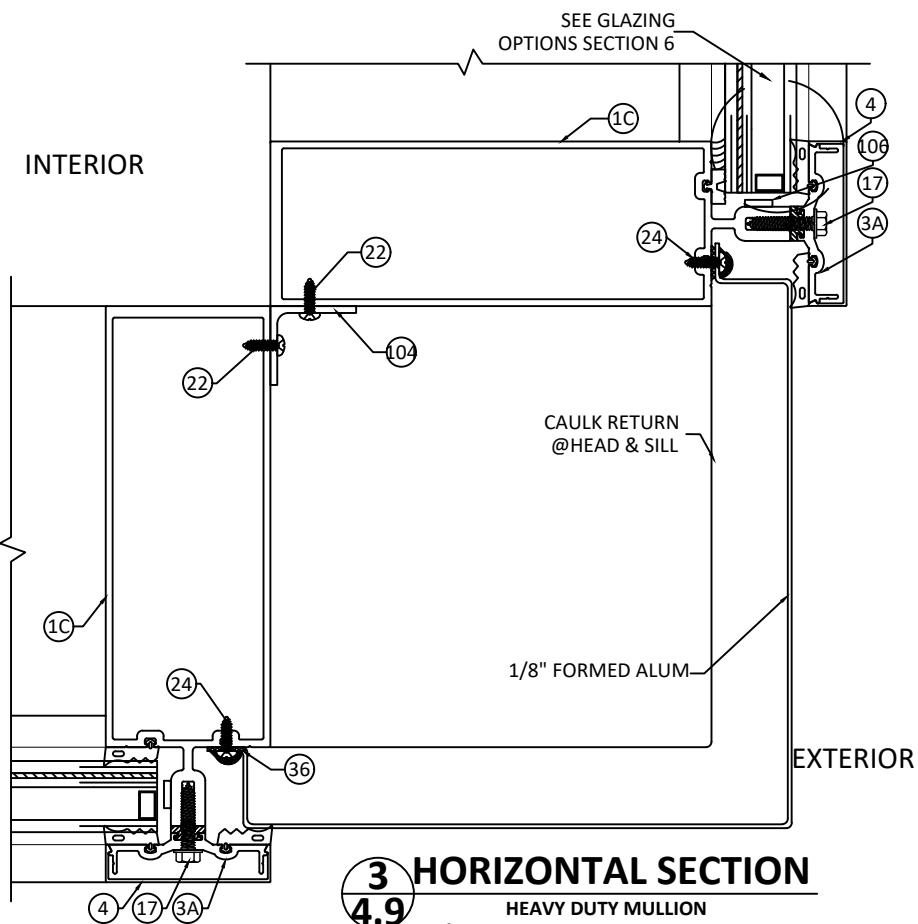
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4.9 HORIZONTAL SECTION
HEAVY DUTY MULLION
90° OUTSIDE CORNER - MONOLITHIC GLASS



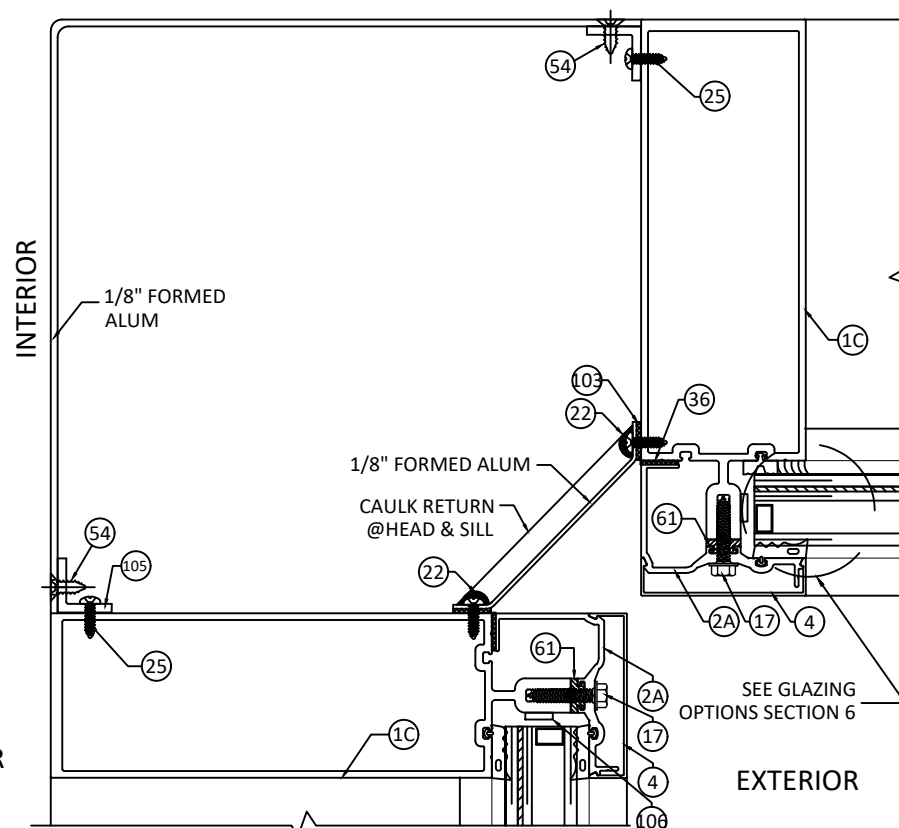
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4.9 HORIZONTAL SECTION
HEAVY DUTY MULLION
90° INSIDE CORNER - MONOLITHIC GLASS



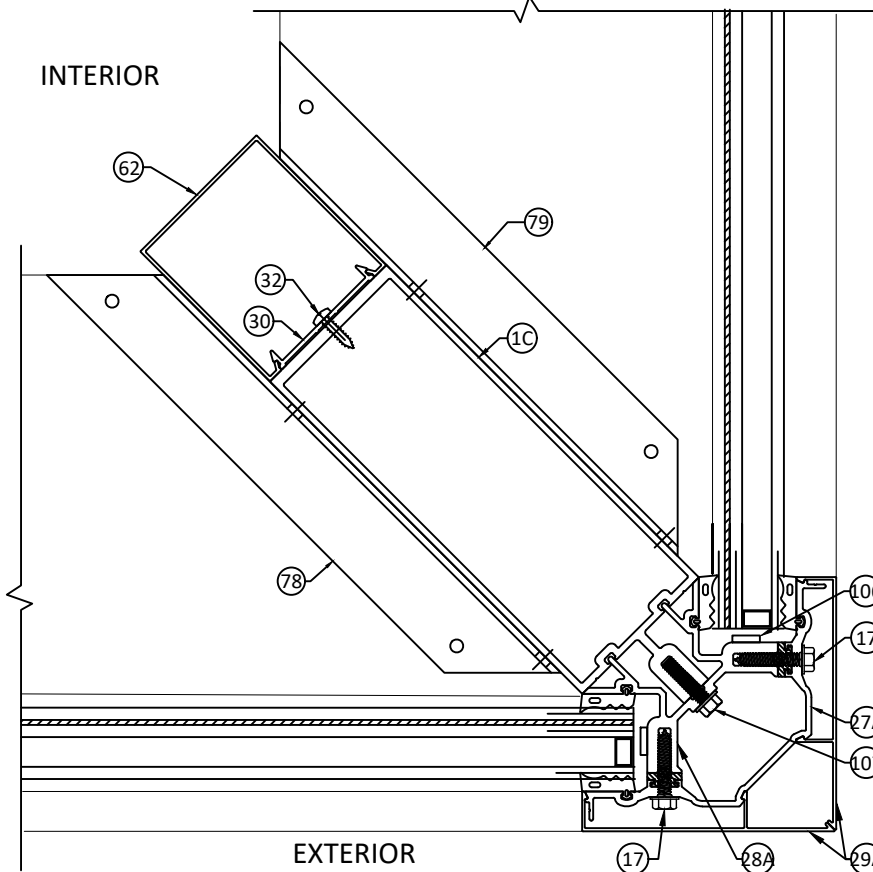
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4.9 HORIZONTAL SECTION
HEAVY DUTY MULLION
90° OUTSIDE CORNER - MONOLITHIC GLASS



3
4.9 HORIZONTAL SECTION
HEAVY DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS



4
4.9 HORIZONTAL SECTION
HEAVY DUTY MULLION
90° INSIDE CORNER - INSULATING GLASS



6
4.9 HORIZONTAL SECTION
HEAVY DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS



YKK AP AMERICA

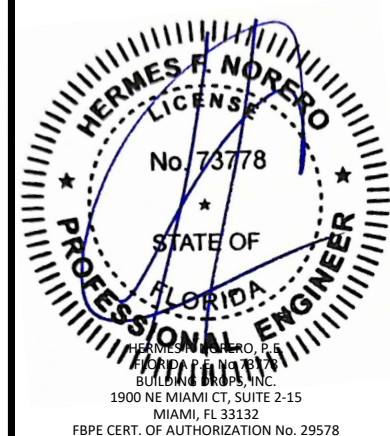
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
HORIZONTAL SECTION CORNERS
HIGH PRESSURE
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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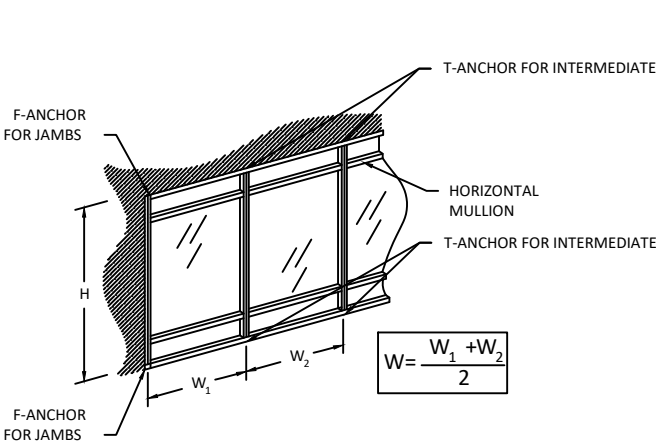
FL #:	FL13433
DATE:	7.17.17
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK204
SECTION:	4.9

HEAVY DUTY MULLION CAPACITY CHARTS (STANDARD PRESSURES)

NOTES

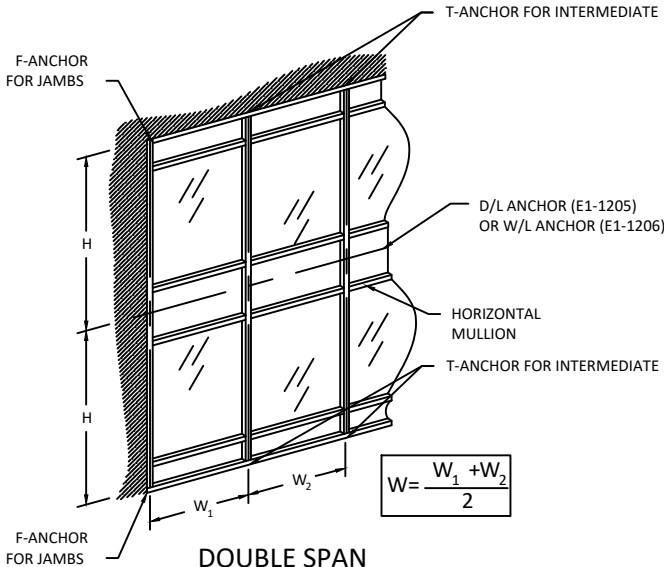
- 1. DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER CURRENT FBC SPECIFICATIONS FOR HVHZ
- 2. SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
- 3. FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.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

- CASE 1: SINGLE SPAN WITH UNREINFORCED MULLION
- CASE 2: SINGLE SPAN WITH REINFORCED MULLION FULL HEIGHT
- CASE 3: TWIN SPAN WITH REINFORCED MULLION AT INTERMEDIATE SUPPORT ONLY



SINGLE SPAN

REINFORCING LENGTH = FRAME HEIGHT - 12 IN.

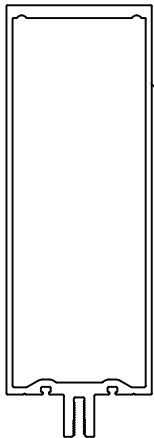


DOUBLE SPAN

SECTIONS @ F/T ANCHOR/ SPLICE/WIND LOAD/ DEAD LOAD LOCATION

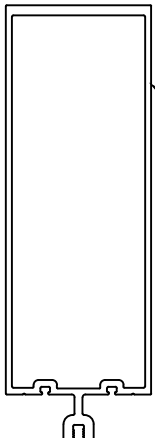
MULLIONS

M19



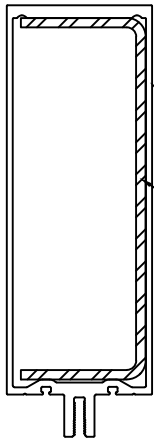
UNREINFORCED
HEAVY DUTY MULLION
(E9-3182)

M20



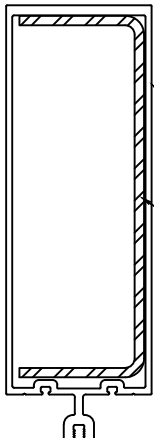
UNREINFORCED
HEAVY DUTY MULLION
(E9-3183)

M21



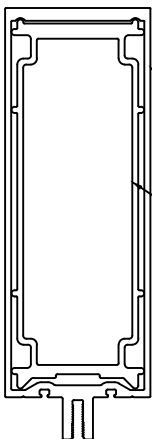
REINFORCED
HEAVY DUTY MULLION
(E9-3182)

M22



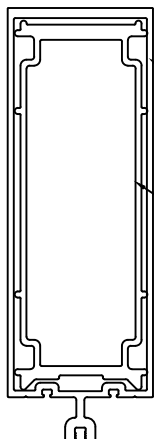
REINFORCED
STANDARD DUTY MULLION
(E9-3183)

M23



SLEEVE REINFORCEMENT
HEAVY DUTY MULLION
(E9-3182)

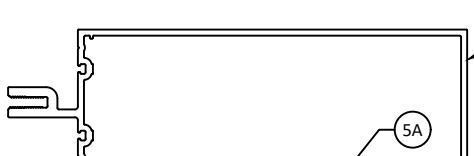
M24



SLEEVE REINFORCEMENT
HEAVY DUTY MULLION
(E9-3183)



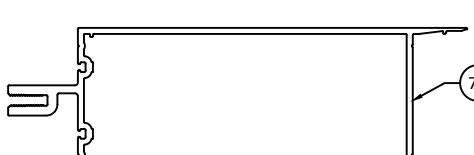
HEAVY DUTY HORIZONTAL
(E9-3189)



HEAVY DUTY HORIZONTAL
(E9-3187)



HEAVY DUTY HORIZONTAL
(E9-3190)



HEAVY DUTY HORIZONTAL
(E9-3185)

REFER TO 4.10A FOR HEAVY DUTY MULLION CAPACITY TABLES (STANDARD PRESSURE)

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 & 8 FOR ANCHOR SELECTION, SUBSTRATE REQUIREMENTS, AND FURTHER LIMITATIONS OF USE.

- 14A MULLION ANCHOR SLEEVE (HD)
(3" LONG AT TOP & BOTTOM)
- 44A MULLION SPLICE SLEEVE (HD)
(6" LONG AT SPLICE)
- 46A MULLION WL/DL REINFORCEMENT SLEEVE (HD)
(29" LONG AT MID-POINT ANCHOR)



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
MULLION CAPACITY CHARTS

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #: **FL13433**

DATE: **7.17.17**

DWG. BY: **AR**

CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK204**

SECTION:

4.10

HEAVY DUTY MULLION CAPACITY CHARTS (STANDARD PRESSURES)

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M19' & 'M20'	MULLION 'M21' & 'M22'	MULLION 'M23' & 'M24'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	144	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		90.0	90.0	90.0
72		90.0	90.0	90.0
36	150	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		90.0	90.0	90.0
72		83.0	90.0	90.0
36	156	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		83.7	90.0	90.0
72		76.7	90.0	90.0
36	162	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		85.4	90.0	90.0
66		77.6	90.0	90.0
72		71.2	90.0	90.0
36	168	-	90.0	90.0
42		-	90.0	90.0
48		-	90.0	90.0
54		-	90.0	90.0
60		-	90.0	90.0
66		-	90.0	90.0
72		-	90.0	90.0
36	174	-	90.0	90.0
42		-	90.0	90.0
48		-	90.0	90.0
54		-	90.0	90.0
60		-	90.0	90.0
66		-	90.0	90.0
72		-	90.0	90.0

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 2	CASE 3*	
		MULLION 'M21' & 'M22'	MULLION 'M23' & 'M24'	
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
36	180	90.0	90.0	
42		90.0	90.0	
48		90.0	90.0	
54		90.0	90.0	
60		90.0	90.0	
66		90.0	90.0	
72		90.0	90.0	
36	186	90.0	90.0	
42		90.0	90.0	
48		90.0	90.0	
54		90.0	90.0	
60		90.0	90.0	
66		90.0	90.0	
72		90.0	90.0	
36	192	90.0	90.0	
42		90.0	90.0	
48		90.0	90.0	
54		90.0	90.0	
60		90.0	90.0	
66		90.0	89.8	
72		90.0	82.3	
36	198	90.0	90.0	
42		90.0	90.0	
48		90.0	90.0	
54		90.0	90.0	
60		90.0	90.0	
66		90.0	81.9	
72		84.7	75.0	
36	204	90.0	90.0	
42		90.0	90.0	
48		90.0	90.0	
54		90.0	90.0	
60		90.0	82.3	
66		87.1	74.8	
72		79.8	68.6	
36	210	90.0	90.0	
42		90.0	90.0	
48		90.0	90.0	
54		90.0	83.9	
60		90.0	75.5	
66		82.2	68.6	
72		75.3	62.9	

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 2	CASE 3*	
		MULLION 'M21' & 'M22'	MULLION 'M23' & 'M24'	
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
36	216	90.0	90.0	
42		90.0	90.0	
48		90.0	86.7	
54		90.0	77.1	
60		85.4	69.4	
66		77.7	63.1	
72		71.2	57.8	
36	222	90.0	90.0	
42		90.0	90.0	
48		90.0	79.9	
54		89.9	71.0	
60		80.9	63.9	
66		73.5	58.1	
72		67.4	53.2	
36	228	90.0	90.0	
42		90.0	84.2	
48		90.0	73.7	
54		85.2	65.5	
60		76.7	59.0	
66		69.7	53.6	
72		63.9	49.1	
36	234	90.0	90.0	
42		90.0	77.9	
48		90.0	68.2	
54		80.9	60.6	
60		72.8	54.6	
66		66.2	49.6	
72		60.7	45.5	
36	240	90.0	84.3	
42		90.0	72.2	
48		86.1	63.2	
54		76.5	56.2	
60		68.9	50.6	
66		62.6	46.0	
72		57.4	42.1	
36	246	90.0	78.3	
42		90.0	67.1	
48		79.6	58.7	
54		70.7	52.2	
60		63.7	47.0	
66		57.9	42.7	
72		53.0	39.1	

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 2	CASE 3*	
		MULLION 'M21' & 'M22'	MULLION 'M23' & 'M24'	
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
36	252	90.0	72.8	
42		84.2	62.4	
48		73.7	54.6	
54		65.5	48.5	
60		58.9	43.7	
66		53.6	39.7	
72		49.1	36.4	
36	258	90.0	67.8	
42		78.1	58.1	
48		68.3	50.9	
54		60.8	45.2	
60		54.7	40.7	
66		49.7	37.0	
72		45.6	33.9	
36	264	84.7	63.3	
42		72.6	54.3	
48		63.5	47.5	
54		56.5	42.2	
60		50.8	38.0	
66		46.2	34.5	
72		42.3	31.7	
36	270	78.8	59.2	
42		67.6	50.7	
48		59.1	44.4	
54		52.6	39.5	
60		47.3	35.5	
66		43.0	32.3	
72		39.4	29.6	
36	276	73.5	55.4	
42		63.0	47.5	
48		55.1	41.6	
54		49.0	36.9	
60		44.1	33.2	
66		40.1	30.2	
72		36.8	27.7	
36	282	68.7	51.9	
42		58.9	44.5	
48		51.5	39.0	
54		45.8	34.6	
60		41.2	31.2	
66		37.5	28.3	
72		34.3	26.0	

*SLEEVE REINFORCEMENT @ WL + DL, 29" LONG

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 2	CASE 3*	
		MULLION 'M21' & 'M22'	MULLION 'M23' & 'M24'	
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
36	288	64.2	48.8	
42		55.1	41.8	
48		48.2	36.6	
54		42.8	32.5	
60		38.5	29.3	
66		35.0	26.6	
72		32.1	24.4	
36	294	60.2	45.8	
42		51.6	39.3	
48		45.1	34.4	
54		40.1	30.6	
60		36.1	27.5	
66		32.8	25.0	
72		30.1	22.9	
36	300	56.4	43.1	
42		48.4	37.0	
48		42.3	32.4	
54		37.6	28.8	
60		33.9	25.9	
66		30.8	23.5	
72		28.2	21.6	
36	306	53.0	40.7	
42		45.4	34.8	
48		39.8	30.5	
54		35.3	27.1	
60		31.8	24.4	
66		28.9	22.2	
72		26.5	20.3	
36	312	49.8	38.4	
42		42.7	32.9	
48		37.4	28.8	
54		33.2	25.6	
60		29.9	23.0	
66		27.2	20.9	
72		24.9	19.2	
36	318	46.9	36.9	
42		40.2	31.7	
48		35.2	27.7	
54		31.3	24.6	
60		28.2	22.2	
66		25.6	20.1	
72		23.5	18.5	
36	324	44.2	35.6	
42		37.9	30.5	
48		33.2	26.7	
54		29.5	23.7	
60		26.5	21.3	
66		24.1	19.4	
72		22.1	17.8	

HEAVY DUTY HORIZONTAL MULLIONS (+/- PSF)	
MAX. WIDTH, W (in.) 'Span'	EXT. (+) INT. (-)
72	90

REFER TO SECTION 4.10 FOR HEAVY DUTY MULLION DETAILS.



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
MULLION CAPACITY CHARTS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL13433

DATE:
7.17.17

DWG. BY:
AR

CHK. BY:
HFN

SCALE:
NTS

DWG. #:
YKK204

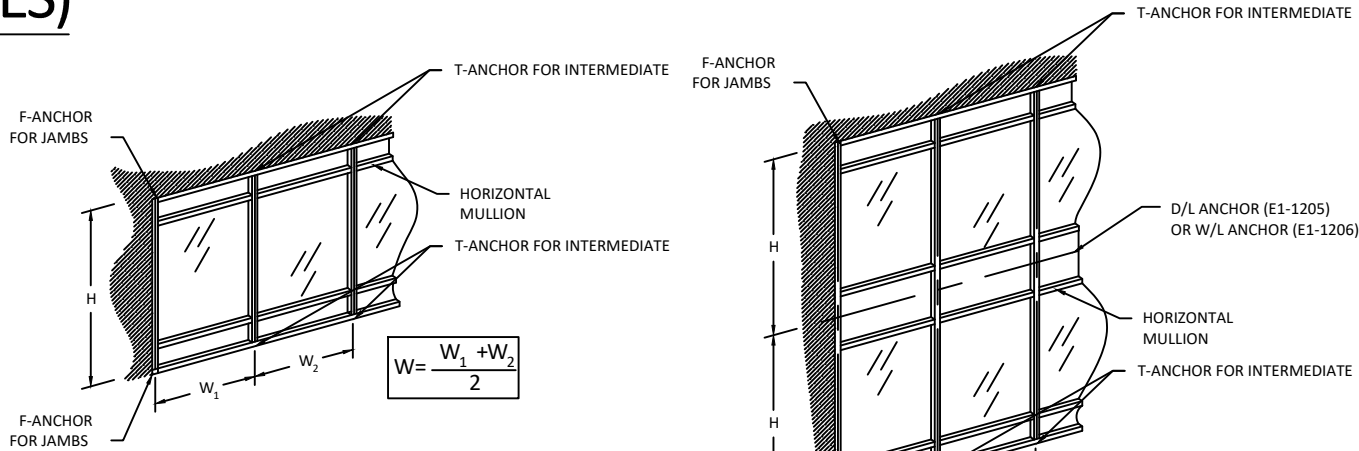
SECTION:
4.10A

[Page 17 of 59]

HEAVY DUTY MULLION CAPACITY CHARTS (HIGH PRESSURES)

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

- CASE 1: SINGLE SPAN WITH UNREINFORCED MULLION
- CASE 2: SINGLE SPAN WITH REINFORCED MULLION FULL HEIGHT
- CASE 3: TWIN SPAN WITH REINFORCED MULLION AT INTERMEDIATE SUPPORT ONLY



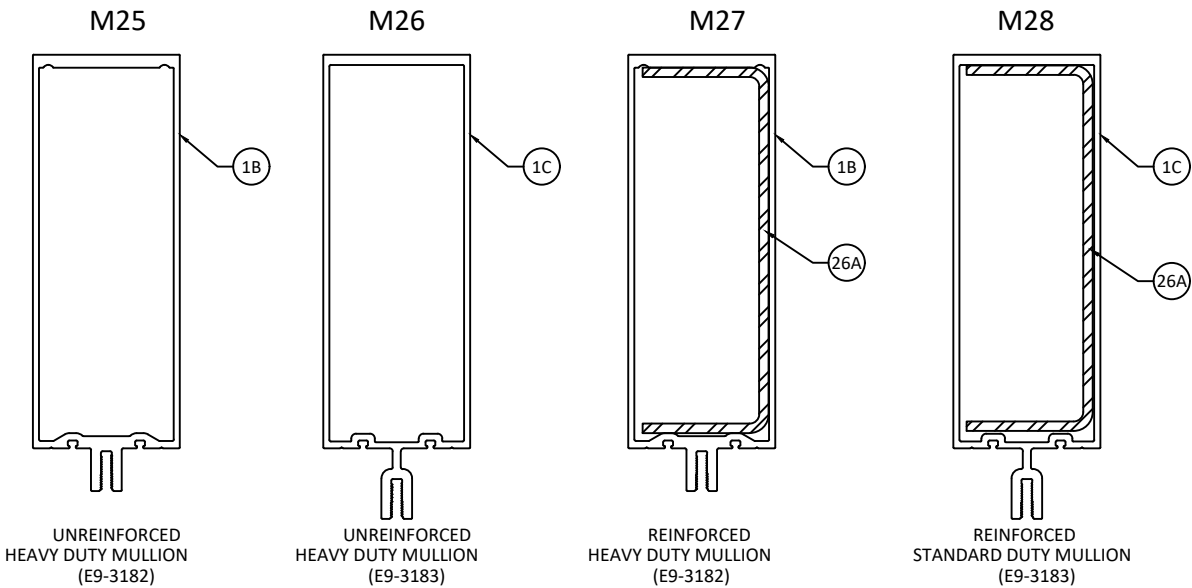
SINGLE SPAN

DOUBLE SPAN

REINFORCING LENGTH = FRAME HEIGHT - 12 IN.

MULLIONS

SECTIONS @ F/T ANCHOR / SPLICE/WIND LOAD/ DEAD LOAD LOCATION



UNREINFORCED
HEAVY DUTY MULLION
(E9-3182)

UNREINFORCED
HEAVY DUTY MULLION
(E9-3183)

REINFORCED
HEAVY DUTY MULLION
(E9-3182)

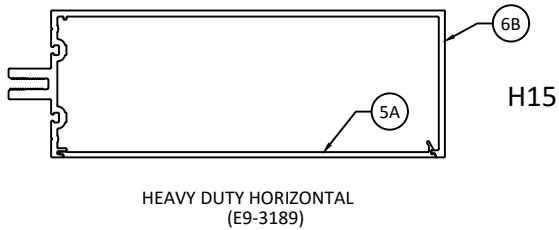
REINFORCED
STANDARD DUTY MULLION
(E9-3183)

SLEEVE REINFORCEMENT
HEAVY DUTY MULLION
(E9-3182)

SLEEVE REINFORCEMENT
HEAVY DUTY MULLION
(E9-3183)

REFER TO 4.11A FOR HEAVY DUTY MULLION
CAPACITY TABLES (HIGH PRESSURE)

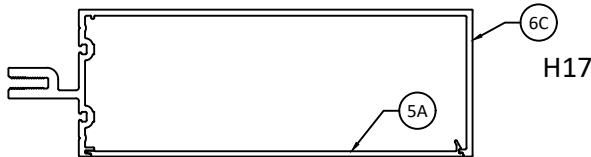
- VERTICAL MEMBER SINGLE SPAN NOTES:
- DETAILS HAVE BEEN SHOWN FOR ILLUSTRATIVE PURPOSES. FOR DETAILS OF FULL ASSEMBLY PLEASE REFER TO APPLICABLE DETAILS ON SECTION 3.
 - TABULATED DESIGN PRESSURE VALUES ARE BASED ON LIMITATIONS OF DEFLECTION, FIBERSTRESS, & END REACTION PER MULLION SPAN ('L') AND MULLION SPACING ('W').
 - FOR SITE CONDITIONS WHICH EXCEED LIMITATIONS SHOWN, FURTHER ENGINEERING MAY BE REQUIRED ON A CASE BY CASE BASIS.
 - FOR T, F, OR S CLIP ANCHORS, PLEASE REFER TO SECTION 7 & 8 FOR ANCHOR SELECTION, SUBSTRATE REQUIREMENTS, AND FURTHER LIMITATIONS OF USE.



HEAVY DUTY HORIZONTAL
(E9-3189)



HEAVY DUTY HORIZONTAL
(E9-3190)



HEAVY DUTY HORIZONTAL
(E9-3187)



HEAVY DUTY HORIZONTAL
(E9-3185)

- 14A MULLION ANCHOR SLEEVE (HD)
(3" LONG AT TOP & BOTTOM)
- 44A MULLION SPLICE SLEEVE (HD)
(6" LONG AT SPLICE)
- 46A MULLION WL/DL REINFORCEMENT SLEEVE (HD)
(29" LONG AT MID-POINT ANCHOR)



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

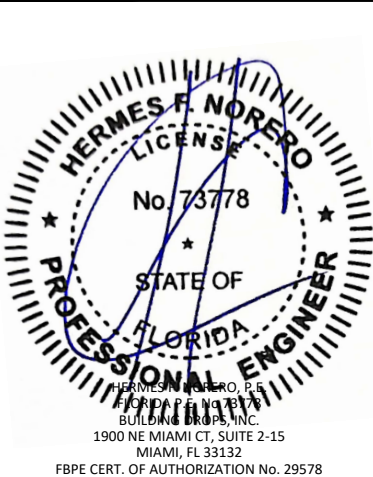
MULLION CAPACITY CHARTS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

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FL13433

DATE: 7.17.17

DWG. BY: AR

CHK. BY: HFN

SCALE: NTS

DWG. #: YKK204

SECTION:

4.11

[Page 18 of 59]

HEAVY DUTY MULLION CAPACITY CHARTS (HIGH PRESSURES)

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M25' & 'M26'	MULLION 'M27' & 'M28'	MULLION 'M29' & 'M30'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	144	130.0	130.0	130.0
42		130.0	130.0	130.0
48		130.0	130.0	130.0
54		120.1	130.0	130.0
60		108.1	130.0	130.0
66		98.2	130.0	130.0
72		90.1	130.0	130.0
36	150	130.0	130.0	130.0
42		130.0	130.0	130.0
48		124.5	130.0	130.0
54		110.7	130.0	130.0
60		99.6	130.0	130.0
66		90.5	130.0	130.0
72		83.0	130.0	130.0
36	156	130.0	130.0	130.0
42		130.0	130.0	130.0
48		115.1	130.0	130.0
54		102.3	130.0	130.0
60		92.1	130.0	130.0
66		83.7	130.0	130.0
72		76.7	130.0	128.4
36	162	130.0	130.0	130.0
42		122.0	130.0	130.0
48		106.7	130.0	130.0
54		94.9	130.0	130.0
60		85.4	130.0	130.0
66		77.6	130.0	130.0
72		71.2	126.6	123.7
36	168	130.0	130.0	130.0
42		113.4	130.0	130.0
48		99.3	130.0	130.0
54		88.2	130.0	130.0
60		79.4	130.0	130.0
66		72.2	128.4	125.5
72		66.2	117.7	115.0
36	174	123.4	130.0	130.0
42		105.7	130.0	130.0
48		92.5	130.0	130.0
54		82.2	130.0	130.0
60		74.0	130.0	128.7
66		67.3	119.7	117.0
72		61.7	109.7	107.2

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M25' & 'M26'	MULLION 'M27' & 'M28'	MULLION 'M29' & 'M30'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	180	114.1	130.0	130.0
42		97.8	130.0	130.0
48		85.6	130.0	130.0
54		76.1	130.0	130.0
60		68.5	123.0	119.8
66		62.2	111.8	109.0
72		57.1	102.5	99.9
36	186	103.4	130.0	130.0
42		88.7	130.0	130.0
48		77.6	130.0	130.0
54		69.0	128.0	120.7
60		62.1	115.2	108.6
66		56.4	104.7	98.7
72		51.7	96.0	90.5
36	192	94.0	130.0	130.0
42		80.6	130.0	130.0
48		70.5	130.0	123.4
54		62.7	120.1	109.7
60		56.4	108.1	98.8
66		51.3	98.3	89.8
72		47.0	90.1	82.3
36	198	85.7	130.0	130.0
42		73.5	130.0	128.6
48		64.3	127.1	112.6
54		57.2	113.0	100.0
60		51.4	101.7	90.0
66		46.8	92.4	81.9
72		42.9	84.7	75.0
36	204	78.4	130.0	130.0
42		67.2	130.0	117.6
48		58.8	119.7	102.9
54		52.3	106.4	91.5
60		47.0	95.8	82.3
66		42.8	87.1	74.8
72		39.2	79.8	68.6
36	210	71.9	130.0	125.8
42		61.6	129.1	107.8
48		53.9	113.0	94.3
54		47.9	100.4	83.9
60		43.1	90.4	75.5
66		39.2	82.2	68.6
72		35.9	75.3	62.9

JAMB/MULLION LOAD CAPACITY (+/- PSF)			
NOMINAL DIMS.		CASE 2	CASE 3*
		MULLION 'M27' & 'M28'	MULLION 'M29' & 'M30'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	216	130.0	115.6
42		122.0	99.1
48		106.8	86.7
54		94.9	77.1
60		85.4	69.4
66		77.7	63.1
72		71.2	57.8
36	222	130.0	106.5
42		115.5	91.3
48		101.1	79.9
54		89.9	71.0
60		80.9	63.9
66		73.5	58.1
72		67.4	53.2
36	228	127.8	98.3
42		109.5	84.2
48		95.8	73.7
54		85.2	65.5
60		76.7	59.0
66		69.7	53.6
72		63.9	49.1
36	234	121.3	90.9
42		104.0	77.9
48		91.0	68.2
54		80.9	60.6
60		72.8	54.6
66		66.2	49.6
72		60.7	45.5
36	240	114.8	84.3
42		98.4	72.2
48		86.1	63.2
54		76.5	56.2
60		68.9	50.6
66		62.6	46.0
72		57.4	42.1
36	246	106.1	78.3
42		90.9	67.1
48		79.6	58.7
54		70.7	52.2
60		63.7	47.0
66		57.9	42.7
72		53.0	39.1

JAMB/MULLION LOAD CAPACITY (+/- PSF)			
NOMINAL DIMS.		CASE 2	CASE 3*
		MULLION 'M27' & 'M28'	MULLION 'M29' & 'M30'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	252	98.2	72.8
42		84.2	62.4
48		73.7	54.6
54		65.5	48.5
60		58.9	43.7
66		53.6	39.7
72		49.1	36.4
36	258	91.1	67.8
42		78.1	58.1
48		68.3	50.9
54		60.8	45.2
60		54.7	40.7
66		49.7	37.0
72		45.6	33.9
36	264	84.7	63.3
42		72.6	54.3
48		63.5	47.5
54		56.5	42.2
60		50.8	38.0
66		46.2	34.5
72		42.3	31.7
36	270	78.8	59.2
42		67.6	50.7
48		59.1	44.4
54		52.6	39.5
60		47.3	35.5
66		43.0	32.3
72		39.4	29.6
36	276	73.5	55.4
42		63.0	47.5
48		55.1	41.6
54		49.0	36.9
60		44.1	33.2
66		40.1	30.2
72		36.8	27.7
36	282	68.7	51.9
42		58.9	44.5
48		51.5	39.0
54		45.8	34.6
60		41.2	31.2
66		37.5	28.3
72		34.3	26.0

JAMB/MULLION LOAD CAPACITY (+/- PSF)			
NOMINAL DIMS.		CASE 2	CASE 3*
		MULLION 'M27' & 'M28'	MULLION 'M29' & 'M30'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	288	60.2	45.8
42		51.6	39.3
48		45.1	34.4
54		40.1	30.6
60		36.1	27.5
66		32.8	25.0
72		30.1	22.9
36	294	56.4	43.1
42		48.4	37.0
48		42.3	32.4
54		37.6	28.8
60		33.9	25.9
66		30.8	23.5
72		28.2	21.6
36	300	53.0	40.7
42		45.4	34.8
48		39.8	30.5
54		35.3	27.1
60		31.8	24.4
66		28.9	22.2
72		26.5	20.3
36	306	49.8	38.4
42		42.7	32.9
48		37.4	28.8
54		33.2	25.6
60		29.9	23.0
66		27.2	20.9
72		24.9	19.2
36	312	46.9	36.9
42		40.2	31.7
48		35.2	27.7
54		31.3	24.6
60		28.2	22.2
66		25.6	20.1
72		23.5	18.5
36	318	44.2	35.6
42		37.9	30.5
48		33.2	26.7
54		29.5	23.7
60		26.5	21.3
66		24.1	19.4
72		22.1	17.8
36	324	44.2	35.6
42		37.9	30.5
48		33.2	26.7
54		29.5	23.7
60		26.5	21.3
66		24.1	19.4
72		22.1	17.8

HEAVY DUTY HORIZONTAL MULLIONS (+/- PSF)	
MAX. WIDTH, W (in.) 'Span'	EXT. (+) INT. (-)
72	130

REFER TO SECTION 4.11 FOR
HEAVY DUTY MULLION DETAILS.

*SLEEVE REINFORCEMENT @ WL + DL, 29" LONG



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

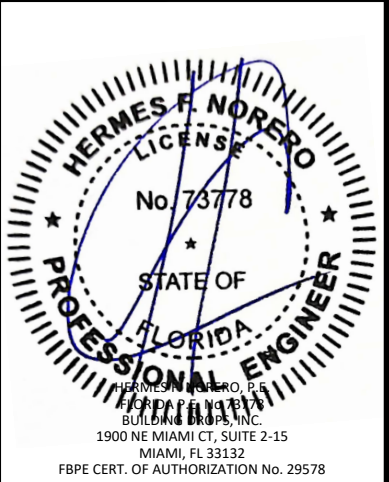
HORIZONTAL CORNER SECTIONS

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1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
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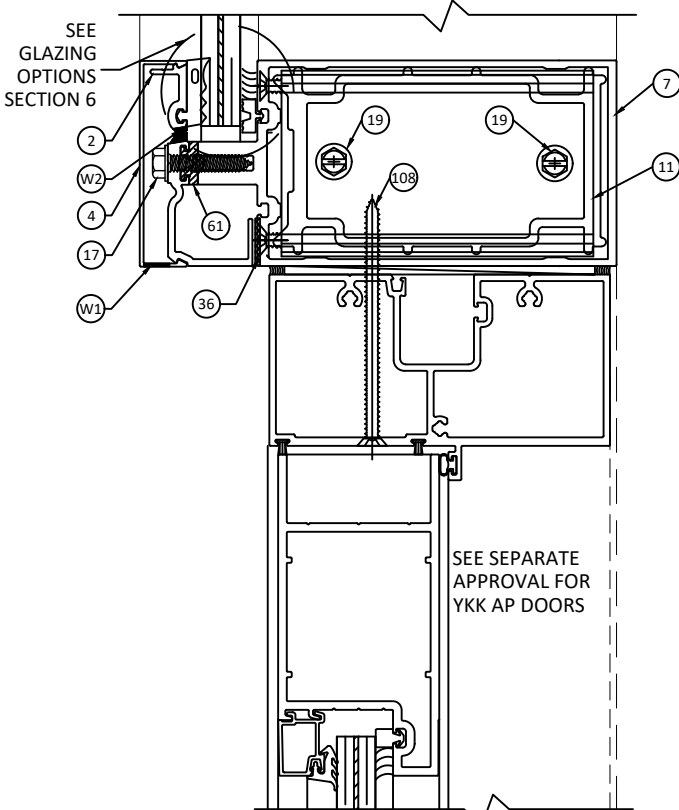
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SECTION:
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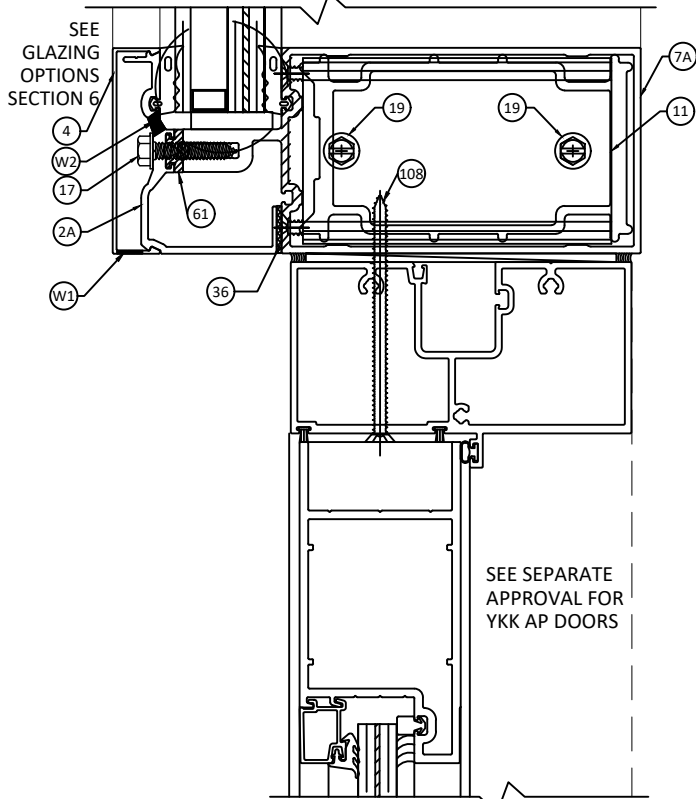
[Page 19 of 59]

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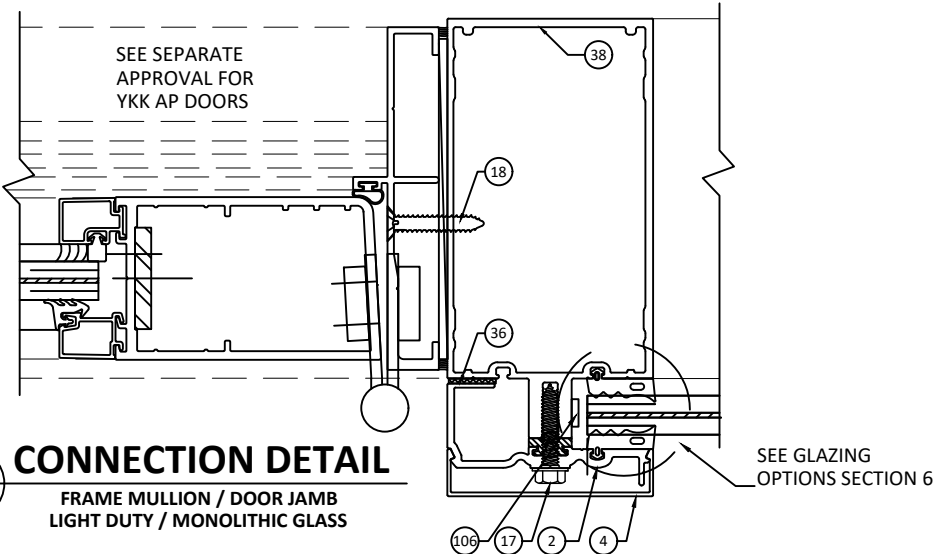
LIGHT DUTY MULLION DOOR DETAILS



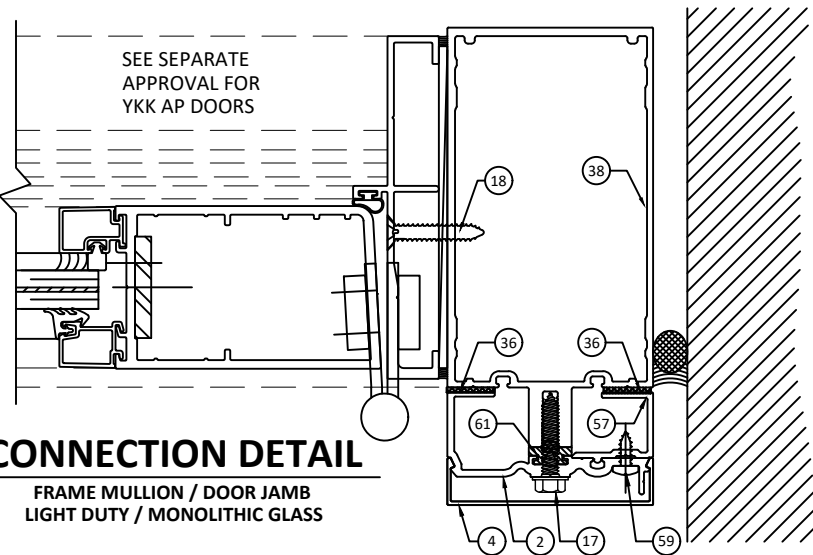
1 CONNECTION DETAIL
5.0 FRAME MULLION / DOOR HEAD
LIGHT DUTY / MONOLITHIC GLASS



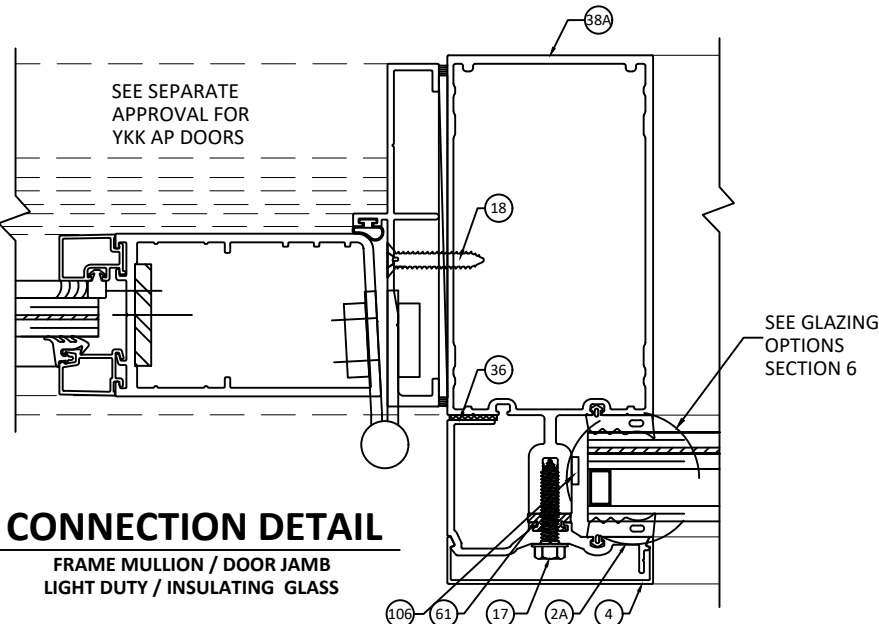
4 CONNECTION DETAIL
5.0 FRAME MULLION / DOOR HEAD
LIGHT DUTY / INSULATING GLASS



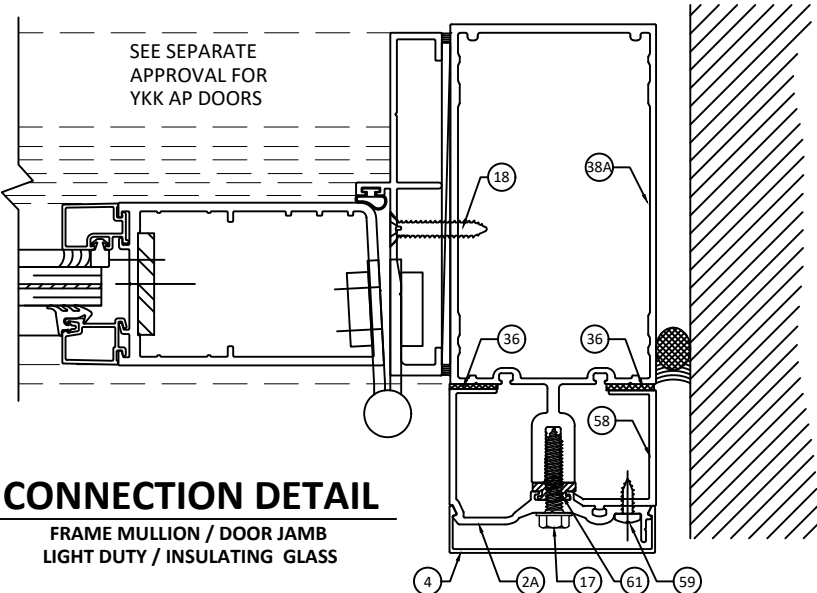
2 CONNECTION DETAIL
5.0 FRAME MULLION / DOOR JAMB
LIGHT DUTY / MONOLITHIC GLASS



3 CONNECTION DETAIL
5.0 FRAME MULLION / DOOR JAMB
LIGHT DUTY / MONOLITHIC GLASS

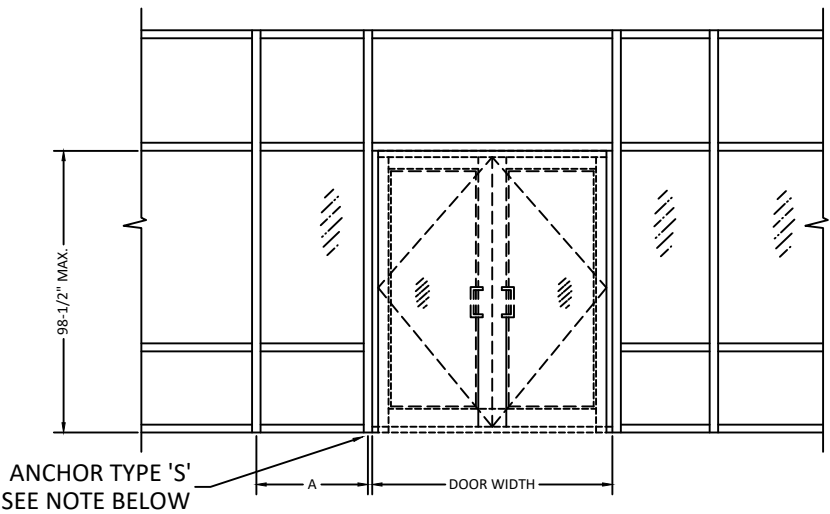


5 CONNECTION DETAIL
5.0 FRAME MULLION / DOOR JAMB
LIGHT DUTY / INSULATING GLASS



6 CONNECTION DETAIL
5.0 FRAME MULLION / DOOR JAMB
LIGHT DUTY / INSULATING GLASS

DOOR JAMB MULLION CAPACITY



MAX. DOOR OPNG, WIDTH	A	DP (+/- PSF)
78-1/2"	60"	90.0

- NOTE:
- FOR DOOR HEIGHT LESS THAN OR EQUAL TO 98-1/2" USE ABOVE TABLE.
 - DOORS SHALL BE UNDER SEPARATE APPROVALS.



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CURTAIN WALL SYSTEM
DOOR DETAILS

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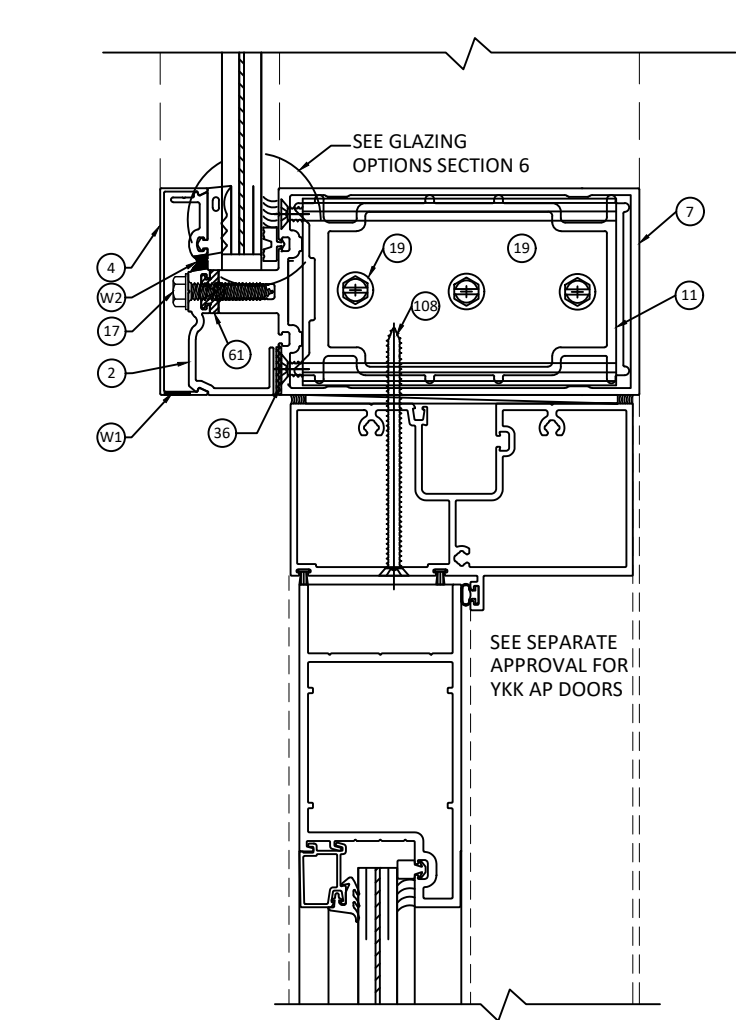
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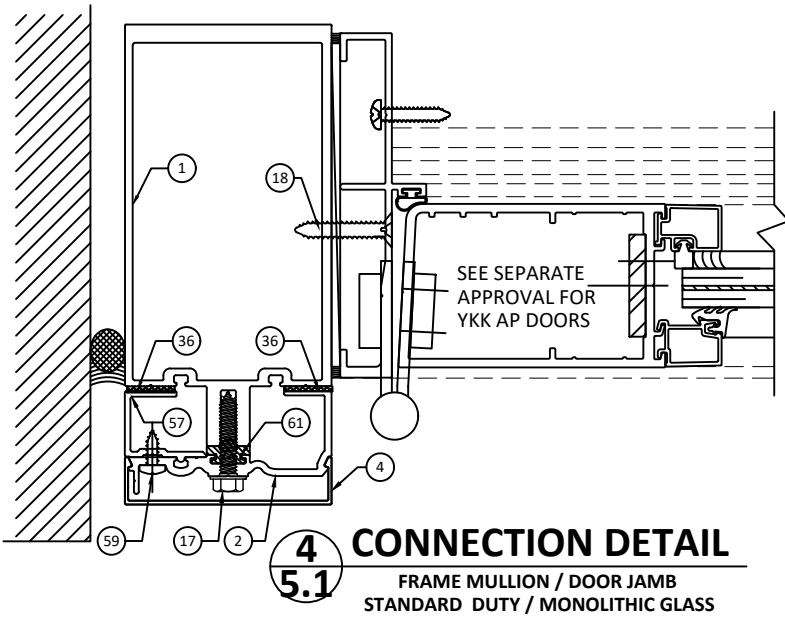
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SCALE:	NTS
DWG. #:	YKK204
SECTION:	5.0

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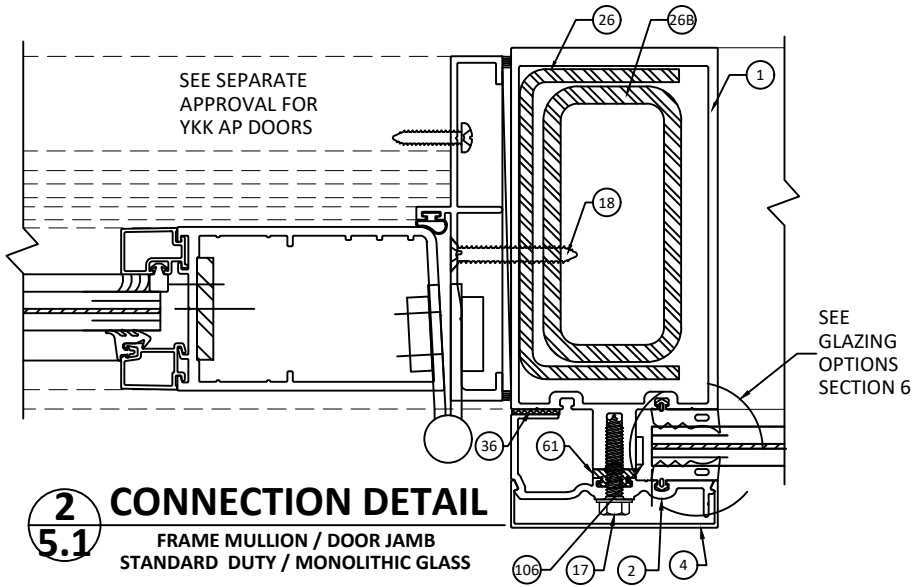
STANDARD DUTY MULLION DOOR DETAILS (MONOLITHIC GLASS)



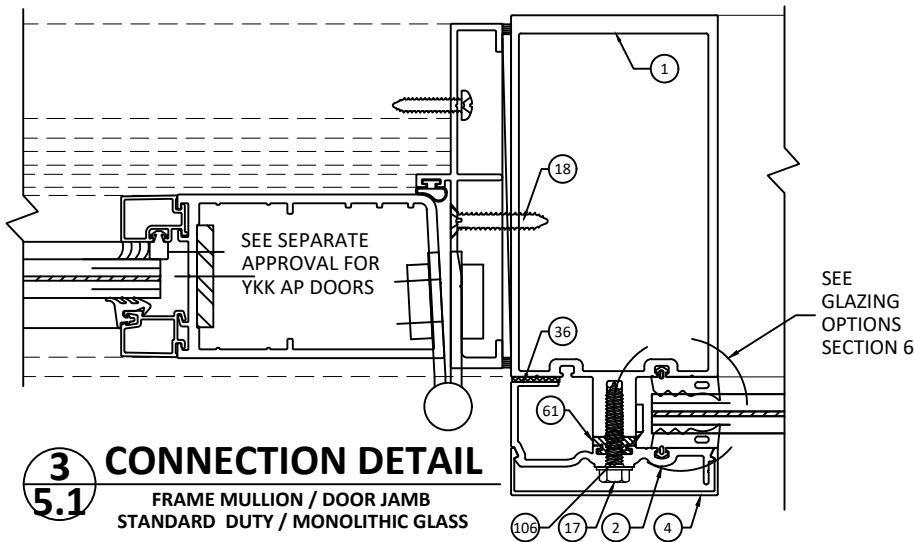
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5.1 CONNECTION DETAIL
FRAME MULLION / DOOR HEAD
STANDARD DUTY / MONOLITHIC GLASS



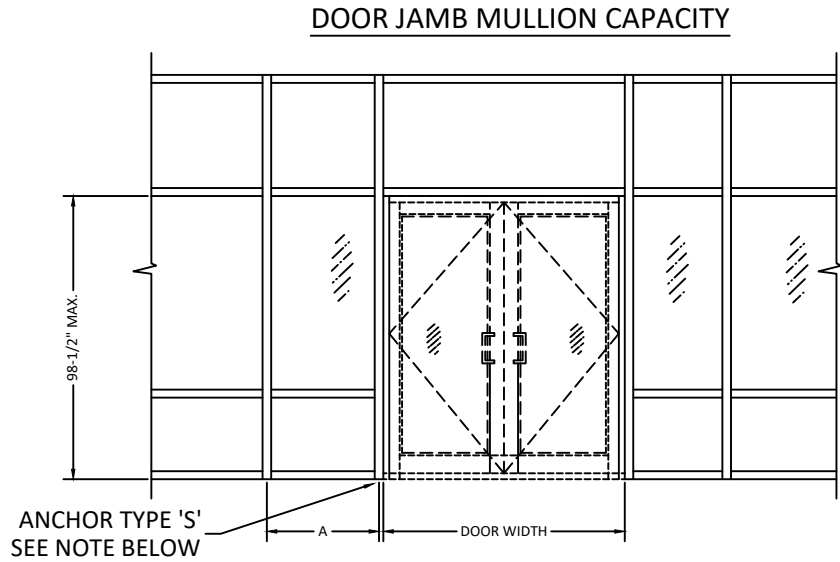
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5.1 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / MONOLITHIC GLASS



2
5.1 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / MONOLITHIC GLASS



3
5.1 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / MONOLITHIC GLASS



MAX. DOOR OPNG, WIDTH	A	DP (+/- PSF)
78-1/2"	60"	90.0

- NOTE:**
- FOR DOOR HEIGHT LESS THAN OR EQUAL TO 98-1/2" USE ABOVE TABLE.
 - DOORS SHALL BE UNDER SEPARATE APPROVALS.

CONCRETE AND METAL STRUCTURE NOT BY YKK AP AMERICA INC. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

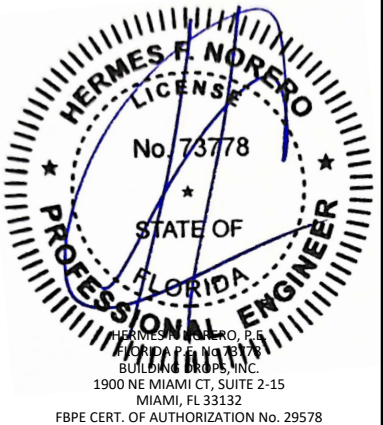
DOOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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MISC. UPDATES	LS	6.02.26

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FL #: FL13433

DATE: 7.17.17

DWG. BY: AR **CHK. BY:** HFN

SCALE: NTS

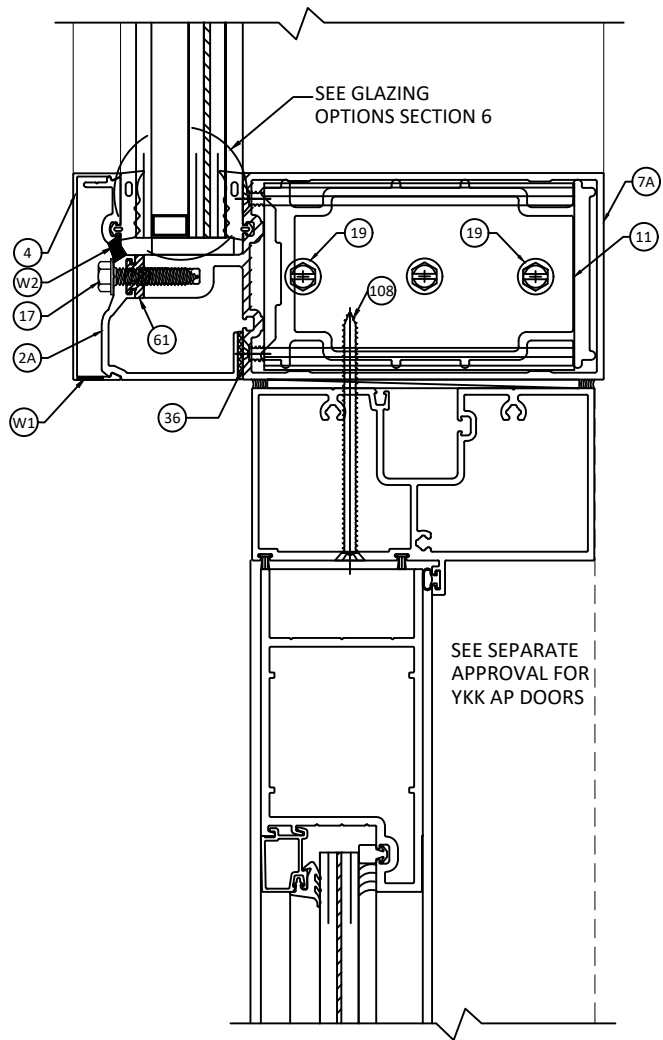
DWG. #: YKK204

SECTION: 5.1

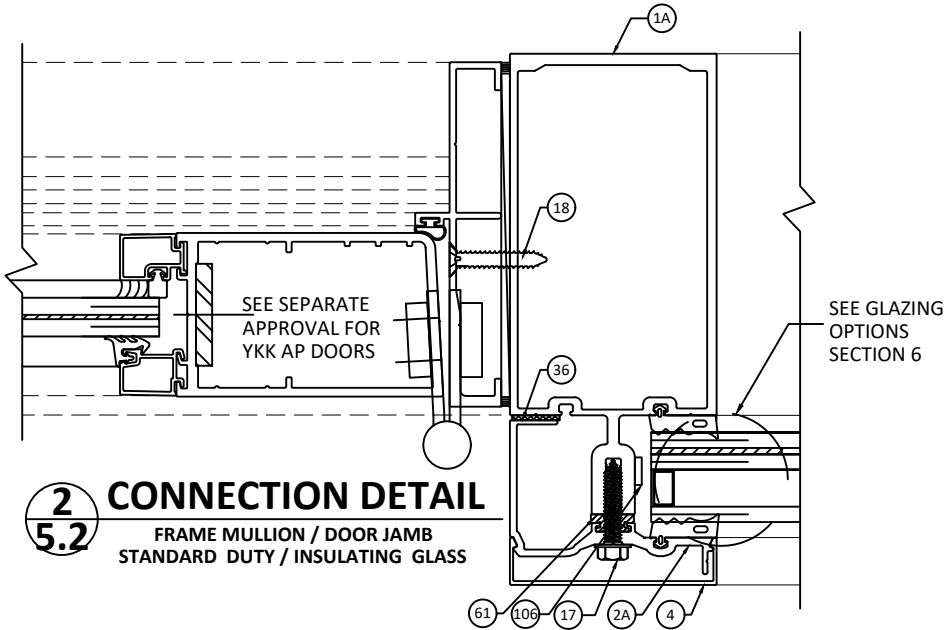
[Page 21 of 59]

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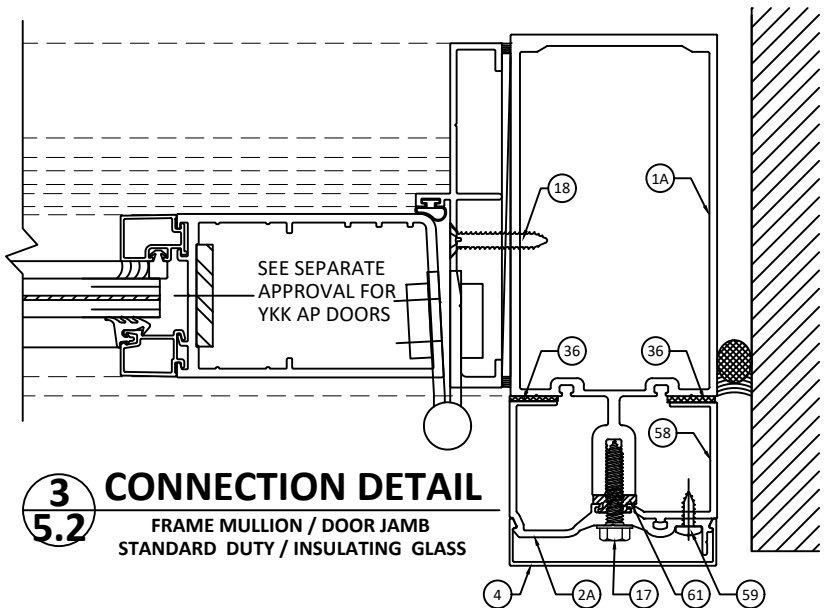
STANDARD DUTY MULLION DOOR DETAILS (INSULATING GLASS)



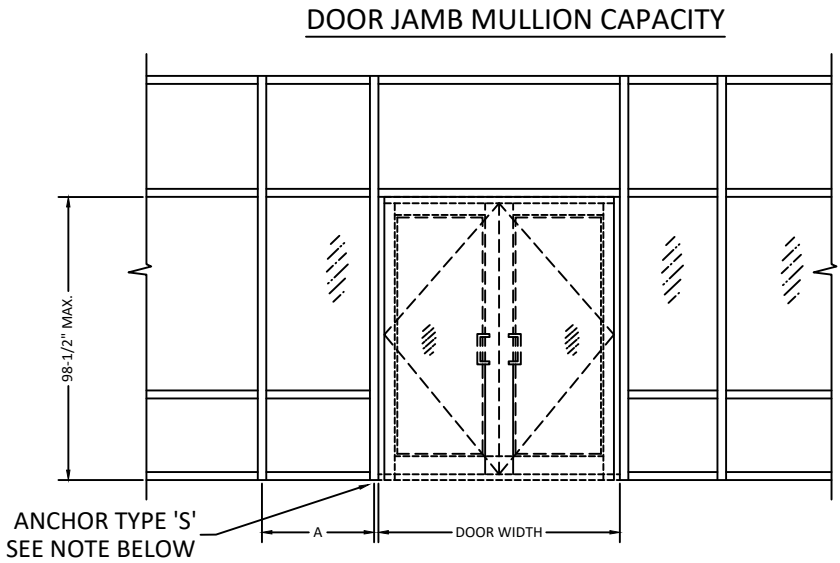
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5.2 CONNECTION DETAIL
FRAME MULLION / DOOR HEAD
STANDARD DUTY / INSULATING GLASS



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

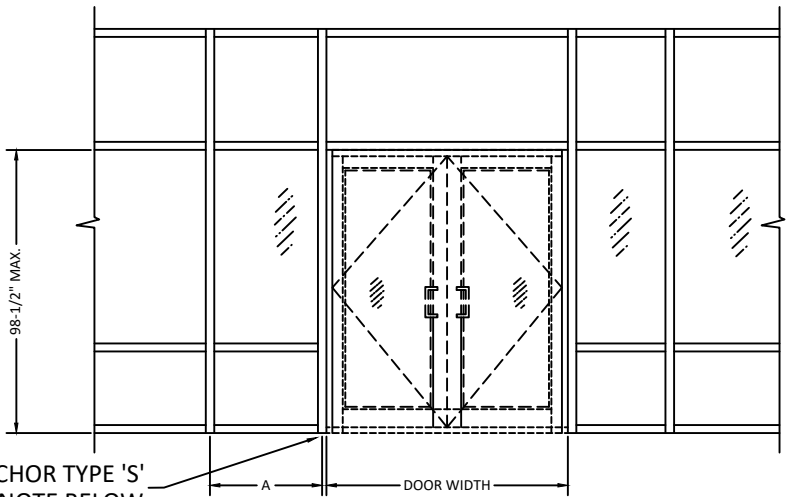


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FRAME MULLION / DOOR JAMB
STANDARD DUTY / INSULATING GLASS



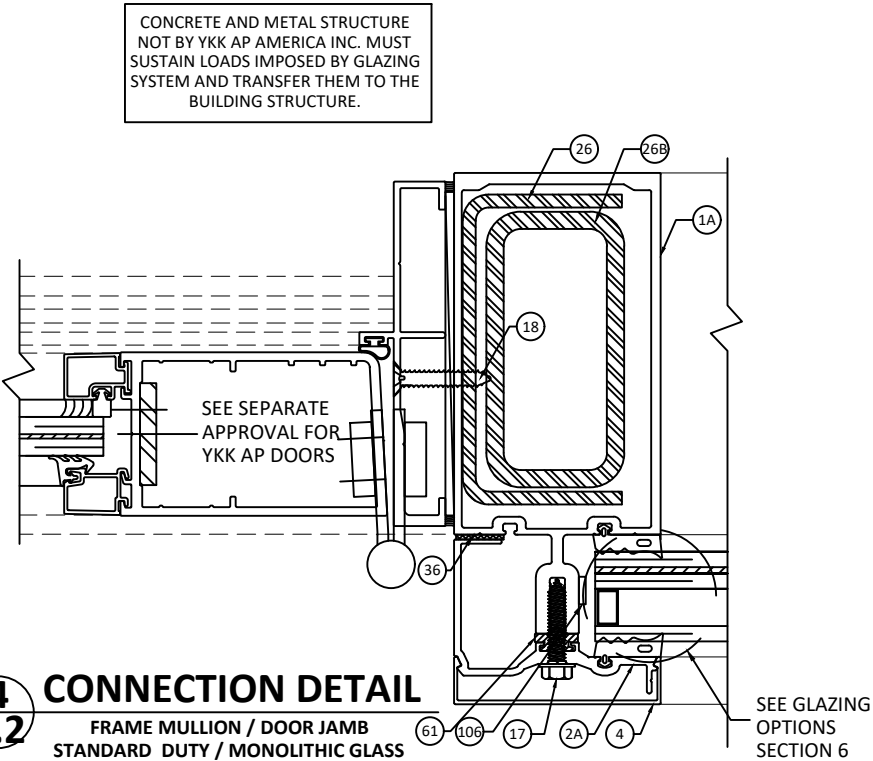
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5.2 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / MONOLITHIC GLASS

DOOR JAMB MULLION CAPACITY



MAX. DOOR OPNG. WIDTH	A	DP (+/- PSF)
78-1/2"	60"	90.0

- NOTE:
- FOR DOOR HEIGHT LESS THAN OR EQUAL TO 98-1/2" USE ABOVE TABLE.
 - DOORS SHALL BE UNDER SEPARATE APPROVALS.



YKK AP AMERICA

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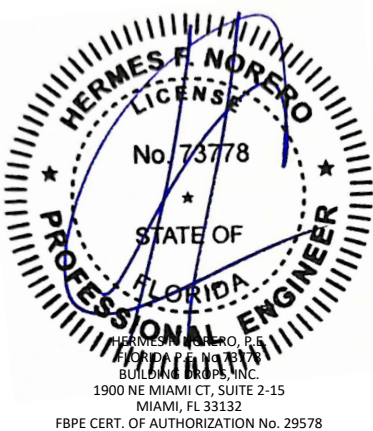
TITLE: YHC - 300 OG (HVVHZ)
CURTAIN WALL SYSTEM
DOOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

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REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

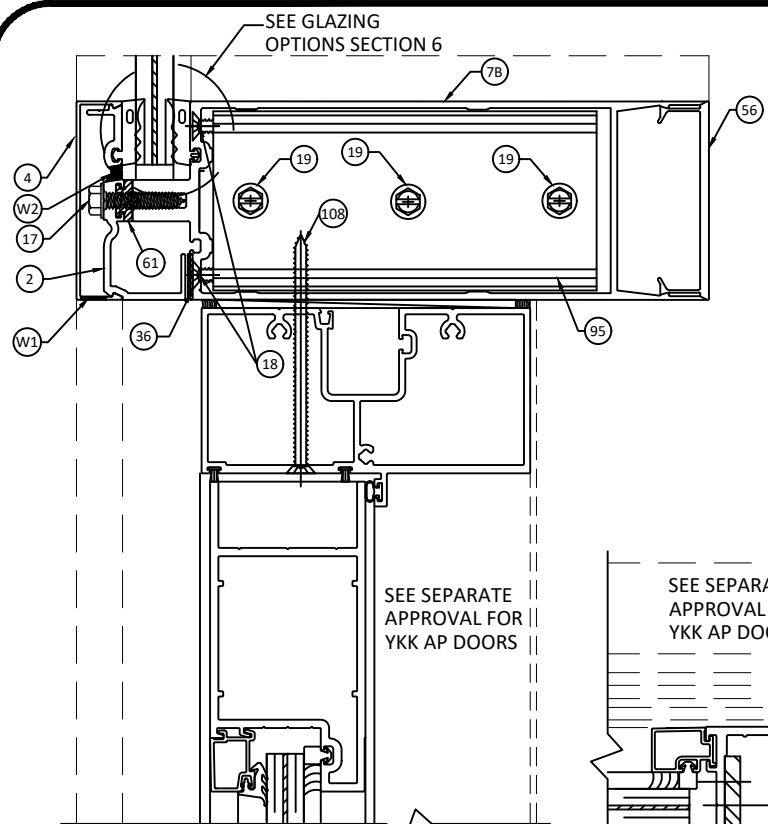
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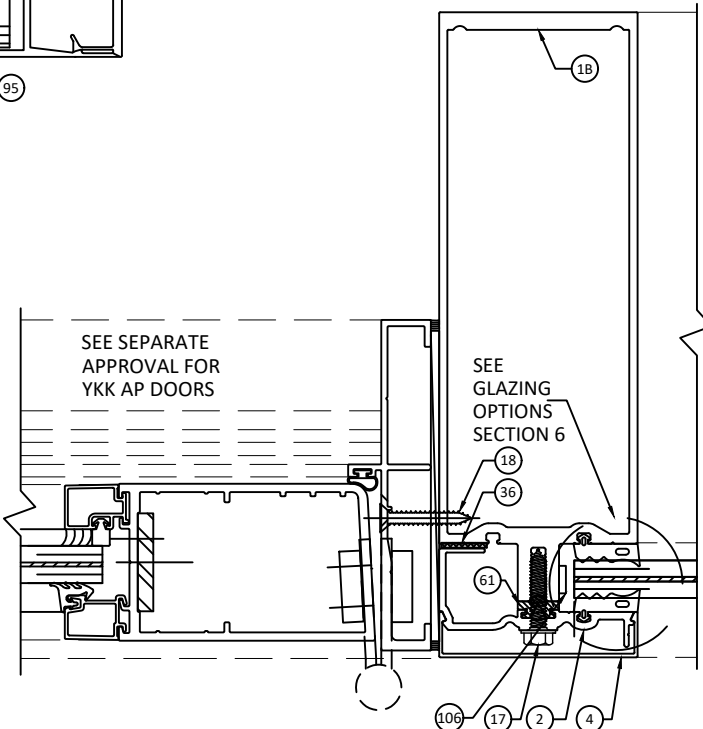
FL #:	FL13433
DATE:	7.17.17
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK204
SECTION:	5.2

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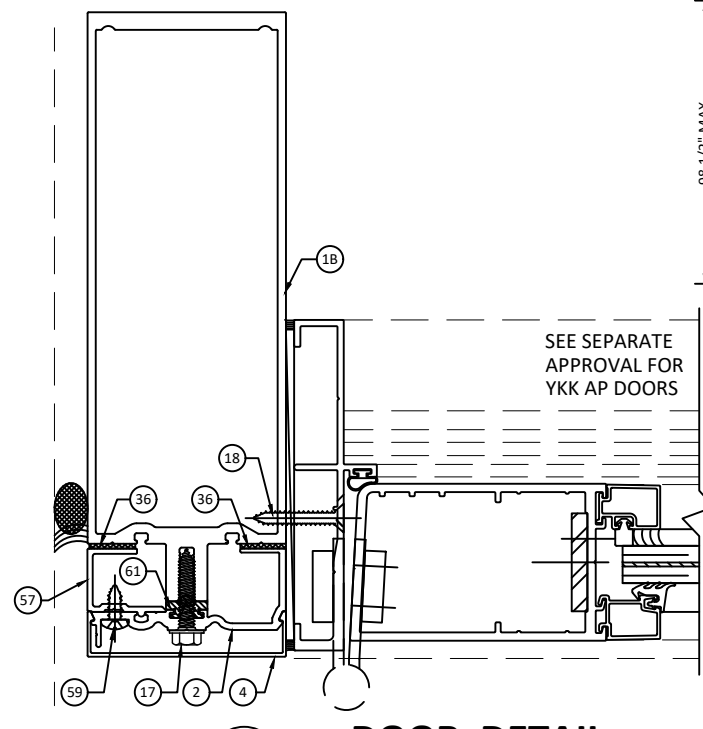
HEAVY DUTY MULLION DOOR DETAILS



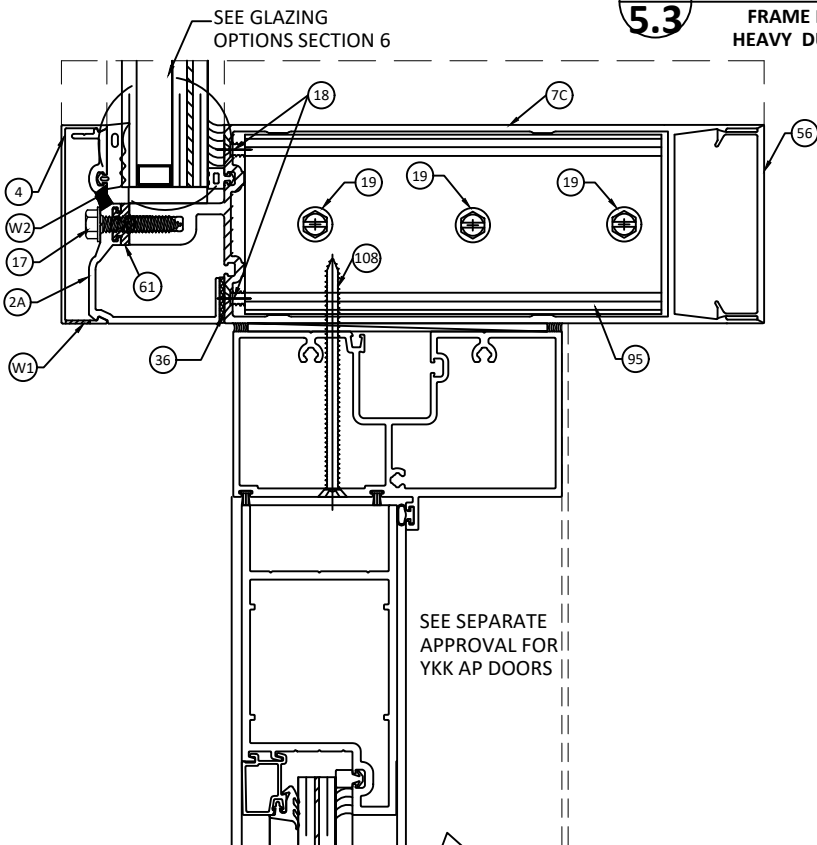
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FRAME MULLION / DOOR HEAD
HEAVY DUTY / MONOLITHIC GLASS



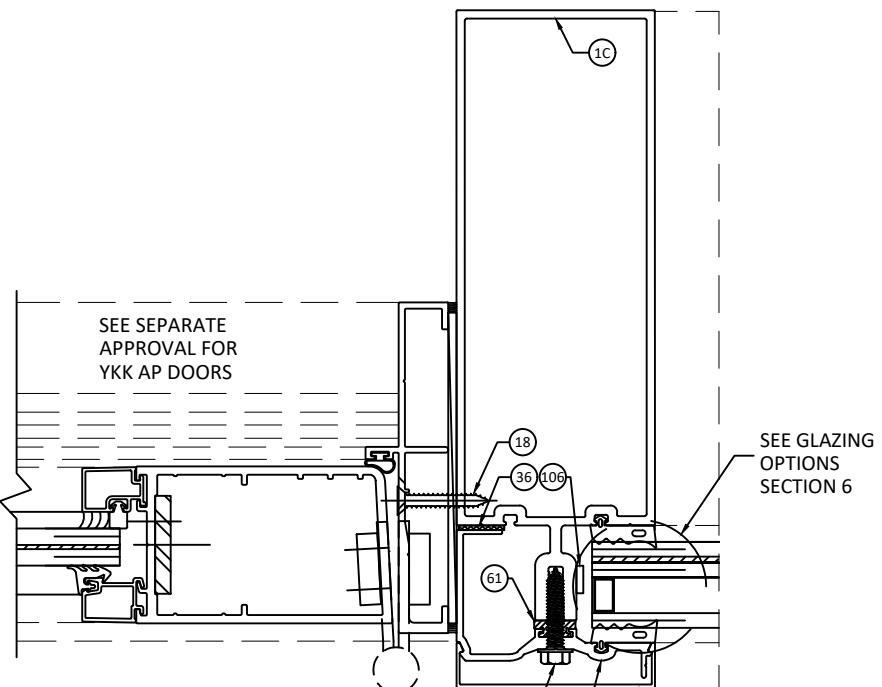
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FRAME MULLION / DOOR JAMB
HEAVY DUTY / MONOLITHIC GLASS



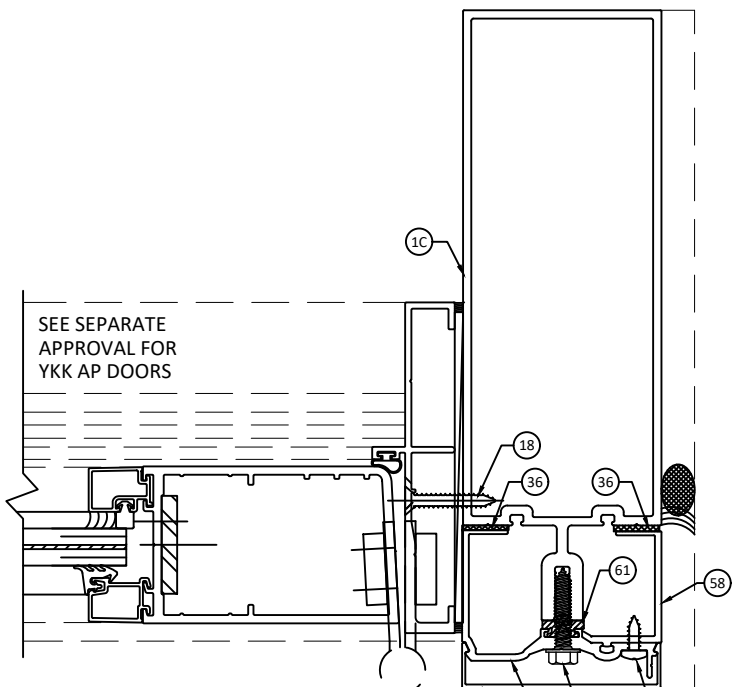
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5.3 **DOOR DETAIL**
FRAME MULLION / DOOR JAMB
HEAVY DUTY / MONOLITHIC GLASS



6
5.3 **DOOR DETAIL**
FRAME MULLION / DOOR HEAD
HEAVY DUTY / INSULATING GLASS

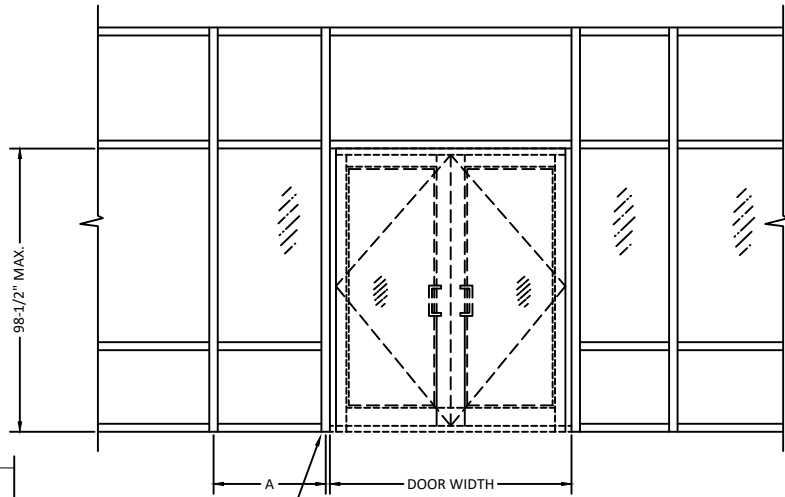


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5.3 **DOOR DETAIL**
FRAME MULLION / DOOR HEAD JAMB
HEAVY DUTY / INSULATING GLASS



8
5.3 **DOOR DETAIL**
FRAME MULLION / DOOR JAMB
HEAVY DUTY / INSULATING GLASS

DOOR JAMB MULLION CAPACITY



ANCHOR TYPE 'S'
SEE NOTE BELOW

MAX. DOOR OPNG, WIDTH	A	DP (+/- PSF)
78-1/2"	60"	90.0

- NOTE:
- FOR DOOR HEIGHT LESS THAN OR EQUAL TO 98-1/2" USE ABOVE TABLE.
 - DOORS SHALL BE UNDER SEPARATE APPROVALS.



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVVH)
CURTAIN WALL SYSTEM

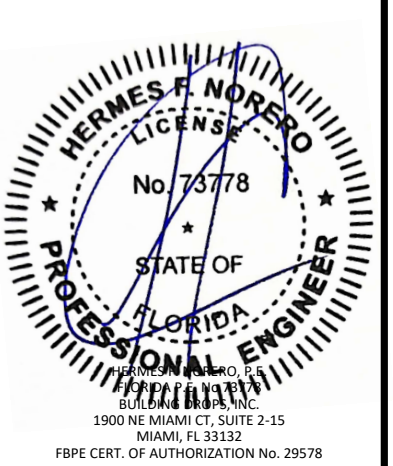
DOOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:
FL13433

DATE: **7.17.17**

DWG. BY: **AR** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK204**

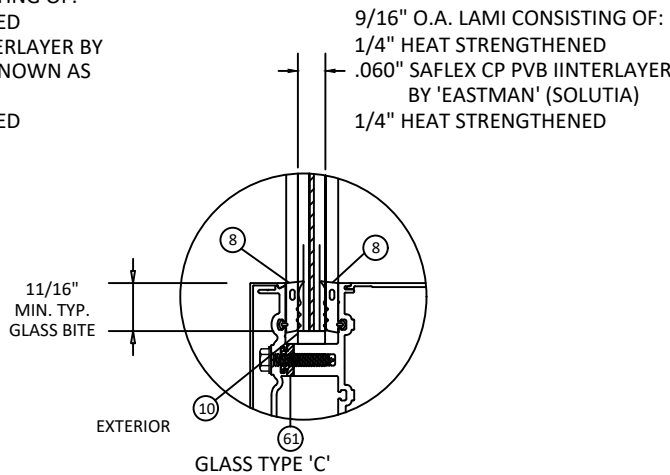
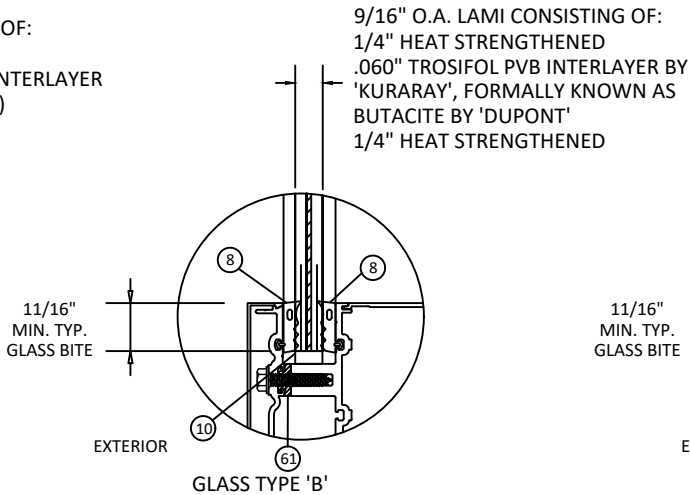
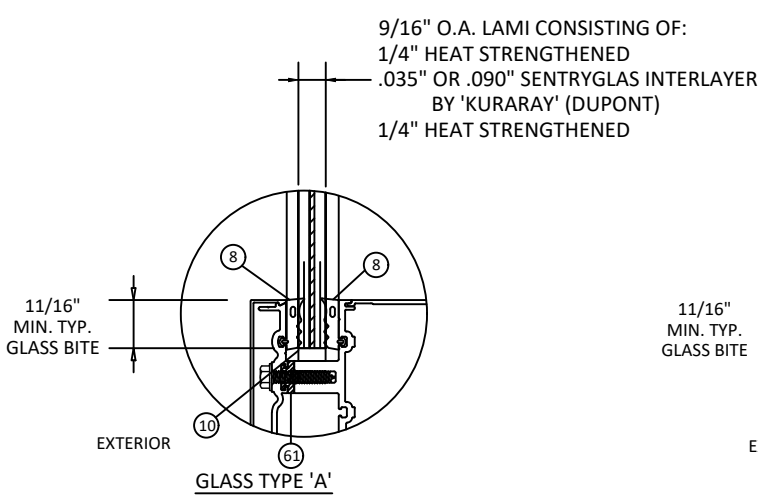
SECTION:
5.3

[Page 23 of 59]

MONOLITHIC SMALL MISSILE IMPACT GLASS OPTIONS

NOTES:

- 1. CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' ($a \geq b$), 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. ALLOW FOR SPLAY OF 2.5° AT EACH SIDE FOR A TOTAL SPLAY OF 5° AT ALL GLASS LOCATIONS.



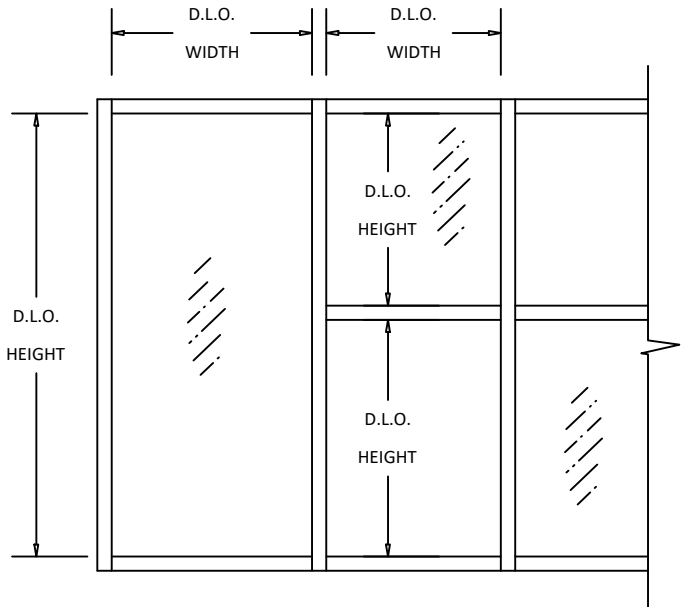
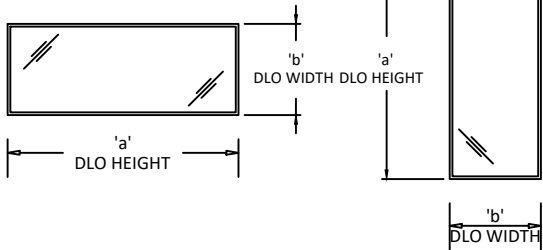
REFER TO 6.0A FOR MONOLITHIC GLASS
CAPACITY CHARTS - LARGE MISSILE IMPACT

* 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.

PANEL DIMENSIONS

('a' $\geq$ 'b')



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PH: (478)277-1955 FAX: (678)838-6001

TITLE:

YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

GLAZING DETAILS

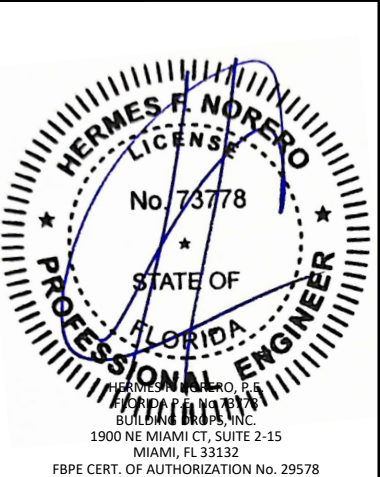
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

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FL #:

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DATE:

7.17.17

DWG. BY:

AR

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK204

SECTION:

6.0

[Page 24 of 59]

MONOLITHIC GLASS LOAD CAPACITY (S.M.I)

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		GLASS TYPES A & B		GLASS TYPES C	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	60	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		123.5	123.5	85.5	85.5
72		123.5	123.5	85.5	85.5
78		123.5	123.5	85.5	85.5
84		123.5	123.5	85.5	85.5
24	66	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		123.5	123.5	85.5	85.5
66		112.3	112.3	77.7	77.7
72		112.3	112.3	77.7	77.7
78		112.3	112.3	77.7	77.7
84		77.7	77.7	-	-
24	72	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		123.5	123.5	85.5	85.5
66		112.3	112.3	77.7	77.7
72		102.9	102.9	71.3	71.3
78		71.3	71.3	-	-
84		71.3	71.3	-	-

GLASS TABLE NOTES:
1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS).
2. GLASS CAPACITIES ARE LIMITED BY THE RESULTS OF COMPARATIVE ANALYSIS IN ACCORDANCE WITH CHAPTER 17 OF THE CURRENT FBC.
3. WHERE REQUIRED, TEMPERED GLASS IS REQUIRED TO BE USED TO COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CHAPTER 24 OF THE CURRENT FBC.
4. ALL GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE APPROVED SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FBC.
5. REFER TO FIGURE 1 FOR ILLUSTRATION OF DAYLIGHT OPENING DIMENSIONS.

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		GLASS TYPES A & B		GLASS TYPES C	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	78	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		123.5	123.5	85.5	85.5
66		112.3	112.3	77.7	77.7
72		71.3	71.3	-	-
78		65.8	65.8	-	-
84		65.8	65.8	-	-
24	84	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		123.5	123.5	85.5	85.5
66		77.7	77.7	-	-
72		71.3	71.3	-	-
78		65.8	65.8	-	-
84		65.8	65.8	-	-
24	90	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		85.5	85.5	-	-
66		77.7	77.7	-	-
72		71.3	71.3	-	-
24	94.5	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
57		130.0	130.0	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 TYPES A & B		GLASS TYPES C	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	102	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		90.0	90.0	-	-
60		85.5	85.5	-	-
66		77.7	77.7	-	-
24	108	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54	114	90.0	90.0	-	-
60		85.5	85.5	-	-
24		130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42	120	130.0	130.0	90.0	90.0
48		90.0	90.0	-	-
54		90.0	90.0	-	-
60		85.5	85.5	-	-
24		130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36	120	130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		90.0	90.0	-	-
54		90.0	90.0	-	-
57		90.0	90.0	-	-

REFER TO SECTION 6.0 FOR MONOLITHIC SMALL MISSILE IMPACT GLAZING DETAILS.

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



YKK AP AMERICA
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DUBLIN, GEORGIA 31021
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TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.
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MIAMI, FL 33132
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MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL13433**

DATE: **7.17.17**

DWG. BY: **AR** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK204**

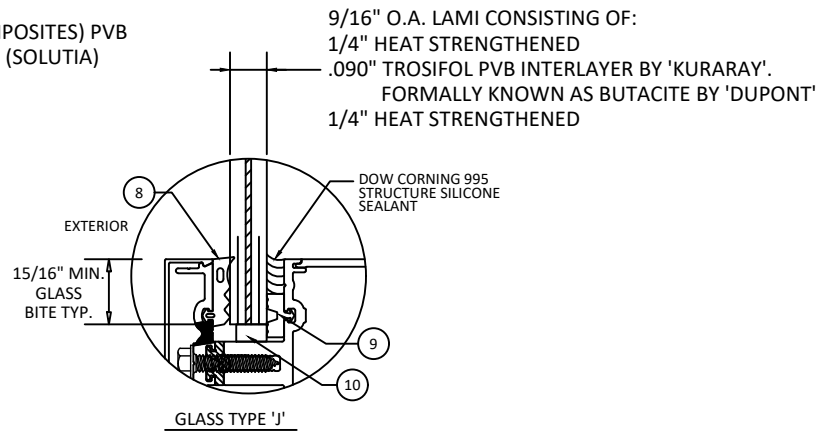
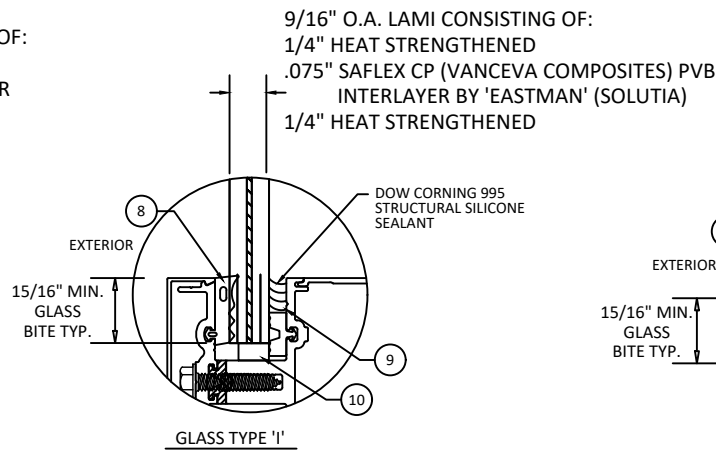
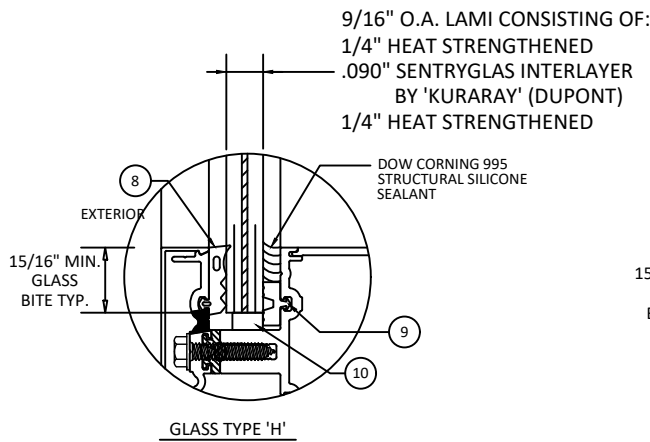
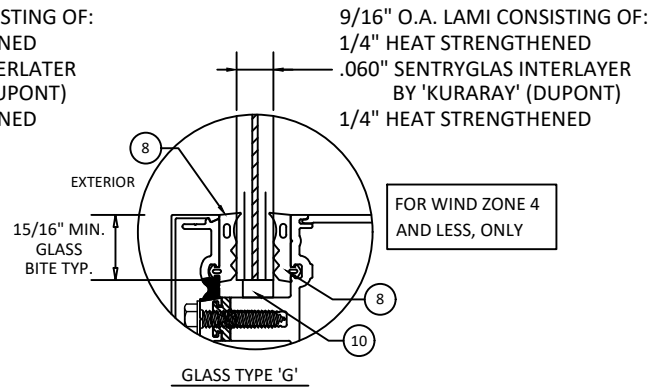
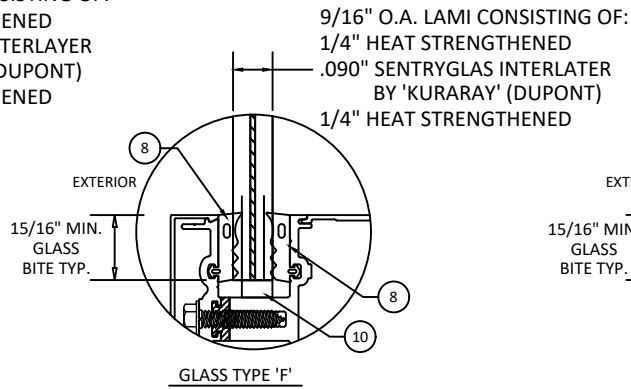
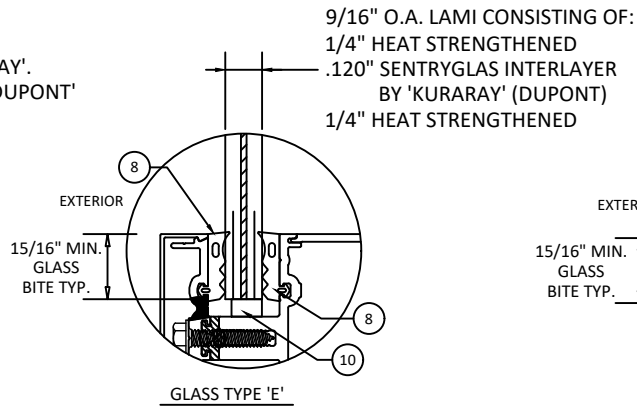
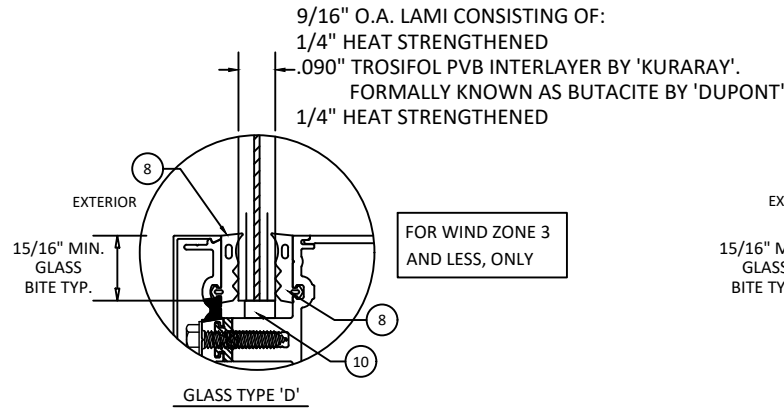
SECTION: **6.0A**

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MONOLITHIC 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. ALLOW FOR SPLAY OF 2.5° AT EACH SIDE FOR A TOTAL SPLAY OF 5° AT ALL GLASS LOCATIONS.

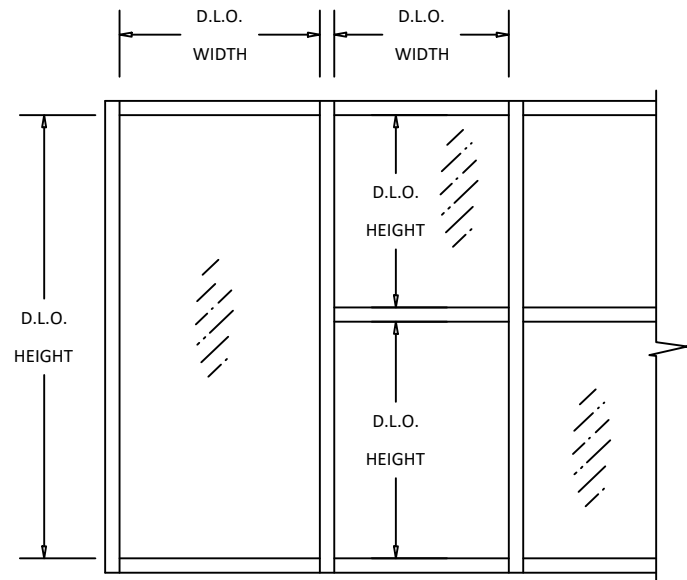
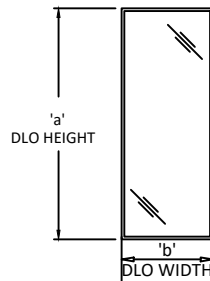
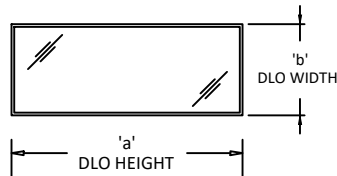


REFER TO 6.1A FOR MONOLITHIC GLASS CAPACITY CHARTS - LARGE MISSILE IMPACT

- * 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.

PANEL DIMENSIONS

('a' ≥ 'b')



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ) CURTAIN WALL SYSTEM

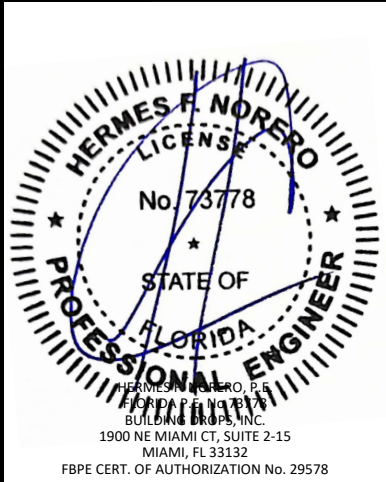
GLAZING DETAILS

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MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

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REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:

FL13433

DATE: 7.17.17

DWG. BY: AR

CHK. BY: HFN

SCALE: NTS

DWG. #: YKK204

SECTION:

6.1

[Page 26 of 59]

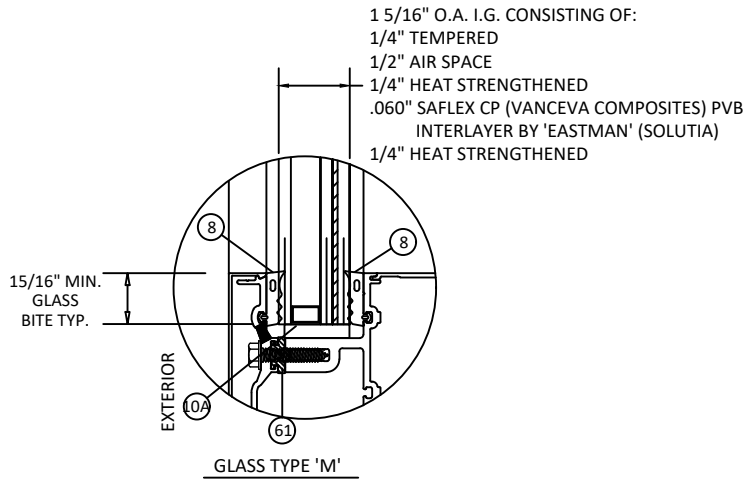
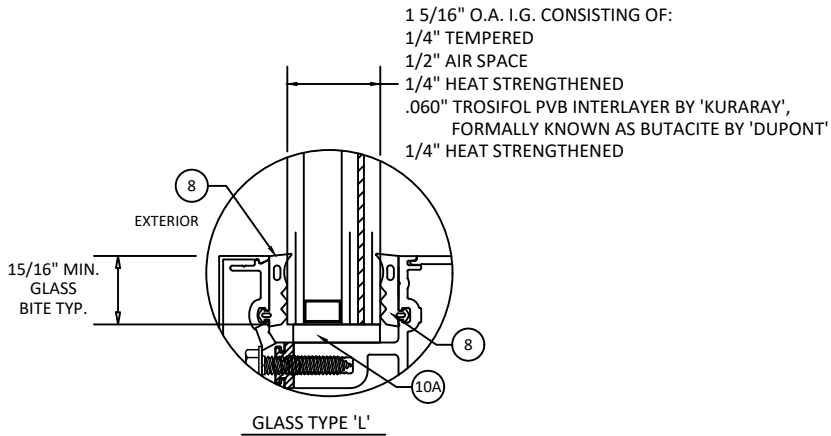
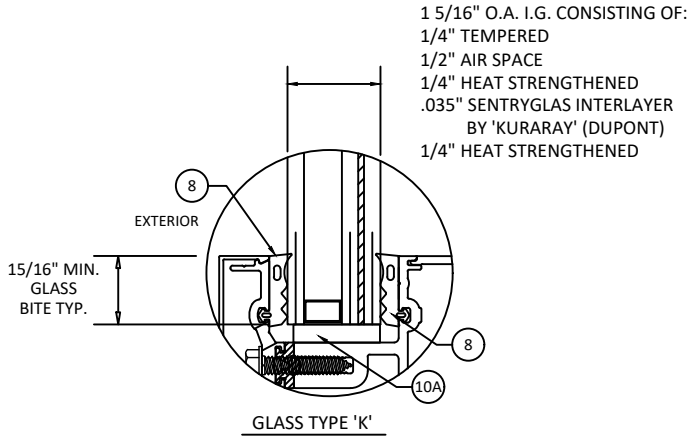
GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		GLASS TYPES 'E & F'		GLASS TYPES 'H' & 'I'	
D.I.O. WIDTH (in.)	D.I.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	90	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	130.0	130.0
54		90.0	90.0	130.0	130.0
60		85.5	85.5	-	-
66		77.7	77.7	-	-
72		71.3	71.3	-	-
24	94.5	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	130.0	130.0
54		90.0	90.0	130.0	130.0
57		90.0	90.0	130.0	130.0
60		85.5	85.5	-	-
66		77.7	77.7	-	-
72	71.3	71.3	-	-	
24	102	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	130.0	130.0
54		90.0	90.0	-	-
60		85.5	85.5	-	-
66		77.7	77.7	-	-
24	108	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	130.0	130.0
54		90.0	90.0	-	-
60		85.5	85.5	-	-
24	114	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	-	-
54		90.0	90.0	-	-
60		85.5	85.5	-	-
24	120	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	-	-
54		90.0	90.0	-	-
57		90.0	90.0	-	-

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

INSULATING SMALL MISSILE IMPACT GLASS OPTIONS

NOTES:

- CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' ($a \geq b$), AND CH. 17 OF THE FBC FOR SIZES OTHER THAN TESTED
- DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS
- ALLOW FOR SPLAY OF 2.5° AT EACH SIDE FOR A TOTAL SPLAY OF 5° AT ALL GLASS LOCATIONS.



1/2" AIR SPACE CONSISTING OF:

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

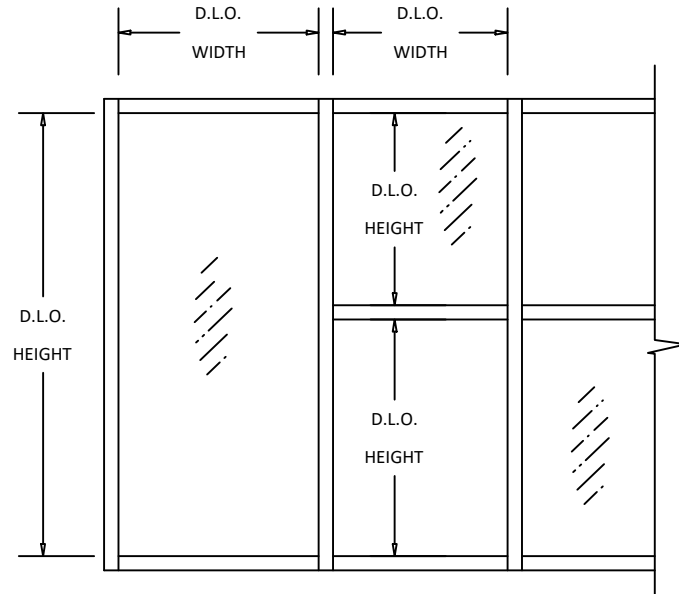
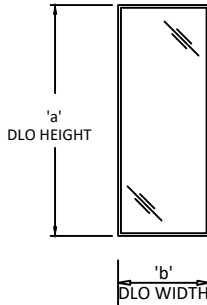
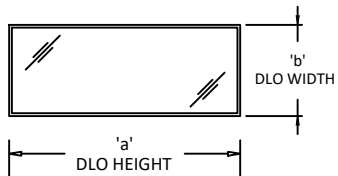
* NOTE:

- 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.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
- D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

REFER TO 6.2A FOR INSULATING GLASS CAPACITY CHARTS - SMALL MISSILE IMPACT

PANEL DIMENSIONS

('a' $\geq$ 'b')



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:

FL13433

DATE: 7.17.17

DWG. BY: AR

CHK. BY: HFN

SCALE: NTS

DWG. #: YKK204

SECTION:

6.2

[Page 28 of 59]

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INSULATING GLASS LOAD CAPACITY (S.M.I)

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		GLASS TYPES K & L		GLASS TYPES M	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	60	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		123.5	123.5	85.5	85.5
66		123.5	123.5	85.5	85.5
72		123.5	123.5	85.5	85.5
78		123.5	123.5	85.5	85.5
84		123.5	123.5	85.5	85.5
24	66	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		123.5	123.5	85.5	85.5
66		112.3	112.3	77.7	77.7
72		112.3	112.3	77.7	77.7
78		112.3	112.3	77.7	77.7
84		77.7	77.7	-	-
24	72	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		123.5	123.5	85.5	85.5
66		112.3	112.3	77.7	77.7
72		102.9	102.9	71.3	71.3
78		71.3	71.3	-	-
84		71.3	71.3	-	-
24	78	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		123.5	123.5	85.5	85.5
66		112.3	112.3	77.7	77.7
72		71.3	71.3	-	-
78		65.8	65.8	-	-
84		65.8	65.8	-	-
24	84	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		123.5	123.5	85.5	85.5
66		77.7	77.7	-	-
72		71.3	71.3	-	-
78		65.8	65.8	-	-

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		GLASS TYPES K & L		GLASS TYPES M	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	90	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
60		85.5	85.5	-	-
66		77.7	77.7	-	-
72		71.3	71.3	-	-
24	94.5	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		130.0	130.0	90.0	90.0
57		130.0	130.0	90.0	90.0
60		85.5	85.5	-	-
66		77.7	77.7	-	-
72		71.3	71.3	-	-
24	102	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		90.0	90.0	-	-
60		85.5	85.5	-	-
66		77.7	77.7	-	-
72		130.0	130.0	90.0	90.0
24	108	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		130.0	130.0	90.0	90.0
54		90.0	90.0	-	-
60		85.5	85.5	-	-
72		130.0	130.0	90.0	90.0
84		130.0	130.0	90.0	90.0
24	114	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		90.0	90.0	-	-
54		90.0	90.0	-	-
60		85.5	85.5	-	-
72		130.0	130.0	90.0	90.0
84		130.0	130.0	90.0	90.0
24	120	130.0	130.0	90.0	90.0
30		130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0
48		90.0	90.0	-	-
54		90.0	90.0	-	-
60		85.5	85.5	-	-
72		130.0	130.0	90.0	90.0
84		130.0	130.0	90.0	90.0

- GLASS TABLE NOTES:
- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS).
 - GLASS CAPACITIES ARE LIMITED BY THE RESULTS OF COMPARATIVE ANALYSIS IN ACCORDANCE WITH CHAPTER 17 OF THE CURRENT FBC.
 - WHERE REQUIRED, TEMPERED GLASS IS REQUIRED TO BE USED TO COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CHAPTER 24 OF THE CURRENT FBC.
 - ALL GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE APPROVED SETTING BLOCKS IN ACCORDANCE WITH CHAPTER 24 OF THE CURRENT FBC.
 - REFER TO FIGURE 1 FOR ILLUSTRATION OF DAYLIGHT OPENING DIMENSIONS.

REFER TO SECTION 6.2 FOR INSULATING SMALL MISSILE IMPACT GLAZING DETAILS.

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



Quality
inspires™

YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.
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REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL13433

DATE:
7.17.17

DWG. BY:
AR

CHK. BY:
HFN

SCALE:
NTS

DWG. #:
YKK204

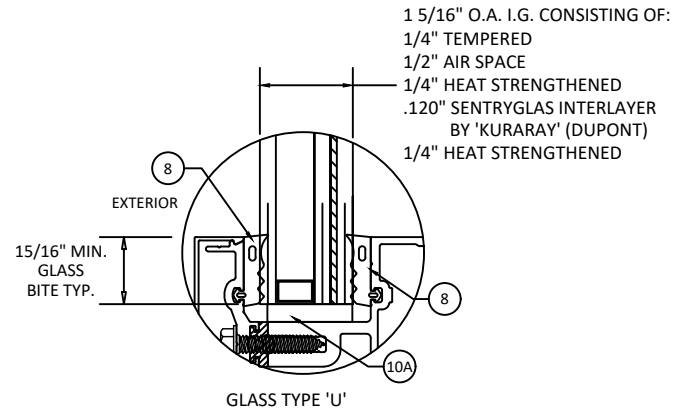
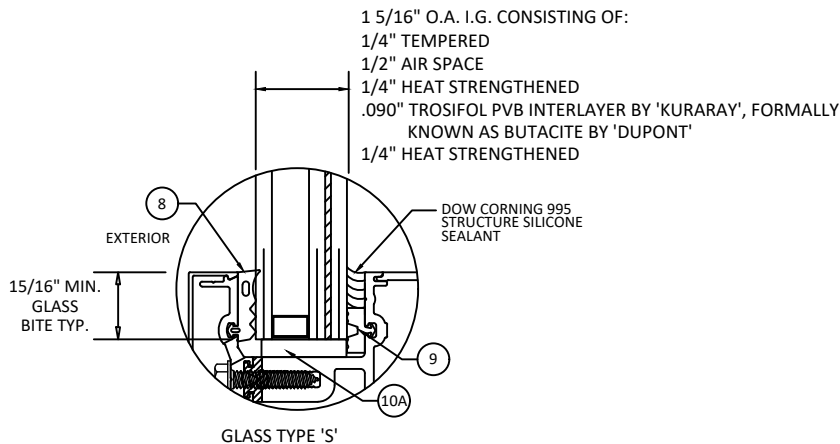
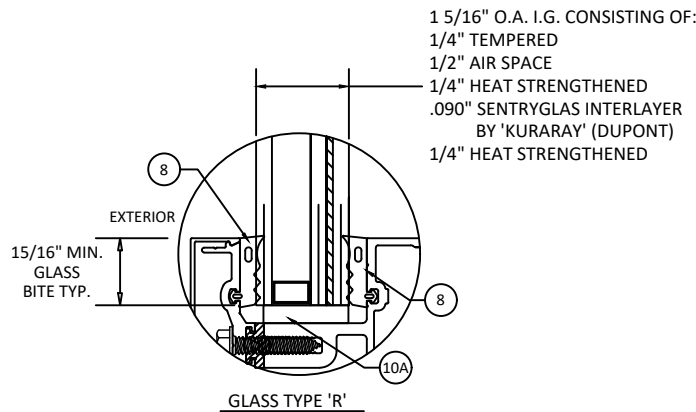
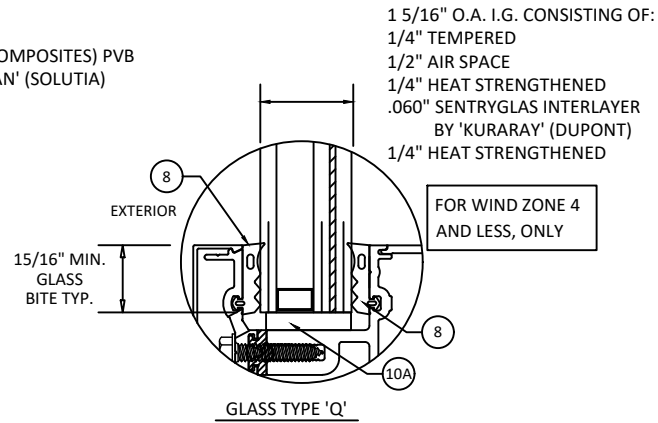
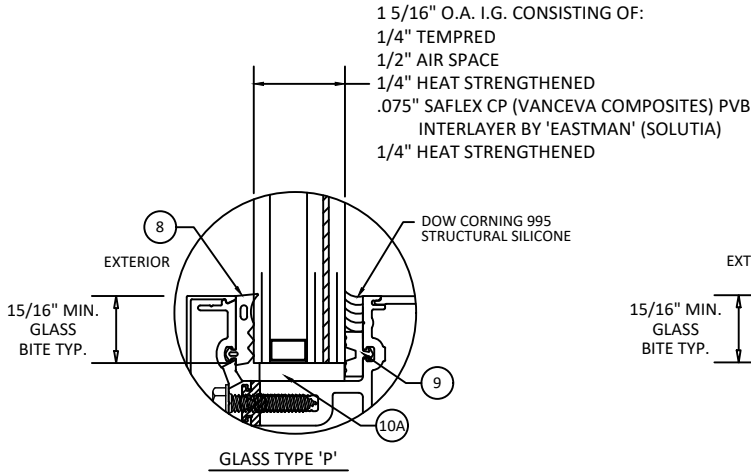
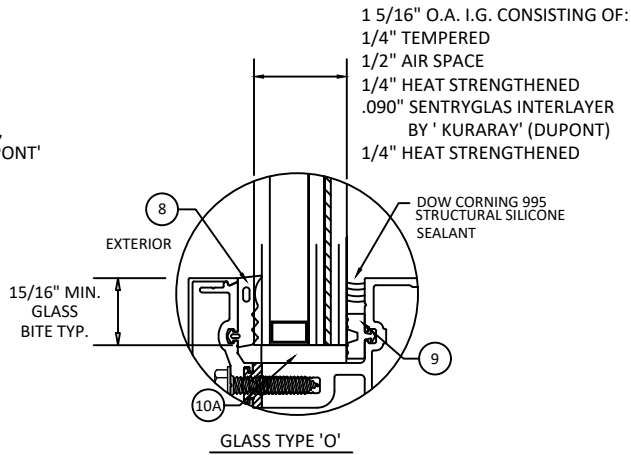
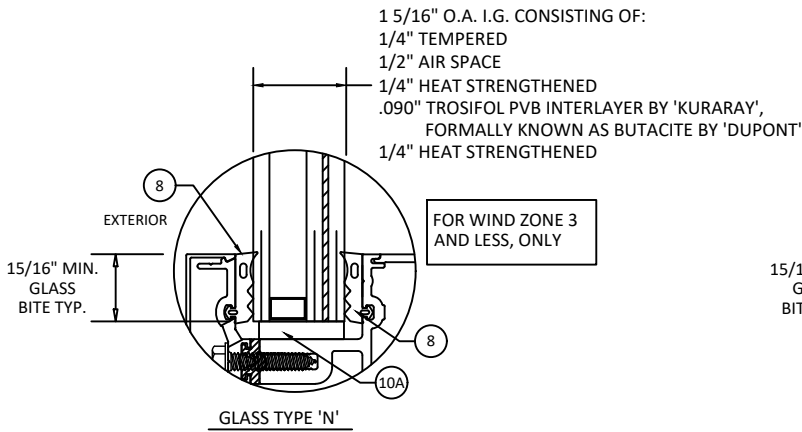
SECTION:
6.2A

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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' ($a \geq b$), 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. ALLOW FOR SPLAY OF 2.5° AT EACH SIDE FOR A TOTAL SPLAY OF 5° AT ALL GLASS LOCATIONS.



* NOTE:

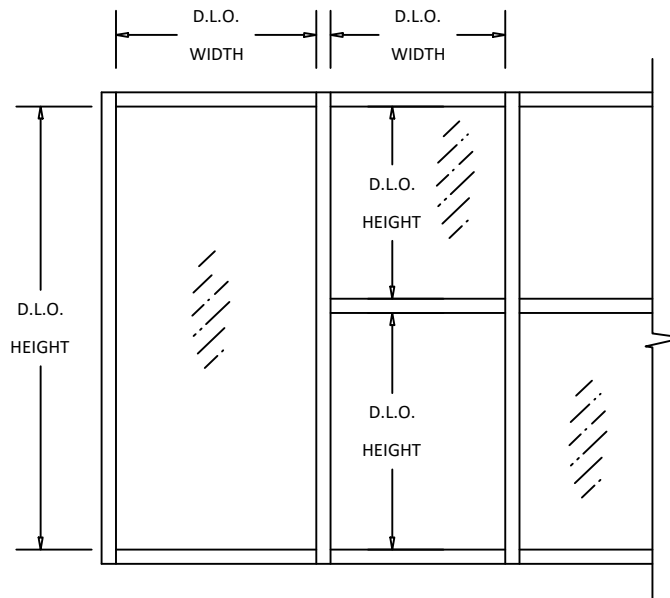
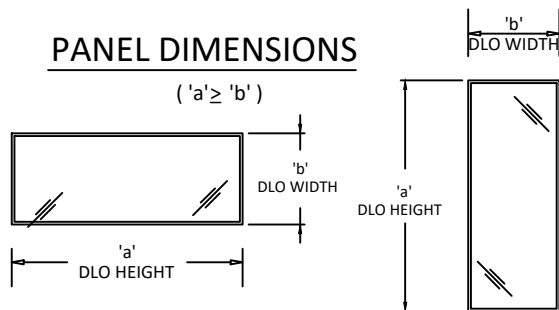
1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER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

1/2" AIR SPACE CONSISTING OF:

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

REFER TO 6.3A & 6.3B FOR
INSULATING GLASS CAPACITY
CHARTS - LARGE MISSILE IMPACT

PANEL DIMENSIONS



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

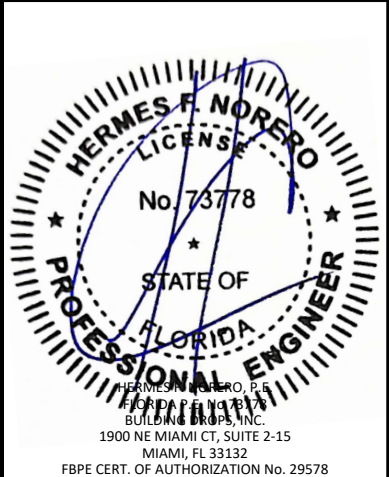
GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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



FL #:

FL13433

DATE: 7.17.17

DWG. BY: AR

CHK. BY: HFN

SCALE: NTS

DWG. #: YKK204

SECTION:

6.3

[Page 30 of 59]

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INSULATING GLASS LOAD CAPACITY (L.M.I)

GLASS LOAD CAPACITY (PSF)							
NOMINAL DIMS.		GLASS TYPE 'N'		GLASS TYPE 'Q'		GLASS TYPES 'S'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	60	45.0	45.0	55.0	55.0	65.0	65.0
30		45.0	45.0	55.0	55.0	65.0	65.0
36		45.0	45.0	55.0	55.0	65.0	65.0
39		45.0	45.0	55.0	55.0	65.0	65.0
42		45.0	45.0	55.0	55.0	65.0	65.0
48		42.2	42.2	55.0	55.0	65.0	65.0
54		37.5	37.5	55.0	55.0	65.0	65.0
60		33.8	33.8	52.3	52.3	61.8	61.8
66		-	-	52.3	52.3	61.8	61.8
72		-	-	52.3	52.3	61.8	61.8
78		-	-	52.3	52.3	61.8	61.8
84		-	-	52.3	52.3	61.8	61.8
24	66	45.0	45.0	55.0	55.0	65.0	65.0
30		45.0	45.0	55.0	55.0	65.0	65.0
36		45.0	45.0	55.0	55.0	65.0	65.0
39		45.0	45.0	55.0	55.0	65.0	65.0
42		45.0	45.0	55.0	55.0	65.0	65.0
48		42.2	42.2	55.0	55.0	65.0	65.0
54		37.5	37.5	55.0	55.0	65.0	65.0
60		-	-	52.3	52.3	61.8	61.8
66		-	-	47.5	47.5	56.1	56.1
72		-	-	47.5	47.5	56.1	56.1
78		-	-	47.5	47.5	56.1	56.1
24	72	45.0	45.0	55.0	55.0	65.0	65.0
30		45.0	45.0	55.0	55.0	65.0	65.0
36		45.0	45.0	55.0	55.0	65.0	65.0
39		45.0	45.0	55.0	55.0	65.0	65.0
42		45.0	45.0	55.0	55.0	65.0	65.0
48		42.2	42.2	55.0	55.0	65.0	65.0
54		-	-	55.0	55.0	65.0	65.0
60		-	-	52.3	52.3	61.8	61.8
66		-	-	47.5	47.5	56.1	56.1
72		-	-	43.5	43.5	51.5	51.5
24	78	45.0	45.0	55.0	55.0	65.0	65.0
30		45.0	45.0	55.0	55.0	65.0	65.0
36		45.0	45.0	55.0	55.0	65.0	65.0
39		45.0	45.0	55.0	55.0	65.0	65.0
42		45.0	45.0	55.0	55.0	65.0	65.0
48		-	-	55.0	55.0	65.0	65.0
54		-	-	55.0	55.0	65.0	65.0
60		-	-	52.3	52.3	61.8	61.8
66		-	-	47.5	47.5	56.1	56.1
72		-	-	47.5	47.5	56.1	56.1

GLASS LOAD CAPACITY (PSF)							
NOMINAL DIMS.		GLASS TYPE 'N'		GLASS TYPE 'Q'		GLASS TYPES 'S'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	84	45.0	45.0	55.0	55.0	65.0	65.0
30		45.0	45.0	55.0	55.0	65.0	65.0
36		45.0	45.0	55.0	55.0	65.0	65.0
39		45.0	45.0	55.0	55.0	65.0	65.0
42		45.0	45.0	55.0	55.0	65.0	65.0
48		-	-	55.0	55.0	65.0	65.0
54		-	-	52.3	52.3	61.8	61.8
60		-	-	52.3	52.3	61.8	61.8
66		45.0	45.0	55.0	55.0	65.0	65.0
72		45.0	45.0	55.0	55.0	65.0	65.0
24	90	45.0	45.0	55.0	55.0	65.0	65.0
30		45.0	45.0	55.0	55.0	65.0	65.0
36		45.0	45.0	55.0	55.0	65.0	65.0
39		45.0	45.0	55.0	55.0	65.0	65.0
42		-	-	55.0	55.0	65.0	65.0
48		-	-	55.0	55.0	65.0	65.0
54		-	-	55.0	55.0	65.0	65.0
60		45.0	45.0	55.0	55.0	65.0	65.0
66		45.0	45.0	55.0	55.0	65.0	65.0
72		45.0	45.0	55.0	55.0	65.0	65.0
24	94.5	45.0	45.0	55.0	55.0	65.0	65.0
30		45.0	45.0	55.0	55.0	65.0	65.0
36		45.0	45.0	55.0	55.0	65.0	65.0
39		-	-	55.0	55.0	65.0	65.0
42		-	-	55.0	55.0	65.0	65.0
48		-	-	55.0	55.0	65.0	65.0
54		-	-	55.0	55.0	65.0	65.0
60		-	-	55.0	55.0	65.0	65.0
66		-	-	55.0	55.0	65.0	65.0
72		-	-	55.0	55.0	65.0	65.0
24	102	45.0	45.0	55.0	55.0	65.0	65.0
30		45.0	45.0	55.0	55.0	65.0	65.0
36		-	-	55.0	55.0	65.0	65.0
39		-	-	55.0	55.0	65.0	65.0
42		-	-	55.0	55.0	65.0	65.0
48		-	-	55.0	55.0	65.0	65.0
54		45.0	45.0	55.0	55.0	65.0	65.0
60		45.0	45.0	55.0	55.0	65.0	65.0
66		-	-	55.0	55.0	65.0	65.0
72		-	-	55.0	55.0	65.0	65.0
24	108	45.0	45.0	55.0	55.0	65.0	65.0
30		45.0	45.0	55.0	55.0	65.0	65.0
36		-	-	55.0	55.0	65.0	65.0
39		-	-	55.0	55.0	65.0	65.0
42		-	-	55.0	55.0	65.0	65.0
48		-	-	55.0	55.0	65.0	65.0
54		45.0	45.0	55.0	55.0	65.0	65.0
60		45.0	45.0	55.0	55.0	65.0	65.0
66		-	-	55.0	55.0	65.0	65.0
72		-	-	55.0	55.0	65.0	65.0
24	114	45.0	45.0	55.0	55.0	65.0	65.0
30		45.0	45.0	55.0	55.0	65.0	65.0
36		-	-	55.0	55.0	65.0	65.0
39		-	-	55.0	55.0	65.0	65.0
42		-	-	55.0	55.0	65.0	65.0
48		-	-	55.0	55.0	65.0	65.0
54		45.0	45.0	55.0	55.0	65.0	65.0
60		45.0	45.0	55.0	55.0	65.0	65.0
66		-	-	55.0	55.0	65.0	65.0
72		-	-	55.0	55.0	65.0	65.0
24	120	45.0	45.0	55.0	55.0	65.0	65.0
30		-	-	55.0	55.0	65.0	65.0
36		-	-	55.0	55.0	65.0	65.0
39		-	-	55.0	55.0	65.0	65.0
42		-	-	55.0	55.0	65.0	65.0

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		GLASS TYPES 'R'		GLASS TYPES 'P' & 'O'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	60	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	130.0	130.0
54		90.0	90.0	130.0	130.0
60		85.5	85.5	124.6	124.6
66		85.5	85.5	124.6	124.6
72		85.5	85.5	124.6	124.6
78		85.5	85.5	124.6	124.6
84		85.5	85.5	124.6	124.6
24	66	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	130.0	130.0
54		90.0	90.0	130.0	130.0
60		85.5	85.5	124.6	124.6
66		77.7	77.7	113.3	113.3
72		77.7	77.7	113.3	113.3
78		77.7	77.7	113.3	113.3
84		77.7	77.7	-	-
24	72	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	130.0	130.0
54		90.0	90.0	130.0	130.0
60		85.5	85.5	124.6	124.6
66		77.7	77.7	113.3	113.3
72		71.3	71.3	103.8	103.8
78		71.3	71.3	-	-
84		71.3	71.3	-	-
24	78	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	130.0	130.0
54		90.0	90.0	130.0	130.0
60		85.5	85.5	124.6	124.6
66		77.7	77.7	113.3	113.3
72		71.3	71.3	-	-
78		65.8	65.8	-	-
84		65.8	65.8	-	-
24	84	90.0	90.0	130.0	130.0
30		90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0
39		90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0
48		90.0	90.0	130.0	130.0
54		90.0	90.0	130.0	130.0
60		85.5	85.5	124.6	124.6
66		77.7	77.7	-	-
72		71.3	71.3	-	-
78		65.8	65.8	-	-

INSULATING GLASS LOAD CAPACITY - L.M.I (CONT.)

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS.		GLASS TYPE 'U'
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)
24	60	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		124.6
72		124.6
78		124.6
84		124.6
24	66	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		113.3
72		113.3
78		113.3
84		77.7
24	72	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		113.3
72		103.8
78		71.3
84		71.3
24	78	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		113.3
72		71.3
78		65.8
84		65.8
24	84	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		77.7
72		71.3
78		65.8

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS.		GLASS TYPE 'U'
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)
24	90	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		77.7
72		71.3
24	94.5	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
54		130.0
60		85.5
66		77.7
72		71.3
24	102	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		90.0
60		85.5
66		77.7
24	108	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		90.0
60		85.5
24	114	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		90.0
54		90.0
60		85.5
24	120	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		90.0
54		90.0
57		90.0



Quality
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YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021

PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

GLAZING DETAILS

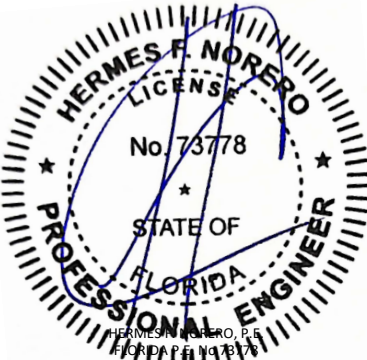
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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FAX: (954)744.4738
WEB: www.buildingdrops.com



BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL13433

DATE:
7.17.17

DWG. BY:
AR

CHK. BY:
HFN

SCALE:
NTS

DWG. #:
YKK204

SECTION:
6.3B
[Page 32 of 59]

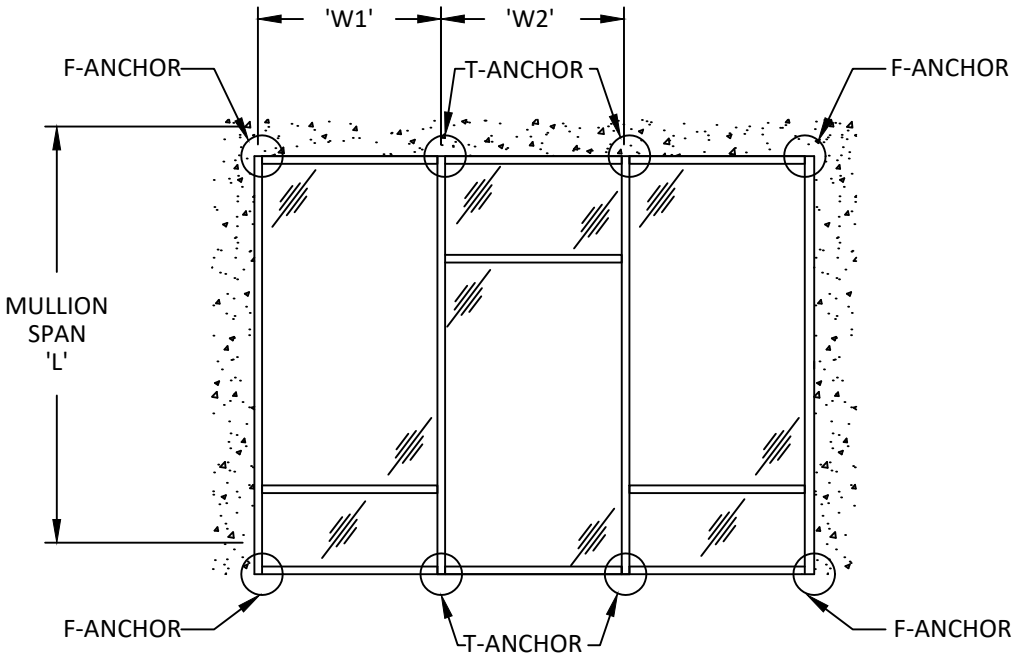
F, T, & S ANCHOR TYPES

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 3/8"	
D	1/2"	ASTM A325 OR SAE GR. 5 THREADED BOLT WITH NUT & WASHER OR DRILL & TAP, OR DEWALT TAP-FLEX GR. 5 SELF TAPPING BOLT	MIN. 1/4" THICK, A36 STEEL	3/4"	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'	4"	3 1/4"
G	1/2"	SELF-TAPPING OR THREADED BOLT, MIN. SAE GR. 5 OR ASTM A325	MIN. 3/16" THICK A36 STEEL	3/4"	- 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"	2 5/16"
J	5/16"	DEWALT 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	DEWALT CRETE FLEX SS4	MIN. 3500 PSI CONCRETE 'UNCRACKED'	1 3/4"	1 3/4"
	1/4"	DEWALT ULTRAACON+	MIN. 4000 PSI CONCRETE	1 1/2"	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	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"	DEWALT ULTAACON+			

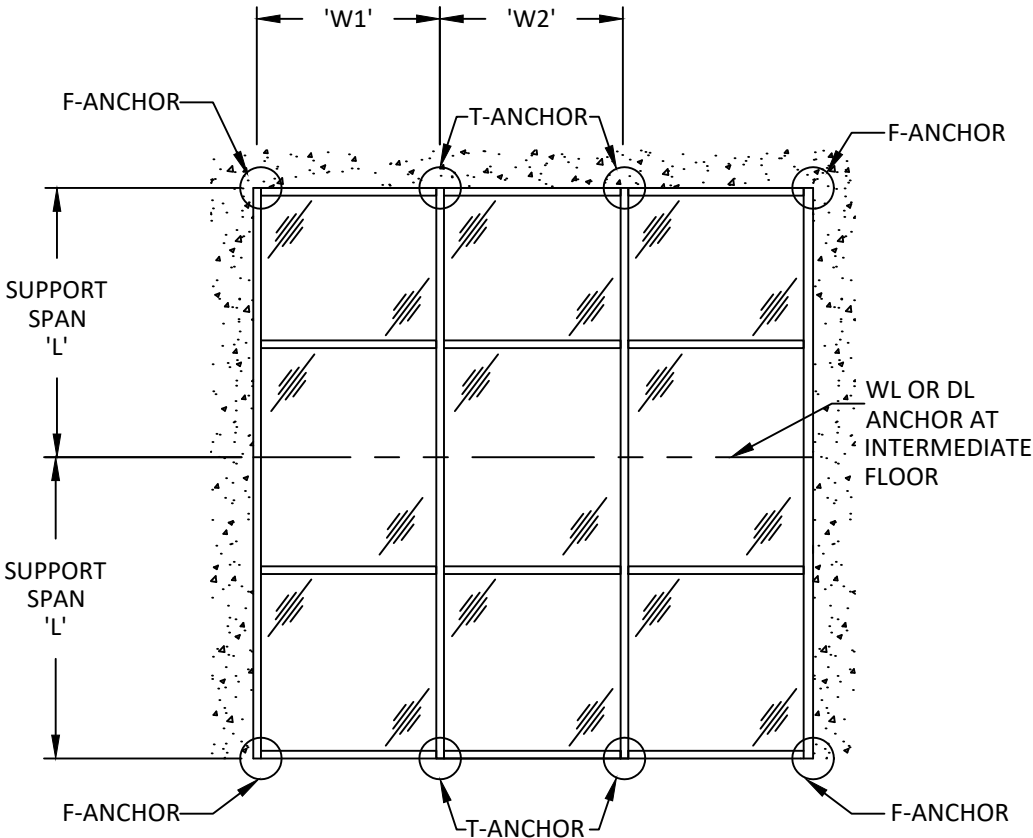
MULLION SPACING OR BAY WIDTH, 'W', FOR T-ANCHORS	$W = \frac{W1 + W2}{2}$
MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT JAMBS	$W = W1$
MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT VERTICAL MULL WITH DOORS	$*W = \frac{W1 + W2}{2}$

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

- NOTE:
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - REFER TO ANCHOR LAYOUTS AT RIGHT FOR LOCATIONS AND DETERMINING MAX. LENGTHS (L) AND TRIBUTARY WIDTHS (W).
 - 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.
 - REFER TO SECTION 8 DETAILS FOR ANCHOR CONFIGURATIONS.
 - REFER TO SECTION 7 DETAILS FOR T, F, & S ANCHOR TYPE CAPACITIES.
 - 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



MULTI SPAN ANCHOR LAYOUT - TYP.



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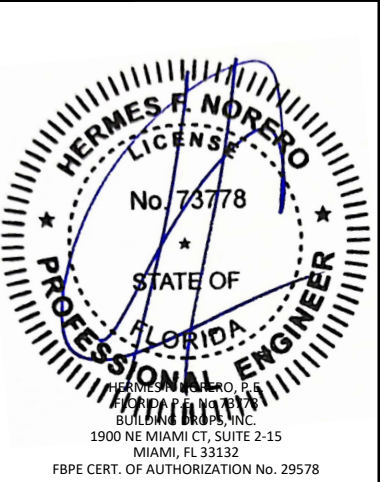
TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

F, T & S - ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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DATE:
7.17.17

DWG. BY:
AR

CHK. BY:
HFN

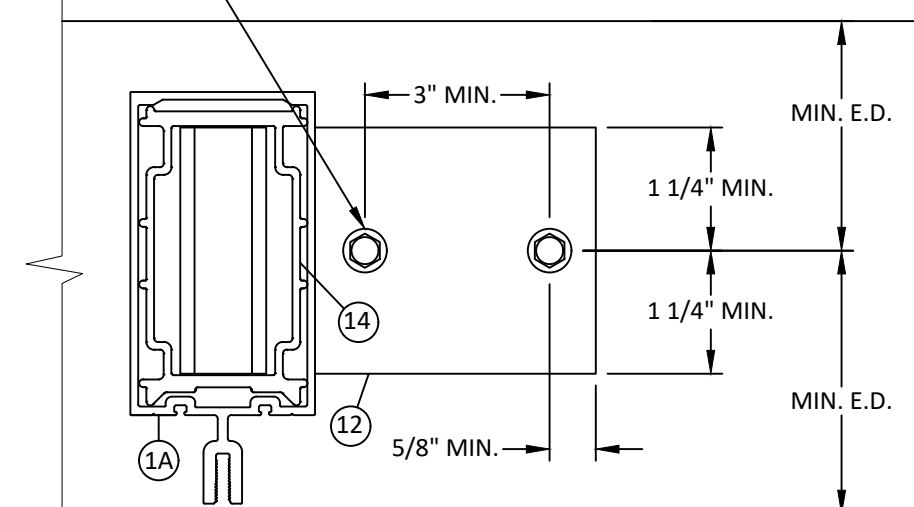
SCALE:
NTS

DWG. #:
YKK204

SECTION:
7.0
[Page 33 of 59]

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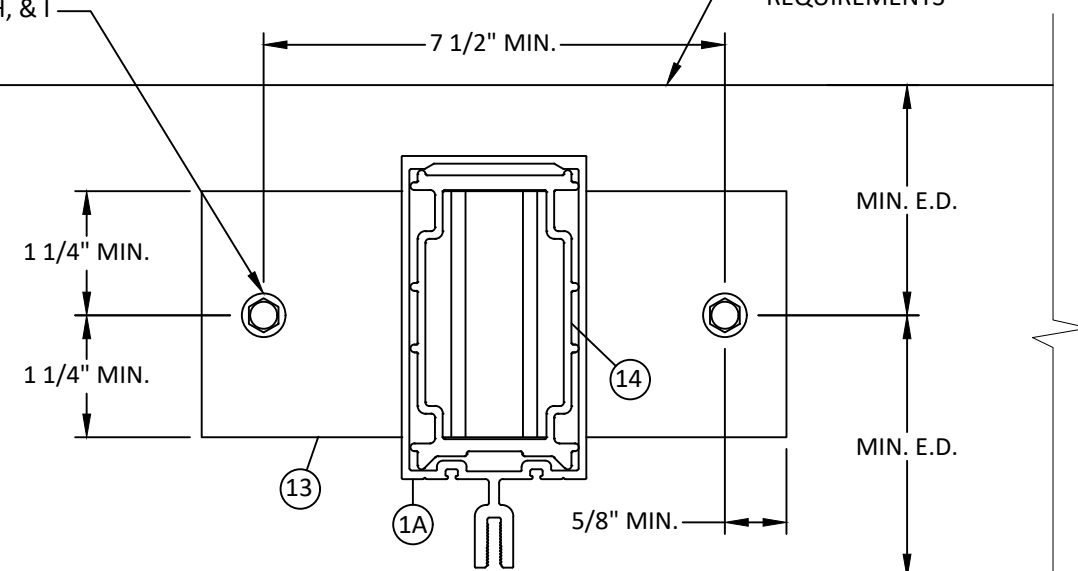
INSTALLATION ANCHOR
TYPES B, C, D, E, F, G, H, & I



1
7.1 HORIZONTAL SECTION
F-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, SECTIONS 7 & 8.

INSTALLATION ANCHOR
TYPES B, C, D, E, F, G, H, & I

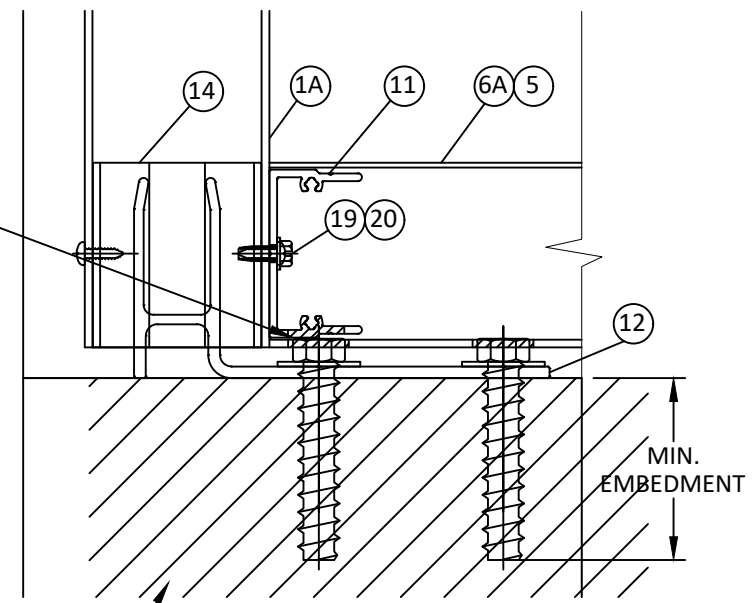


2
7.1 HORIZONTAL SECTION
T-ANCHOR
CONFIG 1

NOTE:
1. STANDARD DUTY MEMBERS SHOWN. LIGHT DUTY WITH SAME END ANCHORS ARE SIMILAR. HEAVY DUTY MULLIONS ARE SIMILAR WITH E1-3034 (INTERMEDIATE VERTICAL MULLION) ITEM #93 & E1-3035 (JAMB MULLION) ITEM #94 END ANCHORS.

EDGE OF OPENING SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

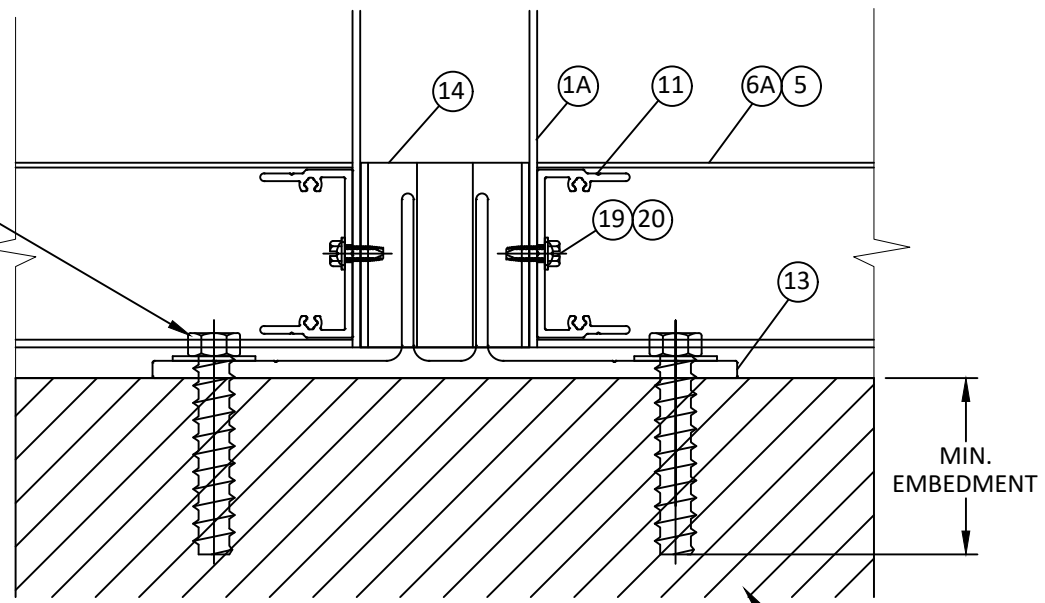
SEE NOTES 1-3



CONCRETE OR STEEL SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

EXTERIOR VIEW
F-ANCHOR (TYPICAL)

SEE NOTES 1-3



CONCRETE OR STEEL SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

EXTERIOR VIEW
T-ANCHOR (TYPICAL)

YKK
ap Quality
inspires™

YKK AP AMERICA
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DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVVHZ)
CURTAIN WALL SYSTEM
F & T - ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

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REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL13433**

DATE: **7.17.17**

DWG. BY: AR	CHK. BY: HFN
-----------------------	------------------------

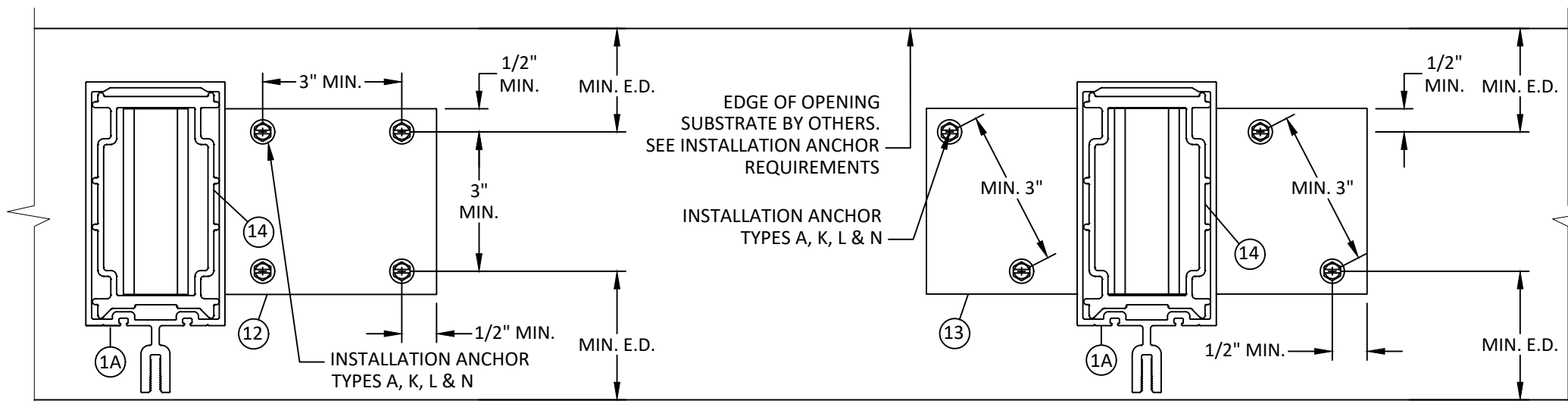
SCALE: **NTS**

DWG. #: **YKK204**

SECTION: **7.1**

[Page 34 of 59]

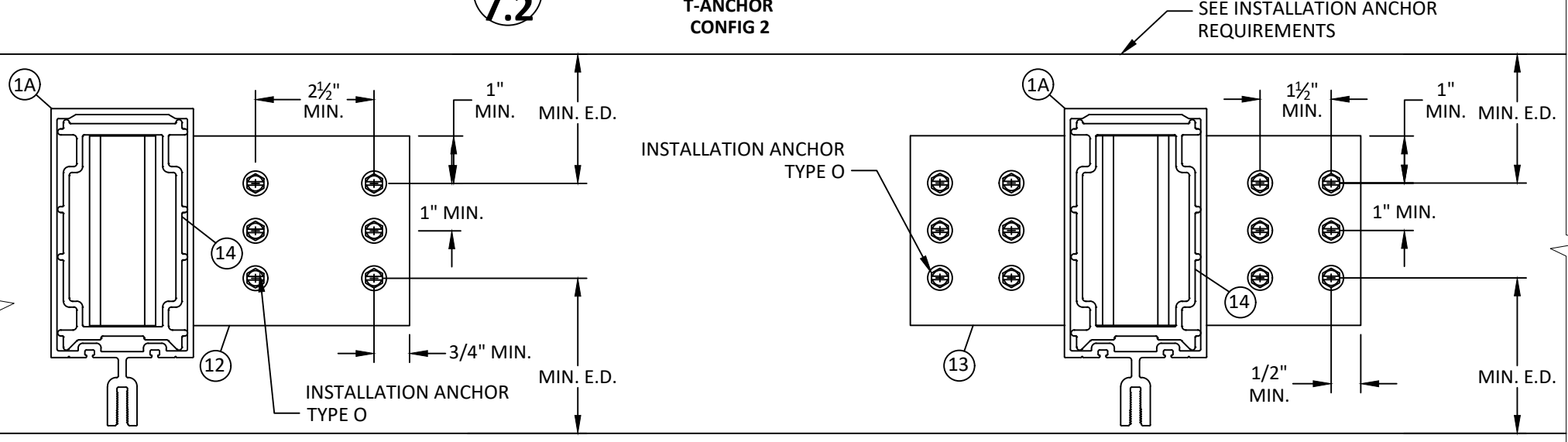
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3
7.2 HORIZONTAL SECTION
F-ANCHOR
CONFIG 2

4
7.2 HORIZONTAL SECTION
T-ANCHOR
CONFIG 2

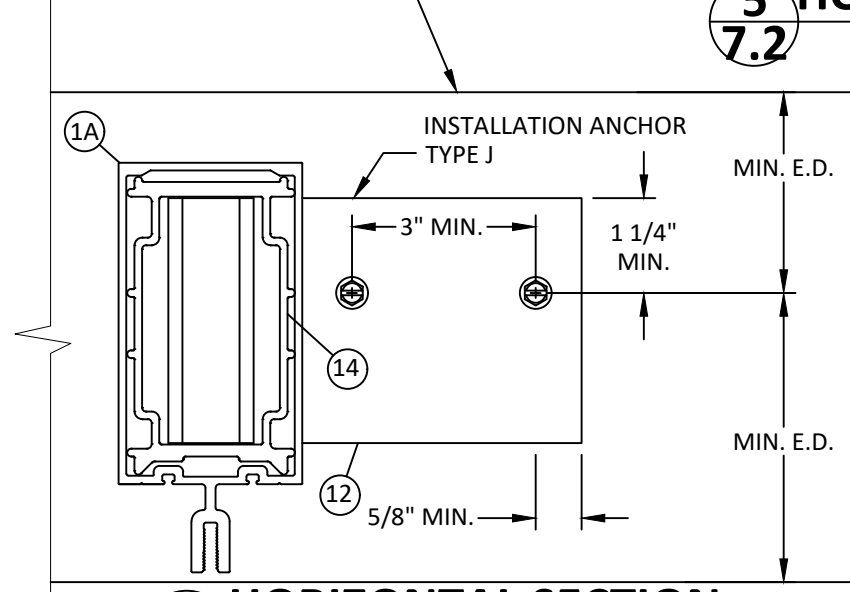
NOTE:
1. STANDARD DUTY MEMBERS SHOWN.
LIGHT DUTY WITH SAME END ANCHORS
ARE SIMILAR. HEAVY DUTY MULLIONS
ARE SIMILAR WITH E1-3034
(INTERMEDIATE VERTICAL MULLION)
ITEM #93 & E1-3035 (JAMB MULLION)
ITEM #94 END ANCHORS.



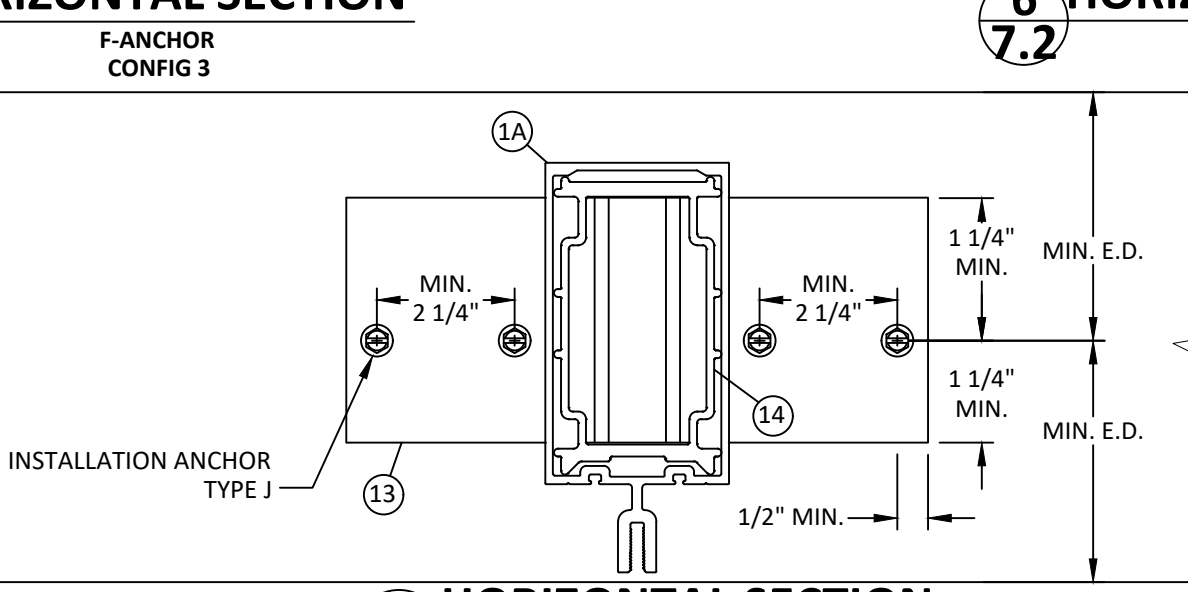
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7.2 HORIZONTAL SECTION
F-ANCHOR
CONFIG 3

6
7.2 HORIZONTAL SECTION
T-ANCHOR
CONFIG 3

EDGE OF OPENING SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS



7
7.2 HORIZONTAL SECTION
F-ANCHOR
CONFIG 7



8
7.2 HORIZONTAL SECTION
T-ANCHOR
CONFIG 7

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DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
F & T - ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
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MIAMI, FL 33132
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FAX: (954)744-4738
WEB: www.buildingdrops.com

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MISC. UPDATES	LS	6.02.26

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LICENSE
No. 73778
STATE OF
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PROFESSIONAL ENGINEER

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1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL13433**

DATE: **7.17.17**

DWG. BY: **AR** CHK. BY: **HFN**

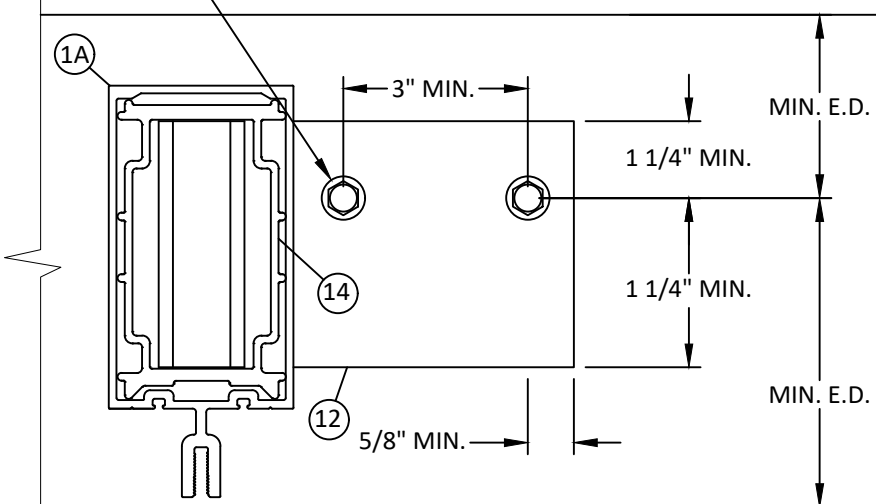
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DWG. #: **YKK204**

SECTION: **7.2**
[Page 35 of 59]

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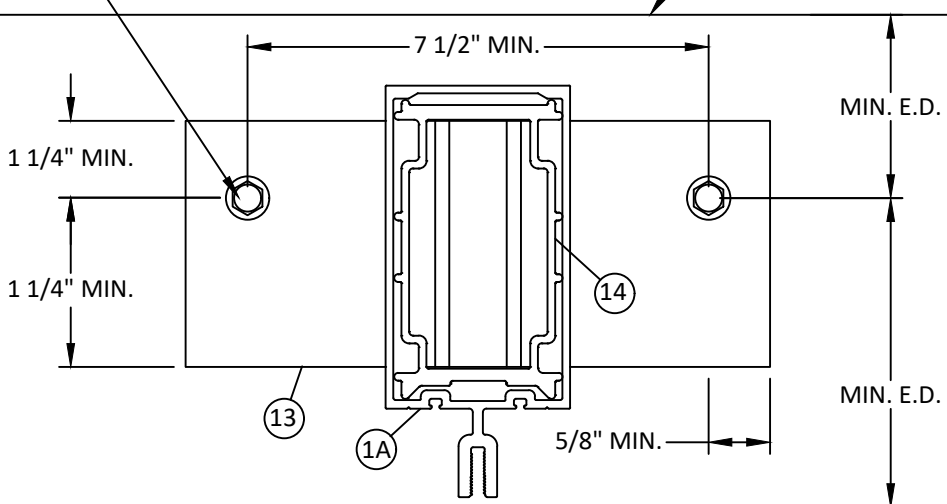
TYPE M ANCHORS
FOR USE WITH HALFEN HT3512
CAST IN PLACE ANCHOR CHANNELS



9 **HORIZONTAL SECTION**
7.3 **F-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

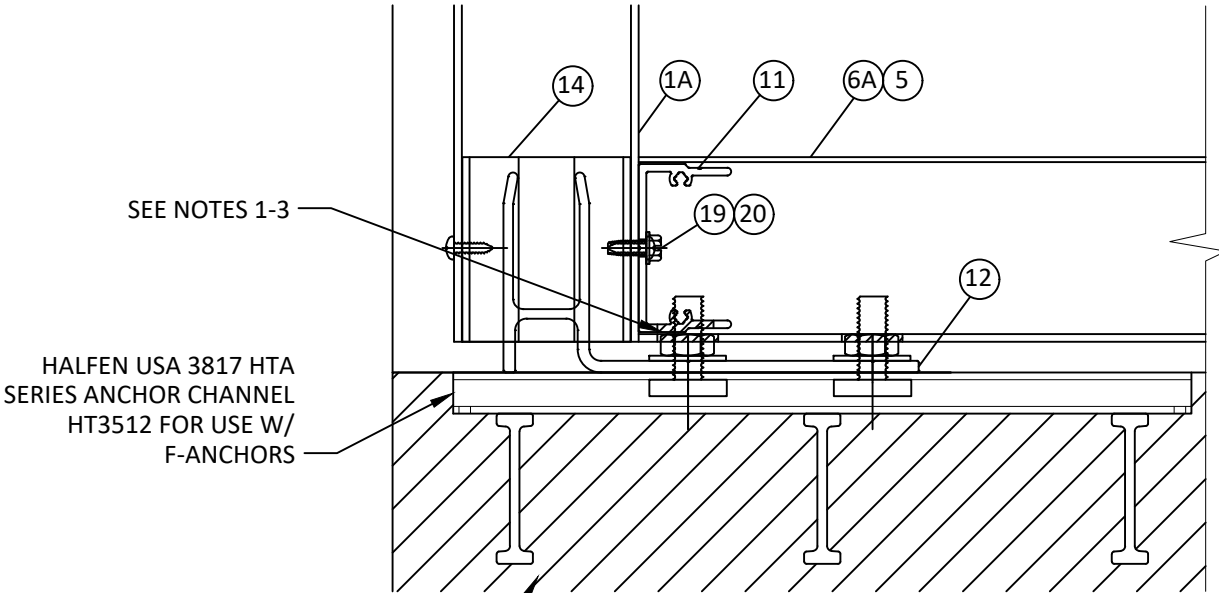
TYPE M ANCHORS
FOR USE WITH HALFEN HT6112
CAST IN PLACE ANCHOR CHANNELS



10 **HORIZONTAL SECTION**
7.3 **T-ANCHOR**
CONFIG 1

- NOTE:
1. STANDARD DUTY MEMBERS SHOWN. LIGHT DUTY WITH SAME END ANCHORS ARE SIMILAR. HEAVY DUTY MULLIONS ARE SIMILAR WITH E1-3034 (INTERMEDIATE VERTICAL MULLION) ITEM #93 & E1-3035 (JAMB MULLION) ITEM #94 END ANCHORS.

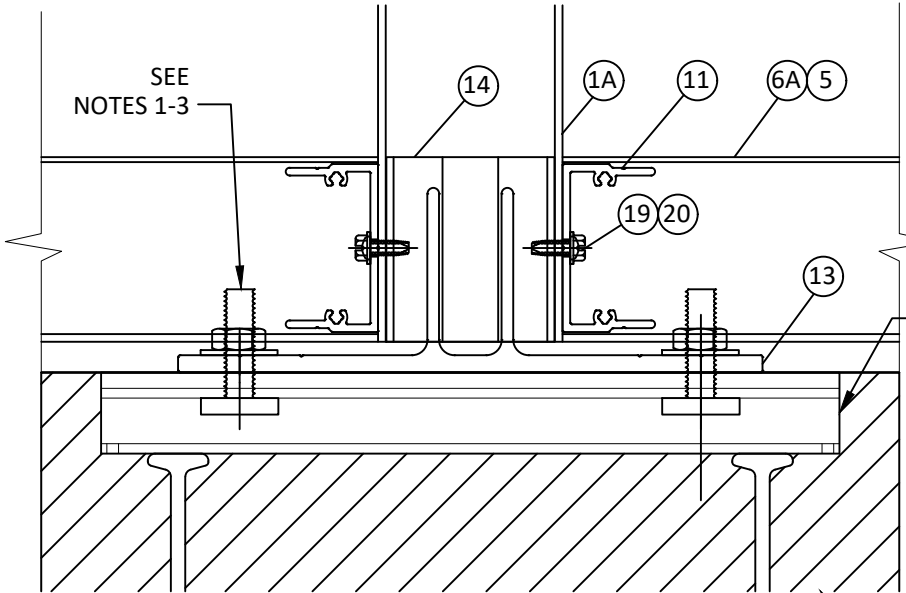
EDGE OF OPENING SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS



EXTERIOR VIEW
F-ANCHOR (TYPICAL)

HALFEN USA 3817 HTA
SERIES ANCHOR CHANNEL
HT3512 FOR USE W/
F-ANCHORS

CONCRETE SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS



EXTERIOR VIEW
T-ANCHOR (TYPICAL)

HALFEN USA 5234 HTA SERIES
ANCHOR CHANNEL,
HT 6112, FOR USE W/ T-ANCHORS

CONCRETE SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS



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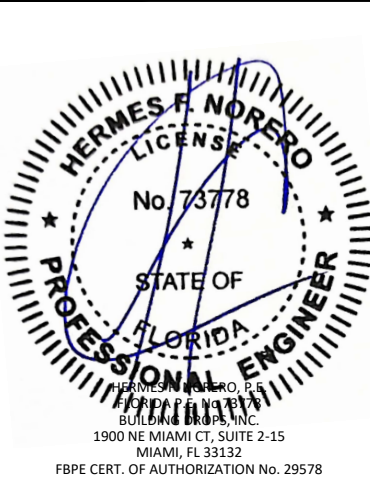
TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
F & T - ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

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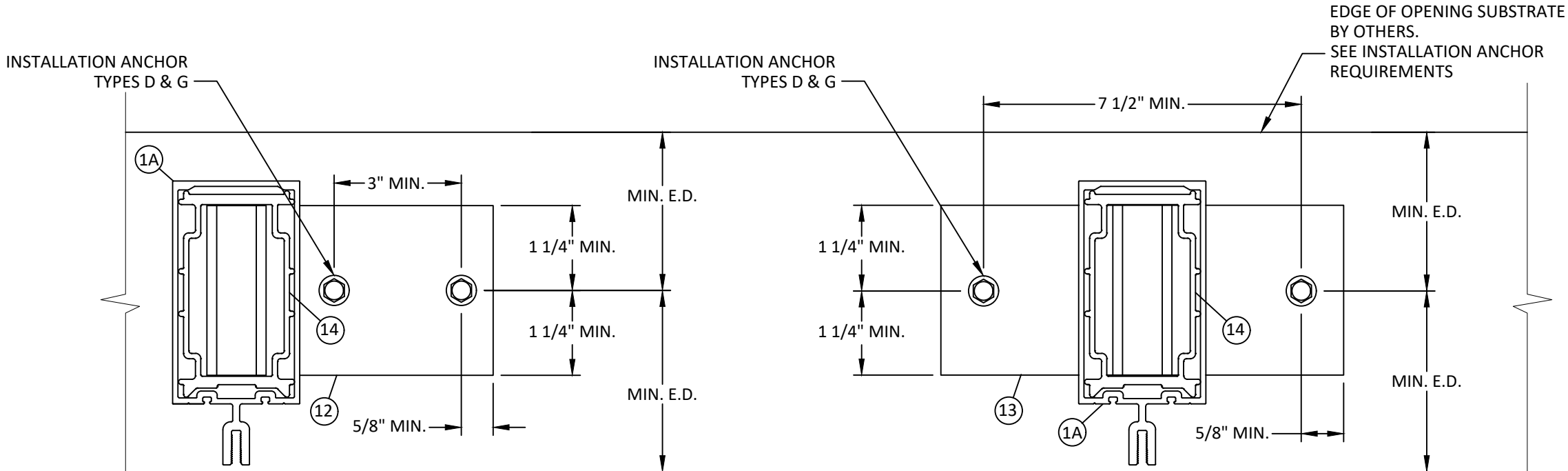
SCALE: **NTS**

DWG. #: **YKK204**

SECTION: **7.3**

[Page 36 of 59]

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11 HORIZONTAL SECTION
7.4 F-ANCHOR CONFIG 1

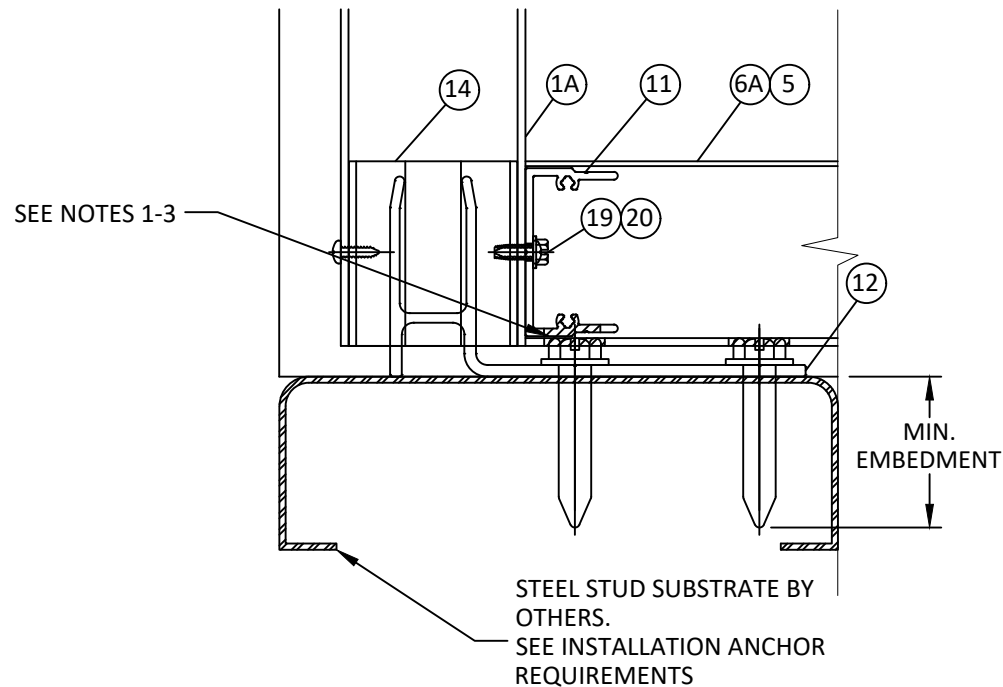
12 HORIZONTAL SECTION
7.4 T-ANCHOR CONFIG 1

NOTE:

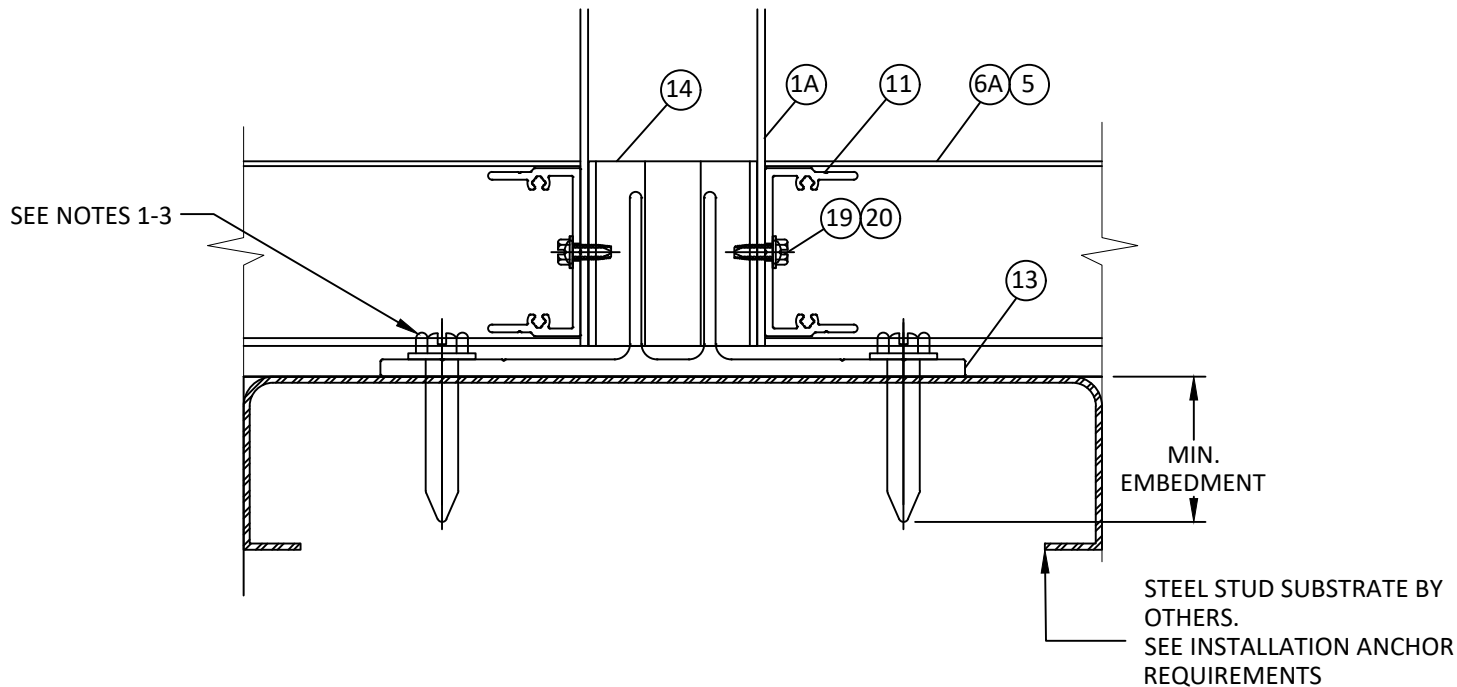
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3. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE

NOTE:

1. STANDARD DUTY MEMBERS SHOWN. LIGHT DUTY WITH SAME END ANCHORS ARE SIMILAR. HEAVY DUTY MULLIONS ARE SIMILAR WITH E1-3034 (INTERMEDIATE VERTICAL MULLION) ITEM #93 & E1-3035 (JAMB MULLION) ITEM #94 END ANCHORS.



EXTERIOR VIEW
F-ANCHOR (TYPICAL)



EXTERIOR VIEW
T-ANCHOR (TYPICAL)



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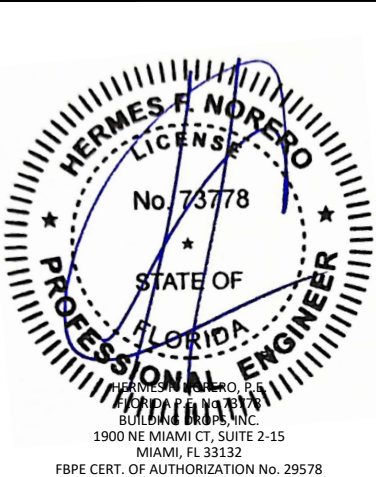
TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
F & T - ANCHOR DETAILS

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MIAMI, FL 33132
PH: (954)399-8478
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MISC. UPDATES	LS	6.02.26

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DATE: **7.17.17**

DWG. BY: **AR** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK204**

SECTION: **7.4**

[Page 37 of 59]

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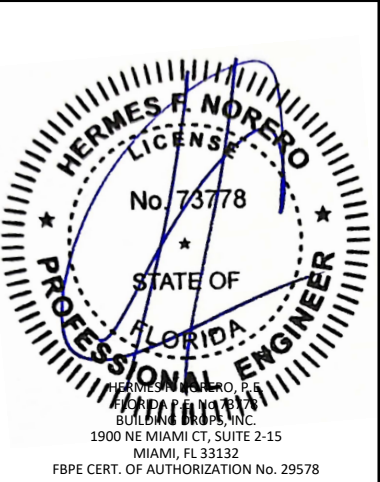
YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
F & T - ANCHOR DETAILS

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MIAMI, FL 33132
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REMARKS	BY	DATE
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FL13433

DATE:
7.17.17

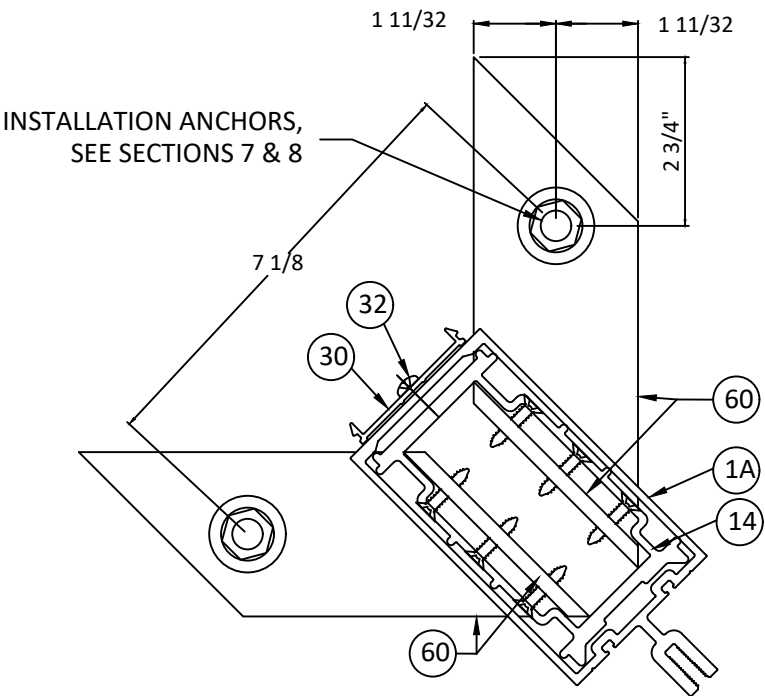
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AR

CHK. BY:
HFN

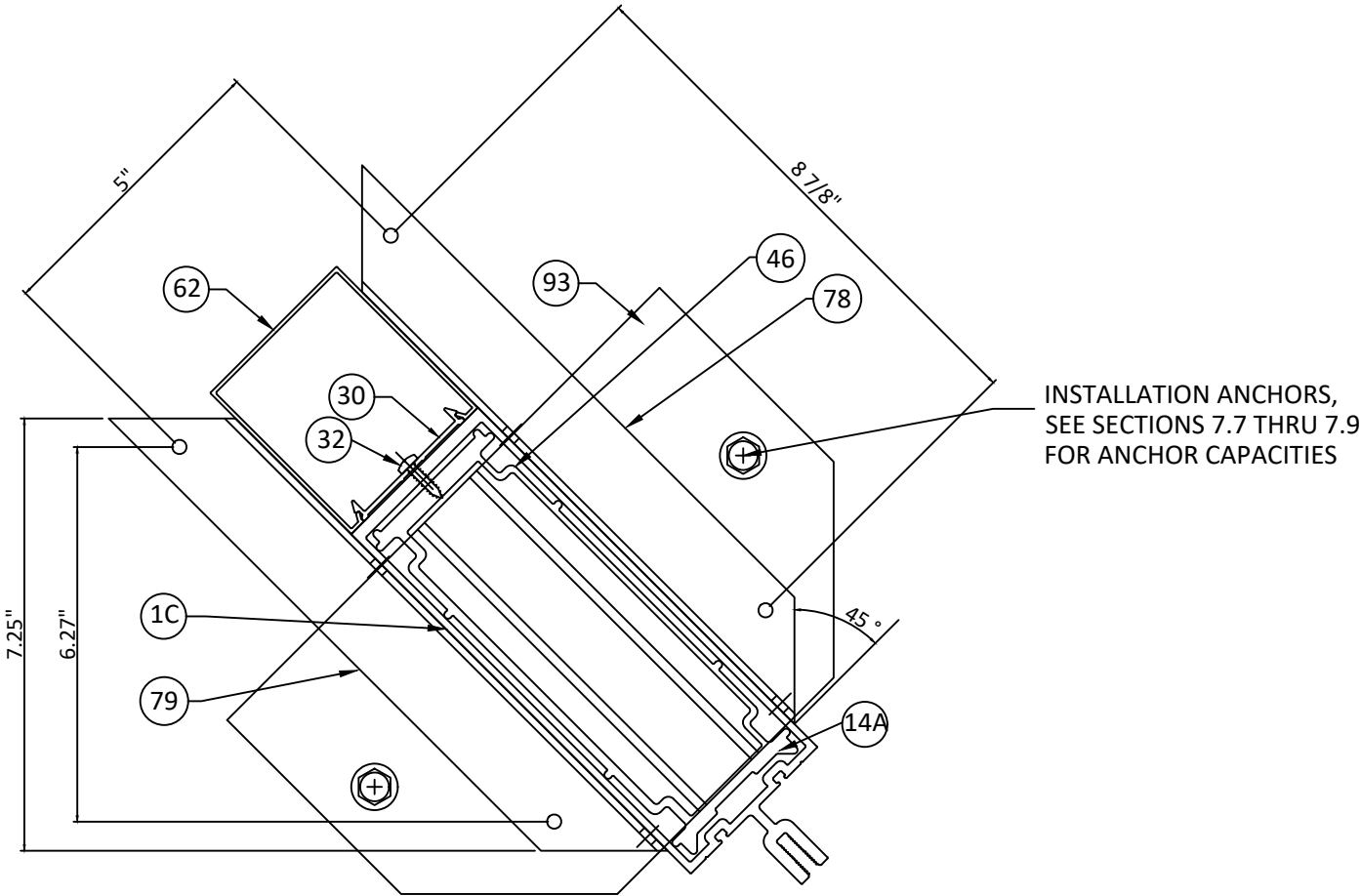
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YKK204

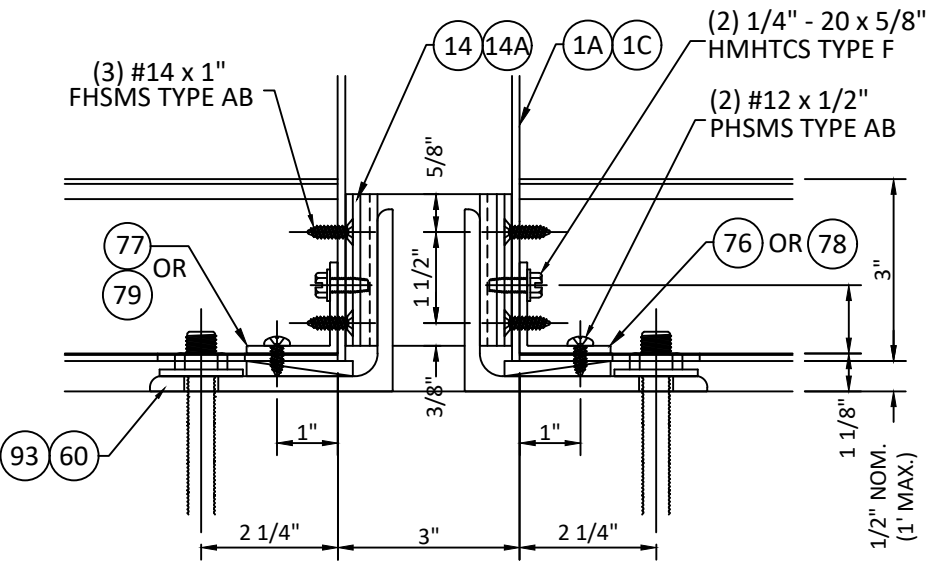
SECTION:
7.5
[Page 38 of 59]



13
7.5 HORIZONTAL SECTION
STANDARD CORNER MULLION ANCHOR



13A
7.5 HORIZONTAL SECTION
HEAVY DUTY CORNER MULLION ANCHOR

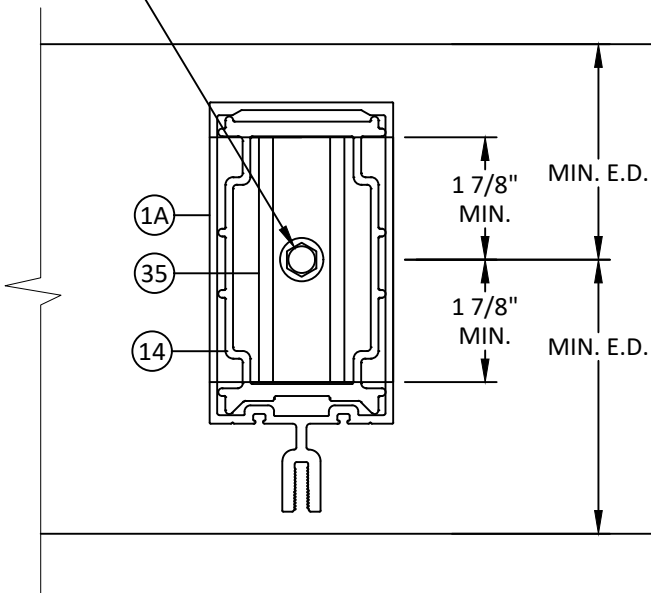


CORNER MULLION ANCHORS
FRONT VIEW

- NOTE:
- STANDARD DUTY MEMBERS SHOWN (DETAIL 13/7.5)
LIGHT DUTY WITH SAME END ANCHORS ARE SIMILAR.
 - HEAVY DUTY MULLIONS SHOWN (DETAIL 13A/7.5)

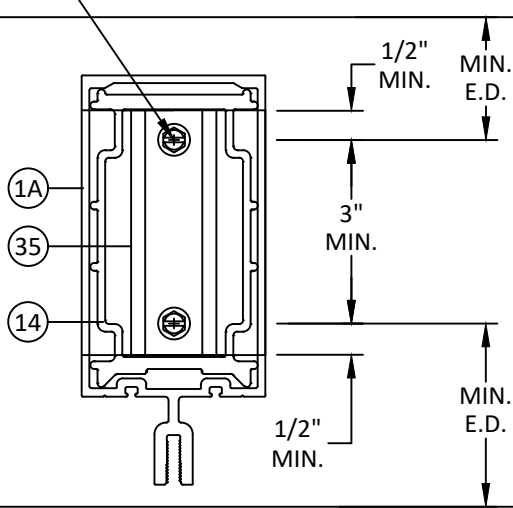
S ANCHOR DETAILS

INSTALLATION ANCHOR
TYPES H & I



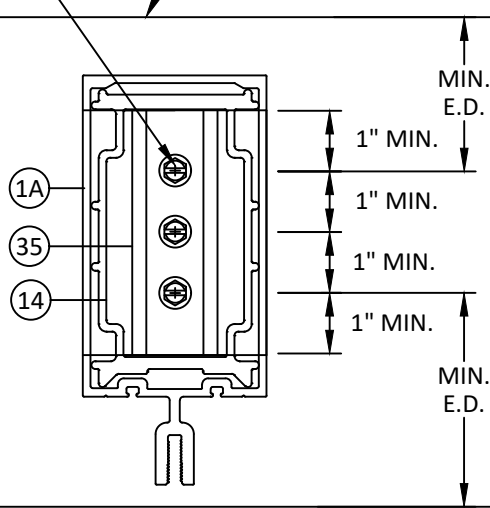
14 HORIZONTAL SECTION
7.6 S-ANCHOR
CONFIG 4

INSTALLATION ANCHOR
TYPES K & L



15 HORIZONTAL SECTION
7.6 S-ANCHOR
CONFIG 5

INSTALLATION ANCHOR
TYPE J



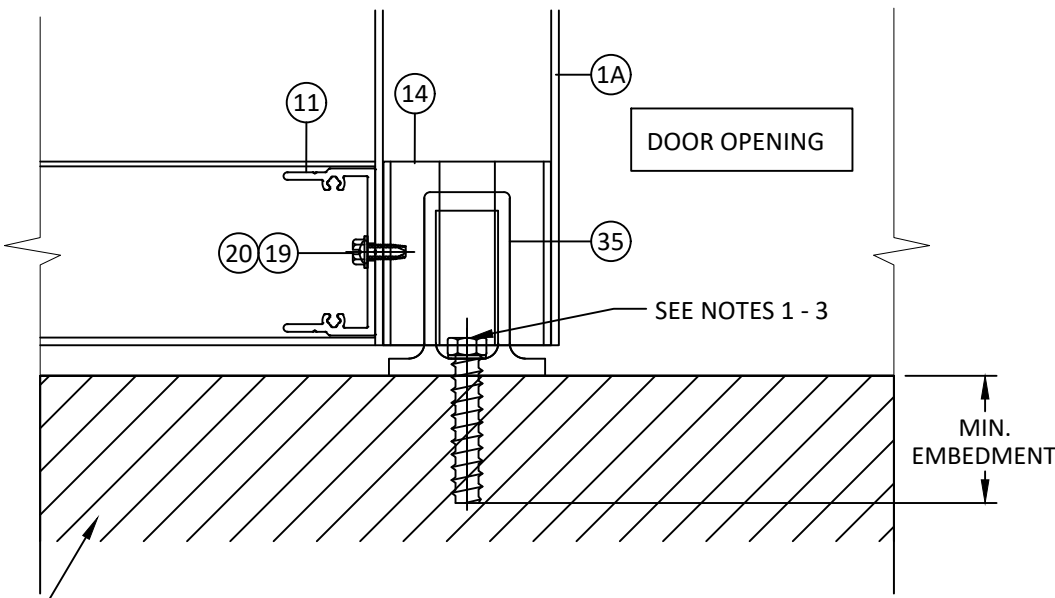
16 HORIZONTAL SECTION
7.6 S-ANCHOR
CONFIG 6

EDGE OF OPENING SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

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.

NOTE:
1. STANDARD DUTY MEMBERS SHOWN. LIGHT DUTY WITH SAME END ANCHORS ARE SIMILAR. HEAVY DUTY MULLIONS ARE SIMILAR WITH E1-3038 ITEM #64.

CONCRETE OR STEEL SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS



EXTERIOR VIEW
S-ANCHOR (TYPICAL)

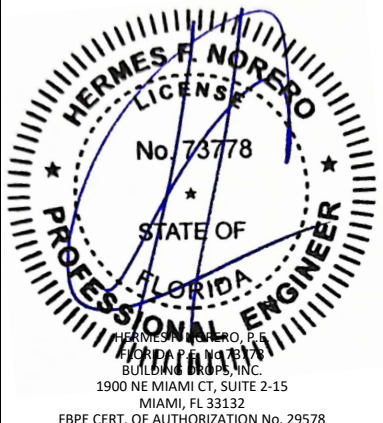


YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
S - ANCHOR DETAILS
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MIAMI, FL 33132
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MISC. UPDATES	LS	6.02.26

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

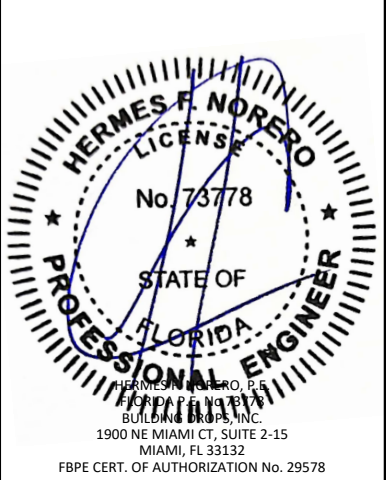


FL #: **FL13433**
DATE: **7.17.17**
DWG. BY: **AR** CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **YKK204**
SECTION: **7.6**
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MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																	
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	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	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	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	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	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	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	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	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	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		
36	156	115.4	130.0	130.0	130.0	130.0	130.0	130.0	115.4	130.0	130.0	130.0	115.4	130.0	115.4	115.4	
42		98.9	130.0	123.6	130.0	130.0	130.0	130.0	119.1	98.9	130.0	130.0	98.9	130.0	98.9	98.9	
48		86.5	130.0	108.2	130.0	130.0	130.0	130.0	104.2	86.5	130.0	130.0	86.5	130.0	86.5	86.5	
54		76.9	130.0	96.2	130.0	130.0	130.0	119.2	92.6	76.9	119.2	119.2	76.9	130.0	76.9	76.9	
60		69.2	125.0	86.5	125.0	125.0	125.0	107.3	83.4	69.2	107.3	107.3	69.2	125.0	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	97.6	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	89.4	57.7	104.2	57.7	57.7		
36	162	111.1	130.0	130.0	130.0	130.0	130.0	130.0	130.0	111.1	130.0	130.0	111.1	130.0	111.1	111.1	
42		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	
48		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	
54		74.1	130.0	92.6	130.0	130.0	130.0	114.8	89.2	74.1	114.8	114.8	74.1	130.0	74.1	74.1	
60		66.7	120.4	83.3	120.4	120.4	120.4	103.3	80.3	66.7	103.3	103.3	66.7	120.4	66.7	66.7	
66		60.6	109.5	75.8	109.4	109.4	109.5	93.9	73.0	60.6	93.9	93.9	60.6	109.5	60.6	60.6	
72	55.6	100.3	69.4	100.3	100.3	100.3	86.1	66.9	55.6	86.1	86.1	55.6	100.3	55.6	55.6		

NOTE:

1. REFER TO SECTION 7.0 THRU 7.6 FOR DETAILS OF ANCHOR REQUIREMENTS. AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'
2. SEE SECTION 2, TWIN SPAN ELEVATION FOR LOCATION OF F-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.L.O.



FL #:	
FL13433	
DATE: 7.17.17	
DWG. BY: AR	CHK. BY: HFN
SCALE: NTS	
DWG. #: YKK204	
SECTION:	
7.7	
[Page 40 of 59]	

SINGLE SPAN & MULTI SPAN T & F ANCHOR CAPACITIES (CONT)

MAX. ANCHOR CAPACITY FOR SINGLE SPAN - 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	168	107.1	130	130	130	130	130	130	129	107.1	130	130	107.1	130	107.1	107.1
42		91.8	130	114.8	130	130	130	130	110.6	91.8	130	130	91.8	130	91.8	91.8
48		80.4	130	100.4	130	130	130	130	124.6	96.8	80.4	124.6	124.6	80.4	130	80.4
54		71.4	129	89.3	129	129	129	110.7	86	71.4	110.7	110.7	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	99.6	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	90.6	58.4	105.6	58.4	58.4
72	174	53.6	96.8	67	96.7	96.7	96.8	83	64.5	53.6	83	83	53.6	96.8	53.6	53.6
36		103.4	130	129.3	130	130	130	130	124.6	103.4	130	130	103.4	130	103.4	103.4
42		88.7	130	110.8	130	130	130	130	106.8	88.7	130	130	88.7	130	88.7	88.7
48		77.6	130	97	130	130	130	120.3	93.4	77.6	120.3	120.3	77.6	130	77.6	77.6
54		69	124.6	86.2	124.5	124.5	124.6	106.9	83	69	106.9	106.9	69	124.6	69	69
60		62.1	112.1	77.6	112.1	112.1	112.1	96.2	74.7	62.1	96.2	96.2	62.1	112.1	62.1	62.1
66	180	56.4	101.9	70.5	101.9	101.9	101.9	87.5	67.9	56.4	87.5	87.5	56.4	101.9	56.4	56.4
72		51.7	93.4	64.7	93.4	93.4	93.4	80.2	62.3	51.7	80.2	80.2	51.7	93.4	51.7	51.7
36		100	130	125	130	130	130	130	120.4	100	130	130	100	130	100	100
42		85.7	130	107.1	130	130	130	130	103.2	85.7	130	130	85.7	130	85.7	85.7
48		75	130	93.8	130	130	130	116.3	90.3	75	116.3	116.3	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	103.3	66.7	120.4	66.7	66.7
60	186	60	108.4	75	108.3	108.3	108.4	93	72.2	60	93	93	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	84.5	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	77.5	50	90.3	50	50
36		96.8	130	121	130	130	130	130	116.5	96.8	130	130	96.8	130	96.8	96.8
42		82.9	130	103.7	130	130	130	128.6	99.9	82.9	128.6	128.6	82.9	130	82.9	82.9
48		72.6	130	90.7	130	130	130	112.5	87.4	72.6	112.5	112.5	72.6	130	72.6	72.6
54	192	64.5	116.5	80.6	116.5	116.5	116.5	100	77.7	64.5	100	100	64.5	116.5	64.5	64.5
60		58.1	104.9	72.6	104.8	104.9	104.9	90	69.9	58.1	90	90	58.1	104.9	58.1	58.1
66		52.8	95.3	66	95.3	95.3	95.3	81.8	63.6	52.8	81.8	81.8	52.8	95.3	52.8	52.8
72		48.4	87.4	60.5	87.4	87.4	87.4	75	58.3	48.4	75	75	48.4	87.4	48.4	48.4
36		93.8	130	117.2	130	130	130	130	112.9	93.8	130	130	93.8	130	93.8	93.8
42		80.4	130	100.4	130	130	130	124.6	96.8	80.4	124.6	124.6	80.4	130	80.4	80.4
48	198	70.3	127	87.9	127	127	127	109	84.7	70.3	109	109	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	96.9	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	87.2	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	79.3	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	72.7	46.9	84.7	46.9	46.9
36		90.9	130	113.6	130	130	130	130	109.5	90.9	130	130	90.9	130	90.9	90.9
42	204	77.9	130	97.4	130	130	130	120.8	93.8	77.9	120.8	120.8	77.9	130	77.9	77.9
48		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
54		60.6	109.5	75.8	109.4	109.4	109.5	93.9	73	60.6	93.9	93.9	60.6	109.5	60.6	60.6
60		54.5	98.5	68.2	98.5	98.5	98.5	84.5	65.7	54.5	84.5	84.5	54.5	98.5	54.5	54.5
66		49.6	89.6	62	89.5	89.5	89.6	76.9	59.7	49.6	76.9	76.9	49.6	89.6	49.6	49.6
72		45.5	82.1	56.8	82.1	82.1	82.1	70.5	54.7	45.5	70.5	70.5	45.5	82.1	45.5	45.5
36	210	88.2	130	110.3	130	130	130	130	106.2	88.2	130	130	88.2	130	88.2	88.2
42		75.6	130	94.5	130	130	130	117.2	91.1	75.6	117.2	117.2	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	102.6	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	91.2	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	82.1	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	74.6	48.1	86.9	48.1	48.1
72	210	44.1	79.7	55.1	79.7	79.7	79.7	68.4	53.1	44.1	68.4	68.4	44.1	79.7	44.1	44.1
36		85.7	130	107.1	130	130	130	130	103.2	85.7	130	130	85.7	130	85.7	85.7
42		73.5	130	91.8	130	130	130	113.9	88.5	73.5	113.9	113.9	73.5	130	73.5	73.5
48		64.3	116.1	80.4	116.1	116.1	116.1	99.6	77.4	64.3	99.6	99.6	64.3	116.1	64.3	64.3
54		57.1	103.2	71.4	103.2	103.2	103.2	88.6	68.8	57.1	88.6	88.6	57.1	103.2	57.1	57.1
60		51.4	92.9	64.3	92.9	92.9	92.9	79.7	61.9	51.4	79.7	79.7	51.4	92.9	51.4	51.4
66	210	46.8	84.4	58.4	84.4	84.4	84.4	72.5	56.3	46.8	72.5	72.5	46.8	84.4	46.8	46.8
72		42.9	77.4	53.6	77.4	77.4	77.4	66.4	51.6	42.9	66.4	66.4	42.9	77.4	42.9	42.9

NOTE:

1. REFER TO SECTION 7.0 THRU 7.6 FOR DETAILS OF ANCHOR REQUIREMENTS. AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'
2. SEE SECTION 2, TWIN SPAN ELEVATION FOR LOCATION OF F-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.L.O.

MAX. ANCHOR CAPACITY FOR SINGLE SPAN - 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	216	83.3	130	104.2	130	130	130	129.2	100.3	83.3	129.2	129.2	83.3	130	83.3	83.3
42		71.4	129	89.3	129	129	129	110.7	86	71.4	110.7	110.7	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	96.9	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	86.1	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	77.5	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	70.5	45.5	82.1	45.5	45.5
72	222	41.7	75.3	52.1	75.2	75.2	75.3	64.6	50.2	41.7	64.6	64.6	41.7	75.3	41.7	41.7
36		81.1	130	101.4	130	130	130	125.7	97.6	81.1	125.7	125.7	81.1	130	81.1	81.1
42		69.5	125.5	86.9	125.5	125.5	125.5	107.7	83.7	69.5	107.7	107.7	69.5	125.5	69.5	69.5
48		60.8	109.8	76	109.8	109.8	109.8	94.3	73.2	60.8	94.3	94.3	60.8	109.8	60.8	60.8
54		54.1	97.6	67.6	97.6	97.6	97.6	83.8	65.1	54.1	83.8	83.8	54.1	97.6	54.1	54.1
60		48.6	87.9	60.8	87.8	87.8	87.9	75.4	58.6	48.6	75.4	75.4	48.6	87.9	48.6	48.6
66	228	44.2	79.9	55.3	79.9	79.9	79.9	68.6	53.2	44.2	68.6	68.6	44.2	79.9	44.2	44.2
72		40.5	73.2	50.7	73.2	73.2	73.2	62.8	48.8	40.5	62.8	62.8	40.5	73.2	40.5	40.5
36		78.9	130	98.7	130	130	130	122.4	95.1	78.9	122.4	122.4	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	104.9	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	91.8	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	81.6	52.6	95.1	52.6	52.6
60	234	47.4	85.6	59.2	85.5	85.5	85.6	73.4	57	47.4	73.4	73.4	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	66.7	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	61.2	39.5	71.3	39.5	39.5
36		76.9	130	96.2	130	130	130	119.2	92.6	76.9	119.2	119.2	76.9	130	76.9	76.9
42		65.9	119.1	82.4	119	119.1	119.1	102.2	79.4	65.9	102.2	102.2	65.9	119.1	65.9	65.9
48		57.7	104.2	72.1	104.2	104.2	104.2	89.4	69.5	57.7	89.4	89.4	57.7	104.2	57.7	57.7
54	240	51.3	92.6	64.1	92.6	92.6	92.6	79.5	61.7	51.3	79.5	79.5	51.3	92.6	51.3	51.3
60		46.2	83.4	57.7	83.3	83.3	83.4	71.5	55.6	46.2	71.5	71.5	46.2	83.4	46.2	46.2
66		42	75.8	52.4	75.8	75.8	75.8	65	50.5	42	65	65	42	75.8	42	42
72		38.5	69.5	48.1	69.4	69.5	69.5	59.6	46.3	38.5	59.6	59.6	38.5	69.5	38.5	38.5
36		75	130	93.8	130	130	130	116.3	90.3	75	116.3	116.3	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	99.6	64.3	116.1	64.3	64.3
48	246	56.3	101.6	70.3	101.6	101.6	101.6	87.2	67.7	56.3	87.2	87.2	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	77.5	50	90.3	50	50
60		45	81.3	56.3	81.3	81.3	81.3	69.8	54.2	45	69.8	69.8	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	63.4	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	58.1	37.5	67.7	37.5	37.5
36		73.2	130	91.5	130	130	130	113.4	88.1	73.2	113.4	113.4	73.2	130	73.2	73.2
42	246	62.7	113.3	78.4	113.2	113.3	113.3	97.2	75.5	62.7	97.2	97.2	62.7	113.3	62.7	62.7
48		54.9	99.1	68.6	99.1	99.1	99.1	85.1	66.1	54.9	85.1	85.1	54.9	99.1	54.9	54.9
54		48.8	88.1	61	88.1	88.1	88.1	75.6	58.7	48.8	75.6	75.6	48.8	88.1	48.8	48.8
60		43.9	79.3	54.9	79.3	79.3	79.3	68	52.9	43.9	68	68	43.9	79.3	43.9	43.9
66		39.9	72.1	49.9	72.1	72.1	72.1	61.9	48.1	39.9	61.9	61.9	39.9	72.1	39.9	39.9
72		36.6	66.1	45.7	66.1	66.1	66.1	56.7	44	36.6	56.7	56.7	36.6	66.1	36.6	36.6

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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	113.7	62.9	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	104.2	57.7	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

- NOTE:
1. REFER TO SECTION 7.0 THRU 7.6 FOR DETAILS OF ANCHOR REQUIREMENTS. AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'
2. SEE SECTION 2, TWIN SPAN ELEVATION FOR LOCATION OF F-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.I.O.

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
36	156	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
42		49.5	89.3	61.8	89.3	89.3	89.3	76.6	59.5	49.5	76.6	49.5	49.5	89.3	49.5	49.5
48		43.3	78.2	54.1	78.1	78.1	78.2	67.1	52.1	43.3	67.1	43.3	43.3	78.2	43.3	43.3
54		38.5	69.5	48.1	69.4	69.5	69.5	59.6	46.3	38.5	59.6	38.5	38.5	69.5	38.5	38.5
60		34.6	62.5	43.3	62.5	62.5	62.5	53.7	41.7	34.6	53.7	34.6	34.6	62.5	34.6	34.6
66		31.5	56.8	39.3	56.8	56.8	56.8	48.8	37.9	31.5	48.8	31.5	31.5	56.8	31.5	31.5
72		28.8	52.1	36.1	52.1	52.1	52.1	44.7	34.7	28.8	44.7	28.8	28.8	52.1	28.8	28.8
36	162	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
42		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
48		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
54		37	66.9	46.3	66.9	66.9	66.9	57.4	44.6	37	57.4	37	37	66.9	37	37
60		33.3	60.2	41.7	60.2	60.2	60.2	51.7	40.1	33.3	51.7	33.3	33.3	60.2	33.3	33.3
66		30.3	54.7	37.9	54.7	54.7	54.7	47	36.5	30.3	47	30.3	30.3	54.7	30.3	30.3
72		27.8	50.2	34.7	50.2	50.2	50.2	43.1	33.4	27.8	43.1	27.8	27.8	50.2	27.8	27.8

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SINGLE SPAN & MULTI SPAN
F ANCHOR CAPACITIES WHEN USED AT DOOR JAMB TO SIDELITE LOCATIONS (CONT.)

MAX. ANCHOR CAPACITY FOR SINGLE SPAN - 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	168	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
42		45.9	82.9	57.4	82.9	82.9	82.9	71.2	55.3	45.9	71.2	45.9	45.9	82.9	45.9	45.9
48		40.2	72.6	50.2	72.5	72.6	72.6	62.3	48.4	40.2	62.3	40.2	40.2	72.6	40.2	40.2
54		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
60		32.1	58.1	40.2	58	58	58.1	49.8	38.7	32.1	49.8	32.1	32.1	58.1	32.1	32.1
66		29.2	52.8	36.5	52.8	52.8	52.8	45.3	35.2	29.2	45.3	29.2	29.2	52.8	29.2	29.2
72	174	26.8	48.4	33.5	48.4	48.4	48.4	41.5	32.3	26.8	41.5	26.8	26.8	48.4	26.8	26.8
36		51.7	93.4	64.7	93.4	93.4	93.4	80.2	62.3	51.7	80.2	51.7	51.7	93.4	51.7	51.7
42		44.3	80.1	55.4	80	80.1	80.1	68.7	53.4	44.3	68.7	44.3	44.3	80.1	44.3	44.3
48		38.8	70.1	48.5	70	70.1	70.1	60.1	46.7	38.8	60.1	38.8	38.8	70.1	38.8	38.8
54		34.5	62.3	43.1	62.3	62.3	62.3	53.4	41.5	34.5	53.4	34.5	34.5	62.3	34.5	34.5
60		31	56.1	38.8	56	56	56.1	48.1	37.4	31	48.1	31	31	56.1	31	31
66	180	28.2	51	35.3	50.9	50.9	51	43.7	34	28.2	43.7	28.2	28.2	51	28.2	28.2
72		25.9	46.7	32.3	46.7	46.7	46.7	40.1	31.1	25.9	40.1	25.9	25.9	46.7	25.9	25.9
36		50	90.3	62.5	90.3	90.3	90.3	77.5	60.2	50	77.5	50	50	90.3	50	50
42		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
48		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
54		33.3	60.2	41.7	60.2	60.2	60.2	51.7	40.1	33.3	51.7	33.3	33.3	60.2	33.3	33.3
60	186	30	54.2	37.5	54.2	54.2	54.2	46.5	36.1	30	46.5	30	30	54.2	30	30
66		27.3	49.3	34.1	49.2	49.2	49.3	42.3	32.8	27.3	42.3	27.3	27.3	49.3	27.3	27.3
72		25	45.2	31.3	45.1	45.1	45.2	38.8	30.1	25	38.8	25	25	45.2	25	25
36		48.4	87.4	60.5	87.4	87.4	87.4	75	58.3	48.4	75	48.4	48.4	87.4	48.4	48.4
42		41.5	74.9	51.8	74.9	74.9	74.9	64.3	49.9	41.5	64.3	41.5	41.5	74.9	41.5	41.5
48		36.3	65.5	45.4	65.5	65.5	65.5	56.3	43.7	36.3	56.3	36.3	36.3	65.5	36.3	36.3
54	192	32.3	58.3	40.3	58.2	58.3	58.3	50	38.8	32.3	50	32.3	32.3	58.3	32.3	32.3
60		29	52.4	36.3	52.4	52.4	52.4	45	35	29	45	29	29	52.4	29	29
66		26.4	47.7	33	47.7	47.7	47.7	40.9	31.8	26.4	40.9	26.4	26.4	47.7	26.4	26.4
72		24.2	43.7	30.2	43.7	43.7	43.7	37.5	29.1	24.2	37.5	24.2	24.2	43.7	24.2	24.2
36		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
42		40.2	72.6	50.2	72.5	72.6	72.6	62.3	48.4	40.2	62.3	40.2	40.2	72.6	40.2	40.2
48	198	35.2	63.5	43.9	63.5	63.5	63.5	54.5	42.3	35.2	54.5	35.2	35.2	63.5	35.2	35.2
54		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
60		28.1	50.8	35.2	50.8	50.8	50.8	43.6	33.9	28.1	43.6	28.1	28.1	50.8	28.1	28.1
66		25.6	46.2	32	46.2	46.2	46.2	39.6	30.8	25.6	39.6	25.6	25.6	46.2	25.6	25.6
72		23.4	42.3	29.3	42.3	42.3	42.3	36.3	28.2	23.4	36.3	23.4	23.4	42.3	23.4	23.4
36		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
42	204	39	70.4	48.7	70.3	70.4	70.4	60.4	46.9	39	60.4	39	39	70.4	39	39
48		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
54		30.3	54.7	37.9	54.7	54.7	54.7	47	36.5	30.3	47	30.3	30.3	54.7	30.3	30.3
60		27.3	49.3	34.1	49.2	49.2	49.3	42.3	32.8	27.3	42.3	27.3	27.3	49.3	27.3	27.3
66		24.8	44.8	31	44.8	44.8	44.8	38.4	29.9	24.8	38.4	24.8	24.8	44.8	24.8	24.8
72		22.7	41.1	28.4	41	41	41.1	35.2	27.4	22.7	35.2	22.7	22.7	41.1	22.7	22.7
36	204	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
42		37.8	68.3	47.3	68.3	68.3	68.3	58.6	45.5	37.8	58.6	37.8	37.8	68.3	37.8	37.8
48		33.1	59.8	41.4	59.7	59.8	59.8	51.3	39.8	33.1	51.3	33.1	33.1	59.8	33.1	33.1
54		29.4	53.1	36.8	53.1	53.1	53.1	45.6	35.4	29.4	45.6	29.4	29.4	53.1	29.4	29.4
60		26.5	47.8	33.1	47.8	47.8	47.8	41	31.9	26.5	41	26.5	26.5	47.8	26.5	26.5
66		24.1	43.5	30.1	43.4	43.5	43.5	37.3	29	24.1	37.3	24.1	24.1	43.5	24.1	24.1
72		22.1	39.8	27.6	39.8	39.8	39.8	34.2	26.6	22.1	34.2	22.1	22.1	39.8	22.1	22.1

MAX. ANCHOR CAPACITY FOR SINGLE SPAN - 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	210	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
42		36.7	66.4	45.9	66.3	66.3	66.4	56.9	44.2	36.7	56.9	36.7	36.7	66.4	36.7	36.7
48		32.1	58.1	40.2	58	58	58.1	49.8	38.7	32.1	49.8	32.1	32.1	58.1	32.1	32.1
54		28.6	51.6	35.7	51.6	51.6	51.6	44.3	34.4	28.6	44.3	28.6	28.6	51.6	28.6	28.6
60		25.7	46.4	32.1	46.4	46.4	46.4	39.9	31	25.7	39.9	25.7	25.7	46.4	25.7	25.7
66		23.4	42.2	29.2	42.2	42.2	42.2	36.2	28.1	23.4	36.2	23.4	23.4	42.2	23.4	23.4
72	216	21.4	38.7	26.8	38.7	38.7	38.7	33.2	25.8	21.4	33.2	21.4	21.4	38.7	21.4	21.4
36		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
42		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
48		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
54		27.8	50.2	34.7	50.2	50.2	50.2	43.1	33.4	27.8	43.1	27.8	27.8	50.2	27.8	27.8
60		25	45.2	31.3	45.1	45.1	45.2	38.8	30.1	25	38.8	25	25	45.2	25	25
66	222	22.7	41.1	28.4	41	41	41.1	35.2	27.4	22.7	35.2	22.7	22.7	41.1	22.7	22.7
72		20.8	37.6	26	37.6	37.6	37.6	32.3	25.1	20.8	32.3	20.8	20.8	37.6	20.8	20.8
36		40.5	73.2	50.7	73.2	73.2	73.2	62.8	48.8	40.5	62.8	40.5	40.5	73.2	40.5	40.5
42		34.7	62.8	43.4	62.7	62.7	62.8	53.9	41.8	34.7	53.9	34.7	34.7	62.8	34.7	34.7
48		30.4	54.9	38	54.9	54.9	54.9	47.1	36.6	30.4	47.1	30.4	30.4	54.9	30.4	30.4
54		27	48.8	33.8	48.8	48.8	48.8	41.9	32.5	27	41.9	27	27	48.8	27	27
60	228	24.3	43.9	30.4	43.9	43.9	43.9	37.7	29.3	24.3	37.7	24.3	24.3	43.9	24.3	24.3
66		22.1	39.9	27.6	39.9	39.9	39.9	34.3	26.6	22.1	34.3	22.1	22.1	39.9	22.1	22.1
72		20.3	36.6	25.3	36.6	36.6	36.6	31.4	24.4	20.3	31.4	20.3	20.3	36.6	20.3	20.3
36		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
42		33.8	61.1	42.3	61.1	61.1	61.1	52.4	40.7	33.8	52.4	33.8	33.8	61.1	33.8	33.8
48		29.6	53.5	37	53.5	53.5	53.5	45.9	35.6	29.6	45.9	29.6	29.6	53.5	29.6	29.6
54	234	26.3	47.5	32.9	47.5	47.5	47.5	40.8	31.7	26.3	40.8	26.3	26.3	47.5	26.3	26.3
60		23.7	42.8	29.6	42.8	42.8	42.8	36.7	28.5	23.7	36.7	23.7	23.7	42.8	23.7	23.7
66		21.5	38.9	26.9	38.9	38.9	38.9	33.4	25.9	21.5	33.4	21.5	21.5	38.9	21.5	21.5
72		19.7	35.6	24.7	35.6	35.6	35.6	30.6	23.8	19.7	30.6	19.7	19.7	35.6	19.7	19.7
36		38.5	69.5	48.1	69.4	69.5	69.5	59.6	46.3	38.5	59.6	38.5	38.5	69.5	38.5	38.5
42		33	59.5	41.2	59.5	59.5	59.5	51.1	39.7	33	51.1	33	33	59.5	33	33
48	240	28.8	52.1	36.1	52.1	52.1	52.1	44.7	34.7	28.8	44.7	28.8	28.8	52.1	28.8	28.8
54		25.6	46.3	32.1	46.3	46.3	46.3	39.7	30.9	25.6	39.7	25.6	25.6	46.3	25.6	25.6
60		23.1	41.7	28.8	41.7	41.7	41.7	35.8	27.8	23.1	35.8	23.1	23.1	41.7	23.1	23.1
66		21	37.9	26.2	37.9	37.9	37.9	32.5	25.3	21	32.5	21	21	37.9	21	21
72		19.2	34.7	24	34.7	34.7	34.7	29.8	23.2	19.2	29.8	19.2	19.2	34.7	19.2	19.2
36		246	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
42	32.1		58.1	40.2	58	58	58.1	49.8	38.7	32.1	49.8	32.1	32.1	58.1	32.1	32.1
48	28.1		50.8	35.2	50.8	50.8	50.8	43.6	33.9	28.1	43.6	28.1	28.1	50.8	28.1	28.1
54	25		45.2	31.3	45.1	45.1	45.2	38.8	30.1	25	38.8	25	25	45.2	25	25
60	22.5		40.6	28.1	40.6	40.6	40.6	34.9	27.1	22.5	34.9	22.5	22.5	40.6	22.5	22.5
66	20.5		36.9	25.6	36.9	36.9	36.9	31.7	24.6	20.5	31.7	20.5	20.5	36.9	20.5	20.5
72	252	18.8	33.9	23.4	33.9	33.9	33.9	29.1	22.6	18.8	29.1	18.8	18.8	33.9	18.8	18.8
36		36.6	66.1	45.7	66.1	66.1	66.1	56.7	44	36.6	56.7	36.6	36.6	66.1	36.6	36.6
42		31.4	56.6	39.2	56.6	56.6	56.6	48.6	37.8	31.4	48.6	31.4	31.4	56.6	31.4	31.4
48		27.4	49.6	34.3	49.5	49.5	49.6	42.5	33	27.4	42.5	27.4	27.4	49.6	27.4	27.4
54		24.4	44.1	30.5	44	44	44.1	37.8	29.4	24.4	37.8	24.4	24.4	44.1	24.4	24.4
60		22	39.6	27.4	39.6	39.6	39.6	34	26.4	22	34	22	22	39.6	22	22
66	258	20	36	24.9	36	36	36	30.9	24	20	30.9	20	20	36	20	20
72		18.3	33	22.9	33	33	33	28.4	22	18.3	28.4	18.3	18.3	33	18.3	18.3

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

NOTE:

1. REFER TO SECTION 7.0 THRU 7.6 FOR DETAILS OF ANCHOR REQUIREMENTS. AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'
2. SEE SECTION 2, TWIN SPAN ELEVATION FOR LOCATION OF F-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.L.O.

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



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 3102

PH: (478)277-1955 FAX: (678)838-6001

TITLE: *YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM*

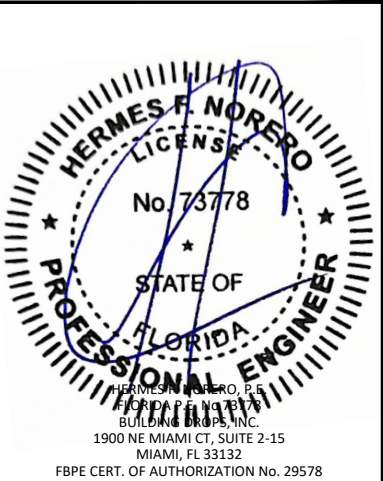
S - ANCHOR DETAILS

PREPARED BY: **BUILDING DROPS, INC.**
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

 **BUILDING DROPS**

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:

FL13433

DATE: 7.17.17

DWG. BY:
AR

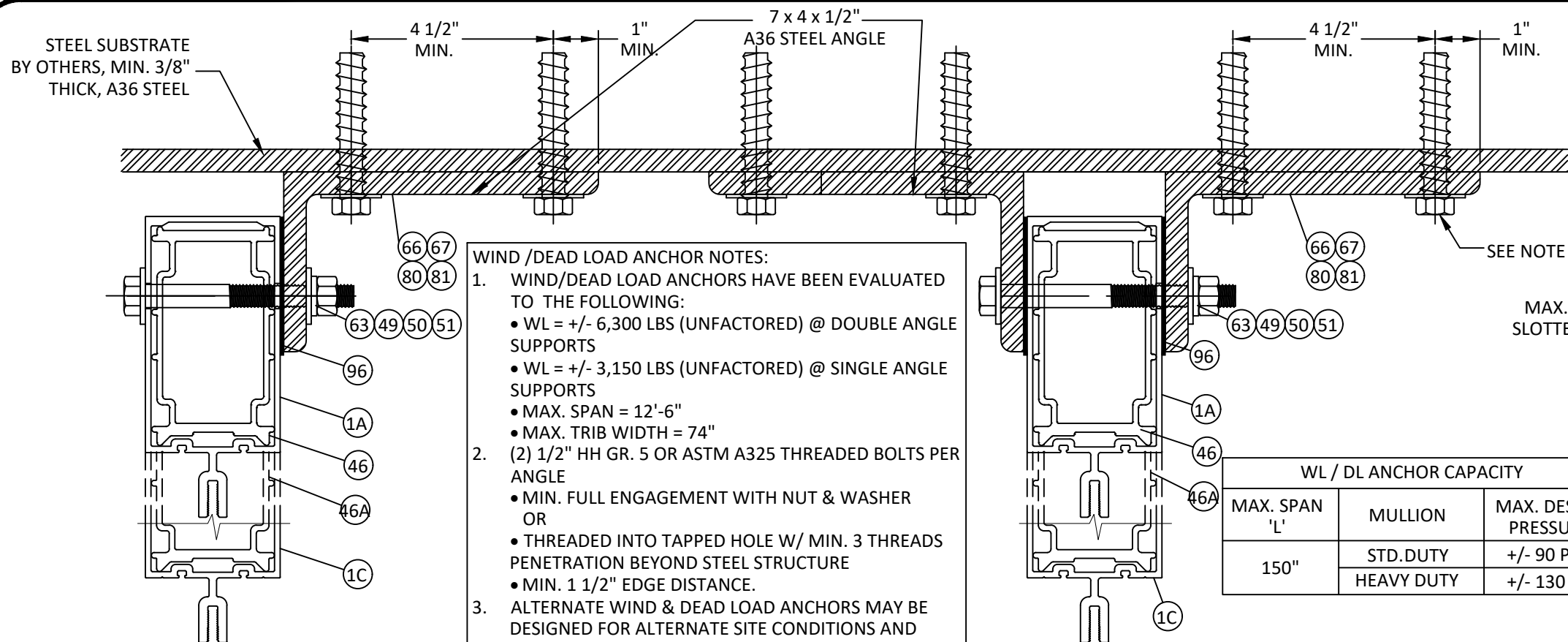
CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK204

SECTION:

7.9

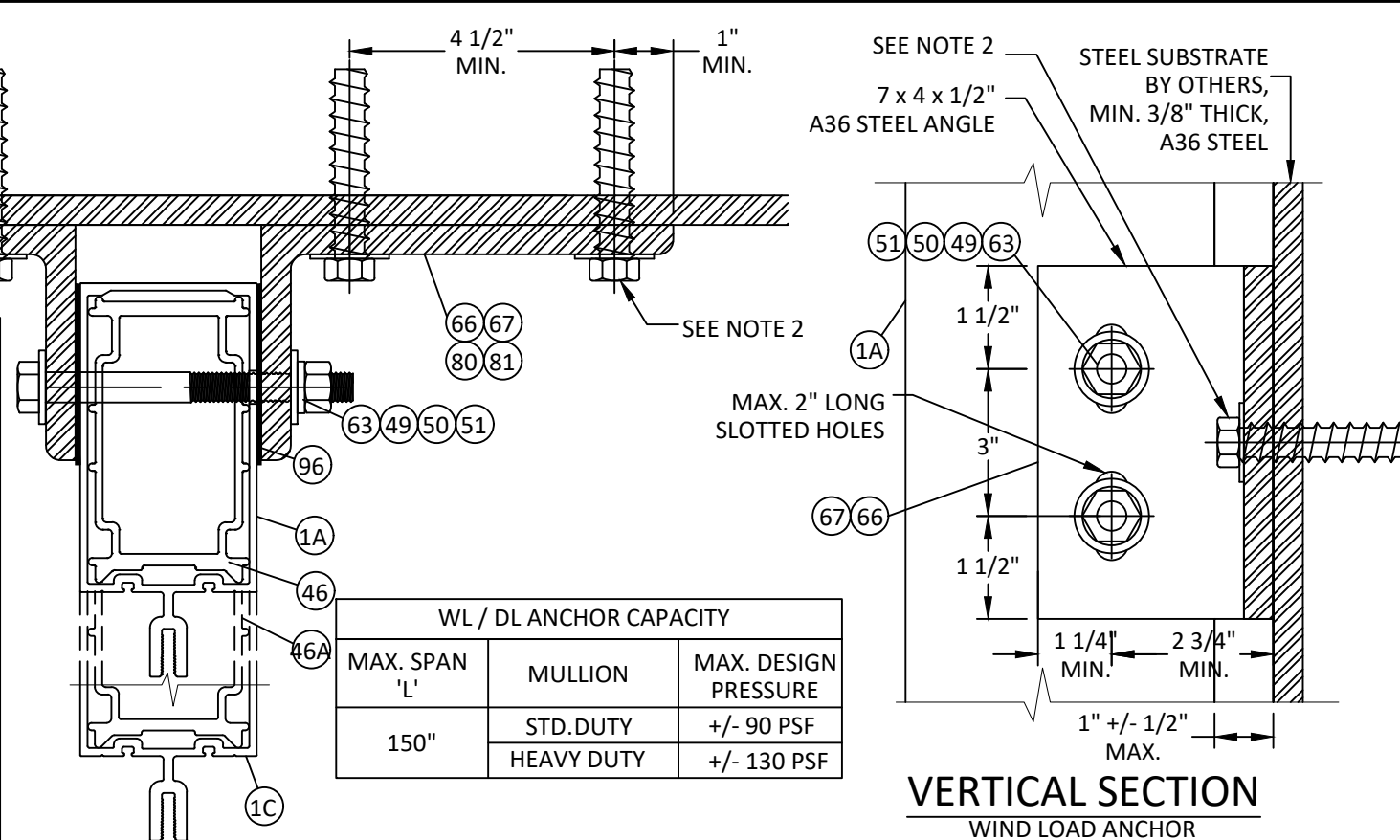


20 HORIZONTAL SECTION

8.1 WIND/DEAD LOAD ANCHOR AT JAMB

WIND /DEAD LOAD ANCHOR NOTES:

1. WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,300 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,150 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"
2. (2) 1/2" HH GR. 5 OR ASTM A325 THREADED BOLTS PER ANGLE
 - MIN. FULL ENGAGEMENT WITH NUT & WASHER OR
 - THREADED INTO TAPPED HOLE W/ MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
 - MIN. 1 1/2" EDGE DISTANCE.
3. ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.



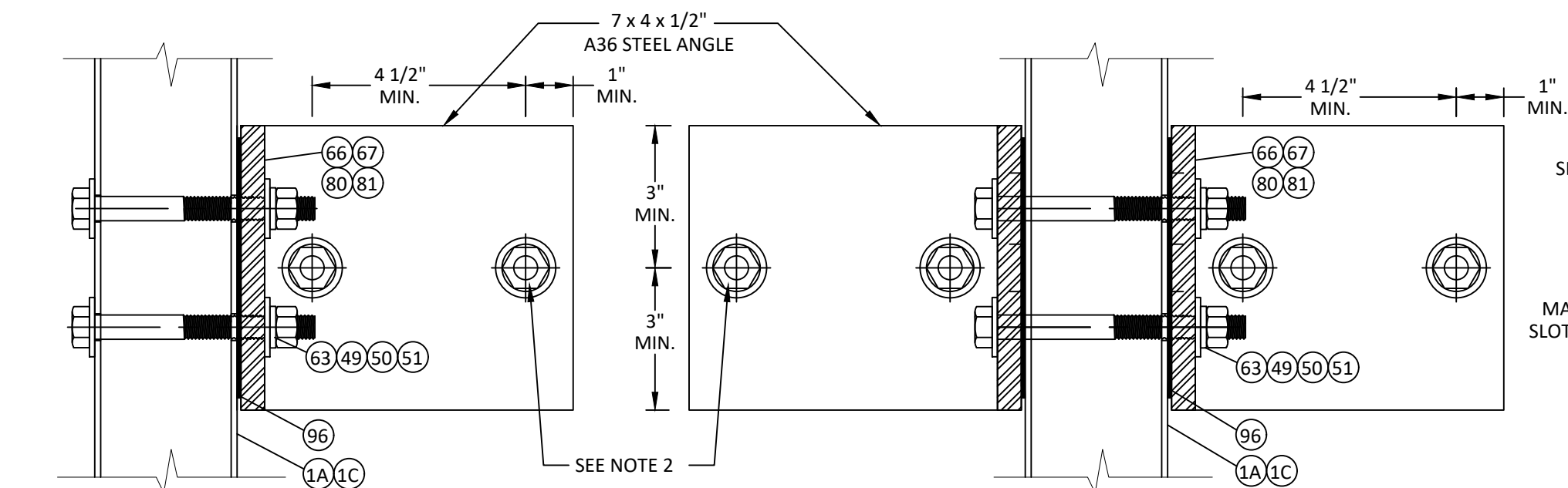
21 HORIZONTAL SECTION

8.1 WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION

WL / DL ANCHOR CAPACITY		
MAX. SPAN 'L'	MULLION	MAX. DESIGN PRESSURE
150"	STD.DUTY	+/- 90 PSF
	HEAVY DUTY	+/- 130 PSF

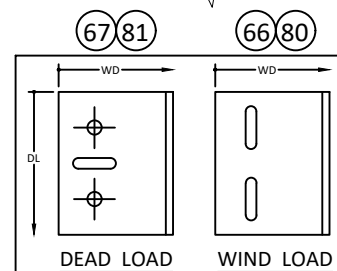
VERTICAL SECTION

WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE
LOW / STANDARD PRESSURE CONNECTION



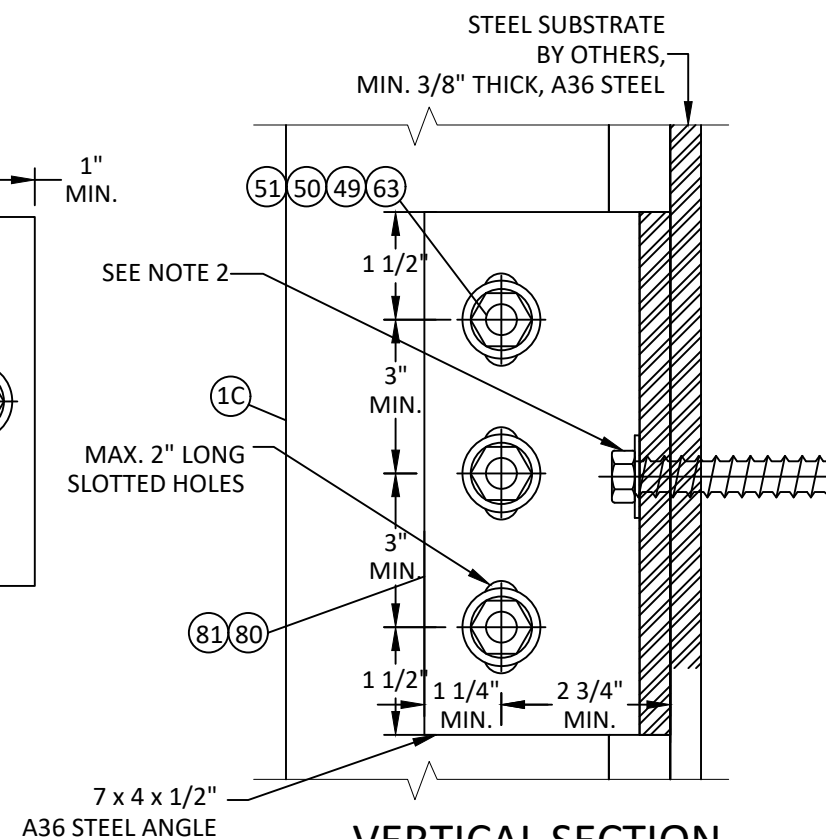
EXTERIOR VIEW

WIND/DEAD LOAD ANCHOR
AT JAMB



EXTERIOR VIEW

WIND/DEAD LOAD ANCHOR
AT VERTICAL MULLION



VERTICAL SECTION

WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE
HIGH PRESSURE CONNECTION

YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

WIND LOAD / DEAD LOAD
ANCHOR DETAILS

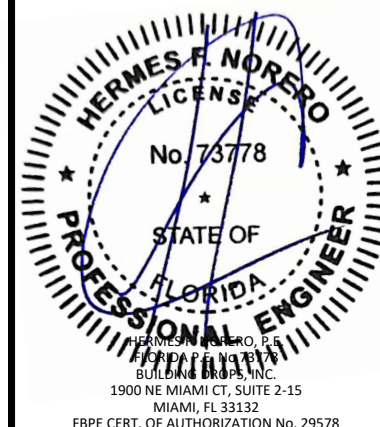
PREPARED BY: BUILDING DROPS, INC.

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:

FL13433

DATE: 7.17.17

DWG. BY: AR	CHK. BY: HFN
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SCALE: NTS

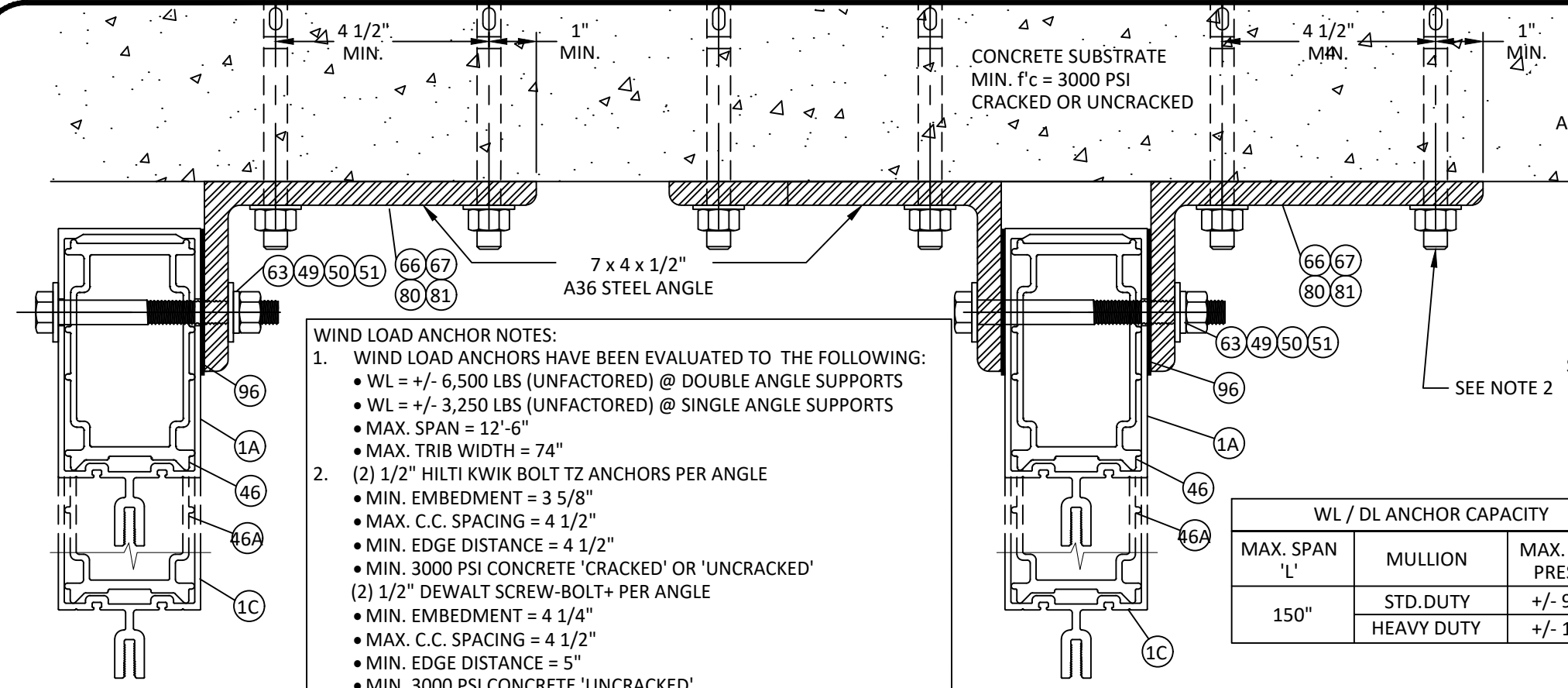
DWG. #: YKK204

SECTION:

8.1

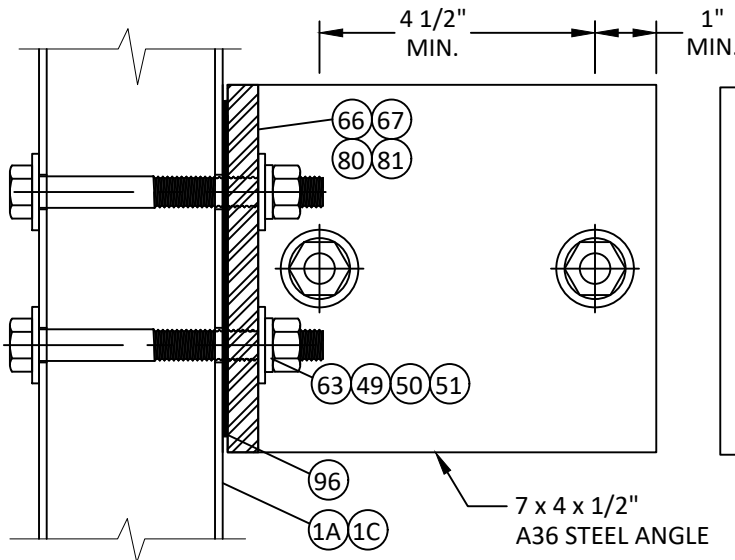
[Page 46 of 59]

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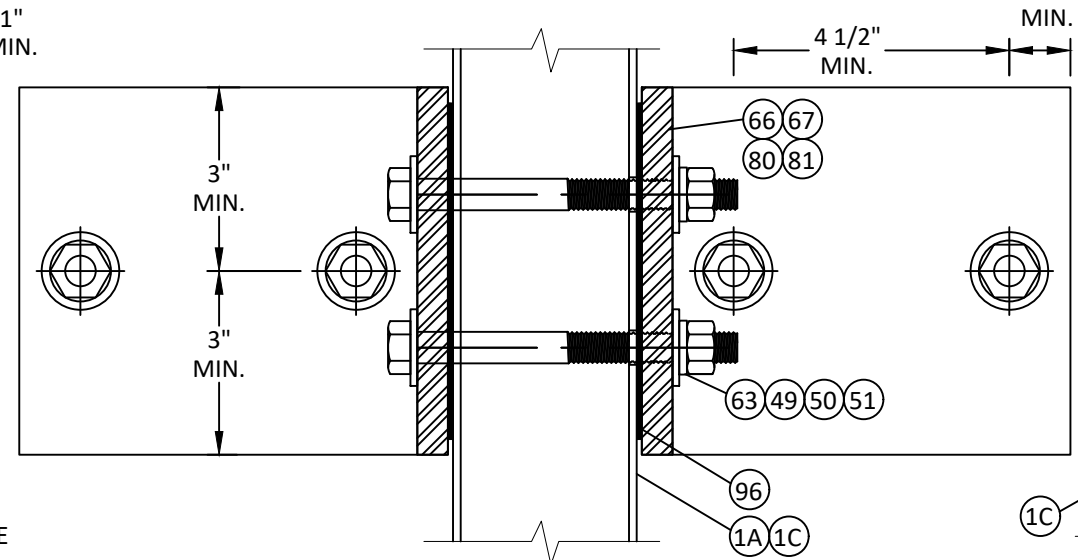


22.2 HORIZONTAL SECTION
WIND/DEAD
LOAD ANCHOR
AT JAMB

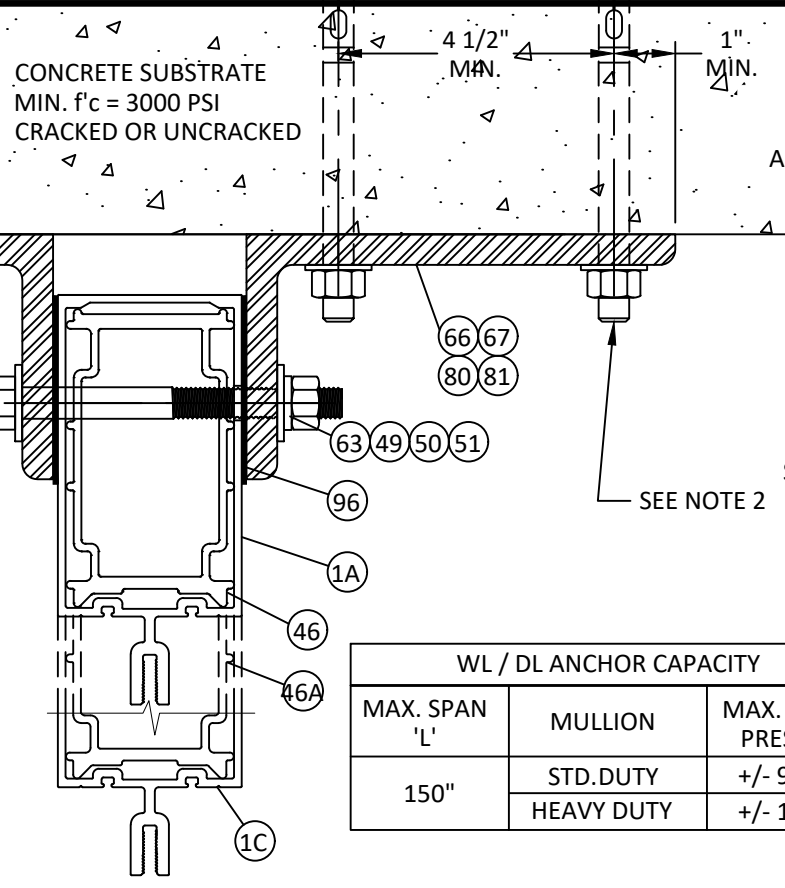
- WIND LOAD ANCHOR NOTES:**
- WIND LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,500 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,250 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"
 - (2) 1/2" HILTI KWIK BOLT TZ ANCHORS PER ANGLE
 - MIN. EMBEDMENT = 3 5/8"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 4 1/2"
 - MIN. 3000 PSI CONCRETE 'CRACKED' OR 'UNCRAKED'(2) 1/2" DEWALT SCREW-BOLT+ PER ANGLE
 - MIN. EMBEDMENT = 4 1/4"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 5"
 - MIN. 3000 PSI CONCRETE 'UNCRAKED'(2) 3/8" SIMPSON TITEN HD PER ANGLE
 - MIN. EMBEDMENT = 3 1/4"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 3 5/8"
 - MIN. 4000 PSI CONCRETE 'CRACKED' OR 'UNCRAKED'
 - FOR SLABS LESS THAN 8" IN THICKNESS, DESIGN MAY BE PROVIDED ON JOB TO JOB BASIS FOR REVIEW & APPROVAL BY AHJ
 - ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.



EXTERIOR VIEW
WIND/DEAD LOAD ANCHOR
AT JAMB

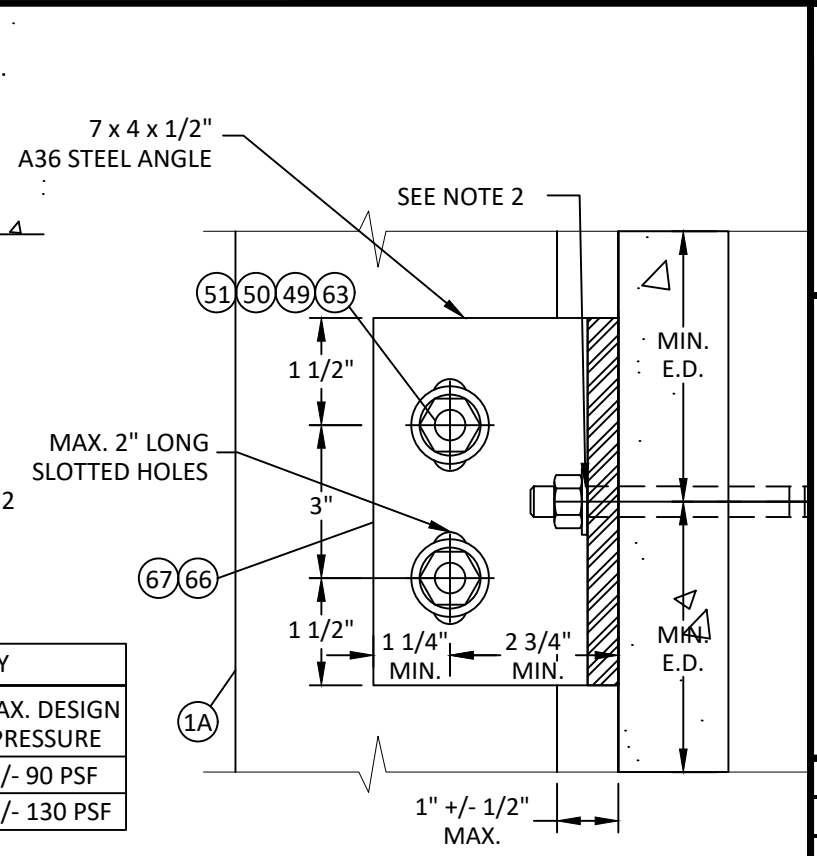


EXTERIOR VIEW
WIND/DEAD LOAD ANCHOR
AT VERTICAL MULLION

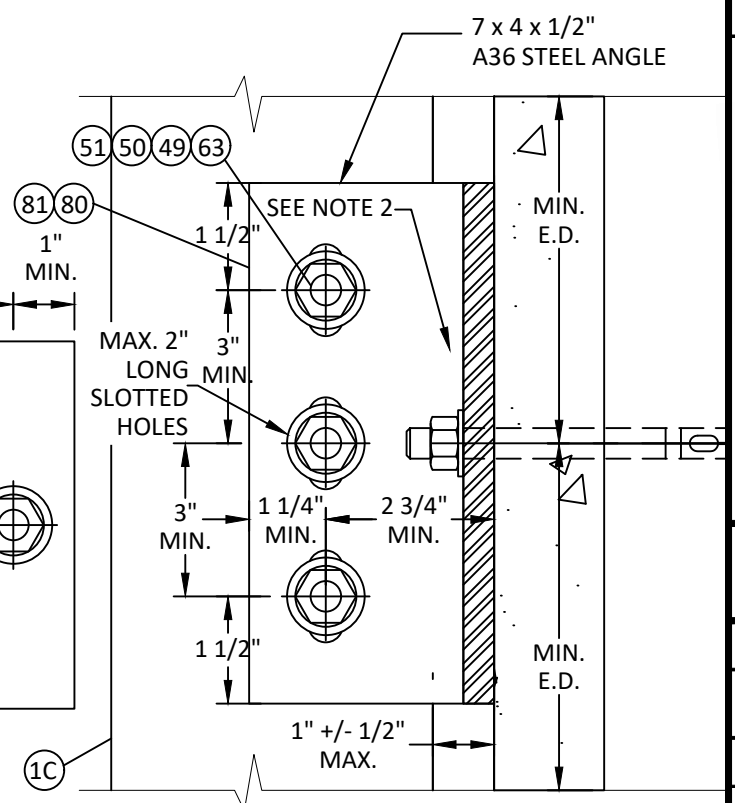


23.8.2 HORIZONTAL SECTION
WIND/DEAD LOAD ANCHOR
AT VERTICAL MULLION

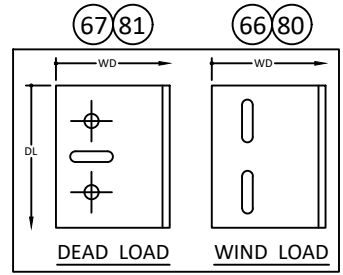
WL / DL ANCHOR CAPACITY		
MAX. SPAN 'L'	MULLION	MAX. DESIGN PRESSURE
150"	STD.DUTY	+/- 90 PSF
	HEAVY DUTY	+/- 130 PSF



VERTICAL SECTION
WIND LOAD ANCHOR (DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE LOW / STAND. PRESSURE CONNECTION



VERTICAL SECTION
WIND/DEAD LOAD ANCHOR AT STEEL SUBSTRATE
(DEAD LOAD ANCHOR SIMILAR)
HIGH PRESSURE CONNECTION





YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

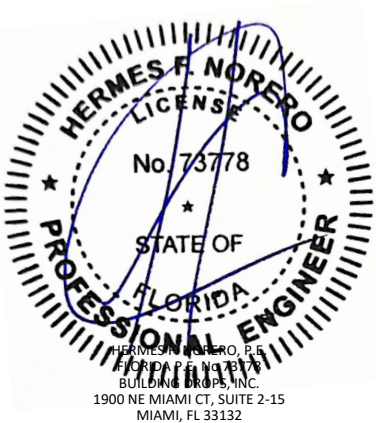
WIND LOAD / DEAD LOAD ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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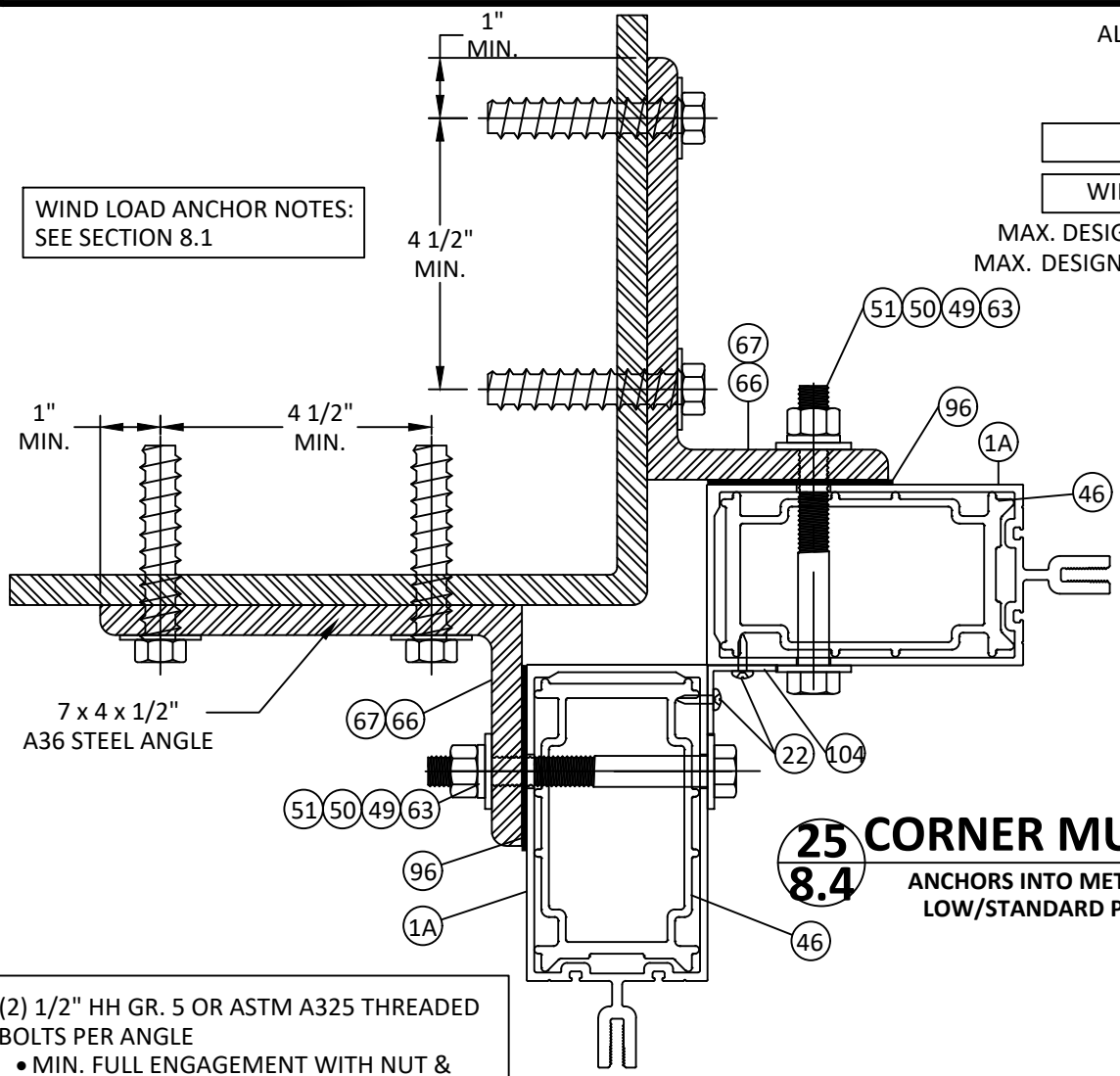


HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL13433
DATE:	7.17.17
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK204
SECTION:	8.2

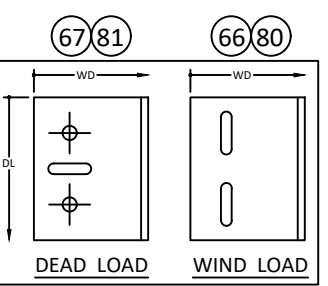
[Page 47 of 59]

c:\users\lucianosanchez\building drops, inc\building drops, inc\projects\ykk ap america, inc\fbc-21-1229-1 - fbc submittal - revisions\dwgs\apc - upload\013433\hvh\ykk 204 - fl13433 dwgs 8 - wind-dead load anchor dtds.dwg 6/2/2026 11:36 AM



(2) 1/2" HH GR. 5 OR ASTM A325 THREADED BOLTS PER ANGLE

- MIN. FULL ENGAGEMENT WITH NUT & WASHER OR
- THREADED INTO TAPPED HOLE W/ MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
- MIN. 1 1/2" EDGE DISTANCE.



EXTERIOR VIEW
WIND / DEAD LOAD ANCHOR
AT JAMB

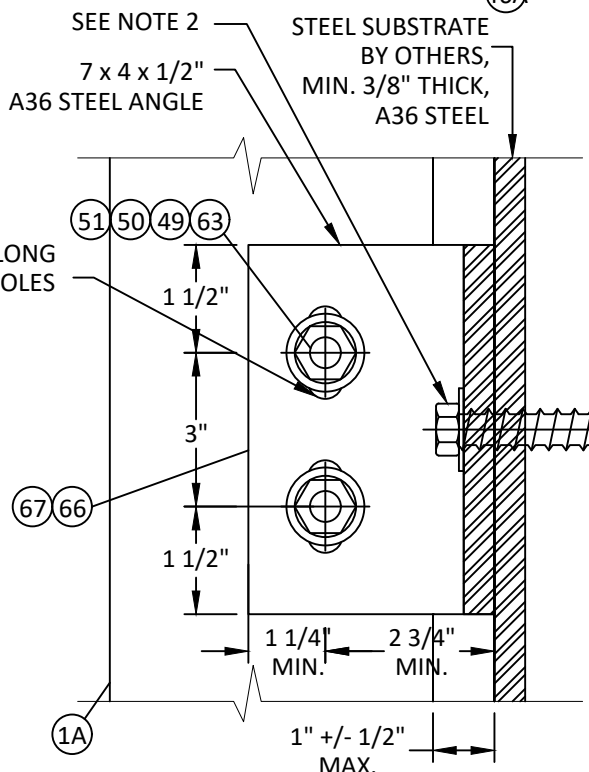
ALL ANGLES AND PLATES
TO BE A-36 STEEL
Fy = 36 KSI MIN.

WIND LOAD ANCHOR

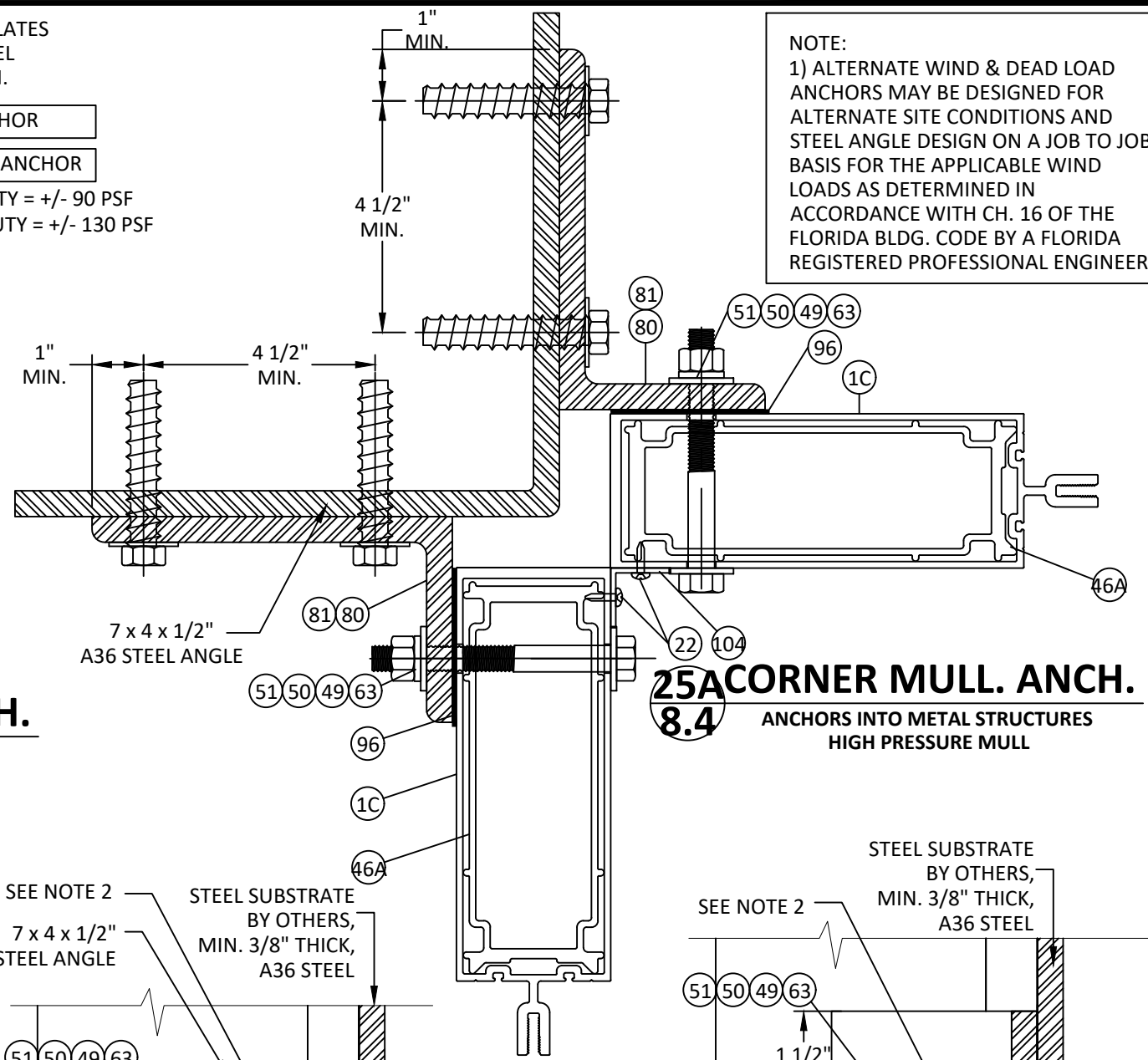
WIND + DEAD LOAD ANCHOR

MAX. DESIGN LOAD STD. DUTY = +/- 90 PSF
MAX. DESIGN LOAD HEAVY. DUTY = +/- 130 PSF

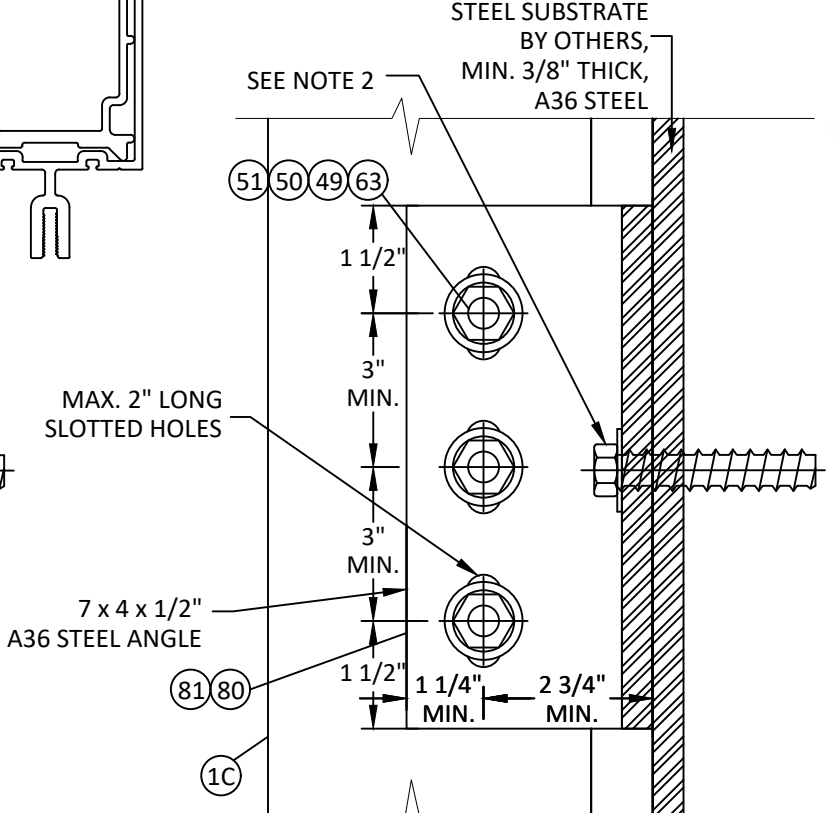
25 CORNER MULL. ANCH.
8.4 ANCHORS INTO METAL STRUCTURES
LOW/STANDARD PRESSURE MULL



VERTICAL SECTION
WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE
LOW / STANDARD PRESSURE CONNECTION



25 CORNER MULL. ANCH.
8.4 ANCHORS INTO METAL STRUCTURES
HIGH PRESSURE MULL



VERTICAL SECTION
WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE
HIGH PRESSURE CONNECTION

NOTE:
1) ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

PREPARED BY: **BUILDING DROPS, INC.**
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
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WEB: www.buildingdrops.com

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL13433
DATE:	7.17.17
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK204
SECTION:	8.4

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1. DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.
2. ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
3. (2) BOLTS (ITEM #63) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLTES AT WIND LOAD ANCHORS.

~~(2) 1/2" DIA. THRU BOLT GRADE 5 WITH WASHER &
NUT 5" C/C SPACING IN ROUND HOLES AT DEAD LOAD
ANCHORS IN 2" LONG SLOTTED HOLES AT WIND
LOAD ANCHORS~~

(2) 3/8" THICK A36 STEEL
GUSSET PLATES
W/ 1/4" X 1" FILLET
WELDS AT 3" O.C., BOTH
SIDES

**ANGLED CORNER
WL OR DL ANCHOR**

(AS SHOWN)

(NOT SHOWN)

70 71

84 85

WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE

1" +/- 1/2"
MAX.

WIND/DEAD LOAD ANCHOR
AT STEEL SUBSTRATE

LOW/ STANDARD/ HIGH PRESSURE CONNECTION

WIND LOAD ANCHOR
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE

PRESSURE CONNECTION

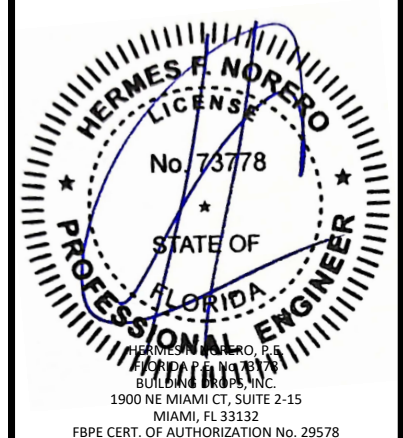
CORNER MULLION ANCHOR TABLE FOR STANDARD DUTY MULLION					
NOMINAL DIMENSIONS		WL ANCHOR	WL ANCHOR	DL+WL ANCHOR	DL+WL ANCHOR
WIDTH (IN.)	HEIGHT (IN.)	TYPE A, C & H 'UNCRACKED'	TYPE A, C & H 'CRACKED'	TYPE A, C & H 'UNCRACKED'	TYPE A, C & H 'CRACKED'
30	108	90.0	90.0	90.0	80.0
36		90.0	78.0	90.0	67.0
42		85.0	66.0	81.0	57.0
48		75.0	58.0	71.0	50.0
54		66.0	52.0	63.0	44.0
60		60.0	46.0	56.0	40.0
30	114	90.0	88.0	90.0	76.0
36		90.0	73.0	89.0	63.0
42		81.0	63.0	77.0	54.0
48		71.0	55.0	67.0	47.0
54		63.0	49.0	59.0	42.0
60		56.0	44.0	53.0	38.0
30	120	90.0	84.0	90.0	72.0
36		90.0	70.0	85.0	60.0
42		77.0	60.0	73.0	52.0
48		67.0	52.0	64.0	45.0
54		60.0	46.0	56.0	40.0
60		54.0	42.0	51.0	36.0
30	126	90.0	80.0	90.0	69.0
36		85.0	66.0	81.0	57.0
42		73.0	57.0	69.0	49.0
48		64.0	50.0	61.0	43.0
54		57.0	44.0	54.0	38.0
60		50.0	38.0	46.0	32.0
30	132	90.0	76.0	90.0	66.0
36		81.0	63.0	77.0	55.0
42		70.0	54.0	66.0	47.0
48		61.0	47.0	58.0	41.0
54		54.0	42.0	51.0	36.0
60		47.0	37.0	44.0	30.0
30	138	90.0	73.0	89.0	63.0
36		78.0	61.0	74.0	52.0
42		67.0	52.0	63.0	45.0
48		58.0	45.0	55.0	39.0
54		50.0	38.0	46.0	32.0
60		43.0	31.0	39.0	25.0
30	144	90.0	70.0	85.0	60.0
36		75.0	58.0	71.0	50.0
42		64.0	50.0	61.0	43.0
48		56.0	43.0	53.0	37.0
54		48.0	36.0	44.0	30.0
60		40.0	29.0	36.0	23.0
30	150	86.0	67.0	82.0	58.0
36		72.0	56.0	68.0	48.0
42		61.0	48.0	58.0	41.0
48		54.0	42.0	51.0	36.0
54		47.0	37.0	44.0	30.0
60		40.0	30.0	36.0	23.0

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1900 NE MIAMI CT, SUITE 2-15

1500 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com



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DATE: 7.17.17

SCALE: NTS

DWG. #: YKK204

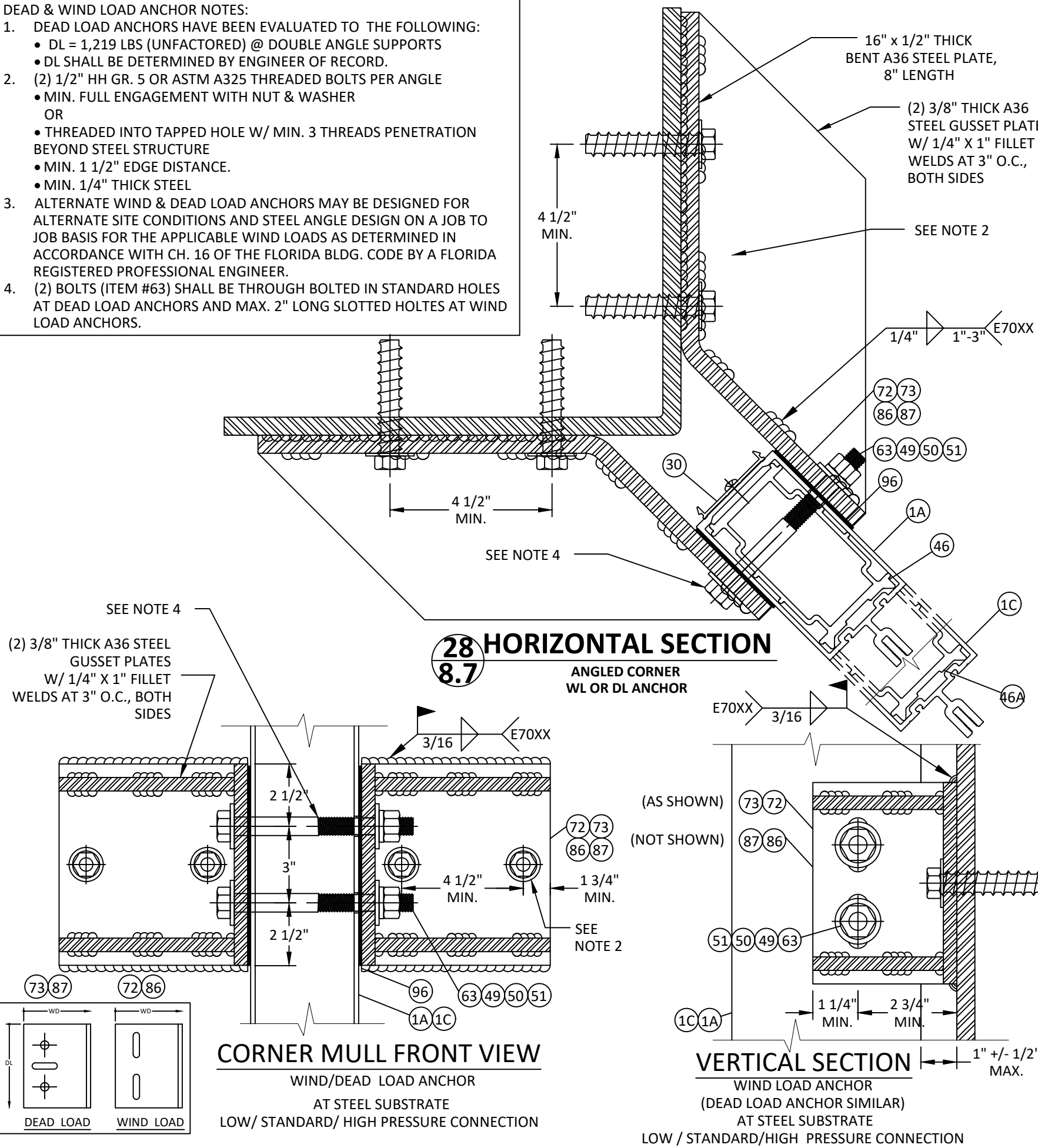
SECTION:

8.6

[Page 51 of 59]

DEAD & WIND LOAD ANCHOR NOTES:

- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.
- (2) 1/2" HH GR. 5 OR ASTM A325 THREADED BOLTS PER ANGLE
 - MIN. FULL ENGAGEMENT WITH NUT & WASHER
 - OR
 - THREADED INTO TAPPED HOLE W/ MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
 - MIN. 1 1/2" EDGE DISTANCE.
 - MIN. 1/4" THICK STEEL
- ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
- (2) BOLTS (ITEM #63) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLTES AT WIND LOAD ANCHORS.



CORNER MULLION ANCHOR TABLE FOR HEAVY DUTY MULLION					
NOMINAL DIMENSIONS		WL ANCHOR	WL ANCHOR	DL+WL ANCHOR	DL+WL ANCHOR
WIDTH (IN.)	HEIGHT (IN.)	TYPE A, C & H 'UNCRACKED'	TYPE A, C & H 'CRACKED'	TYPE A, C & H 'UNCRACKED'	TYPE A, C & H 'CRACKED'
30	108	120.0	93.6	114.0	80.9
36		100.0	78.0	95.0	67.5
42		85.7	66.9	81.4	57.8
48		75.0	58.5	71.3	50.6
54		66.7	52.0	63.3	45.0
60	114	60.0	46.8	57.0	40.5
30		113.7	88.7	108.0	76.7
36		94.7	73.9	90.0	63.9
42		81.2	63.3	77.1	54.8
48		71.1	55.4	67.5	47.9
54	120	63.2	49.3	60.0	42.6
60		56.8	44.3	54.0	38.3
30		108.0	84.2	102.6	72.8
36		90.0	70.2	85.5	60.7
42		77.1	60.2	73.3	52.0
48	126	67.5	52.7	64.1	45.5
54		60.0	46.8	57.0	40.5
60		54.0	42.1	51.3	36.4
30		102.9	80.2	97.7	69.4
36		85.7	66.9	81.4	57.8
42	132	73.5	57.3	69.8	49.6
48		64.3	50.1	61.1	43.4
54		57.1	44.6	54.3	38.5
60		51.4	40.1	48.9	34.7
30		98.2	76.6	93.3	66.2
36	138	81.8	63.8	77.7	55.2
42		70.1	54.7	66.6	47.3
48		61.4	47.9	58.3	41.4
54		54.5	42.5	51.8	36.8
60		49.1	38.3	46.6	33.1
30	144	93.9	73.3	89.2	63.3
36		78.3	61.0	74.3	52.8
42		67.1	52.3	63.7	45.2
48		58.7	45.8	55.8	39.6
54		52.2	40.7	49.6	35.2
60	150	47.0	36.6	44.6	31.7
30		90.0	70.2	85.5	60.7
36		75.0	58.5	71.3	50.6
42		64.3	50.1	61.1	43.4
48		56.3	43.9	53.4	37.9
54		50.0	39.0	47.5	33.7
60		45.0	35.1	42.8	30.4
30		86.4	67.4	82.1	58.3
36		72.0	56.2	68.4	48.6
42		61.7	48.1	58.6	41.6
48		54.0	42.1	51.3	36.4
54		48.0	37.4	45.6	32.4
60		43.2	33.7	41.0	29.1

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DUBLIN, GEORGIA 31021
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TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL13433

DATE:
7.17.17

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AR

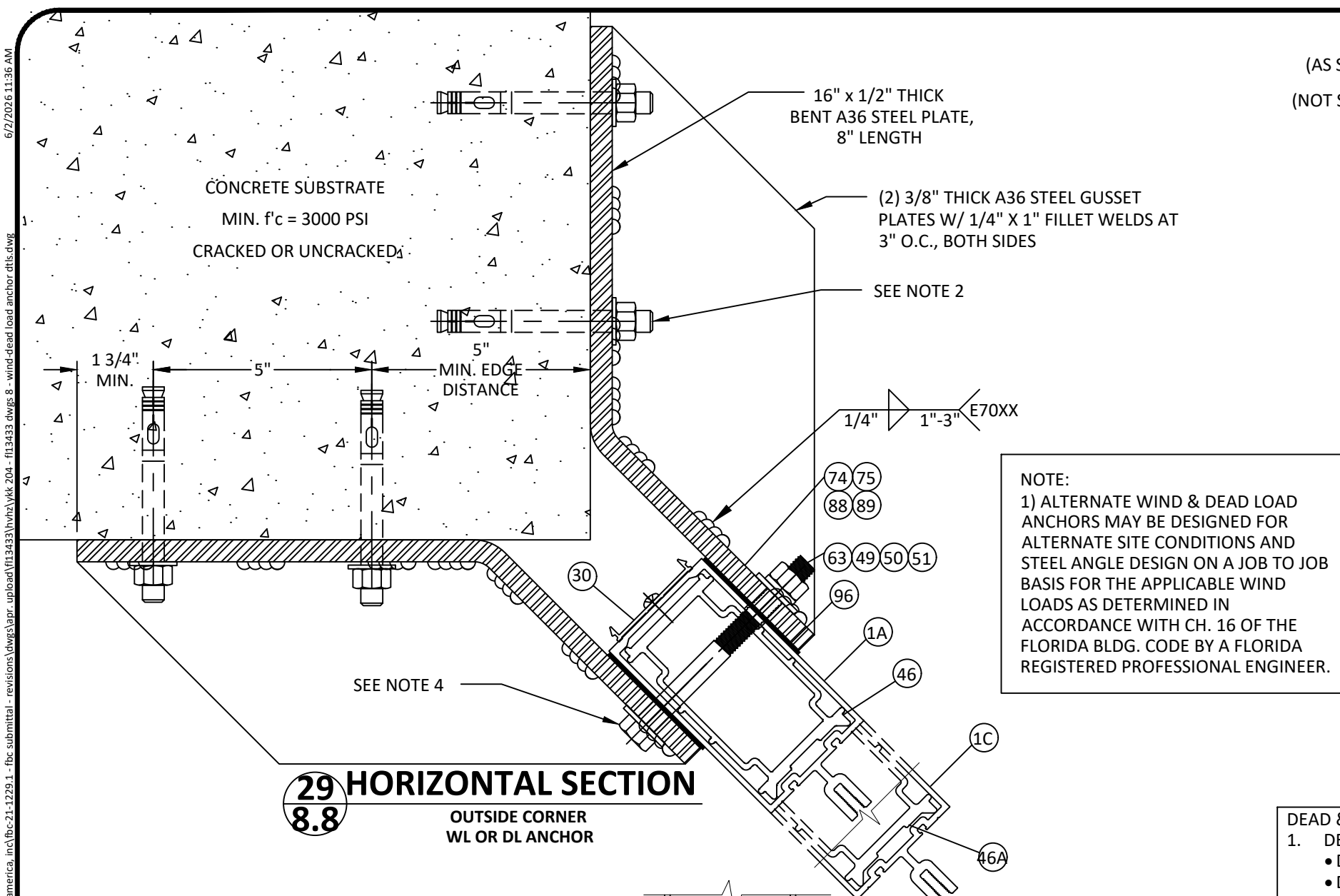
CHK. BY:
HFN

SCALE:
NTS

DWG. #:
YKK204

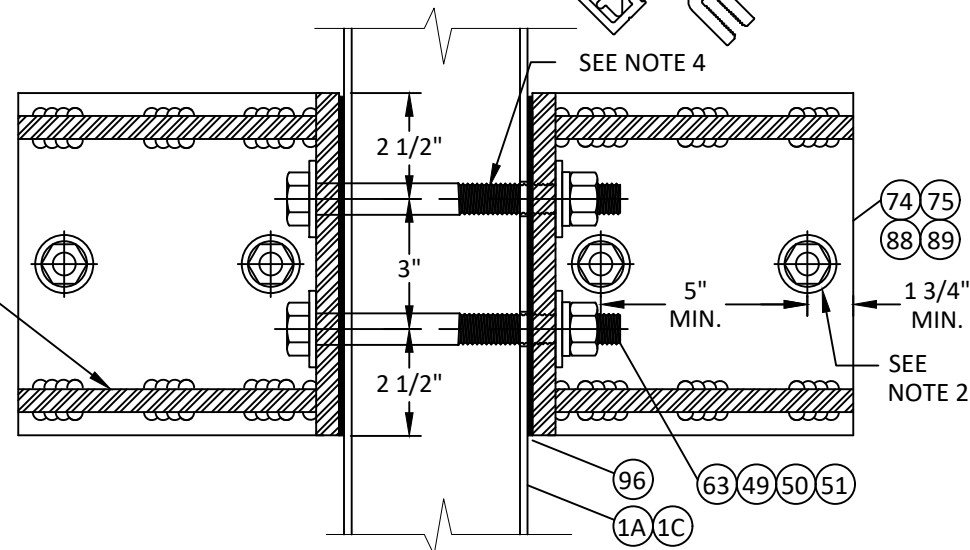
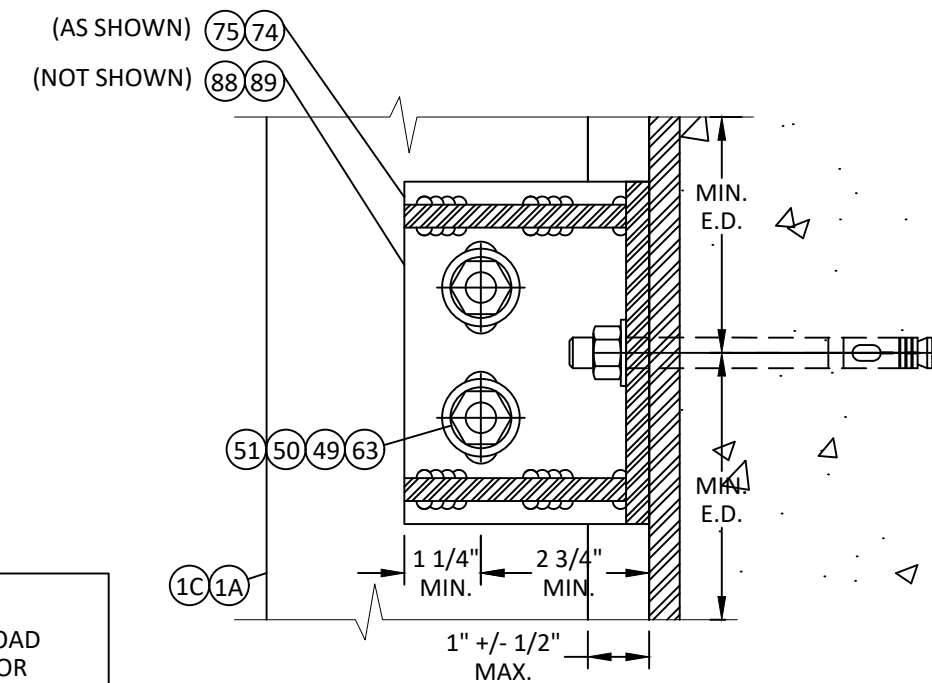
SECTION:
8.7

[Page 52 of 59]



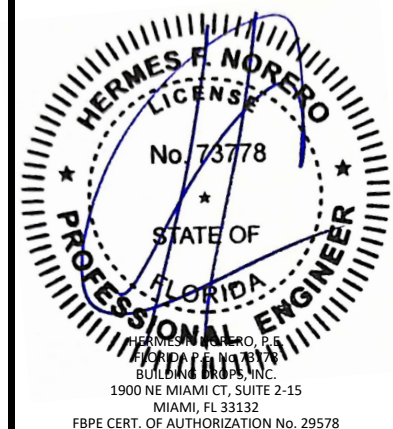
VERTICAL SECTION

LOW / STANDARD/HIGH PRESSURE CONNECTION



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SECTION:

8.8

[Page 53 of 59]

WIND/DEAD LOAD TABLES
STANDARD DUTY MULLION

WIND/DEAD LOAD TABLES
HEAVY DUTY MULLION

WIND LOAD FOR STD MULLION			
NOMINAL DIMENSIONS		ANCHOR TYPE A, C & H 'UNCRACKED'	ANCHOR TYPE A, C & H 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)		
30	108	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60		90.0	85.3
30	114	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	89.8
60		90.0	80.8
30	120	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	85.3
60		88.8	76.8
30	126	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	80.3
30	132	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	87.3
54		89.7	77.6
30	138	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	83.5
30	144	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	80.0
30	150	90.0	90.0
36		90.0	90.0
42		90.0	87.8
48		88.8	76.8

WIND + DEAD LOAD FOR STD MULLION			
NOMINAL DIMENSIONS		ANCHOR TYPE A, C & H 'UNCRACKED'	ANCHOR TYPE A, C & H 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)		
30	108	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	85.9
60		90.0	77.3
30	114	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	81.4
60		85.4	73.3
30	120	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	87.0
54		90.0	77.3
60		81.1	69.6
30	126	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	82.9
54		85.8	73.7
30	132	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	79.1
54		81.9	70.3
30	138	90.0	90.0
36		90.0	90.0
42		90.0	86.5
48		88.2	75.7
30	144	90.0	90.0
36		90.0	90.0
42		90.0	82.0
48		84.5	72.5
30	150	90.0	90.0
36		90.0	90.0
42		90.0	79.5
48		80.1	69.6

WIND LOAD FOR HD MULLION			
NOMINAL DIMENSIONS		ANCHOR TYPE A, C & H 'UNCRACKED'	ANCHOR TYPE A, C & H 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)		
30	108	130.0	130.0
36		130.0	130.0
42		130.0	121.9
48		123.3	106.7
54		109.6	94.8
60		98.7	85.3
66		89.7	77.6
72		82.2	71.1
30	114	130.0	130.0
36		130.0	130.0
42		130.0	115.5
48		116.8	101.1
54		103.9	89.8
60		93.5	80.8
66		85.0	73.5
72		77.9	67.4
30	120	130.0	130.0
36		130.0	128.0
42		126.9	109.7
48		111.0	96.0
54		98.7	85.3
60		88.8	76.8
66		80.7	69.8
72		74.0	64.0
30	126	130.0	130.0
36		130.0	121.9
42		120.8	104.5
48		105.7	91.4
54		94.0	81.3
60		84.6	73.1
66		76.9	66.5
30	132	130.0	130.0
36		130.0	116.4
42		115.3	99.7
48		100.9	87.3
54		89.7	77.6
60		80.7	69.8
66		73.4	63.5
30	138	130.0	130.0
36		128.7	111.3
42		110.3	95.4
48		96.5	83.5
54		85.8	74.2
60		77.2	66.8
30	144	130.0	128.0
36		123.3	106.7
42		105.7	91.4
48		92.5	80.0
54		82.2	71.1
60		74.0	64.0
30	150	130.0	122.9
36		118.4	102.4
42		101.5	87.8
48		88.8	76.8
54		78.9	68.3
60		71.0	61.4

WIND + DEAD LOAD FOR HD MULLION			
NOMINAL DIMENSIONS		ANCHOR TYPE A, C & H 'UNCRACKED'	ANCHOR TYPE A, C & H 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)		
30	108	130.0	130.0
36		130.0	128.9
42		128.8	110.5
48		112.7	96.7
54		100.1	85.9
60		90.1	77.3
30	114	130.0	130.0
36		130.0	122.1
42		122.0	104.7
48		106.7	91.6
54		94.9	81.4
60		85.4	73.3
30	120	130.0	130.0
36		130.0	116.0
42		115.9	99.4
48		101.4	87.0
54		90.1	77.3
60		81.1	69.6
30	126	130.0	130.0
36		128.8	110.5
42		110.4	94.7
48		96.6	82.9
54		85.8	73.7
60		77.3	66.3
30	132	130.0	126.5
36		122.9	105.5
42		105.4	90.4
48		92.2	79.1
54		81.9	70.3
60		73.7	63.3
30	138	130.0	121.0
36		117.6	100.9
42		100.8	86.5
48		88.2	75.7
54		78.4	67.2
60		70.5	60.5
30	144	130.0	116.0
36		112.7	96.7
42		96.6	82.9
48		84.5	72.5
54		75.1	64.4
60		67.6	58.0
30	150	129.8	111.4
36		108.2	92.8
42		92.7	79.5
48		81.1	69.6
54		72.1	61.9
60		64.9	55.7



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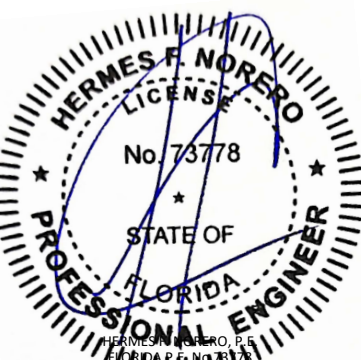
TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
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WEB: www.buildingdrops.com

BUILDING DROPS

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL13433

DATE:
7.17.17

DWG. BY:
AR

CHK. BY:
HFN

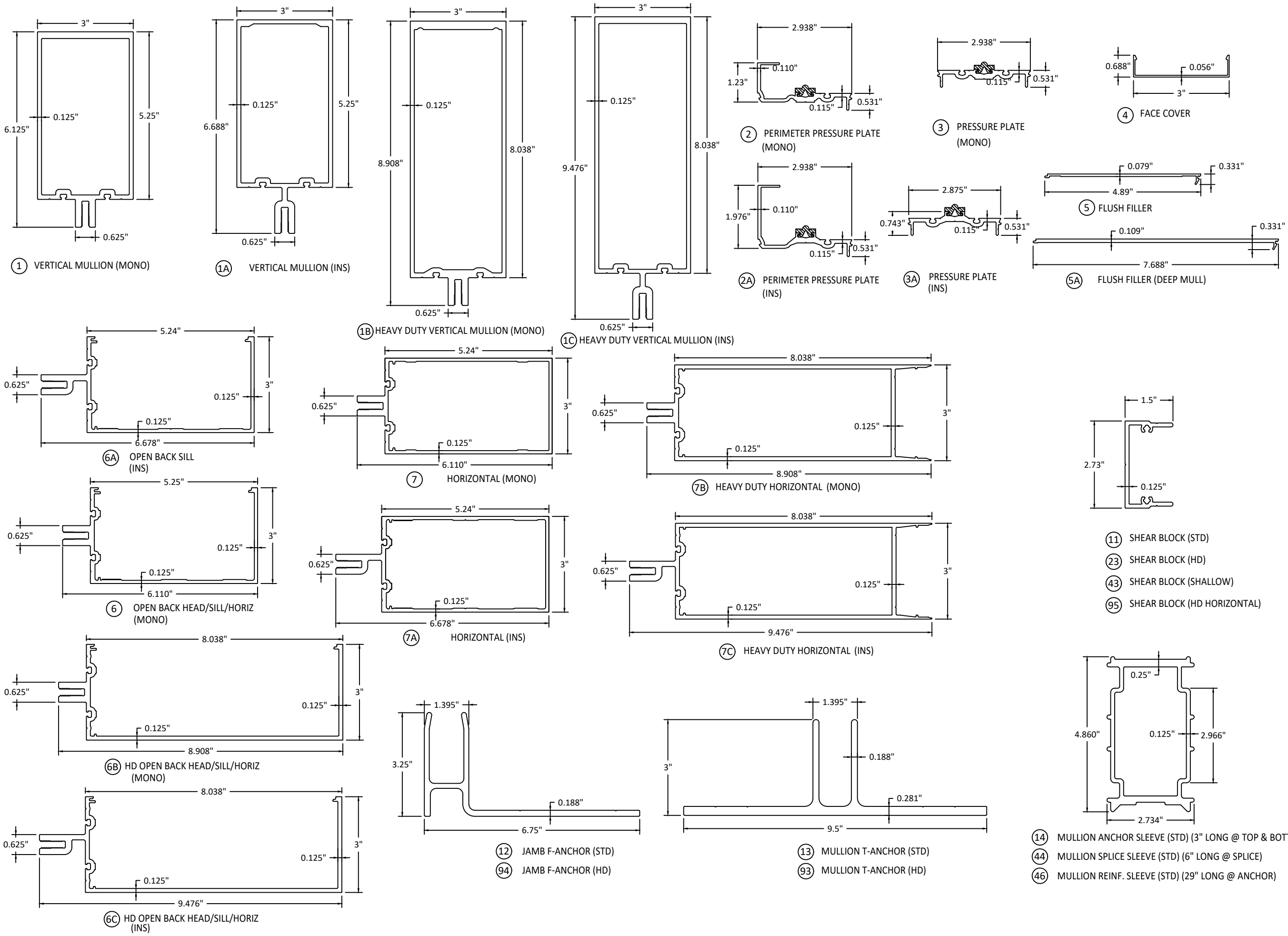
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DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVVH)
CURTAIN WALL SYSTEM

COMPONENTS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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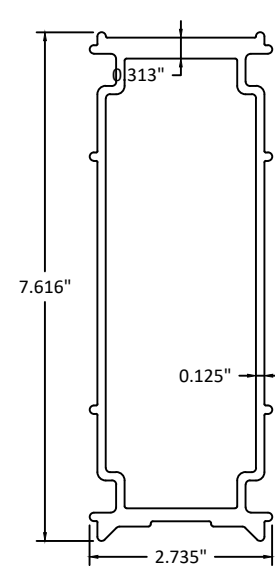
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BUILDING DROPS, INC.
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MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

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SCALE: NTS	
DWG. #: YKK204	
SECTION:	
9.0	

[Page 55 of 59]

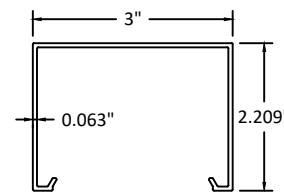
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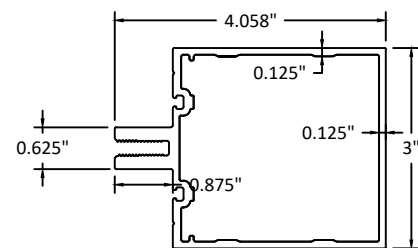
14A MULLION ANCHOR SLEEVE
(3" LONG AT TOP & BOTTOM)

44A MULLION SPLICE SLEEVE
(6" LONG AT SPLICE)

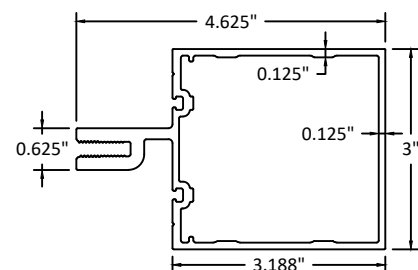
46A MULLION REINFORCEMENT SLEEVE
(29" LONG AT ANCHOR)



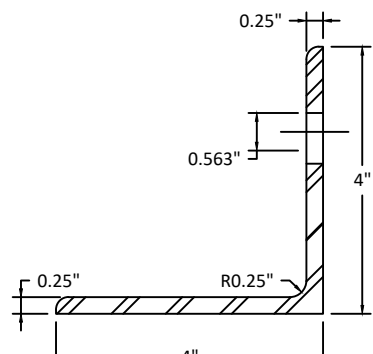
31 INTERIOR MULLION COVER



40 LOW PRESSURE HORIZONTAL
(MONO)

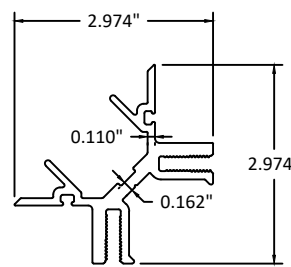


40A LOW PRESSURE HORIZONTAL
(INS)

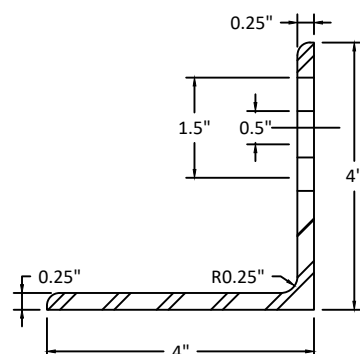


15 WIND LOAD ANCHOR
(STANDARD MULLION)

90 WIND LOAD ANCHOR
(HEAVY DUTY MULLION)

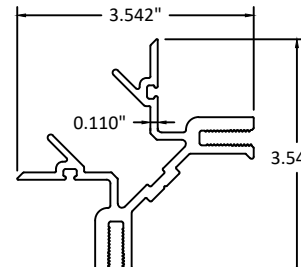


28 90° CORNER ADAPTOR
(MONO)

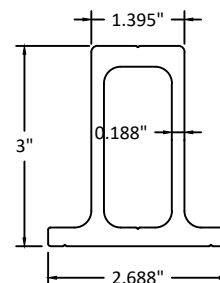


16 DEAD LOAD ANCHOR
(STANDARD MULLION)

91 DEAD LOAD ANCHOR
(HEAVY DUTY MULLION)

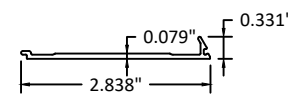


28A 90° CORNER ADAPTOR
(INS)

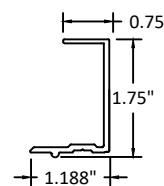


35 S-ANCHOR (STD)

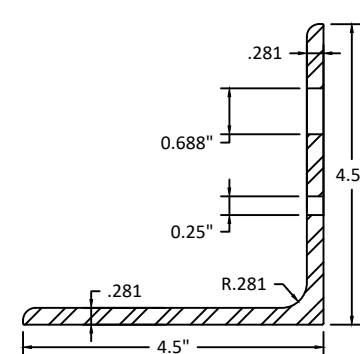
64 S-ANCHOR (HD)



41 FLUSH FILLER
(SHALLOW MULLION)

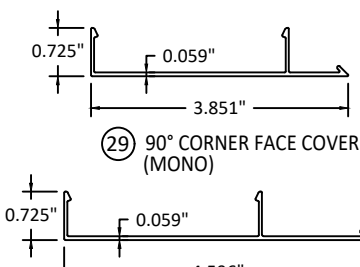


58 POCKET FILLER
(INS)

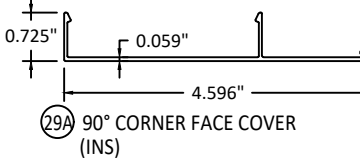


16A DEAD LOAD ANCHOR
(STANDARD MULLION)

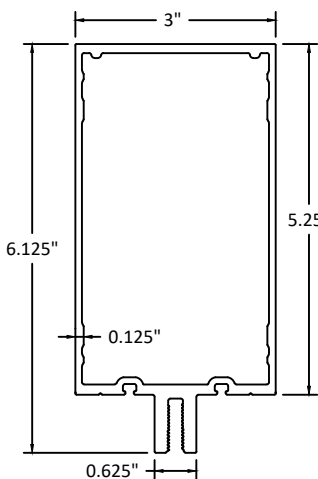
92 DEAD LOAD ANCHOR
(HEAVY DUTY MULLION)



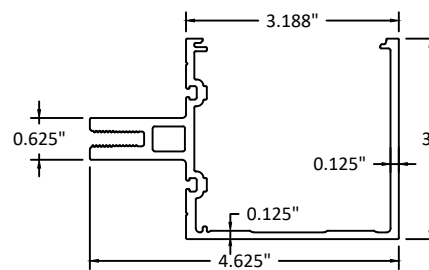
29 90° CORNER FACE COVER
(MONO)



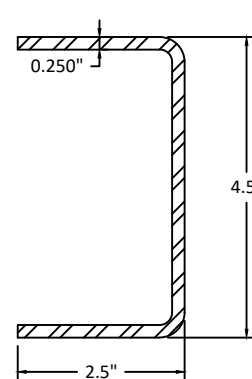
29A 90° CORNER FACE COVER
(INS)



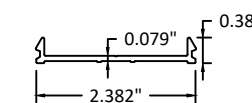
38 LOW PRESSURE MULLION
(MONO)



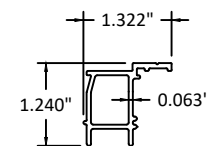
47 LIGHT DUTY OPEN BACK HEAD/HORIZONTAL
(INS)



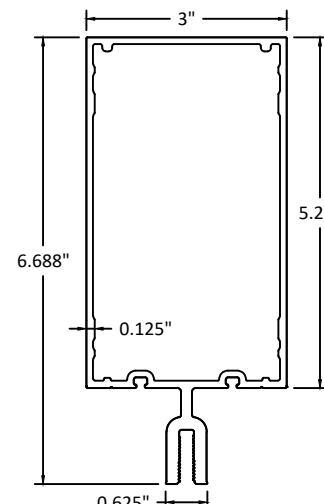
26 REINFORCEMENT CHANNEL



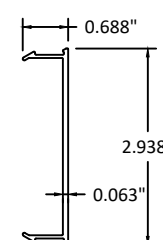
30 90° CORNER INTERIOR COVER BASE



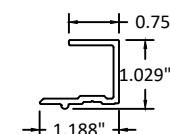
37 GLAZING ADAPTOR



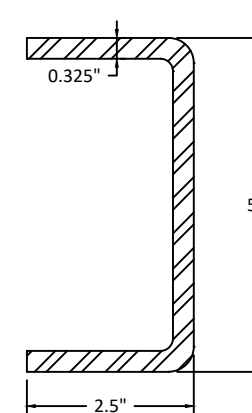
38A LOW PRESSURE MULLION
(INS)



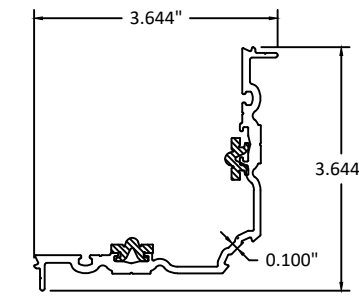
56 INTERIOR MULLION
COVER



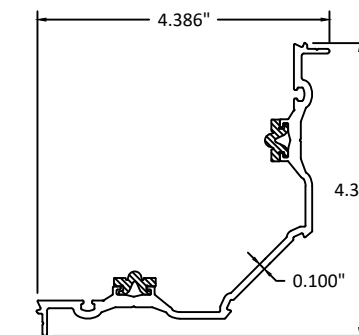
57 POCKET FILLER
(MONO)



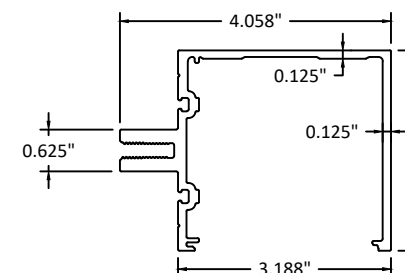
26B REINFORCEMENT CHANNEL



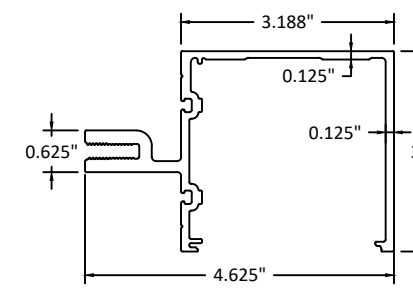
27 90° CORNER PRESSURE PLATE
(MONO)



27A 90° CORNER PRESSURE PLATE
(INS)



39 LOW PRESSURE OPEN BACK
HEAD/HORIZ./SILL (MONO)



39A LOW PRESSURE OPEN BACK
HEAD/HORIZ./SILL (INS)



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

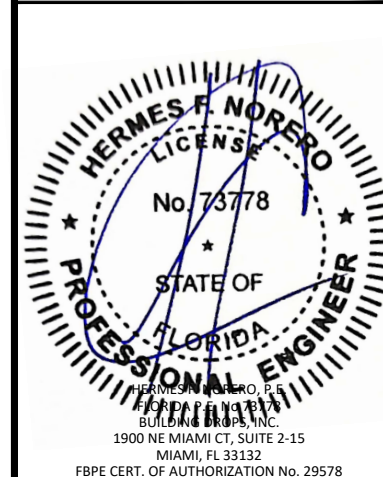
TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM
COMPONENTS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com



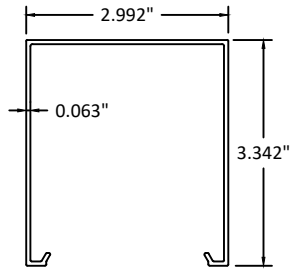
REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC
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ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT

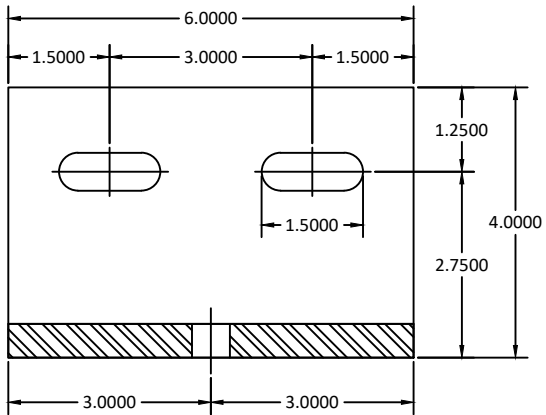


FL #:	FL13433
DATE:	7.17.17
DWG. BY:	AR
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK204
SECTION:	9.1

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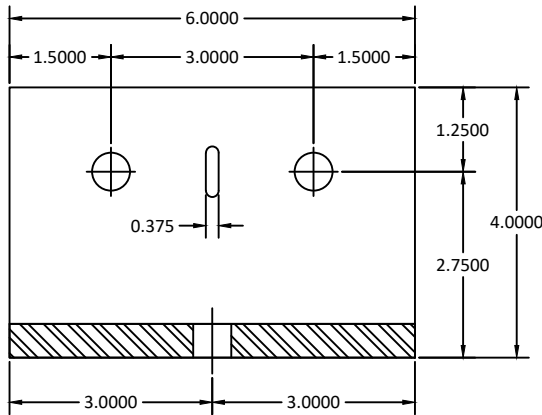


62 90° CORNER INTERIOR COVER



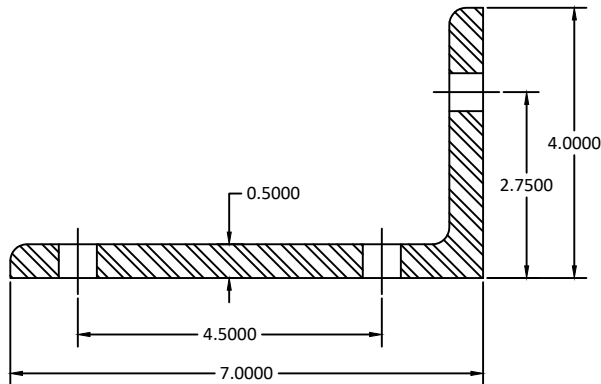
66 WIND LOAD (STANDARD MULLION)

68 WIND LOAD (STANDARD MULLION)



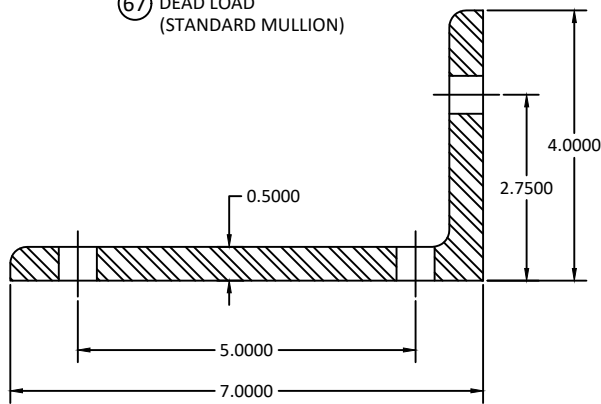
67 DEAD LOAD (STANDARD MULLION)

69 DEAD LOAD (STANDARD MULLION)



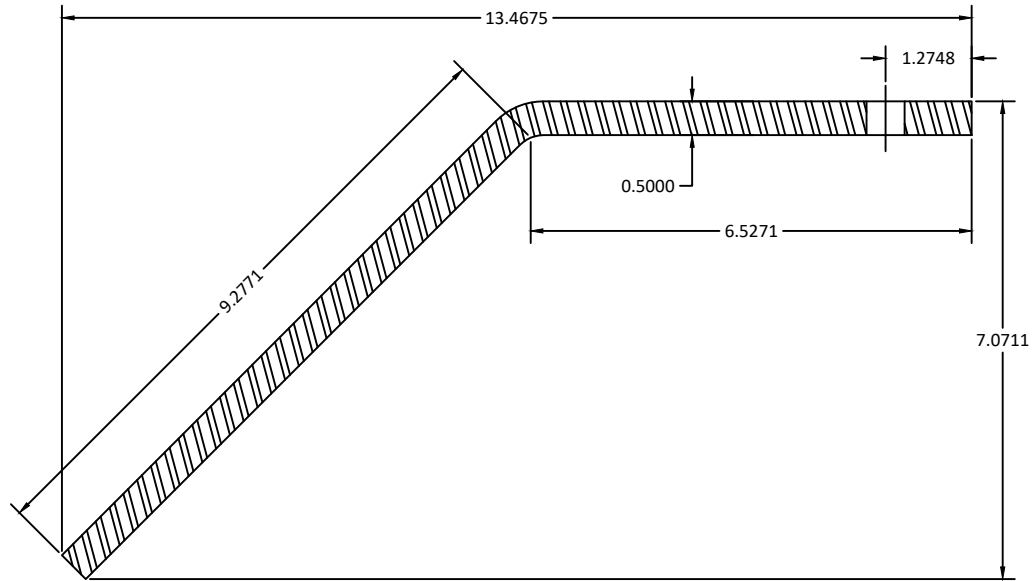
66 WIND LOAD (STANDARD MULLION)

67 DEAD LOAD (STANDARD MULLION)



68 WIND LOAD (STANDARD MULLION)

69 DEAD LOAD (STANDARD MULLION)

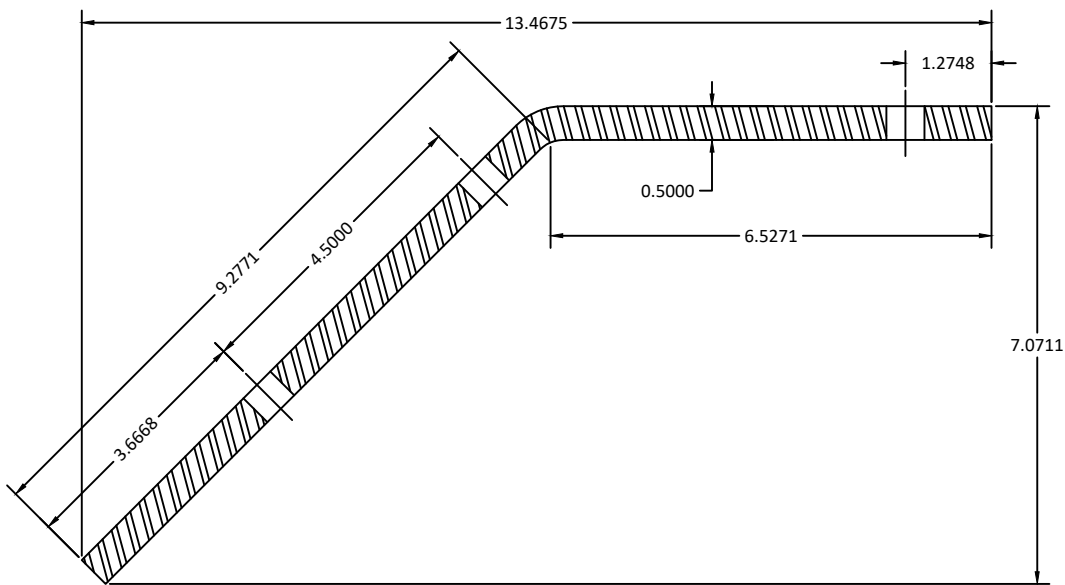


70 WIND LOAD (STANDARD MULLION)

71 DEAD LOAD (STANDARD MULLION)

84 WIND LOAD (HD MULLION)

85 DEAD LOAD (HD MULLION)

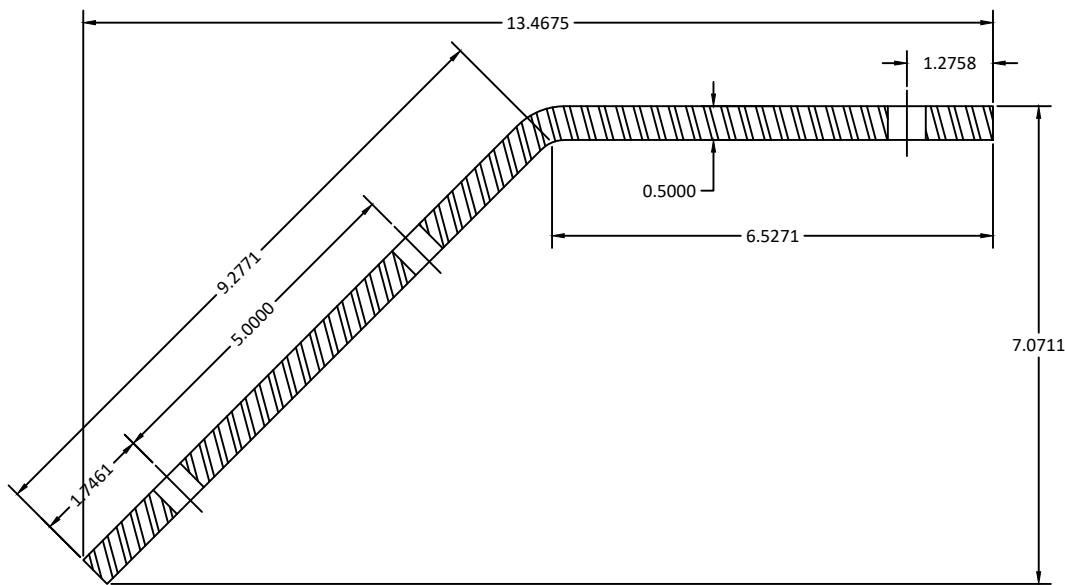


72 WIND LOAD (STANDARD MULLION)

73 DEAD LOAD (STANDARD MULLION)

86 WIND LOAD (HD MULLION)

87 DEAD LOAD (HD MULLION)



74 WIND LOAD (STANDARD MULLION)

75 DEAD LOAD (STANDARD MULLION)

88 WIND LOAD (HD MULLION)

89 DEAD LOAD (HD MULLION)



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021

PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

BILL OF MATERIALS

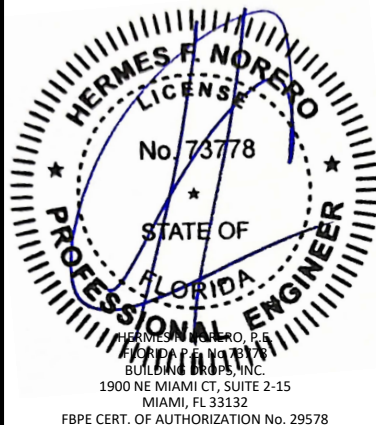
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #: FL13433

DATE: 7.17.17

DWG. BY: AR

CHK. BY: HFN

SCALE: NTS

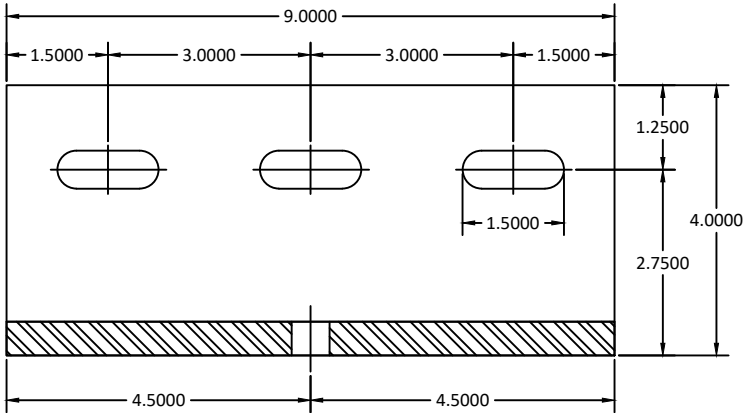
DWG. #: YKK204

SECTION:

9.2

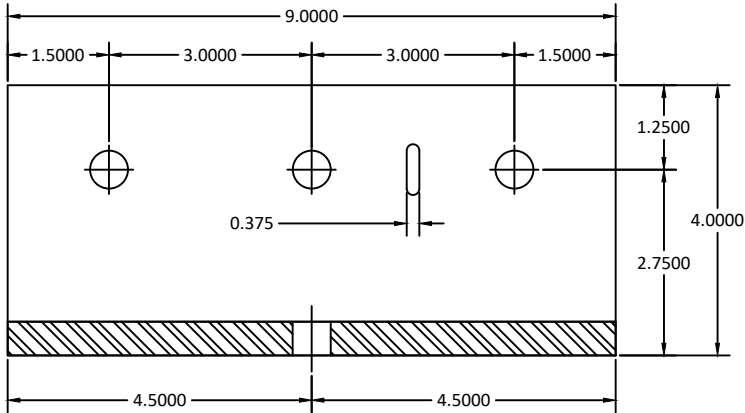
[Page 57 of 59]

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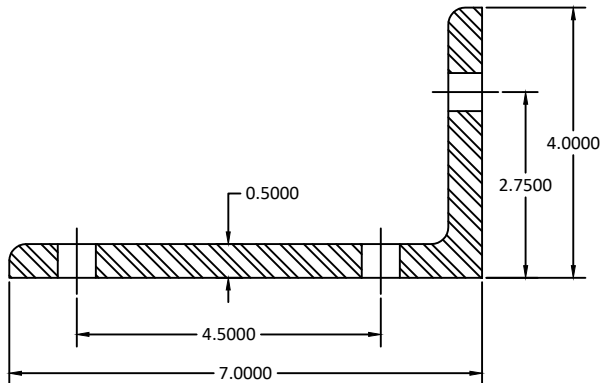
80 WIND LOAD
(HD MULLION)

82 WIND LOAD
(HD MULLION)



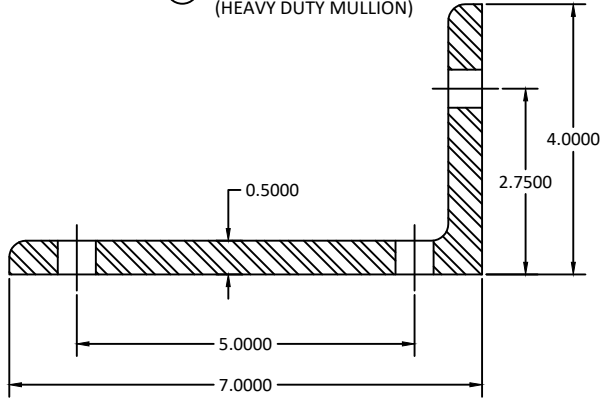
81 DEAD LOAD
(HD MULLION)

83 DEAD LOAD
(HD MULLION)



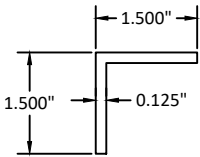
80 WIND LOAD ANCHOR
(HEAVY DUTY MULLION)

81 DEAD LOAD ANCHOR
(HEAVY DUTY MULLION)

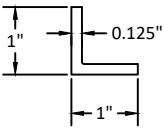


82 WIND LOAD ANCHOR
(HEAVY DUTY MULLION)

83 DEAD LOAD ANCHOR
(HEAVY DUTY MULLION)



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



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



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021

PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

BILL OF MATERIALS

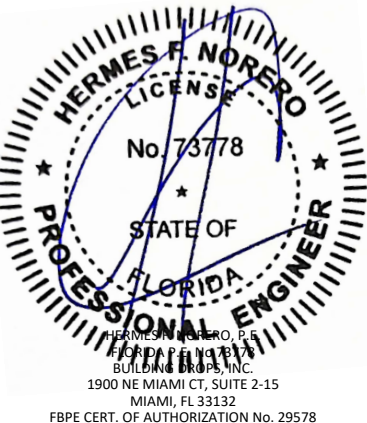
PREPARED BY: BUILDING DROPS, INC.

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MIAMI, FL 33132
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REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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FL #:
FL13433

DATE: **7.17.17**

DWG. BY: **AR** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK204**

SECTION:

9.3

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6/2/2026 11:38 AM

ITEM	PART NO.	DESCRIPTION	MATERIAL
1	E9-3103	VERTICAL MULLION (MONO)	6063-T6
1A	E9-3101	VERTICAL MULLION (INS)	6063-T6
1B	E9-3182	HD VERTICAL MULLION (MONO)	6063-T6
1C	E9-3183	HD VERTICAL MULLION (INS)	6063-T6
2	AS-3179	PERIMETER PRESSURE PLATE (MONO)	6063-T5
2A	AS-3178	PERIMETER PRESSURE PLATE (INS)	6063-T5
3	AS-3173	PRESSURE PLATE (MONO)	6063-T5
3A	AS-3172	PRESSURE PLATE (INS)	6063-T5
4	E9-3161	FACE COVER	6063-T5
5	E9-3162	FLUSH FILLER	6063-T5
5A	E9-3188	FLUSH FILLER (DEEP MULL)	6063-T6
6	E9-3105	OPEN BACK HEAD/HORIZ./SILL (MONO)	6063-T5
6A	E9-3104	OPEN BACK SILL (INS)	6063-T5
6B	E9-3189	HD OPEN BACK HEAD/HORIZ./SILL (MONO)	6063-T6
6C	E9-3187	HD OPEN BACK HEAD/HORIZ./SILL (INS)	6063-T6
7	E9-3106	HORIZONTAL (MONO)	6063-T5
7A	E9-3102	HORIZONTAL (INS)	6063-T5
7B	E9-3190	HD HORIZONTAL (MONO)	6063-T6
7C	E9-3185	HD HORIZONTAL (INS)	6063-T6
8	E2-0379	EXT/INT GLAZING GASKET	EPDM
9	E2-0353	INTERIOR GLAZING SILICONE SPACER	EPDM
10	E2-0623	SETTING BLOCK (MONO)	EPDM (90±5)
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
14A	E1-3033	MULLION ANCHOR SLEEVE (HD) (3" LONG @ TOP & BOTTOM)	6063-T5
15	E1-1204	WINDLOAD ANCHOR (STD)	A36 STEEL
16	E1-1205	DEADLOAD ANCHOR (STD)	A36 STEEL
16A	-	DEAD LOAD (NOT BY YKK AP)	A36 STEEL
17	HD-2520-W3-SS	1/4"-20 X 1-1/4" HWHMS	STAINLESS STEEL
18	FC-1220	#12 X 1-1/4" FHMS 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
21	HM-5072	1/2"-13 X 4-1/2" HHMS BOLT (GR 5)	ZINC PLATED STEEL
22	PC-1210	#12 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL
23	E1-3040	SHEAR BLOCK (HD)	6063-T5
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
26	E1-0175	REINFORCEMENT CHANNEL (2-1/2" X 4-1/2" X 1/4")	A36 STEEL
26A	E1-3031	REINFORCEMENT CHANNEL (2-1/2" X 7-1/4" X 1/4")	A36 STEEL
26B	-	REINFORCEMENT CHANNEL (2-1/2" X 5" X 3/8") (NOT BY YKK AP)	A36 STEEL
27	AS-3177	90° CORNER PRESSURE PLATE (MONO)	6063-T5
27A	AS-3175	90° CORNER PRESSURE PLATE (INS)	6063-T5
28	E9-3146	90° CORNER ADAPTOR (MONO)	6063-T5

ITEM	PART NO.	DESCRIPTION	MATERIAL
28A	E9-3145	90° CORNER ADAPTOR (INS)	6063-T5
29	E9-3176	90° CORNER FACE COVER (MONO)	6063-T5
29A	E9-3174	90° CORNER FACE COVER (INS)	6063-T5
30	E9-1280	90° CORNER INTERIOR COVER BASE	6063-T5
31	E9-3165	90° CORNER INTERIOR COVER	6063-T5
32	PC-1008	#10 X 1/2" PHSMS TYPE AB	ZINC PLATED STEEL
33	E1-0190	DEADLOAD ANCHOR FOR 90° CORNER	A36 STEEL
33A	-	STEEL ANGLE	A36 STEEL
34	E1-0191	WINDLOAD ANCHOR FOR 90° CORNER	A36 STEEL
34A	-	STEEL ANGLE	A36 STEEL
35	E1-3039	S ANCHOR (STD)	6063-T6
36	E2-0386	ISOLATOR TAPE	PVC SPONGE
37	E9-3147	GLAZING ADAPTOR	6063-T5
38	E9-3107	LOW PRESSURE MULLION (MONO)	6063-T6
38A	E9-3111	LOW PRESSURE MULLION (INS)	6063-T6
39	E9-8168	LOW PRESSURE OPEN BACK HEAD/SILL/HORIZ (MONO)	6063-T5
39A	E9-3112	LOW PRESSURE OPEN BACK HEAD/SILL/HORIZ (INS)	6063-T6
40	E9-8167	LOW PRESSURE HORIZONTAL (MONO)	6063-T5
40A	E9-3113	LOW PRESSURE HORIZONTAL (INS)	6063-T5
41	E9-8169	FLUSH FILLER (SHALLOW)	6063-T5
42	E1-3011	MULLION END CAP (MONO)	alum sheet
43	E1-3036	SHEAR BLOCK (SHALLOW)	6063-T5
44	E1-3005	MULLION SPLICE SLEEVE (STD) (6" LONG @ SPLICE)	6063-T5
44A	E1-3037	MULLION SPLICE SLEEVE (HD) (6" LONG @ SPLICE)	6063-T5
45	E9-3159	OPEN BACK HEAD/HORIZONTAL (INS)	6063-T5
46	E1-3007	MULLION REINFORCEMENT SLEEVE (STD) (29" LONG @ ANCHOR)	6063-T5
46A	E1-3030	MULLION REINFORCEMENT SLEEVE (HD) (29" LONG @ ANCHOR)	6063-T5
47	E9-3127	LIGHT DUTY OPEN BACK HEAD/HORIZONTAL (INS)	6063-T5
48	FC-1410	#14 X 5/8" FHMS TYPE AB	ZINC PLATED STEEL
49	HM-5000	1/2"-13 NUT HHMS	ZINC PLATED STEEL
50	WS-5000	1/2" LOCK WASHER	ZINC PLATED STEEL
51	WW-5000	1/2" FLAT WASHER	ZINC PLATED STEEL
52	FF-0808	#8-32 X 1/2" FHMS TYPE F	ZINC PLATED STEEL
53	N/A	#8-32 X 3-1/2" FHMSM @ 16" OC	ZINC PLATED STEEL
54	FC-1212	#12 X 3/4" FHMS TYPE AB	ZINC PLATED STEEL
55	-	-	-
56	E9-3186	INTERIOR MULLION COVER	6063-T6
57	E9-3109	POCKET FILLER (MONO)	6063-T5
58	E9-3110	POCKET FILLER (INS)	6063-T5
59	PC-1008	#10 X 1/2" PHSMS TYPE AB	ZINC PLATED STEEL
60	E1-3018	MULLION T ANCHOR FOR 90° CORNER	-
61	E2-0103	THERMAL ISOLATOR	EPDM (85±5)
62	E9-3160	90° CORNER INTERIOR COVER (HD)	6063-T5
63	-	1/2"-13 HHMS BOLT (GRADE 5) OF SUFFICIENT LENGTH TO ACHIEVE FULL ENGAGEMENT W/ NUT SAE GR5 OR ASTM A325	-
64	E1-3038	S ANCHOR (HD)	6063-T6

ITEM	PART NO.	DESCRIPTION	MATERIAL
65	E1-3010	MULLION END CAP (INS)	alum sheet
66	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
67	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
68	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
69	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
70	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
71	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
72	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
73	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
74	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
75	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
76	E1-3016	90° CORNER SHEAR CLIP (RH)	6063-T5
77	E1-3017	90° CORNER SHEAR CLIP (LH)	6063-T5
78	E1-3028	90° CORNER SHEAR CLIP (HD)(RH)	6063-T5
79	E1-3029	90° CORNER SHEAR CLIP (HD)(LH)	6063-T5
80	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
81	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
82	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
83	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
84	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
85	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
86	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
87	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
88	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
89	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
90	E1-1280	WINDLOAD ANCHOR (HD)	A36 STEEL
91	E1-1281	DEADLOAD ANCHOR (HD)	A36 STEEL
92	-	DEADLOAD ANCHOR (NOT BY YKK AP)	A36 STEEL
93	E1-3034	JAMB F ANCHOR (HD)	6063-T5
94	E1-3035	MULLION T ANCHOR (HD)	6063-T5
95	E1-3032	SHEAR BLOCK (HD HORIZONTAL)	6063-T5
96	E3-0103	NYLON SLIP PAD	NYLON
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	HM-2516-W3	#1/4"-20 X 1" HWHMS	ZINC PLATED STEEL
108	FC-1456	#14 X 3 1/2" FHMS TYPE AB	ZINC PLATED STEEL



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YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC - 300 OG (HVHZ)
CURTAIN WALL SYSTEM

BILL OF MATERIALS

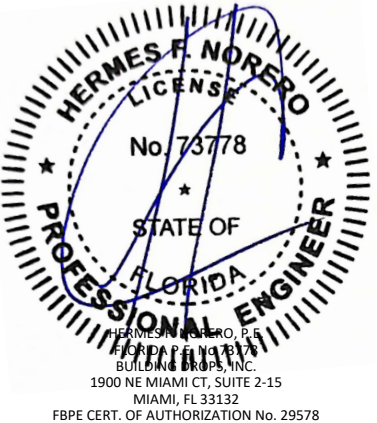
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



BUILDING DROPS

REMARKS	BY	DATE
MISC. UPDATES	LS	6.02.26

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, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL13433

DATE:

7.17.17

DWG. BY:

AR

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK204

SECTION:

9.4

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