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YKK AP AMERICA

YOW-225H/YOW-225TU SERIES WINDOWS

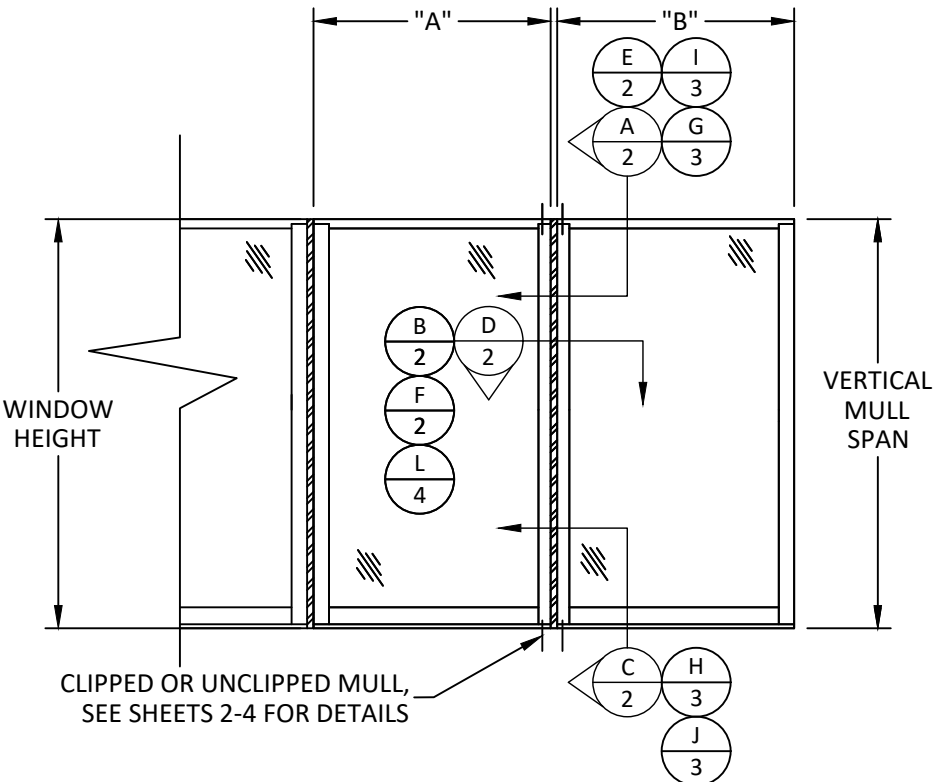
STACKING MULLIONS - 4427

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 +/-½ 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) ¼ " ITW TAPCONS PER MULLION END, ONE (1) PER CLIP, OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1¼" INTO CONCRETE OR MASONRY. (SEE INSTALLATION DETAILS ON SHEET 2).
- FOR MULLION CLIP: USE TWO (2) ¼-20 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) ¼ " ITW TAPCONS, PER MULLION END, OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1¼" INTO CONCRETE OR MASONRY (SEE INSTALLATION DETAILS ON SHEET 3).
- FOR UNCLIPPED MULLIONS: USE FOUR (4) ¼-20 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 ¾" FOR #12 WOOD SCREWS, 2-½" FOR ¼" TAPCONS, & ⅝" FOR ¼-20 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 ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
 - FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
 - CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
- 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 EDITION FBC, SECTION 1709.8 INCLUDING HVHZ, AND HAS BEEN TESTED & EVALUATED IN ACCORDANCE WITH:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED ON THESE PRODUCTS IN WIND BORNE DEBRIS REGIONS ZONE 4 OR LESS SUCH THAT ADJOINING WINDOWS ARE EQUALLY IMPACT RATED.
- 2X WOOD BUCKS AND STEEL 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. IN HVHZ AREAS, A ONE-TIME NOA OR APPROVAL FROM THE AUTHORITY HAVING JURISDICTION (AHJ) MAY BE REQUIRED.
- 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.
- IN ACCORDANCE WITH THE CURRENT EDITION FBC , DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED.



VERTICAL MULLION

SEE GEN. NOTE 5 FOR QUALIFIED CONFIGURATIONS

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SHEET	SHEET DESCRIPTION
1	GENERAL NOTES & ELEVATION
2	CLIPPED MULL INSTALLATION DETAILS
3	UNCLIPPED MULL INSTALLATION DETAILS
4	4427 UNCLIPPED MULL DP CHART & INSTALLATION DETAILS
5	4427 CLIPPED MULL DP CHART, COMPONENTS, & B.OM.
6	4427 MULL ASSMEBLY ISO VIEW

MISSILE IMPACT RATING
LARGE & SMALL MISSILE IMPACT RATED



YKK AP AMERICA
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
SERIES 4562 STACKING MULLIONS

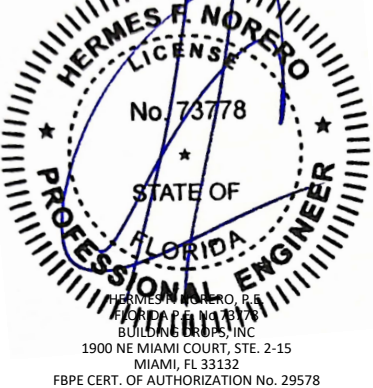
GENERAL NOTES AND ELEVATION

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

REMARKS	BY	DATE
2026 FBC UPDATE	SH	07.24.26

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.08.22 16:00:28 -04'00'



FL #:
FL15710

DATE:
8.22.17

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CHK. BY:
HFN

SCALE:
NTS

DWG. #:
YKK229

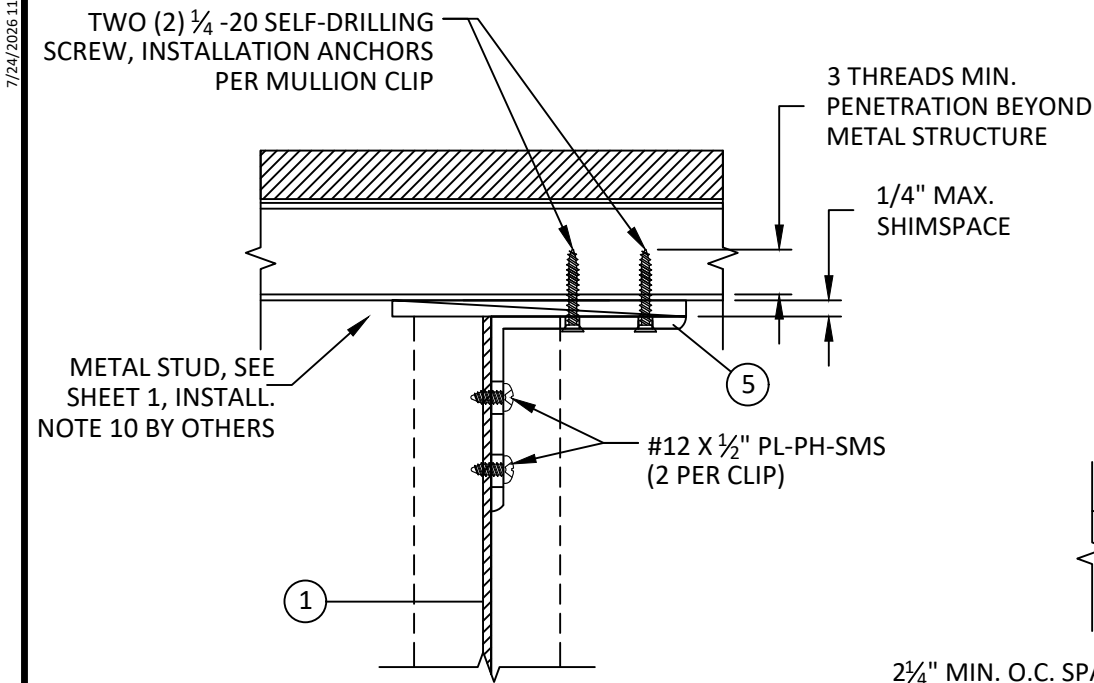
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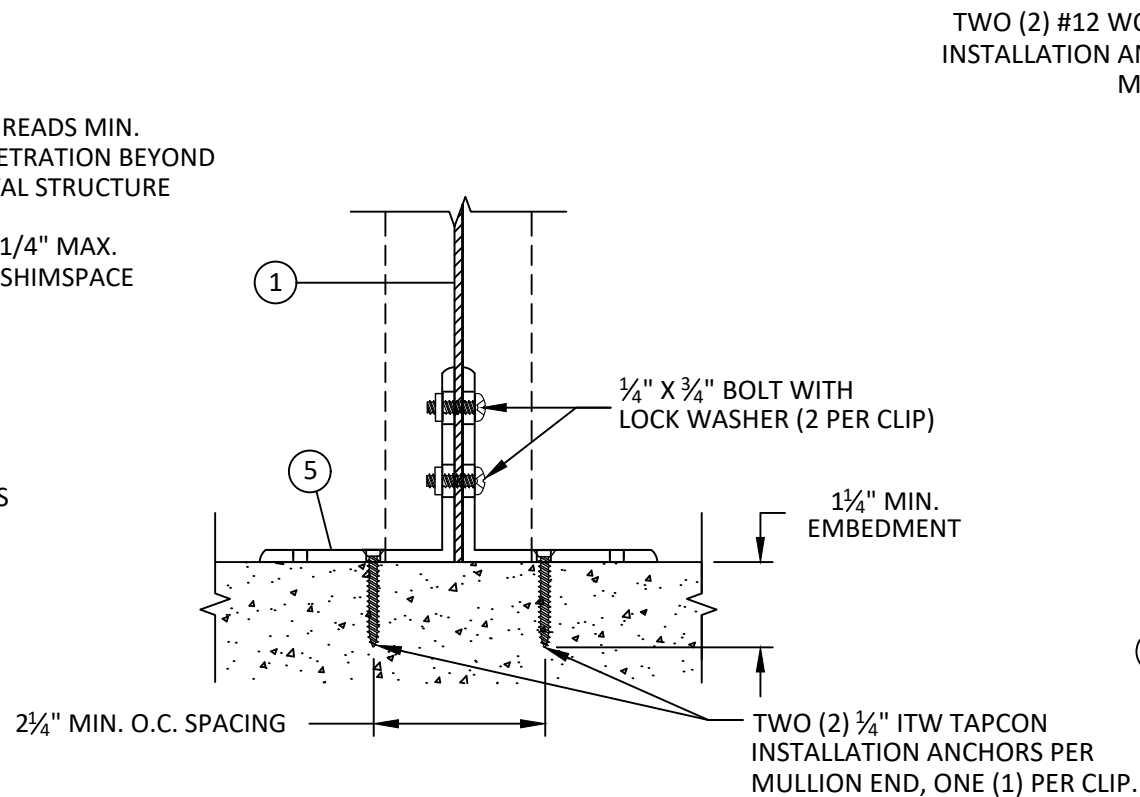
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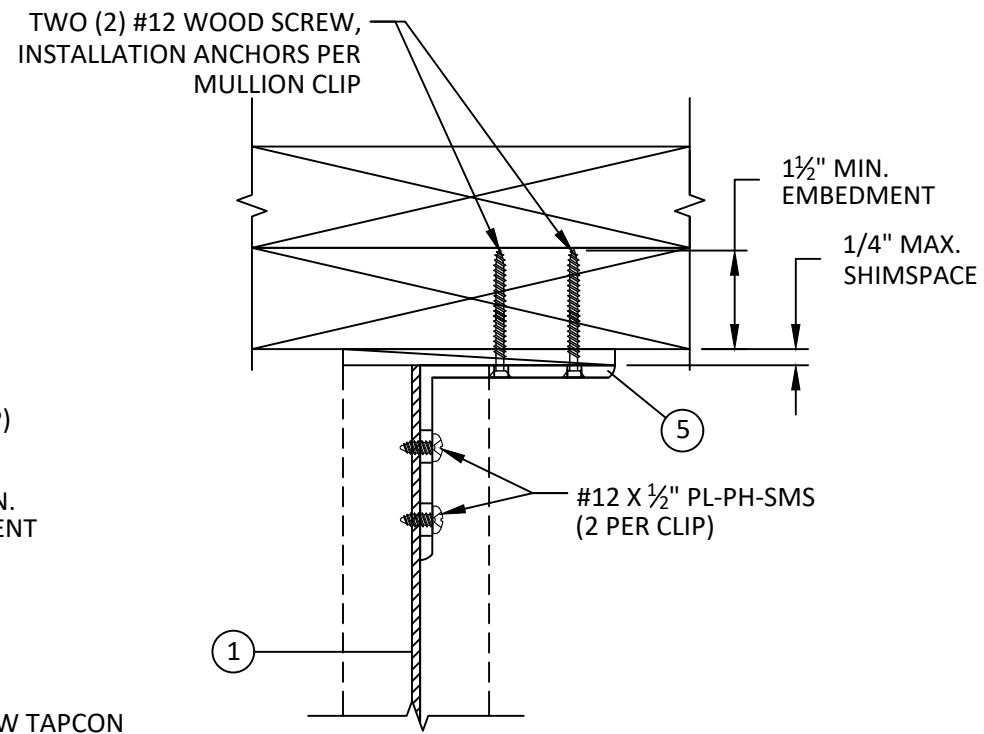
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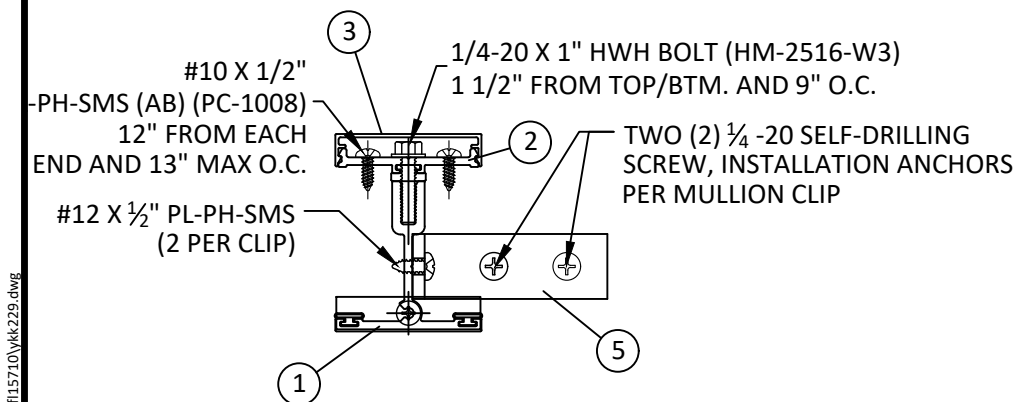
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2 FRONT VIEW
HEAD - METAL STUD
MULLION CLIP



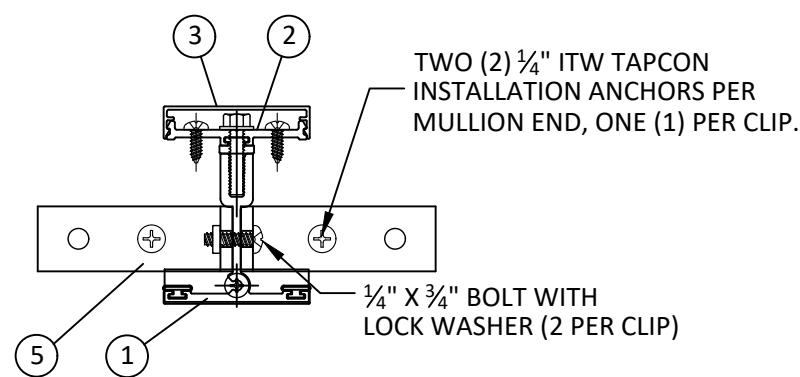
C
2 FRONT VIEW
SILL - CONCRETE/MASONRY
MULLION CLIP



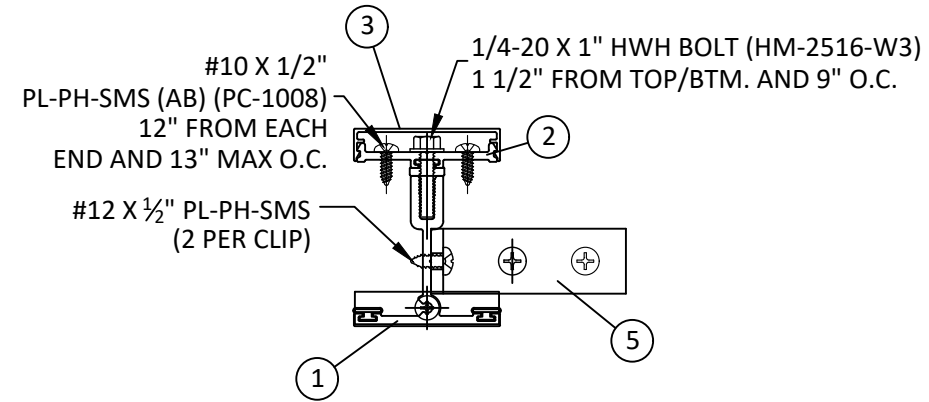
E
2 FRONT VIEW
HEAD - 2X WOOD
MULLION CLIP



B
2 HORIZONTAL SECTION
METAL STUD
MULLION CLIP



D
2 HORIZONTAL SECTION
CONCRETE/MASONRY
MULLION CLIP



F
2 HORIZONTAL SECTION
2X WOOD
MULLION CLIP

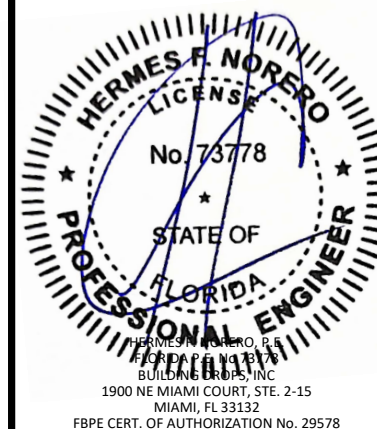


YKK AP AMERICA
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:	SERIES 4562 STACKING MULLIONS	
	CLIPPED MULLION INSTALLATION DETAILS	
PREPARED BY:	BUILDING DROPS, INC.	
	1900 NE MIAMI COURT, STE. 2-15 MIAMI, FL 33132 PH: (954)399-8478 FAX: (954)744-4738 WEB: www.buildingdrops.com	

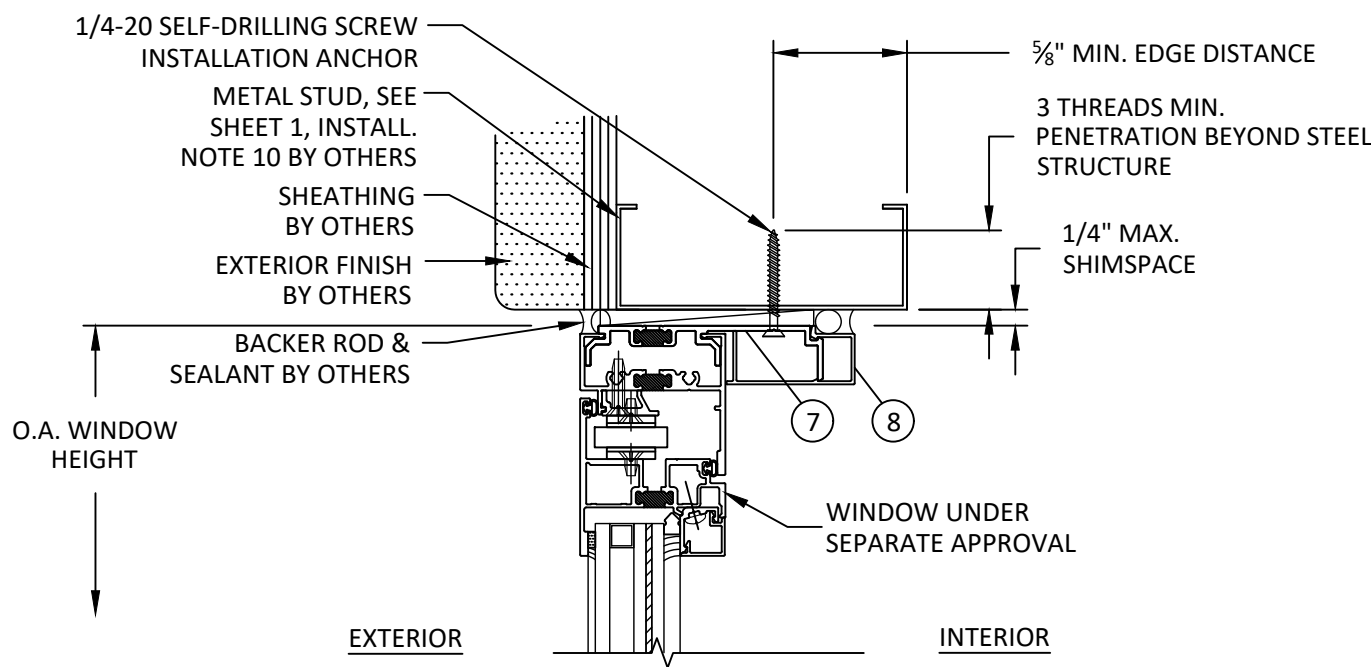
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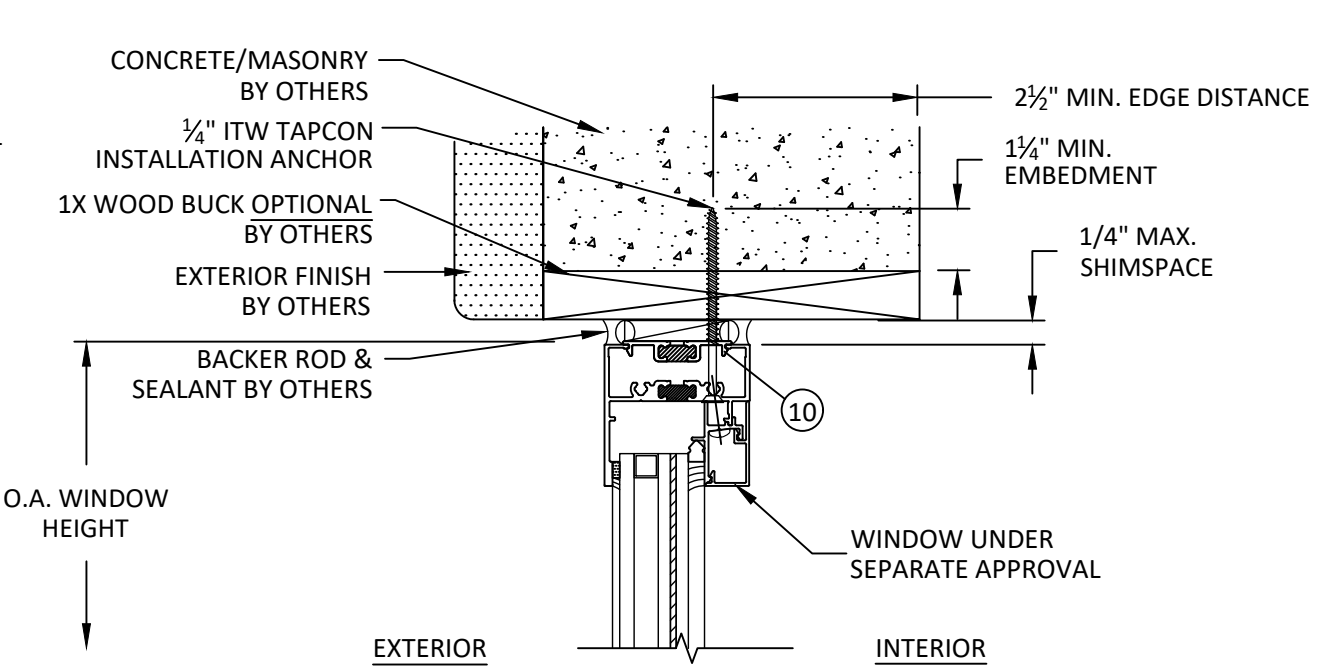


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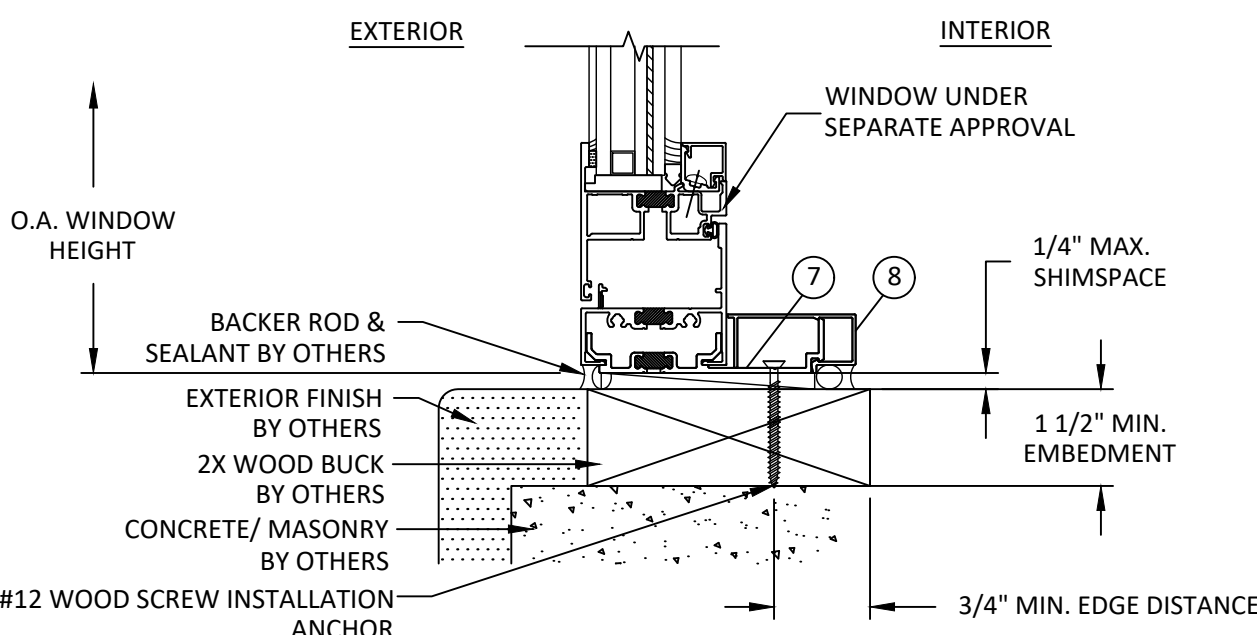
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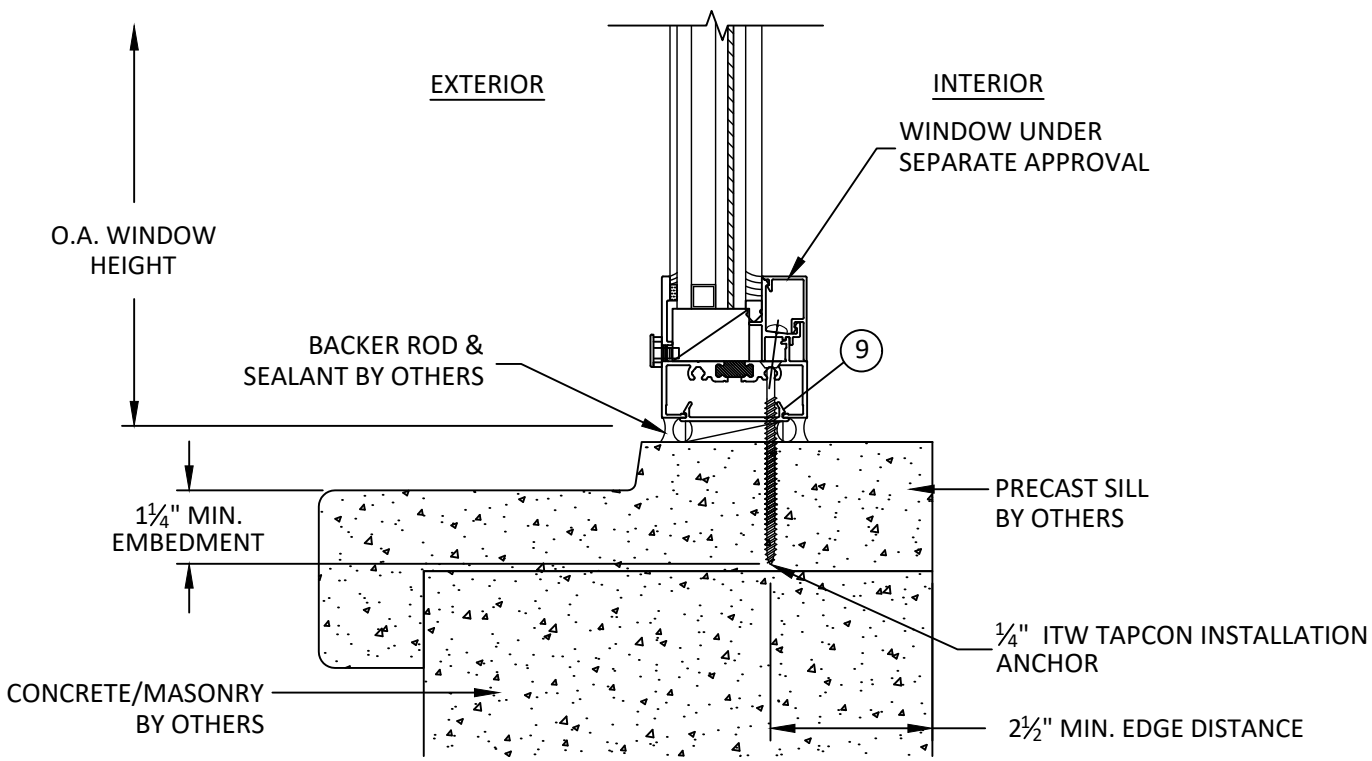
G
3 **VERTICAL SECTION**
HEAD - METAL STUD
UNCLIPPED MULLION (ALT. ANCHOR STRAP)



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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101 MARIETTA STREET NW, SUITE 2100
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PH: (478)277-1955 FAX: (678)838-6001

TITLE: SERIES 4562 STACKING MULLIONS

**UNCLIPPED MULL
INSTALLATION DETAILS**

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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FAX: (954)744-4738
WEB: www.buildingdrops.com

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BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

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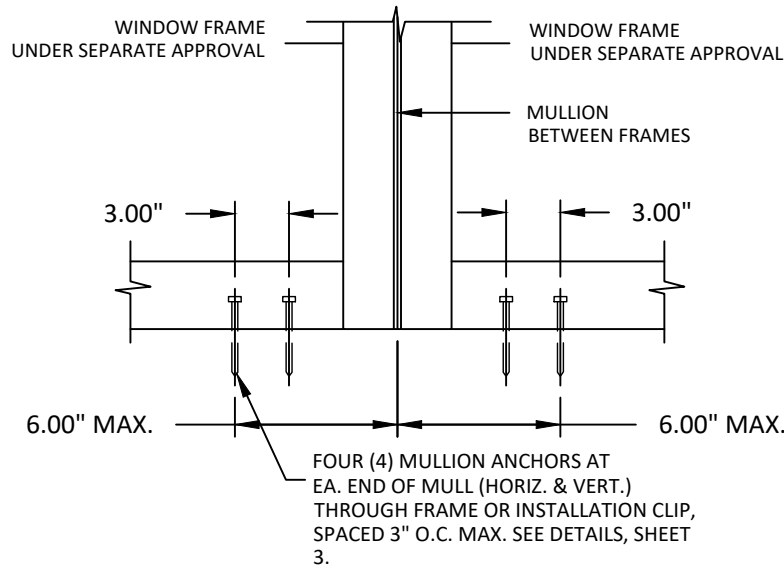
4427 UNCLIPPED MULL DP CHART

Maximum design pressure capacity (HVHZ-Impact)
YOW-225H/YOW-225TU Series Windows: Stacking Mullions - 4427
Design pressures are limited either by mullion or anchor screws

Span (in)	Tributary Width (in)							
	12.0	18.0	24.0	36.0	42.0	48.0	56.0	60.0
35.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48.0	150.0	150.0	150.0	133.7	125.1	122.3	122.3	122.3
54.0	150.0	150.0	137.9	100.8	92.2	87.4	85.9	85.9
62.0	150.0	134.0	102.8	73.4	65.9	61.0	57.5	56.8

NOTES FOR UNCLIPPED MULLION INSTALLATIONS:

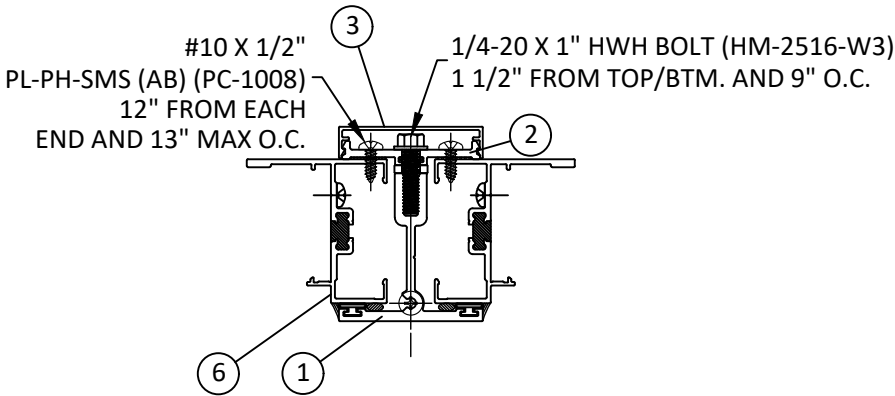
- THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN INSTALLED WITHOUT A MULLION CLIP.
- DESIGN PRESSURES HAVE BEEN DETERMINED IN ACCORDANCE WITH FBC SECTION 1709.8
- READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE POUNDS 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



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TITLE:
SERIES 4562 STACKING MULLIONS

4427 UNCLIPPED MULL DP CHART
& INSTALLATION DETAILS

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

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4427 CLIPPED MULL DP CHART

Maximum design pressure capacity (HVHZ-Impact)
YOW-225H/YOW-225TU Series Windows: Stacking Mullions - 4427
Design pressures are limited either by mullion or anchor screws or anchor clip capacity

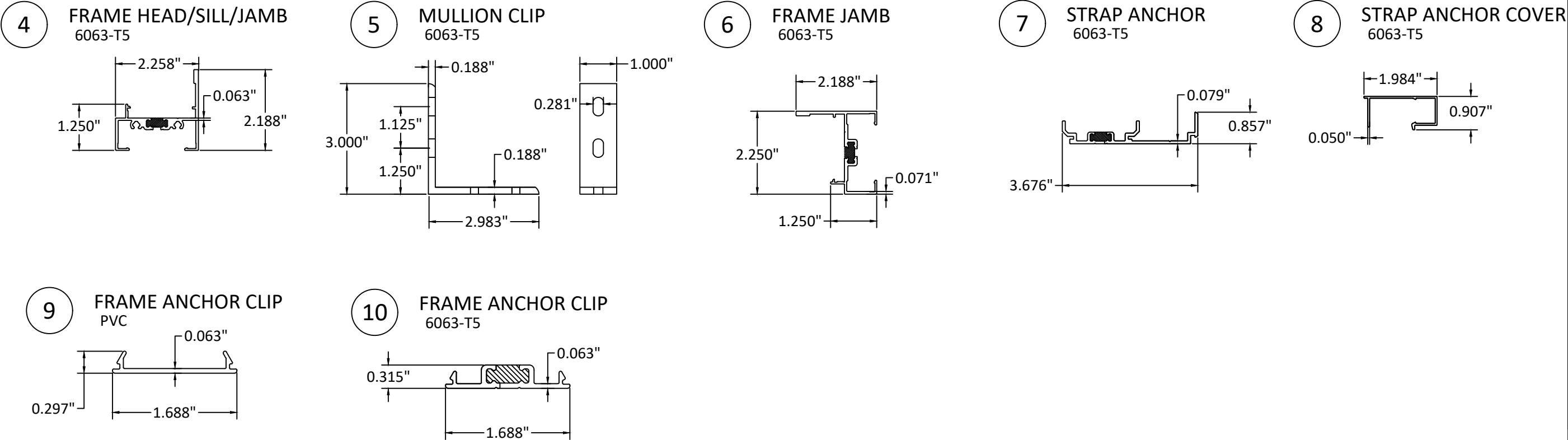
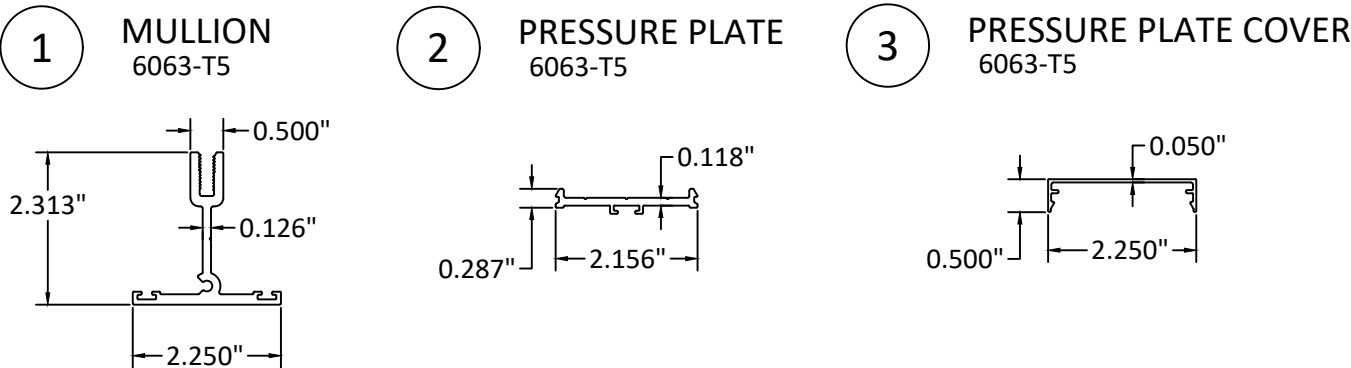
Span (in)	Tributary Width (in)							
	12.0	18.0	24.0	36.0	42.0	48.0	56.0	60.0
35.0	150.0	148.9	126.3	113.8	113.8	113.8	113.8	113.8
48.0	138.3	99.3	80.7	64.5	61.5	60.5	60.5	60.5
54.0	121.0	86.1	69.2	53.8	50.3	48.4	47.8	47.8
62.0	103.7	73.1	58.1	44.0	40.5	38.2	36.6	36.3

NOTES FOR CLIPPED MULLION INSTALLATIONS:

1. THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED ABOVE WHEN USED WITH THE APPLICABLE MULLION CLIP.
2. DESIGN PRESSURES HAVE BEEN DETERMINED IN ACCORDANCE WITH FBC SECTION 1709.8
3. READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE POUNDS PER SQUARE FOOT (PSF).
4. TRIBUTARY WIDTH IS DETERMINED BY THE FOLLOWING (REFER TO ELEVATION, SHEET 1):

4.1. $\text{TRIBUTARY WIDTH} = (A+B)/2$
5. 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 NO.	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	E9-4427	MULLION	6063-T5	YKK AP
2	E9-4231	PRESSURE PLATE	6063-T5	YKK AP
3	E9-5111	PRESSURE PLATE COVER	6063-T5	YKK AP
4	BE9-4501	FRAME HEAD/SILL/JAMB	6063-T5	YKK AP
5	E1-1537	MULLION CLIP	6063-T5	YKK AP
6	BE9-4502	FRAME JAMB	6063-T5	YKK AP
7	BE9-4529	STRAP ANCHOR	6063-T5	YKK AP
8	E9-8431	STRAP ANCHOR COVER	6063-T5	YKK AP
9	E3-0038	FRAME ANCHOR CLIP	PVC	YKK AP
10	BE9-4566	FRAME ANCHOR CLIP	6063-T5	YKK AP



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Quality
inspires™

YKK AP AMERICA
101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
SERIES 4562 STACKING MULLIONS
4427 CLIPPED MULL DP CHART,
COMPONENTS, & B.O.M.

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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REMARKS

2026 FBC UPDATE

BY

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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 COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL15710

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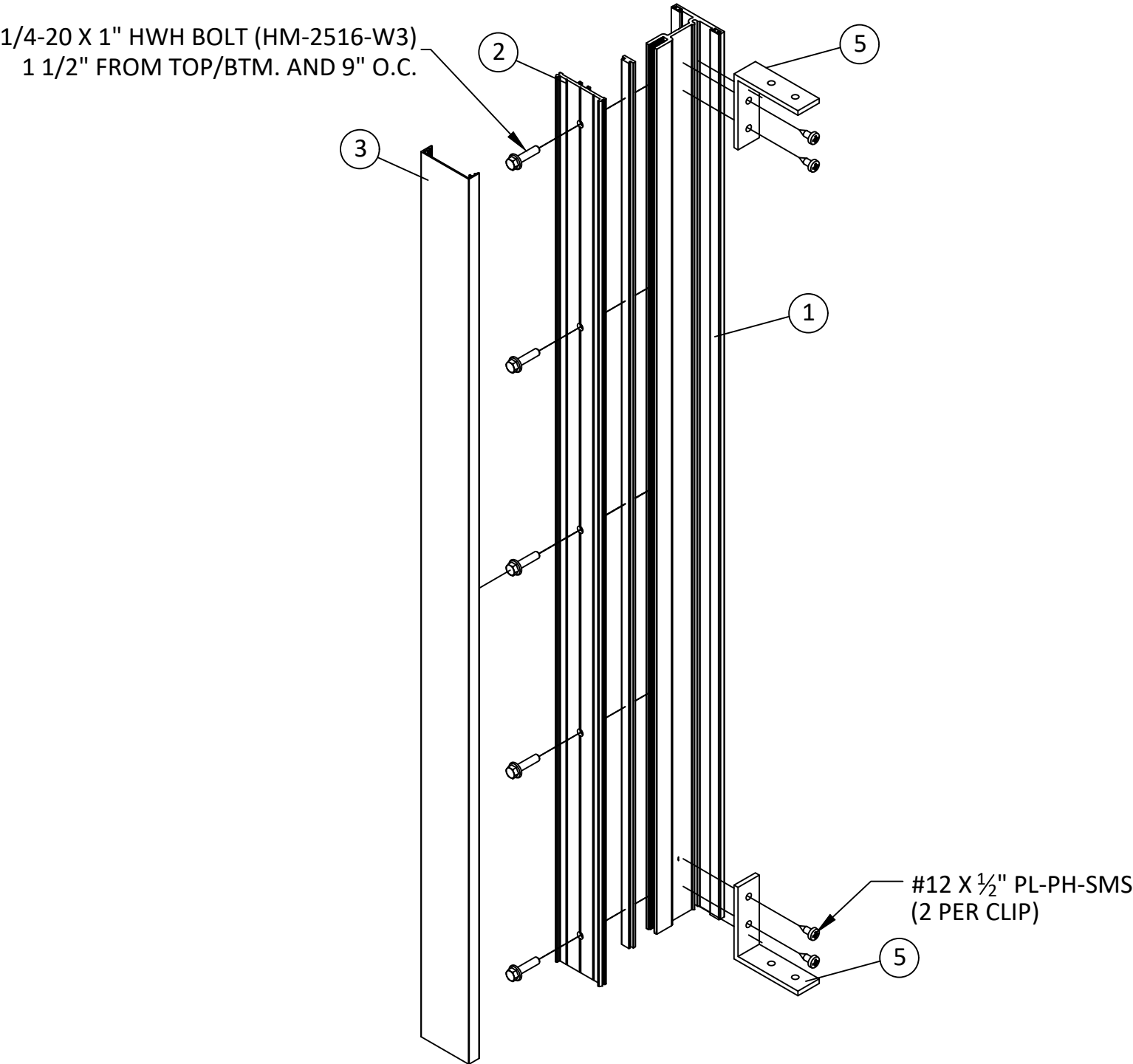
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4427 STACKING MULL ASSEMBLY
TYPICAL

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



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101 MARIETTA STREET NW, SUITE 2100
ATLANTA, GA 30303
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
SERIES 4562 STACKING MULLIONS
4427 MULL ASSEMBLY ISO VIEW

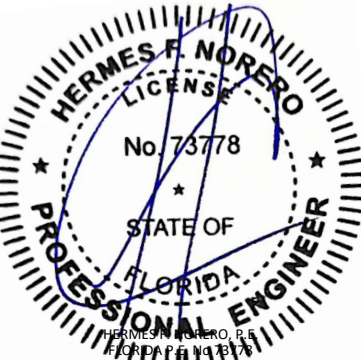
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MIAMI, FL 33132
PH: (954)399-8478
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HERMES F. NORERO, P.E.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

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