

YKK AP AMERICA

YOW-200/YOW-225H/YOW-225TU

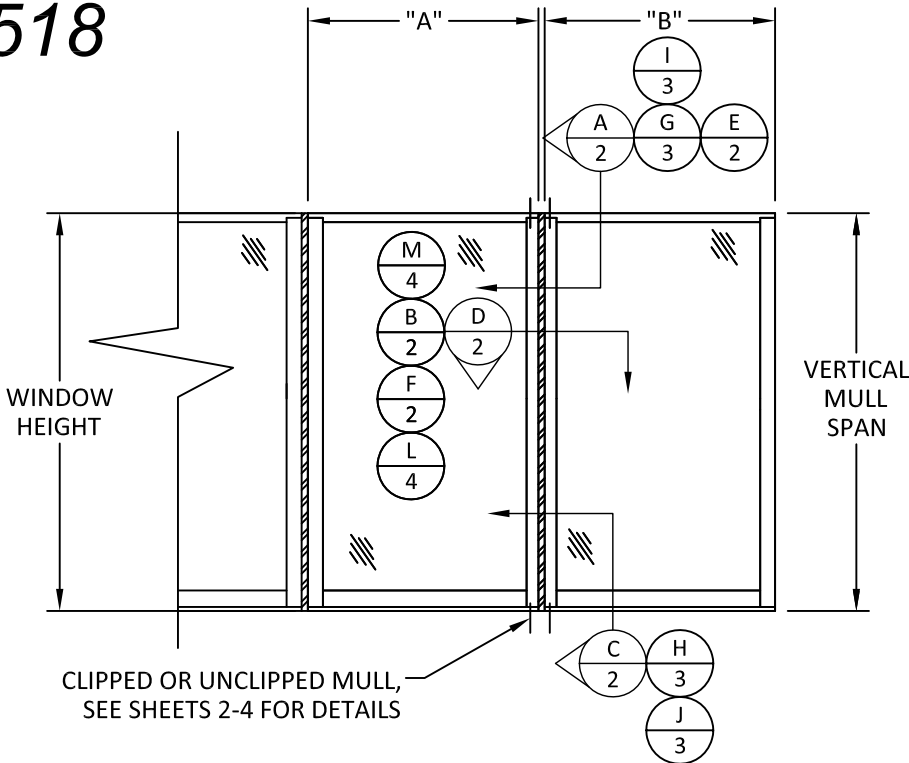
SERIES WINDOWS STACKING MULLIONS - 4518

INSTALLATION NOTES:

- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL ANCHORS WITHIN A TOLERANCE OF +/-1/2 INCH OF THE DEPICTED LOCATION AS SPECIFIED. TOLERANCES ARE NOT CONSIDERED CUMULATIVE FROM ONE LOCATION TO THE NEXT.
- FOR MULLION CLIP: USE TWO (2) #12 WOOD SCREWS, PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING. (SEE INSTALLATION DETAILS ON SHEET 2).
- FOR MULLION CLIP: USE TWO (2) 1/4" ITW TAPCONS PER MULLION END, ONE (1) PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/4" INTO CONCRETE OR MASONRY. (SEE INSTALLATION DETAILS ON SHEET 2).
- FOR MULLION CLIP: USE TWO (2) 1/4-20 SAE GR. 5 SELF-DRILLING OR SELF-TAPPING SCREWS, PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND METAL SUBSTRATE. (SEE INSTALLATION DETAILS ON SHEET 2).
- FOR UNCLIPPED MULLIONS: USE FOUR (4) #12 WOOD SCREWS, PER MULLION END, OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING. (SEE INSTALLATION DETAILS ON SHEET 3).
- FOR UNCLIPPED MULLIONS: USE FOUR (4) 1/4" ITW TAPCONS, PER MULLION END, OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/4" INTO CONCRETE OR MASONRY. (SEE INSTALLATION DETAILS ON SHEET 3).
- FOR UNCLIPPED MULLIONS: USE FOUR (4) 1/4-20 SAE GR. 5 SELF-DRILLING OR SELF-TAPPING SCREWS, PER MULLION END, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND METAL SUBSTRATE. (SEE INSTALLATION DETAILS ON SHEET 3).
- MINIMUM EDGE DISTANCES ARE BASED ON 3/4" FOR #12 WOOD SCREWS, 2-1/2" FOR 1/4" TAPCONS, & 5/8" FOR 1/4-20 GR. 5 SELF-TAPPING OR SELF-DRILLING SCREWS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK, VENEER, AND SIDING.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - CMU - SHALL CONFORM TO MIN. REQUIREMENTS OF ASTM C90
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 20 GA. (0.0359") WALL THICKNESS.
 - ALUMINUM - ALLOY SHALL BE 6063-T5 OR EQUIVALENT. MINIMUM (0.090") WALL THICKNESS.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE, EXCLUDING HVHZ.
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THESE PRODUCTS IN WIND BORNE DEBRIS REGIONS ZONE 3 OR LESS SUCH THAT ADJOINING WINDOWS ARE EQUALLY IMPACT RATED.
- 2X WOOD BUCKS AND METAL STUDS TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE AND IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 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 IN NON-HVHZ AREAS.
- THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE YKK AP AMERICA PRODUCTS. QUALIFIED CONFIGURATIONS INCLUDE FIXED-FIXED, FIXED-OPERABLE, & OPERABLE-OPERABLE CONFIGURATIONS OF CASEMENT, PROJECT OUT, AND FIXED WINDOW PRODUCTS.
- ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL. THE LESSER DESIGN PRESSURE RATING OF THE WINDOW OR THE MULLION OF INSTALLATION SHALL GOVERN THE OVERALL DESIGN PRESSURE OF THE ASSEMBLY.
- MULLION MATERIAL: 6063-T5 ALUMINUM.
- CLIP MATERIAL: 6063-T5 ALUMINUM.
- ALL STRUCTURAL MATERIAL & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.



VERTICAL MULLION

SEE GEN. NOTE 5 FOR QUALIFIED CONFIGURATIONS

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4	-	4518 UNCLIPPED MULL DP CHARTS & INSTALLATION DETAILS
5	-	4518 CLIPPED MULL DP CHARTS, COMPONENTS & B.O.M
6	-	4518 MULL ASSEMBLY ISO VIEW



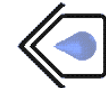
YKK AP AMERICA

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

TITLE: YOW-200/225H/225TU
WINDOWS STACKING MULLIONS
4518

GENERAL NOTES AND ELEVATION

PREPARED BY:

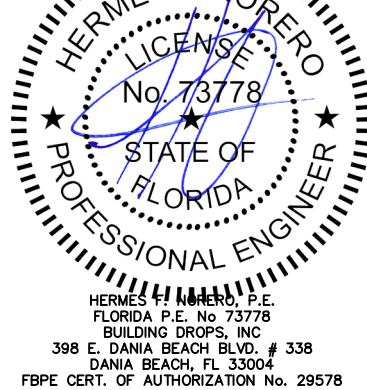


BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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REMARKS	BY	DATE
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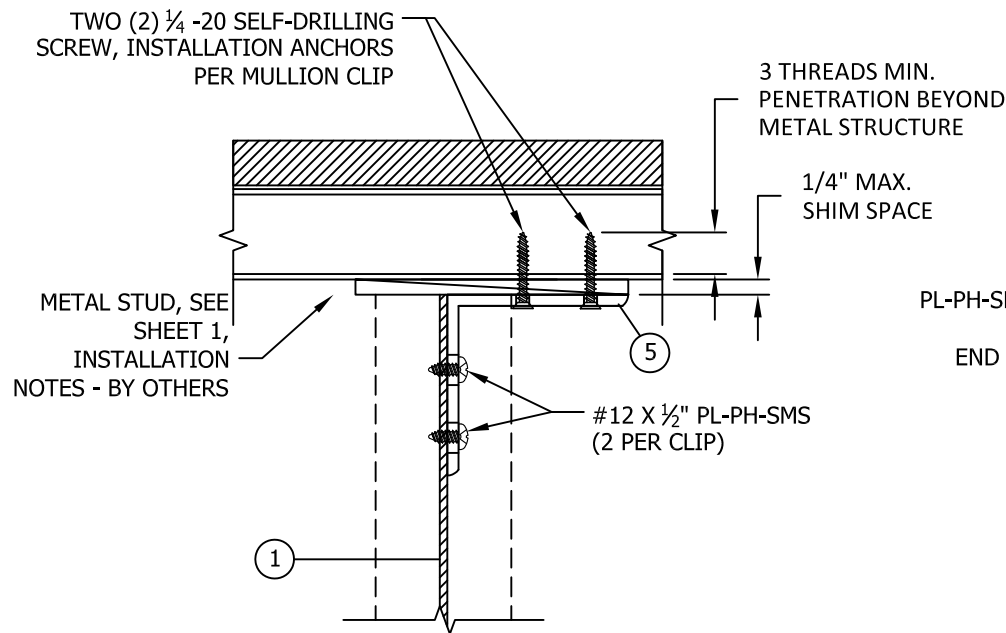
Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2017.10.11 13:24:00 -0400



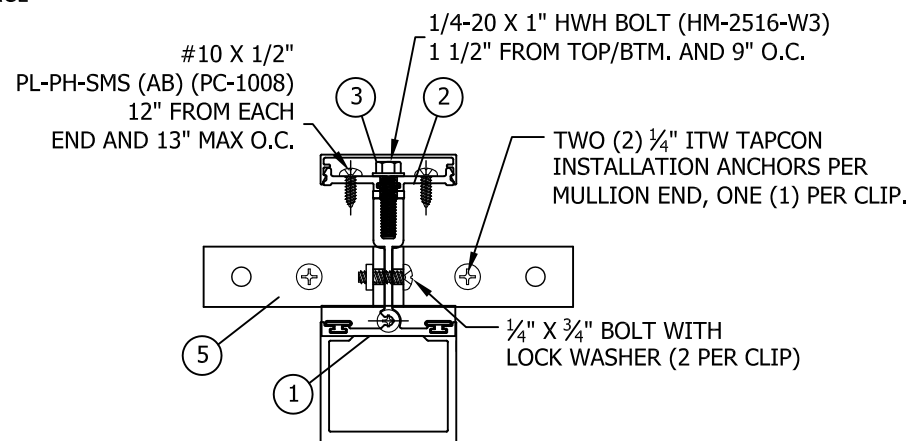
FL #:	FL15729
DATE:	8.22.17
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK224
SECTION:	1

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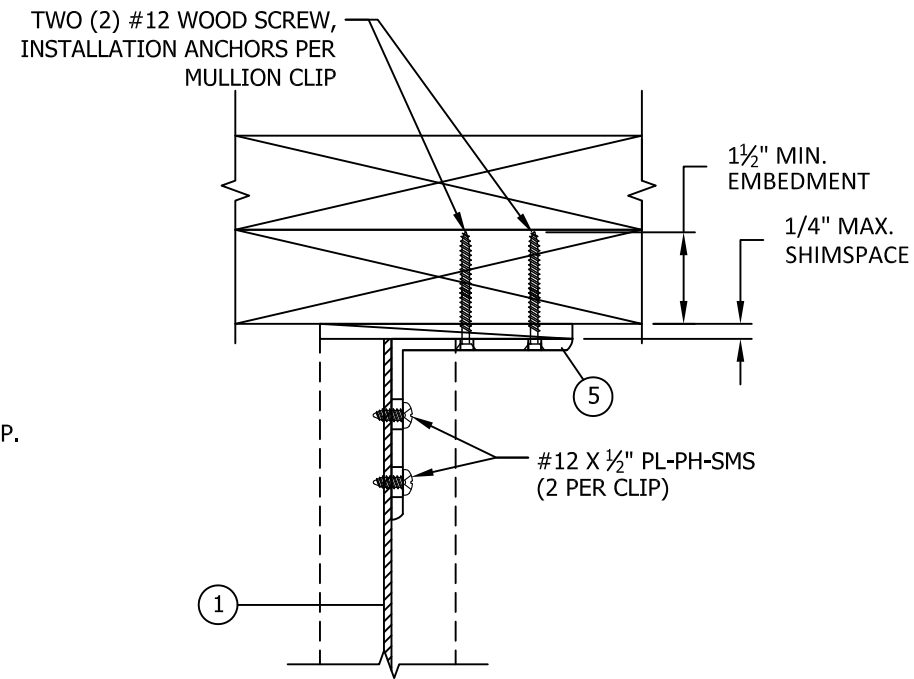
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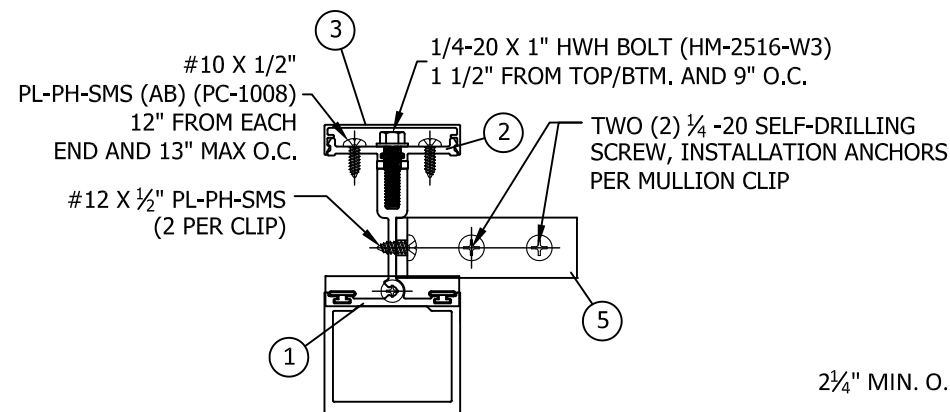
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2 FRONT VIEW
HEAD - METAL STUD MULLION CLIP



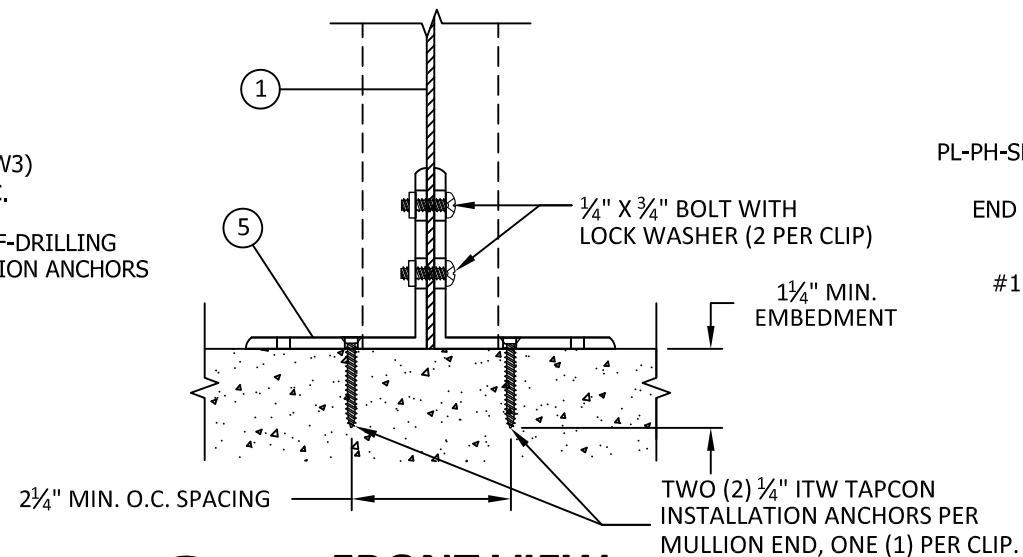
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2 HORIZONTAL SECTION
CONCRETE/MASONRY MULLION CLIP



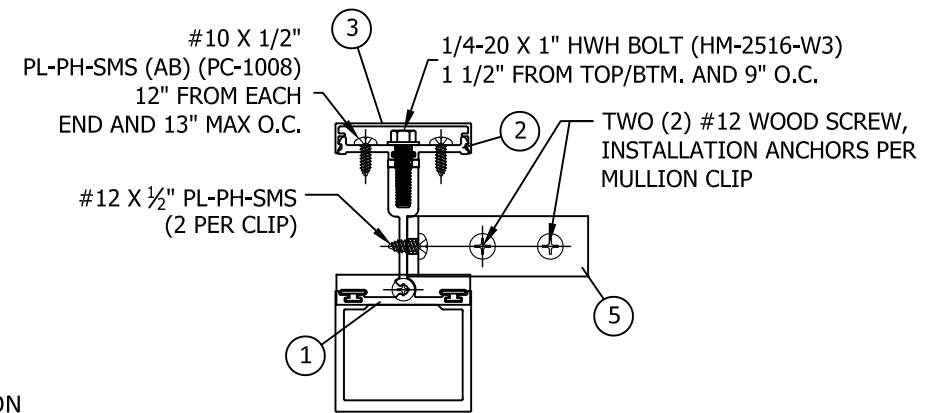
E
2 FRONT VIEW
HEAD - 2X WOOD MULLION CLIP



B
2 HORIZONTAL SECTION
METAL STUD MULLION CLIP



C
2 FRONT VIEW
SILL - CONCRETE/MASONRY MULLION CLIP



F
2 HORIZONTAL SECTION
2X WOOD MULLION CLIP



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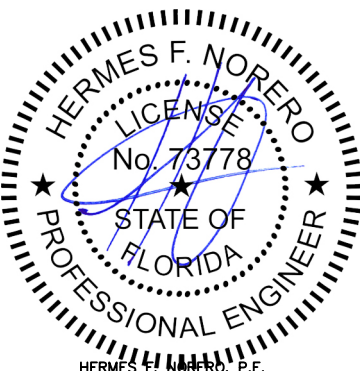
CLIPPED MULL
INSTALLATION DETAILS

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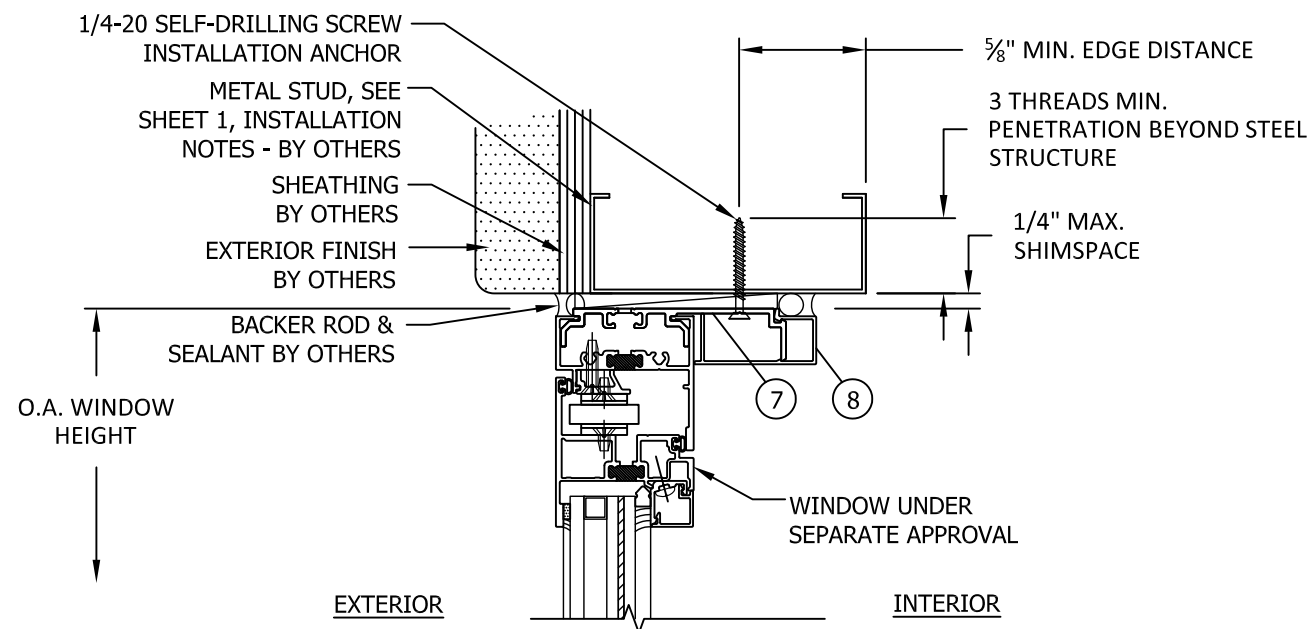
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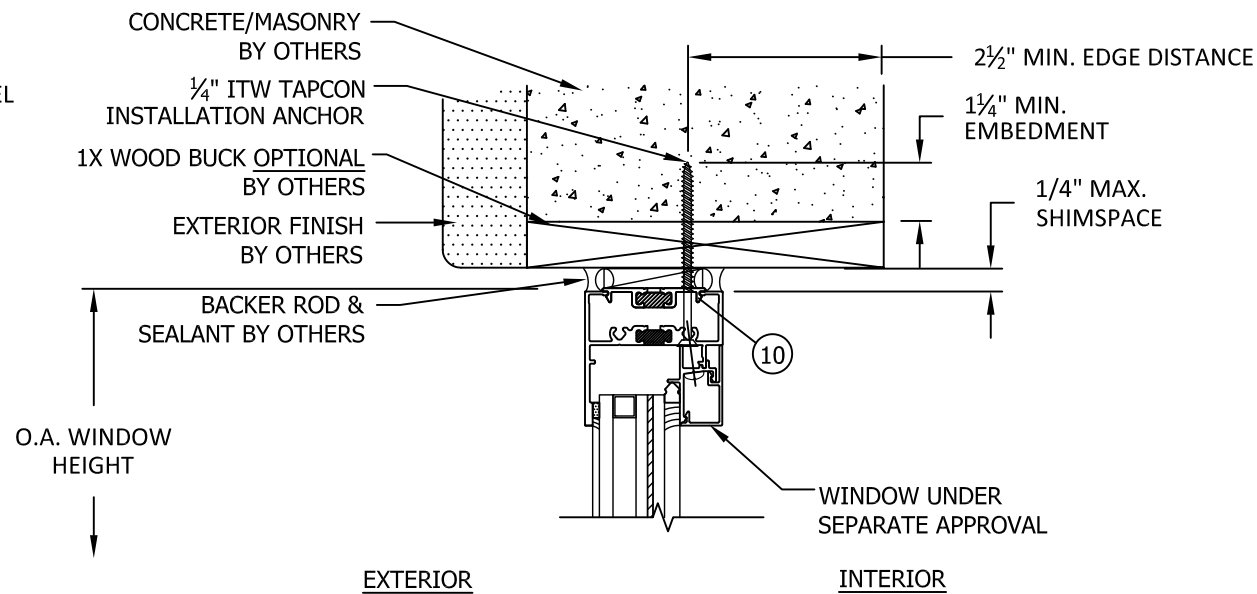
HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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SECTION:	2

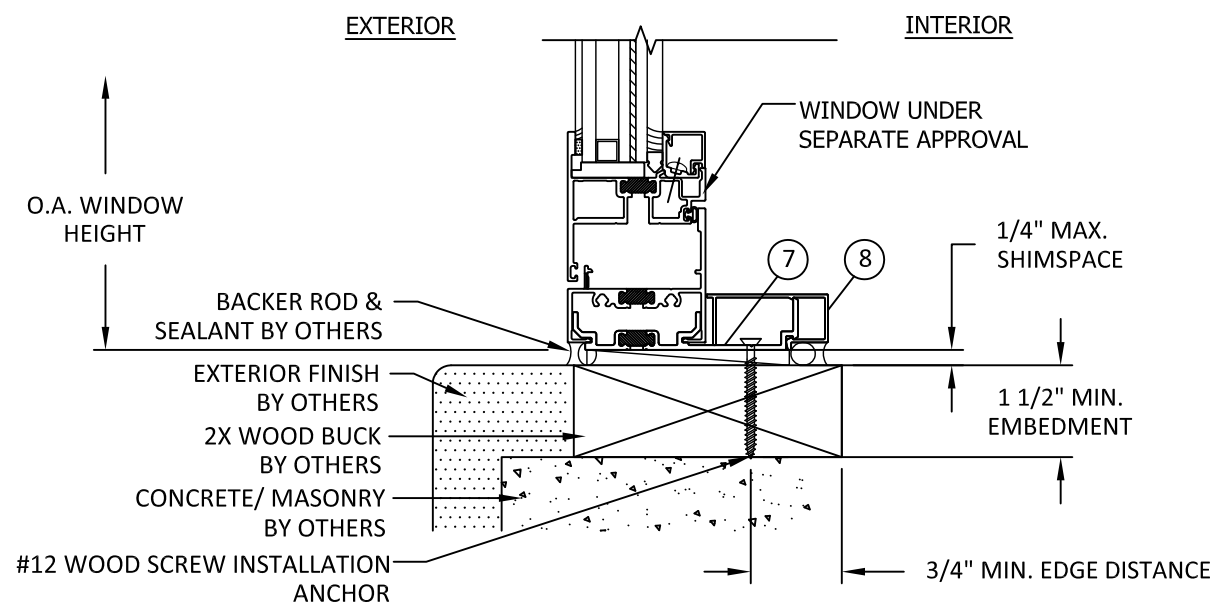
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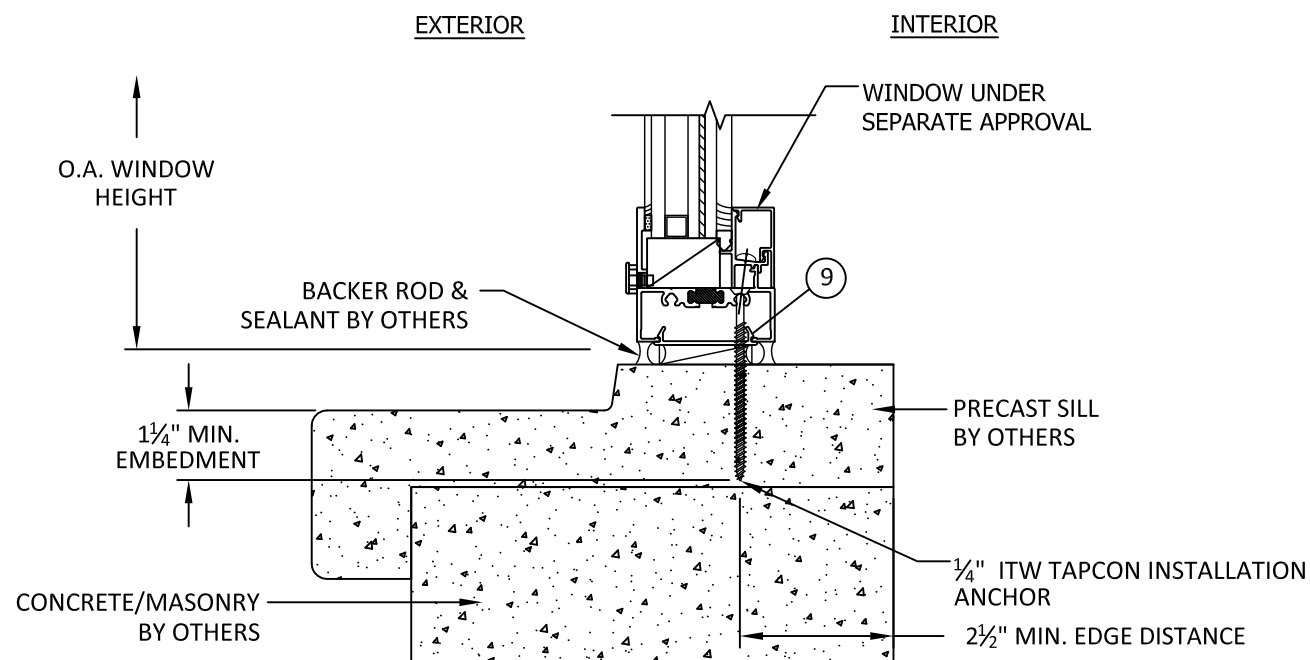
G
3 **VERTICAL SECTION**
HEAD - METAL STUD
UNCLIPPED MULLION (ALT. ANCHOR STRAP)



I
3 **VERTICAL SECTION**
HEAD - 1X WOOD BUCK
UNCLIPPED MULLION



H
3 **VERTICAL SECTION**
SILL - 2X WOOD BUCK
UNCLIPPED MULLION (ALT. ANCHOR STRAP)



J
3 **VERTICAL SECTION**
SILL - PRECAST SILL
UNCLIPPED MULLION



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WINDOWS STACKING MULLIONS
4518

UNCLIPPED MULL
INSTALLATION DETAILS

PREPARED BY:

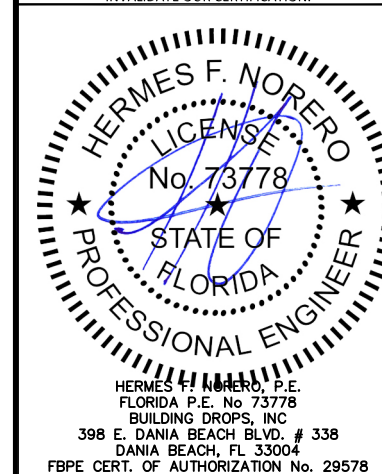
BUILDING DROPS, INC.

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SECTION:

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OF 6

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4518 UNCLIPPED MULL DP CHART

Maximum design pressure capacity (NONHVVHZ)

YOW-225H/YOW-225TU Series Windows: Stacking Mullions - 4518

Design pressures are limited either by mullion or anchor screw capacity

Span (in)	Tributary Width (in)								
	12.0	18.0	24.0	36.0	42.0	48.0	56.0	60.0	62.4
35.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
54.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
62.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	118.9
66.0	150.0	150.0	150.0	150.0	150.0	145.1	137.5	135.5	99.0
72.0	150.0	150.0	150.0	150.0	136.6	127.0	118.8	116.1	77.9
80.0	150.0	150.0	150.0	131.1	116.1	104.8	94.5	90.8	59.3
84.0	150.0	150.0	150.0	118.8	104.3	93.9	84.2	80.6	52.6
90.0	150.0	150.0	149.3	102.6	89.8	80.5	71.7	68.4	44.5
96.0	150.0	150.0	130.8	89.6	78.2	69.9	61.9	58.9	38.2
100.0	150.0	150.0	120.4	82.3	71.7	63.9	56.5	53.7	34.8

Maximum design pressure capacity (NONHVVHZ)

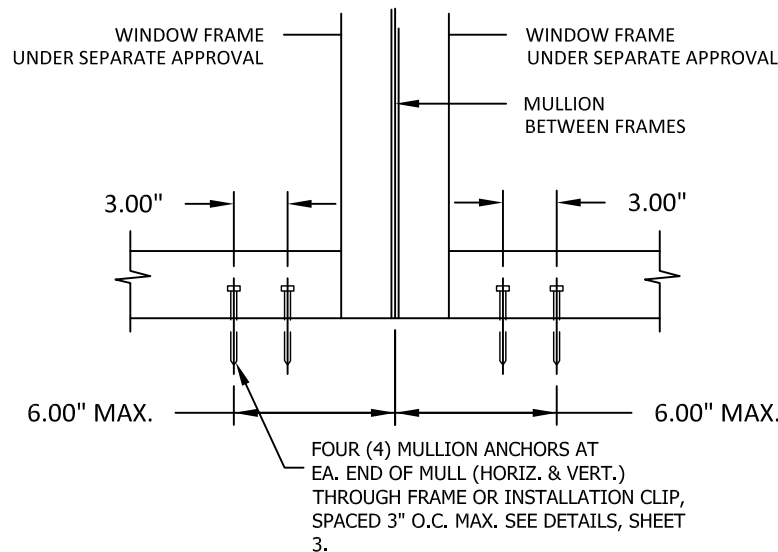
YOW-200 Series Windows: Stacking Mullions - 4518

Design pressures are limited either by mullion or anchor screw capacity

Span (in)	Tributary Width (in)								
	12.0	18.0	24.0	36.0	42.0	48.0	56.0	60.0	62.4
35.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
54.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	147.1
62.0	150.0	150.0	150.0	150.0	150.0	150.0	147.8	146.0	97.2
66.0	150.0	150.0	150.0	150.0	146.4	134.5	124.9	122.3	80.9
72.0	150.0	150.0	150.0	135.4	120.0	109.3	99.9	96.9	63.7
80.0	150.0	150.0	150.0	107.8	94.9	85.7	77.2	74.2	48.5
84.0	150.0	150.0	140.6	97.1	85.3	76.7	68.8	65.9	43.0
90.0	150.0	150.0	122.0	83.9	73.4	65.8	58.6	55.9	36.4
96.0	150.0	141.3	106.9	73.2	63.9	57.1	50.6	48.2	31.3
100.0	150.0	130.1	98.4	67.2	58.6	52.3	46.2	43.9	28.4

NOTES FOR UNCLIPPED MULLION INSTALLATIONS:

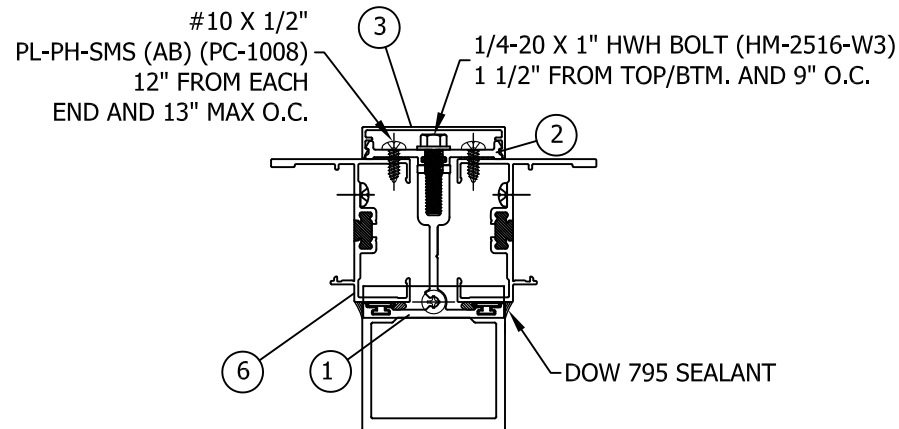
- THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN INSTALLED WITHOUT A MULLION CLIP.
- DESIGN PRESSURES HAVE BEEN DETERMINED IN ACCORDANCE WITH FBC SECTION 1709.8.
- READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE POUNDS PER SQUARE FOOT (PSF).
- TRIBUTARY WIDTH IS DETERMINED BY THE FOLLOWING (REFER TO ELEVATION, SHEET 1):
4.1. $TRIBUTARY\ WIDTH = (A+B)/2$
- DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING. LESSER DESIGN PRESSURE OF INDIVIDUAL WINDOW OR MULLION OF INSTALLATION SHALL GOVERN.



K
4

FRONT VIEW

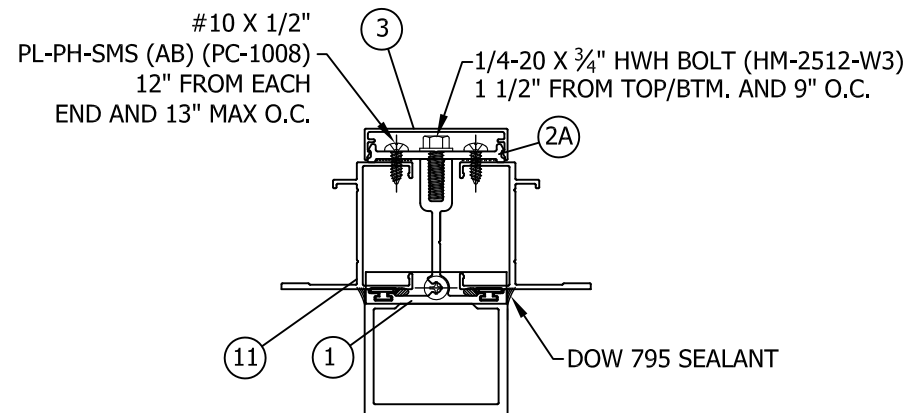
MULLION ANCHOR DETAIL
UNCLIPPED MULLION



L
4

HORIZONTAL VIEW

YOW-225H/TU MULL ASSEMBLY TYP.
UNCLIPPED MULLION



M
4

HORIZONTAL VIEW

YOW-200 MULL ASSEMBLY TYP.
UNCLIPPED MULLION



YKK AP AMERICA

1229 HWY 441 BYPASS
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TITLE: YOW-200/225H/225TU
WINDOWS STACKING MULLIONS

4518

4518 UNCLIPPED MULL DP CHART
& INSTALLATION DETAILS

PREPARED BY:

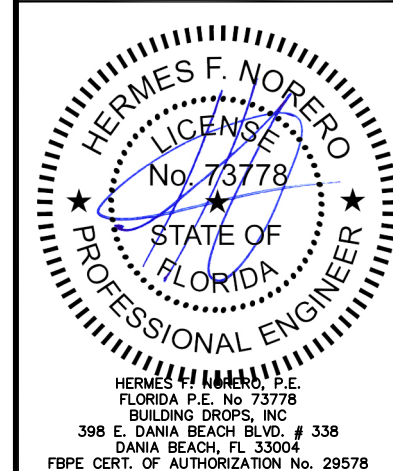
BUILDING DROPS, INC.

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DWG. BY:	EG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK224
SECTION:	4

4518 CLIPPED MULL DP CHART

Maximum design pressure capacity (NONHVHZ)
YOW-200/YOW-225H/YOW-225TU Series Windows: Stacking Mullions - 4518
Design pressures are limited either by mullion or anchor screws or anchor clip capacity

Span (in)	Tributary Width (in)								
	12.0	18.0	24.0	36.0	42.0	48.0	56.0	60.0	62.4
35.0	150.0	148.9	126.3	113.8	113.8	113.8	113.8	113.8	113.8
48.0	138.3	99.3	80.7	64.5	61.5	60.5	60.5	60.5	60.5
54.0	121.0	86.1	69.2	53.8	50.3	48.4	47.8	47.8	47.8
62.0	103.7	73.1	58.1	44.0	40.5	38.2	36.6	36.3	36.3
66.0	96.8	67.9	53.8	40.3	36.9	34.6	32.8	32.3	32.1
72.0	88.0	61.5	48.4	35.9	32.5	30.3	28.3	27.7	27.4
80.0	78.5	54.5	42.7	31.2	28.1	25.9	23.9	23.2	22.9
84.0	74.5	51.6	40.3	29.3	26.3	24.2	22.2	21.5	21.2
90.0	69.2	47.8	37.2	26.9	24.1	22.0	20.1	19.4	19.0
96.0	64.5	44.5	34.6	24.8	22.1	20.2	18.3	17.6	17.2
100.0	61.8	42.6	33.0	23.6	21.0	19.1	17.3	16.6	16.2

NOTES FOR CLIPPED MULLION INSTALLATIONS:

- THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE APPLICABLE MULLION CLIP.
- DESIGN PRESSURES HAVE BEEN DETERMINED IN ACCORDANCE WITH FBC SECTION 1709.8.
- READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE POUNDS PER SQUARE FOOT (PSF).
- TRIBUTARY WIDTH IS DETERMINED BY THE FOLLOWING (REFER TO ELEVATION, SHEET 1):
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- DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING. LESSER DESIGN PRESSURE OF INDIVIDUAL WINDOW OR MULLION OF INSTALLATION SHALL GOVERN.

BILL OF MATERIALS

ITEM	PART No.	DESCRIPTION	MATERIAL
1	E9-4518	MULLION	6063-T5
2	E9-4231	PRESSURE PLATE	6063-T5
2A	E9-4428	PRESSURE PLATE	6063-T5
3	E9-5111	PRESSURE PLATE COVER	6063-T5
4	BE9-4501	FRAME HEAD / SILL/ JAMB	6063-T5
5	E1-1537	MULLION CLIP	6063-T5
6	BE9-4502	FRAME JAMB	6063-T5
7	BE9-4529	STRAP ANCHOR	6063-T5
8	E9-8431	STRAP ANCHOR COVER	6063-T5
9	E3-0038	FRAME ANCHOR CLIP	6063-T5
10	BE9-4566	FRAME ANCHOR CLIP	6063-T5
11	E9-4402	FRAME JAMB	6063-T5



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WINDOWS STACKING MULLIONS

4518

4518 CLIPPED MULL DP CHART,
COMPONENTS, & B.O.M.

PREPARED BY:

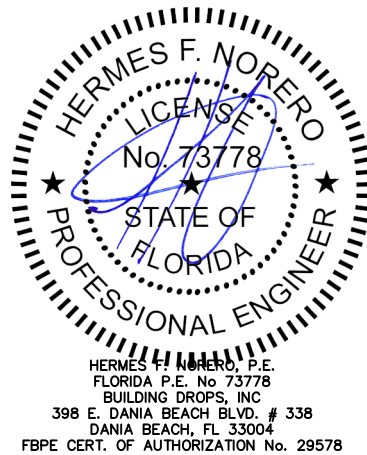
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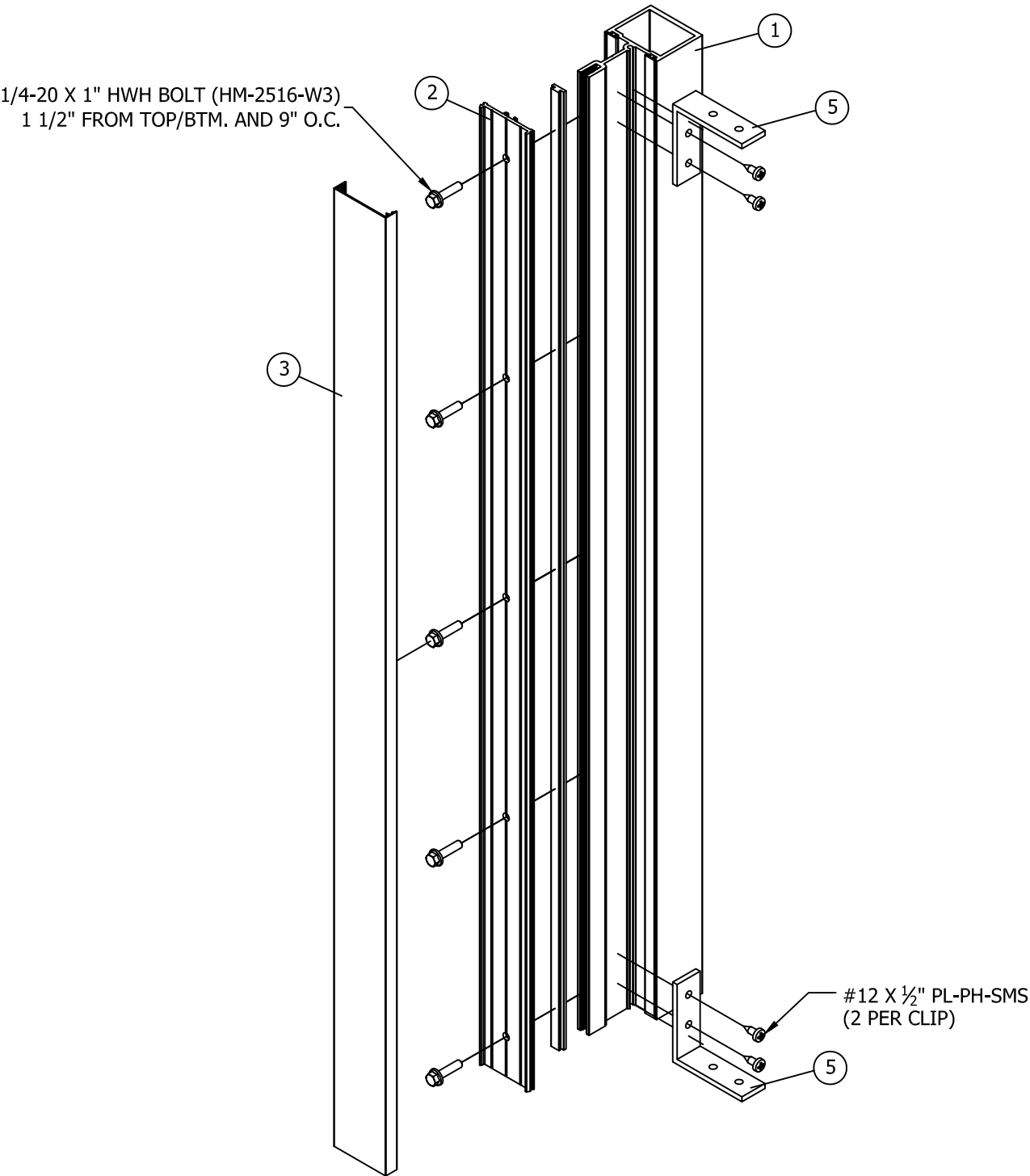
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5

OF 6

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4518 STACKING MULL ASSEMBLY
TYPICAL

NOTE: ITEM# 5 IS NOT REQUIRED FOR
"UNCLIPPED" INSTALLATIONS.



YKK AP AMERICA

1229 HWY 441 BYPASS

DUBLIN, GEORGIA 31021

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

TITLE: YOW-200/225H/225TU
WINDOWS STACKING MULLIONS
4518

4518 MULL ASSEMBLY ISO VIEW

PREPARED BY:



BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338

DANIA BEACH, FL 33004

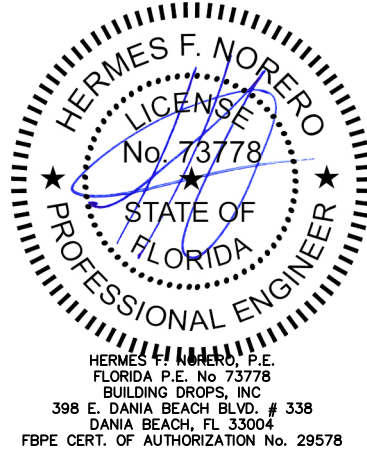
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