

ARMOR SCREEN HEMCORD ROLL-UP SYSTEM

GENERAL NOTES:

- This Flexible Wind Abatement / Impact Protection System is for use within and outside the high velocity hurricane zone (HVHZ - Miami-Dade & Broward Counties). Separation from glass is required only when system is installed within wind zone 4, high velocity hurricane zone and on essential facilities.
- The design loads shall be calculated in accordance with the Florida Building Code 8th Edition (2023) and ASCE 7-22 using ASD load combinations.
- Testing meets Florida Building Code 8th Edition; TAS 201; TAS 202; TAS 203; ASTM E 330-02; ASTM E 1996-17 Level D; and ASTM E 1886-12 per Sections 1620 and 1626 and fulfills its requirement for opening protection.
- Testing performed by Fenestration Testing Laboratory, Inc. Medley, FL:
Test Reports: Date: 01/28/07 File #07-482 Lab #5174 Report #01
Date: 01/28/07 File #07-482 Lab #5180 Report #02
Date: 08/25/07 File #07-482 Lab #5279 Report #03
Date: 12/07/07 File #07-482 Lab #5446 Report #04
Date: 02/08/08 File #08-482 Lab #5533 Report #01
- Testing performed by Blackwater Testing, Inc. West Palm Beach, FL 33413
Date: 01/10/20 Report # BT-ARM-18-002
- Has been tested for resistance to burning, smoke, ignition, temperature and weathering: ASTM C158. ASTM D 635-C1, ASTM D 638, ASTM D 1929 and ASTM G 155.
- The pores in Armor Screen are small enough that the surface tension of water causes the barrier screen to become solid in the presence of rain, and prevents damaging voluminous water intrusion, even from torrential rains.
In dry conditions, the pores remain open, and based on testing, allow approximately 3% of the wind to pass through.
- The unbreached envelope criterion is met since the system is considered "non-porous" and remains intact under impact and air pressure loading. This envelope criterion is met when the system encloses the protected opening all around.
- Product Marking: A permanent label shall be fixed to the screen barrier with the following statement: "Armor Screen Corporation, West Palm Beach, FL, Testing Standards, Current FBC Number, Job Name and Screen Opening/Number, Patented and Patents Pending, US Patent No. 6176050".

PRODUCT DATA:

- Geosynthetic hurricane screen: The hurricane screen shall be produced from a polypropylene, woven geotextile fabric with filaments woven such that the filaments retain dimensional stability relative to each other.
The woven geotextile fabric shall have the following minimum average roll values:
Grab Textile Strength (ASTM D4632) 425 x 325 LBS
Puncture Strength (ASTM D4833) 130 LBS
Mullen Burst (ASTM D3786) 675 PSI
Trapezoidal Tear (ASTM D4533) 150 x 125 LBS
Wide Width Tensile Strength (ASTM D4595) 225 x 205 LBS/IN
Thickness (ASTM D5199) 20 MIL.
Wide Width Elongation (ASTM D4595) 22 x 21%
Apparent Opening Size 30 US STD Sieve
Percentage of Open Area 5%

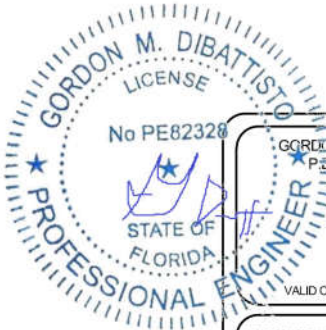
LIMITATIONS OF USE:

- Maximum width 288 Inches / 24 ft
- Maximum Design Pressure +110 / -110 PSF
- The design pressure may be increased 5% for negative loads.

INSTALLATION NOTES:

- Deflection is the minimum glass separation measured at mid span of the screen and subject to rational analysis and may be achieved by using Storm Bars.
- All specifications to be equivalent or greater in product.
- All Aluminum Extrusions to be minimum 6063-T6 or as indicated.
- The thickness of typical facing materials i.e. stucco, siding, stone, brick, pavers, etc. are not to be considered part of the anchor embedment. Longer fasteners may be used to allow for facing materials.
- Anchor embedment shall be in face shell, not mortar joints.
- The screens may be installed at any height on the structure as long as the design pressure rating for the screens is not exceeded.
- All fasteners shall be corrosion resistant as specified in the IRC, IBC and FBC.
- In instances where a screen is made up of two pieces of fabric or for repair purposes, a flat felt seam or triple layer hem with a minimum of two rows of double lock stitch thread is acceptable. The fabric comes in standard lengths such as 12' wide, therefore for screens that are larger, two pieces are seamed together as noted above.
- Roll-up must be installed plumb and level for proper functionality.

All geosynthetic Hurricane Screen assembly details depicted within these drawings are typical for the installation of this wind/rain abatement and impact system only. All other building components shown herein are depicted as existing or samples and not constructed by the screen company.



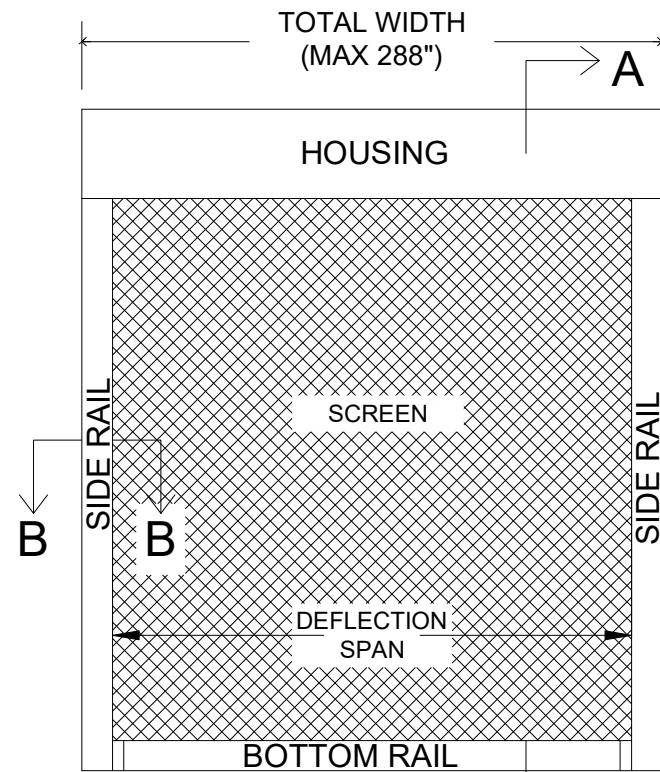
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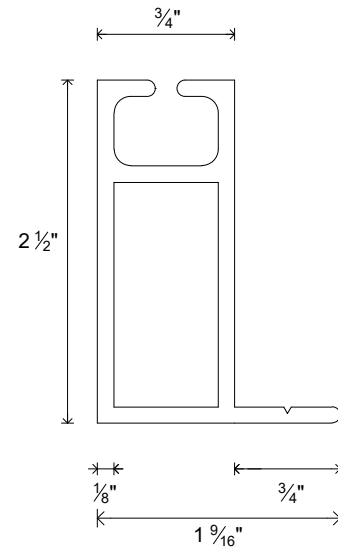
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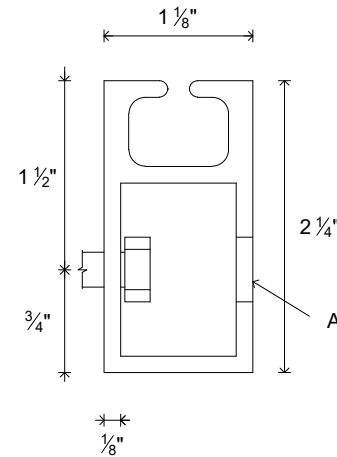
TITLE:	ARMOR SCREEN HEMCORD ROLL-UP SYSTEM FL320	ARMOR SCREEN CORP. 2744 HILLSBORO ROAD WEST PALM BEACH, FL 33405 (561) 841-8890 www.armorscreen.com
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SHEET:	1 of 15	



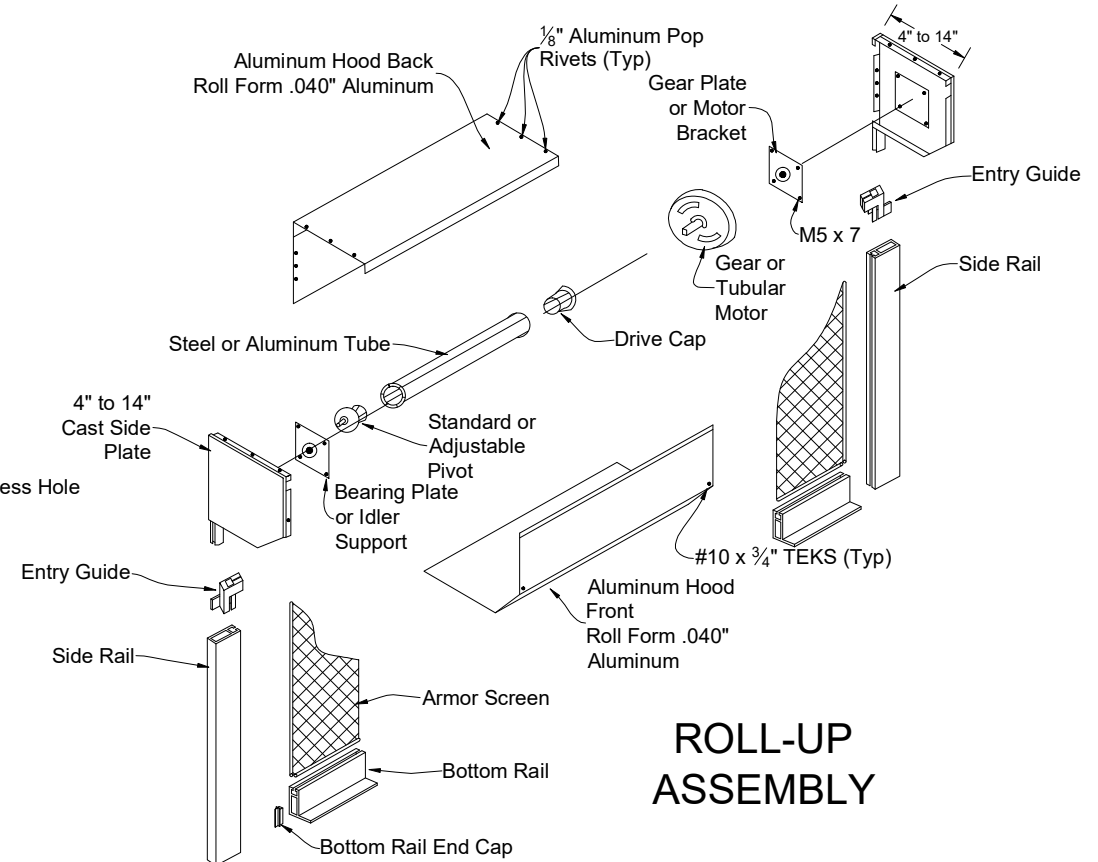
ROLL-UP SCREEN
ELEVATION



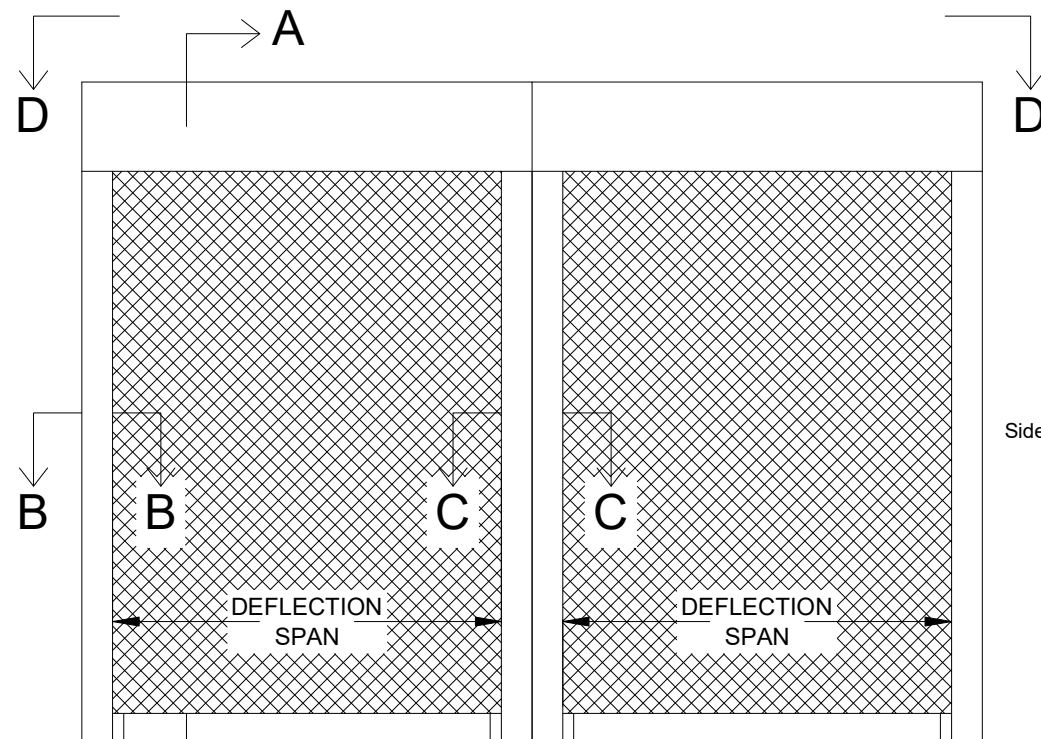
ROLL-UP BOTTOM RAIL
6063-T6 Aluminum



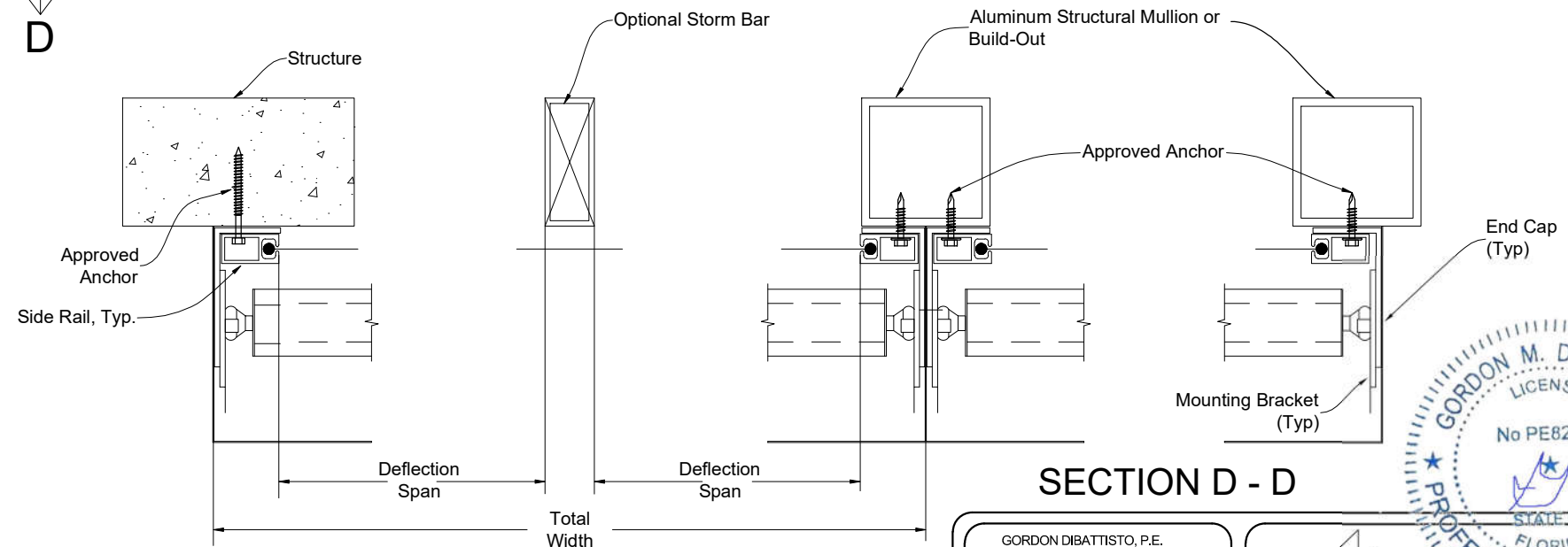
ROLL-UP SIDE RAIL
6063-T6 Aluminum



ROLL-UP
ASSEMBLY



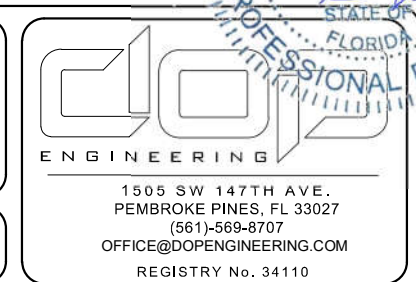
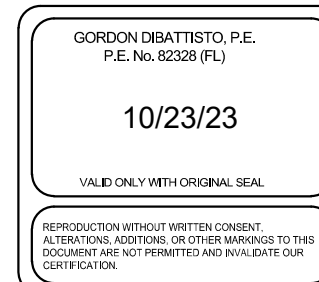
MULTI UNIT ROLL-UP SCREEN
ELEVATION



SECTION D - D

NOTES:

1. Refer to page 5 for storm bar data.
2. The storm bar splits the anchor / deflection span into multiple deflection spans, each of which is used to determine the minimum deflection.
3. Multiple storm bars may be used
4. All aluminum extrusions to be 6063-T6 minimum.
5. For Mullion details, see sheet 6.

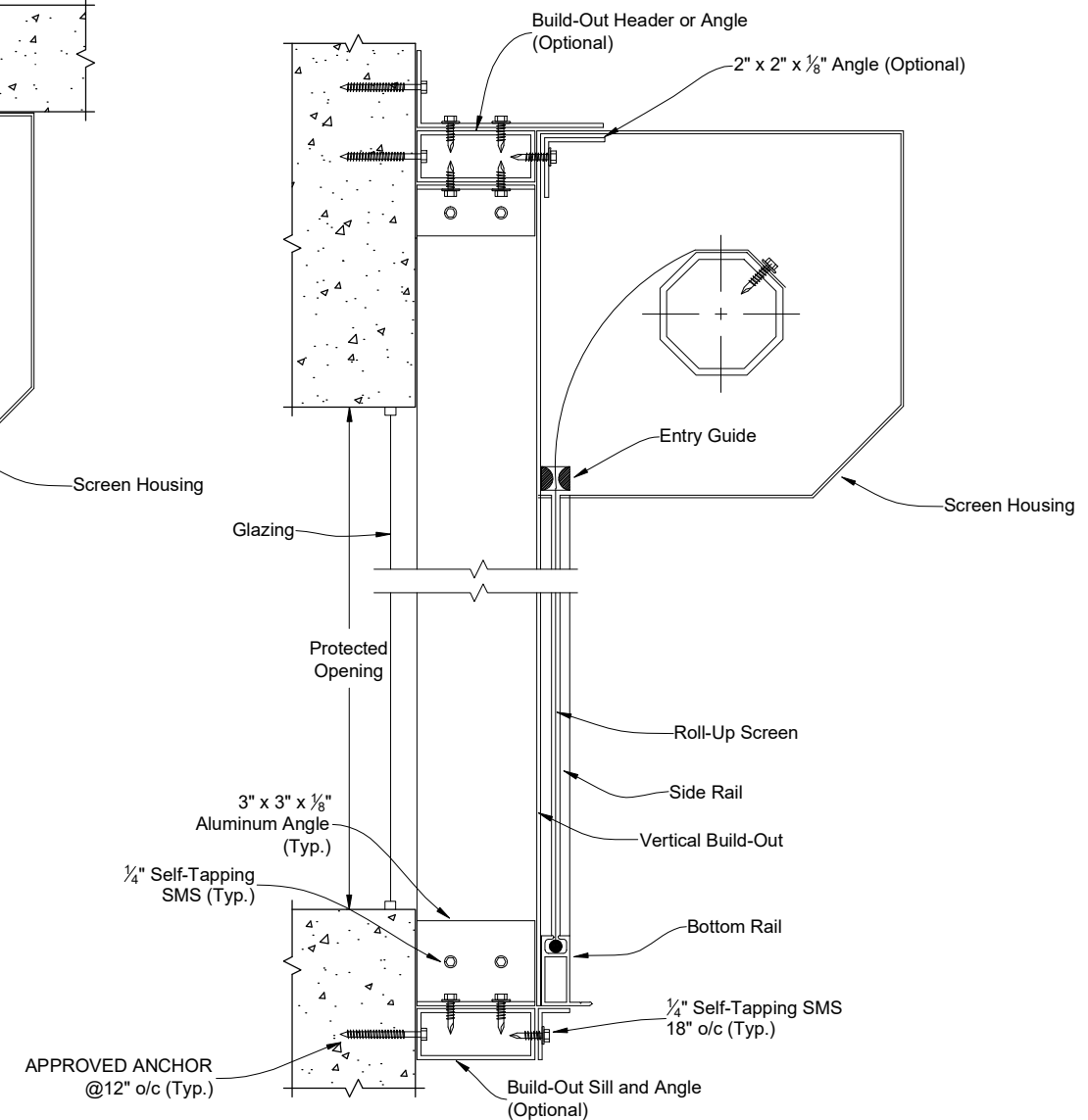
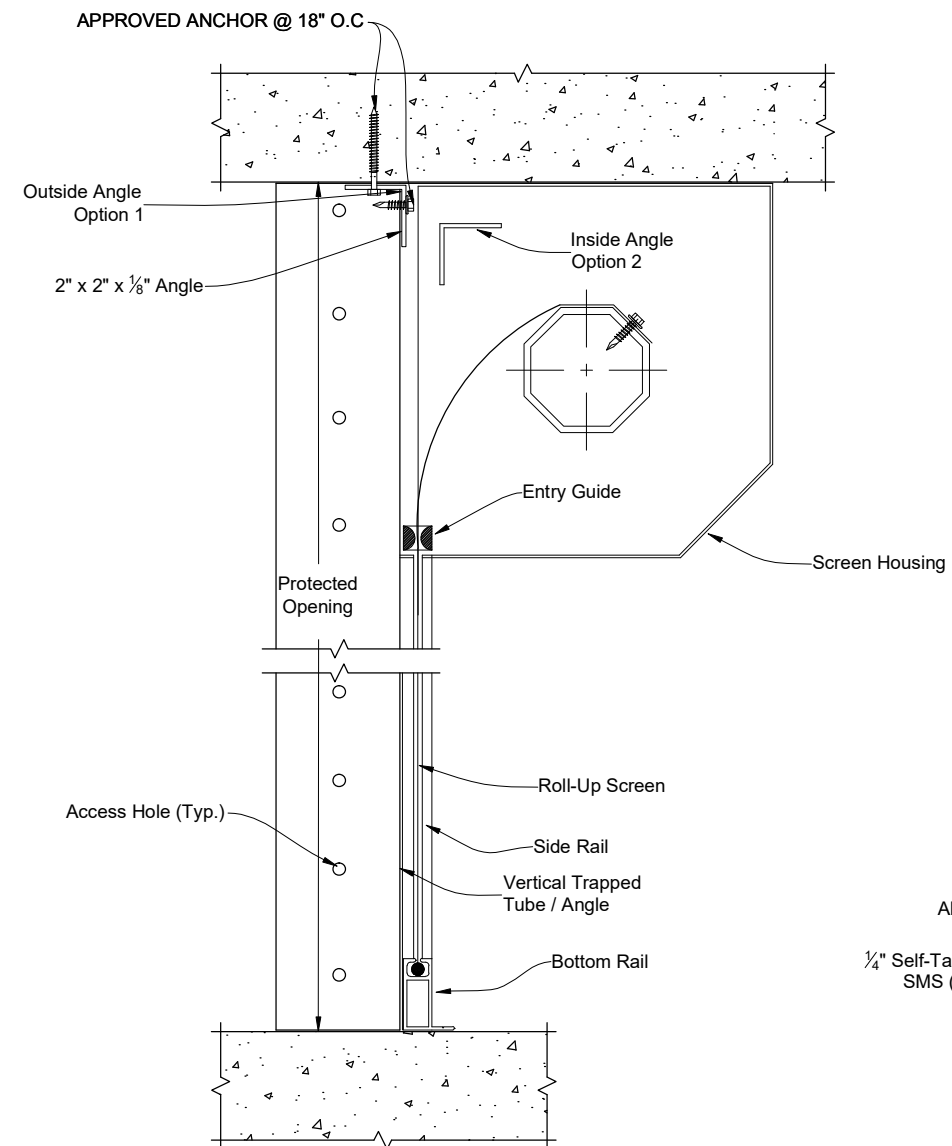
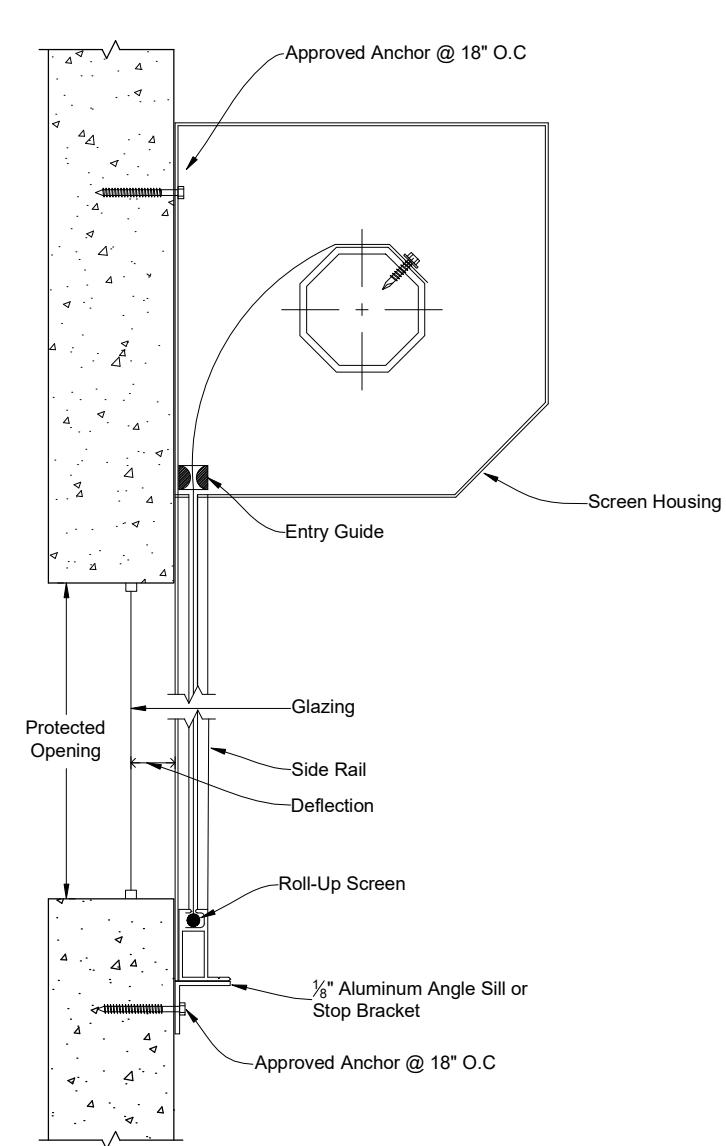


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TITLE:
ARMOR SCREEN
HEM-CORD ROLL-UP
SYSTEM FL320



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WALL MOUNT SECTION A - A

TRAPPED SECTION A - A

BUILD-OUT SECTION A - A

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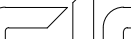
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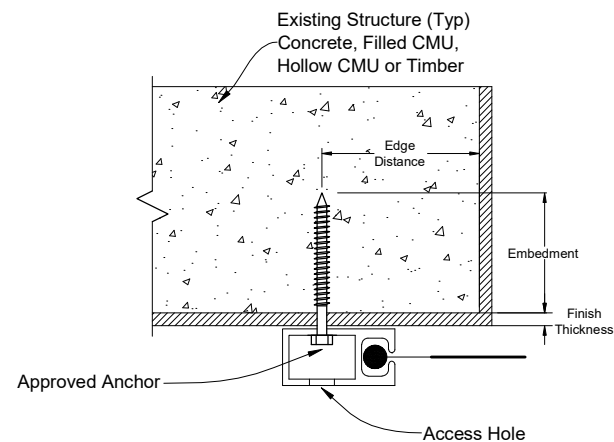


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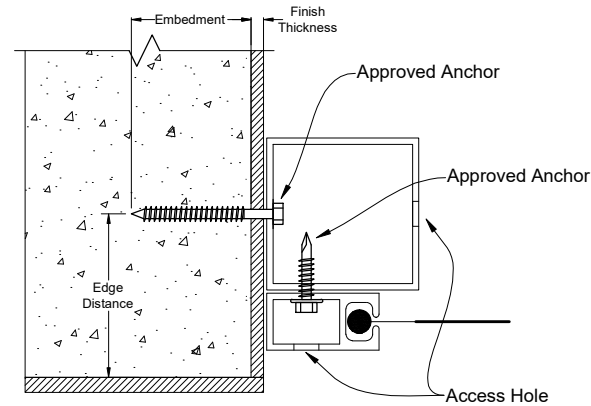


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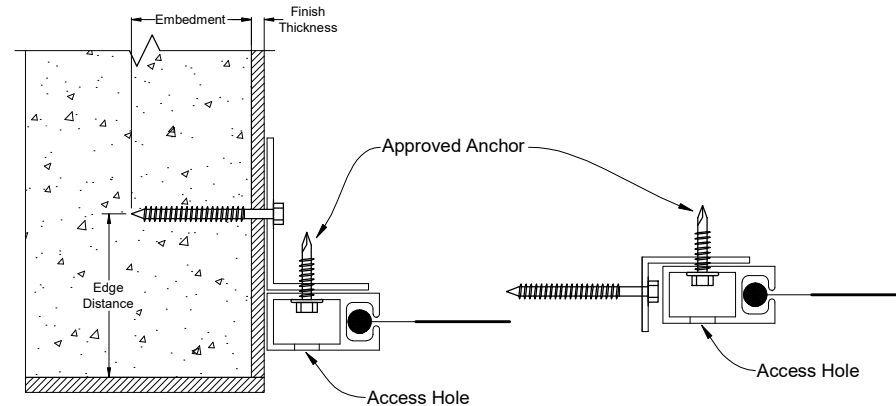


SECTION B - B TYPE 1
WALL MOUNT INSTALLATION



SECTION B - B TYPE 2
TRAPPED TUBE INSTALLATION

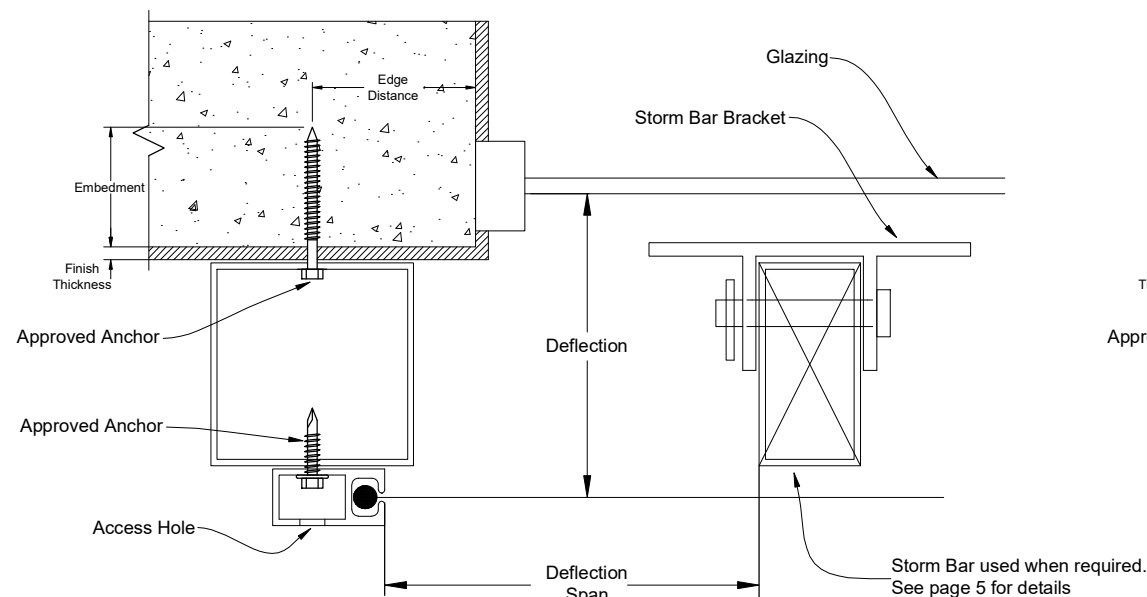
2" x 4" x (1/8" or 1/4")
2" x 3" x (1/8" or 1/4")
3" x 3" x (1/8" or 1/4")
3" x 4" x (1/8" or 1/4")
2 1/2" x 2 1/2" x 1/8"



SECTION B - B TYPE 3
TRAPPED ANGLE INSTALLATION

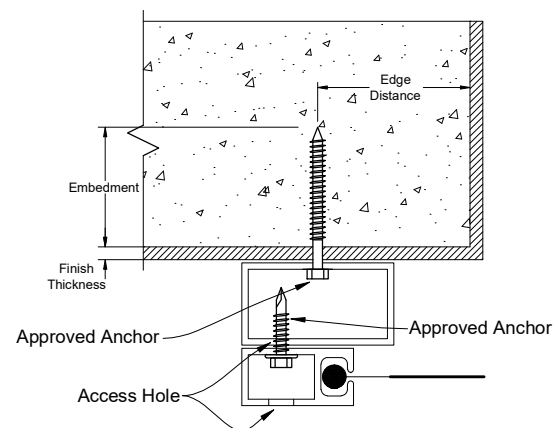
2" X 2" X 3/16"
2" X 3" X 3/16"

TYPE 3 ALTERNATIVE



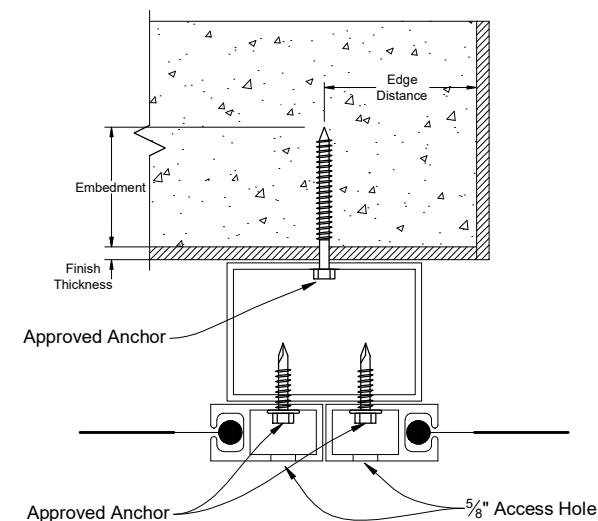
SECTION B - B TYPE 4
BUILD-OUT INSTALLATION

2" x 4" x (1/8" or 1/4")
4" x 4" x (1/8" or 1/4")
3" x 4" x (1/8" or 1/4")



SECTION B - B TYPE 5
BUILD-OUT INSTALLATION

1" x 3" x (1/8" or 1/4")
2" x 3" x (1/8" or 1/4")
3" x 3" x (1/8" or 1/4")
4" x 3" x (1/8" or 1/4")
2 1/2" X 2 1/2" X 1/8"



SECTION C - C TYPE 1
STRUCTURAL POST FOR MULLION

1" x 4" x (1/8" or 1/4")
2" x 4" x (1/8" or 1/4")
3" x 4" x (1/8" or 1/4")
4" x 4" x (1/8" or 1/4")

NOTES:

1. The storm bar splits the anchor / deflection span into multiple deflection spans, each of which is used to determine the minimum deflection.
2. Multiple storm bars may be used.
3. All aluminum extrusions to be 6063-T6 minimum.
4. Mount all build out tubes with widest side against the structure.
5. Larger Tubes / Angles are acceptable



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SIDE RAIL DETAILS



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SHEET: 4 of 15

TITLE: ARMOR SCREEN
HEMLOCK ROLL-UP
SYSTEM FL320

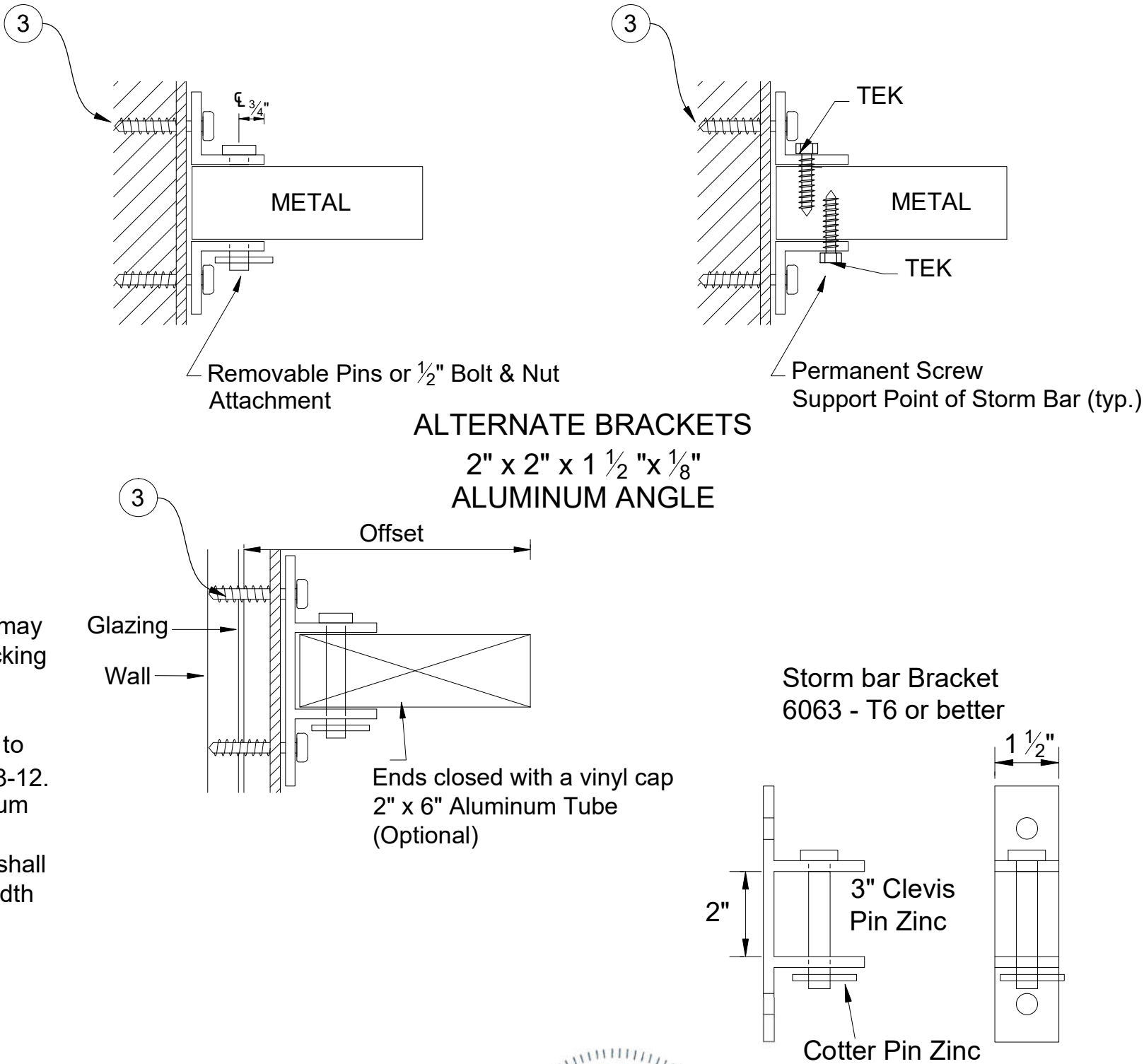


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STORM BAR TABLE									
Storm Bar Span / Length		3'	4'	5'	6'	8'	10'	12'	14'
Max. PSF		Per Deflection Table							
Deflection		Per Deflection Table							
1	Reserved								
2	Reserved								
3	Alum. Tube 1" x 2" x 1/8" 6063-T6	x							
4	Alum. Tube 2" x 2" x 1/8" 6063-T6	x	x	x					
5	Alum. Tube 2" x 4" x 1/8" 6061-T6	x	x	x					
6	Alum. Tube 2" x 4" x 1/4" 6061-T6	x	x	x	x				
7	Alum. Tube 2" x 6" x 1/8" 6061-T6	x	x	x	x	x			
8	Alum. Tube 2" x 6" x 1/4" 6061-T6	x	x	x	x	x	x	x	
9	Alum. Tube 2" x 8" x 1/4" 6061-T6	x	x	x	x	x	x	x	x

STORM BAR NOTES:

1. The storm bar system is designed to achieve required deflection and may utilize one or more storm bars. The offset may be increased with blocking at the support.
2. Storm bars may be positioned vertically or as required.
3. The storm bar bracket may be permanent or removable and attached to the structure using two (2) approved 1/4 inch anchors. Refer to pages 8-12.
4. Use "Deflection" span and positive wind pressure to determine minimum separation between screen and glazing.
5. Storm Bars #3, #4, #5 and #6, screen width supported by storm bars shall be equal to span or 6' maximum. For screens wider than maximum width use multiple storm bars.
6. For deflection requirements See table D-1.1 on Sheet 7 of 12.



STORM BAR



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SHEET:	5 of 15	

MULLION	
Type	Size
A	4 x 4 - 1/4"
B	4 x 6 - 1/4"
C	4 x 8 - 1/4"

MAX. SCREEN WIDTH				
PSF	65	75	90	110
WIDTH	16'	15'	13'	12'

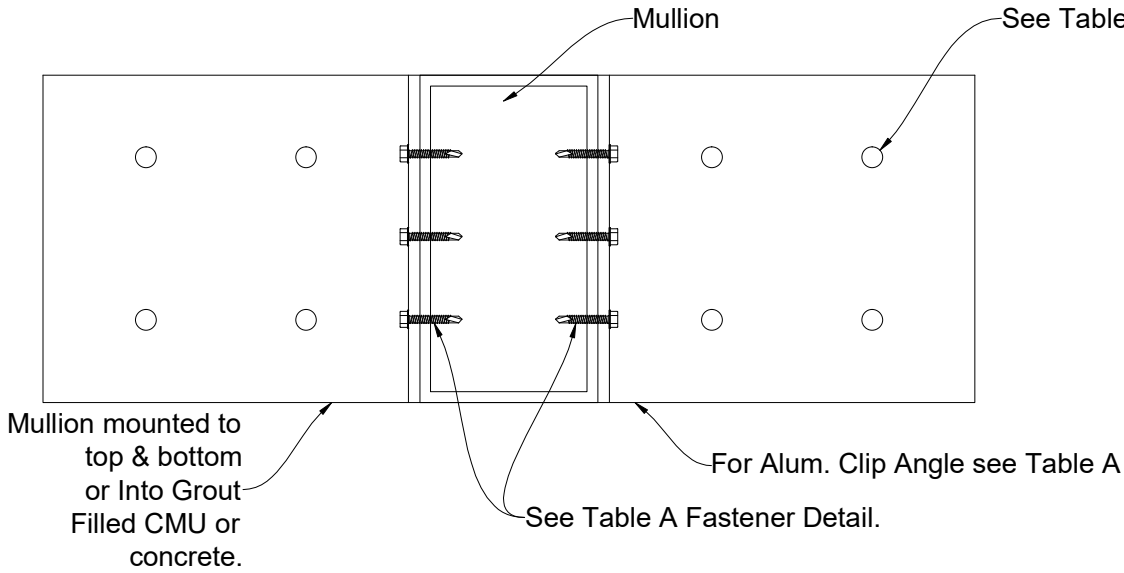
MULLION SELECTION CHART								
HT \ PSF	35	45	55	65	75	90	110	
14'	B	C	C	---	---	---	---	
12'	B	C	C	C	C	---	---	
11'	B	B	C	C	C	C	---	
10'	B	B	B	B	B	C	C	
9'	B	B	B	B	B	B	C	
8'	A	A	B	B	B	B	B	
7'	A	A	A	A	A	B	B	
6'	A	A	A	A	A	A	A	
5'	A	A	A	A	A	A	A	
4'	A	A	A	A	A	A	A	

- NOTES:
1. All mullions to be Aluminum 6061-t6.
 2. Mullion shall not be used within Wind Zone 4, High Velocity Hurricane Zone and Essential Facilities.
 3. All screws & fasteners shall be corrosion resistant.
 4. Larger dimension of Mullion shall be perpendicular to Screen.
 5. Mullion shall be used with Screen on both sides, not isolated or corner.

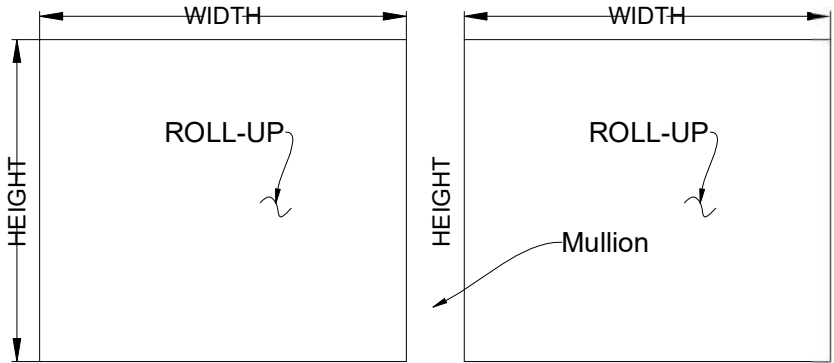
TABLE A (3,000 PSI Concrete) or Grout Filled CMU			
Mullion Type	Anchor Detail	Min. Emb.	Fastener Detail
A*	4 x 4 - 3/16" 6063-T6 Alum. Clip Angle (4) 1/4" Tapcon	1 3/4"	(4) 1/4"-14 Teks
B*	4 x 6 - 3/16" 6063-T6 Alum. Clip Angle (8) 1/4" Tapcon	1 3/4"	(6) 1/4"-14 Teks
C**	4 x 8 - 3/16" 6063-T6 Alum. Clip Angle (8) 3/8" LDT Anchor	3 1/2"	(6) 1/4"-28 Teks

*A & B: 2" x Depth of Mullion x 3/16" 6063-T6 Alum. Clip Angle.

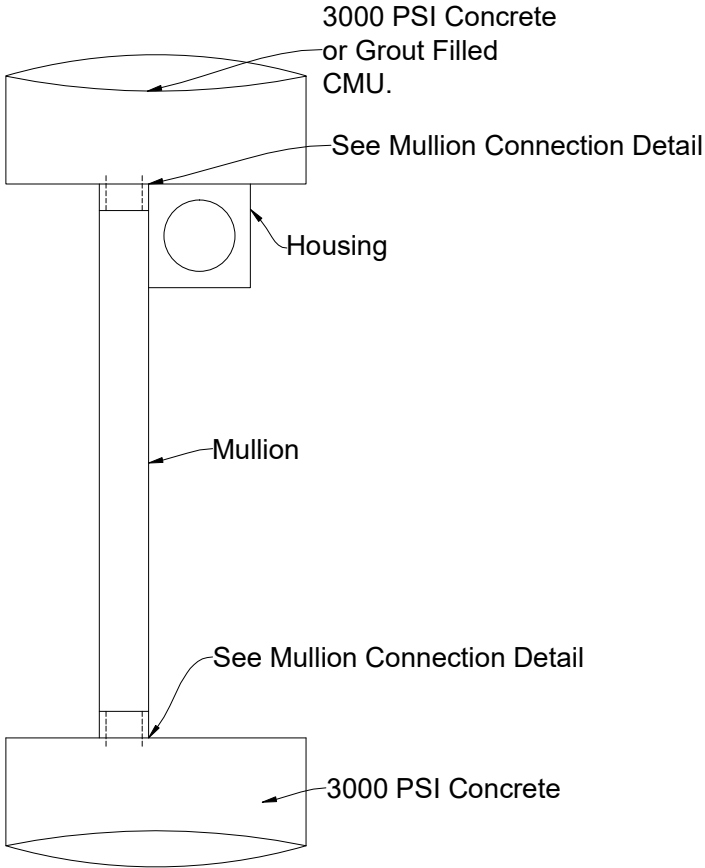
**C: 8" x Depth of Mullion x 5/16" 6063-T6 Alum. Clip Angle 1" from, edge of steel and 6" O.C.



MULLION CONNECTION DETAIL



MULLION DIAGRAM



MULLION ELEVATION

MULLION

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ARMOR SCREEN

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ANCHOR SPACING

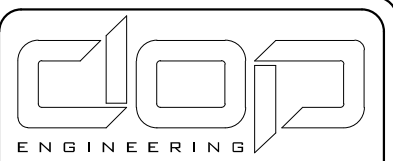
TABLE 1 CONCRETE, 3000 PSI - 1/4" ANCHORS

	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width										
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"
3000 PSI CONCRETE - 1/4" ANCHORS	1/4" DIA. Red Head Tapcon Concrete and Masonry	1 3/4"	3"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"
				60 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	4"	4"	4"
				90 (psf)	12"	12"	6"	6"	6"	6"	4"	4"	4"	---	---
				110 (psf)	12"	12"	6"	6"	6"	4"	4"	4"	---	---	---
	1/4" DIA. PANELMATE (MALE OR FEMALE OR HEX HEAD)	1 3/4"	2 1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"
				40 (psf)	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"
				60 (psf)	12"	12"	12"	6"	6"	6"	6"	4"	4"	4"	4"
				90 (psf)	12"	12"	6"	6"	6"	4"	4"	4"	4"	---	---
				110 (psf)	12"	12"	6"	6"	6"	4"	4"	4"	---	---	---
	1/4" DIA. DEWALT CRETE FLEX 410 SS	2"	2 1/2"	30 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				40 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				60 (psf)	12"	12"	12"	6"	6"	6"	6"	6"	6"	---	---
				90 (psf)	12"	12"	12"	6"	6"	6"	6"	6"	---	---	---
				110 (psf)	12"	12"	6"	6"	6"	6"	---	---	---	---	---
	1/4" DIA. DEWALT SCREW BOLT+	2 1/2"	3"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
				60 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				90 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	---	---
				110 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	---	---	---
	1/4" DIA. DEWALT ULTRACON SS4	1 3/4"	2 1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"
				60 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	4"	4"
				90 (psf)	12"	12"	6"	6"	6"	6"	4"	4"	4"	---	---
				110 (psf)	12"	12"	6"	6"	6"	4"	4"	4"	---	---	---

NOTES:

- Provide longer fasteners, if required, to allow for thickness of finishes such as stucco, plaster, siding, etc.
- All to be installed as per manufacturer installation instructions.





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SHEET: 8 of 15

ANCHOR SPACING

TABLE 2 CONCRETE, 3000 PSI - 5/16" ANCHORS

3000 PSI CONCRETE - 5/16" ANCHORS	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width										
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"
	5/16" DIA. TAPCON XL RED HEAD	1 3/4"	2 3/16"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
				60 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				90 (psf)	12"	12"	12"	6"	6"	6"	6"	6"	---	---	---
				110 (psf)	12"	12"	12"	6"	6"	6"	6"	---	---	---	---
	5/16" DIA DEWALT ULTRACON+	2 1/4"	2 3/16"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"
				90 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"	---

TABLE 3 CONCRETE, 3000 PSI - 3/8" ANCHORS

3000 PSI CONCRETE - 3/8" ANCHORS	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width										
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"
	3/8" DIA. DEWALT SCREW BOLT+	3 1/4"	3 1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				90 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"
				110 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"
	3/8" LDT 410 SS	3 1/2"	5"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"
				90 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"

- NOTES:
- Provide longer fasteners, if required, to allow for thickness of finishes such as stucco, plaster, siding, etc.
 - All to be installed as per manufacturer installation instructions.



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www.armorscreen.com

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DWG #: 201-2010

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ANCHOR SPACING

TABLE 4 CONCRETE BLOCK (CMU)- 1/4" AND 5/16"

CONCRETE BLOCK (CMU) F'm= 1800 psi (note typical F'm= 1500 psi)	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width										
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"
	1/4" DIA. 410 SS TAPCON RED HEAD	1"	4"	30 (psf)	12"	12"	6"	6"	6"	6"	4"	4"	4"	---	---
				40 (psf)	12"	6"	6"	6"	4"	4"	---	---	---	---	---
				60 (psf)	6"	6"	4"	4"	---	---	---	---	---	---	---
				90 (psf)	6"	4"	---	---	---	---	---	---	---	---	---
				110 (psf)	6"	4"	---	---	---	---	---	---	---	---	---
	1/4" DIA. PANELMATE (MALE OR FEMALE OR HEX HED)	1 1/4"	3"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	6"	6"	4"	4"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	4"	4"	4"	---
				60 (psf)	12"	12"	12"	12"	6"	6"	6"	---	---	---	---
				90 (psf)	12"	12"	6"	6"	6"	6"	6"	---	---	---	---
				110 (psf)	12"	6"	6"	6"	6"	6"	6"	---	---	---	---
	5/16" DIA. DEWALT ULTRACON+	1 1/4"	4"	30 (psf)	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"
				40 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	---	---	---
				60 (psf)	12"	12"	6"	6"	6"	---	---	---	---	---	---
				90 (psf)	12"	6"	6"	6"	---	---	---	---	---	---	---
				110 (psf)	12"	6"	6"	---	---	---	---	---	---	---	---

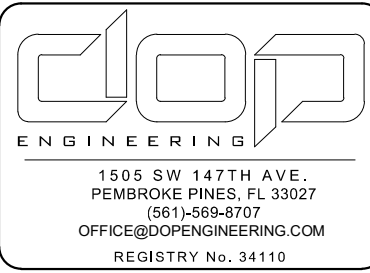
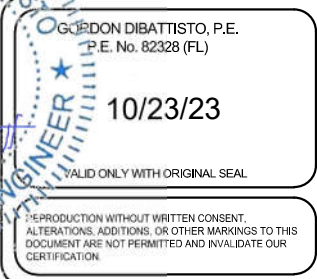
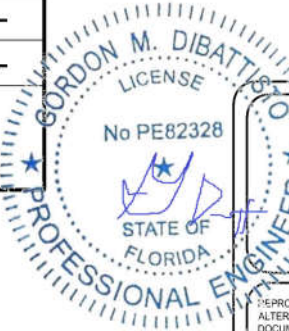
TABLE 5 CMU AND TERRA COTTA BLOCK WITH STUCCO - 1/4" AND 3/8"

TERRACOTTA BLOCK AND STUCCO	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width											
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"	
	¼" DIA. DEWALT CRETE FLEX MASONRY FASTENERS	1 ¼"	2 ½"	30 (psf)	12"	12"	12"	6"	6"	6"	6"	6"	6"	6"	6"	6"
				40 (psf)	12"	12"	6"	6"	6"	6"	6"	6"	---	---	---	
				60 (psf)	12"	6"	6"	6"	6"	---	---	---	---	---	---	
				90 (psf)	6"	6"	6"	6"	---	---	---	---	---	---	---	
				110 (psf)	6"	6"	6"	---	---	---	---	---	---	---	---	
	CUSTOM COUPLER IN EPOXY	3 ¼"	4"	30 (psf)	12"	12"	12"	12"	12"	---	---	---	---	---	---	---
				40 (psf)	12"	12"	12"	12"	6"	---	---	---	---	---	---	---
				60 (psf)	12"	12"	12"	6"	6"	---	---	---	---	---	---	---
				90 (psf)	12"	12"	6"	6"	6"	---	---	---	---	---	---	---
				110 (psf)	12"	12"	6"	6"	6"	---	---	---	---	---	---	---
Notes: 1. Custom fastener = ⅜" x 2 ½" threaded rod (304SS) w/ ⅜" x 1 ¼" coupler (316SS) fully inserted in ½" dia. screen tube fully filled w/ Dewalt Pure 50+ 2. ⅜" x 1" carriage bolt, eye bolt, or machine screw																

- Allowable values for Terra Cotta Block with Stucco per HTL Test report #0365-0416-06 dated 05-31-06.

NOTES:

- Provide longer fasteners, if required, to allow for thickness of finishes such as stucco, plaster, siding, etc.
- All to be installed as per manufacturer installation instructions.
- Embedments shall be in the face shell, not at mortar joints



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ANCHOR SPACING

TABLE 6 SOLID GROUTED (CMU) - 1/4"

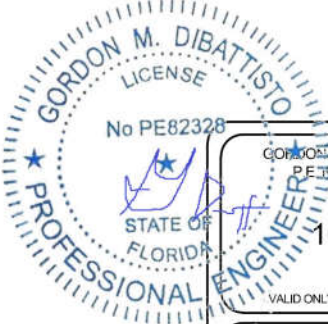
	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width										
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"
SOLID GROUTED (CMU)	1/4" DIA. 410 SS TAPCON RED HEAD	1"	4"	30 (psf)	12"	12"	6"	6"	6"	6"	---	---	---	---	---
				40 (psf)	12"	6"	6"	6"	---	---	---	---	---	---	---
				60 (psf)	6"	6"	6"	---	---	---	---	---	---	---	---
				90 (psf)	6"	6"	---	---	---	---	---	---	---	---	---
				110 (psf)	6"	6"	---	---	---	---	---	---	---	---	---
	1/4" DIA. DEWALT SCREW BOLT+	2 1/2"	3 3/4"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"
				60 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				90 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	---	---
				110 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	---	---
	1/4" DIA. DEWALT CRETE-FLEX 410 SS	2"	2 1/2"	30 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				40 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	---	---	---
				60 (psf)	12"	12"	6"	6"	6"	---	---	---	---	---	---
				90 (psf)	12"	6"	6"	---	---	---	---	---	---	---	---
				110 (psf)	12"	6"	---	---	---	---	---	---	---	---	---

- NOTES:
- Provide longer fasteners, if required, to allow for thickness of finishes such as stucco, plaster, siding, etc.
 - All to be installed as per manufacturer installation instructions.
 - Embedments shall be in the face shell, not at mortar joints

TABLE 7 SOLID GROUTED (CMU) - 5/16" AND 3/8"

	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width										
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"
SOLID GROUTED (CMU)	3/8" ASTM 304-316 SS THREADED ROD IN EPOXY W/ SS COUPLER	3 1/2"	12"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"
				60 (psf)	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"
				90 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"	6"
	3/8" DIA. DEWALT SCREW BOLT +	3 1/2"	6"	30 (psf)	24"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"
				60 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				90 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	---	---	---
				110 (psf)	12"	12"	12"	6"	6"	6"	6"	6"	---	---	---
	5/16" DIA. DEWALT ULTRACON	2 1/4"	2 1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"
				40 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				60 (psf)	12"	12"	12"	6"	6"	6"	6"	6"	6"	6"	6"
				90 (psf)	12"	12"	6"	6"	6"	6"	6"	6"	---	---	---
				110 (psf)	12"	12"	6"	6"	6"	6"	6"	6"	---	---	---

- SOLID GROUTED CMU NOTES:
- Spacing for fasteners used in testing are shown at spacing used in tests
 - Spacing for all other fasteners calculated with SF=3 min.



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ANCHOR SPACING

TABLE 8 WOOD SYP (SG = 0.55 MIN) - 1/4" and 5/16"

WOOD SYP (SG = 0.55 MIN)	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width										
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"
	1/4" DIA. PANELMATE (MALE OR FEMALE OR HEX HEAD)	2"	3/4"	30 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				40 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				60 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				90 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	---	---	---
				110 (psf)	12"	12"	12"	6"	6"	6"	6"	6"	---	---	---
	1/4" DIA. SPAX SCREW	1 3/4"	3/4"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"
				40 (psf)	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"
				60 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	---	---
				90 (psf)	12"	12"	12"	6"	6"	6"	---	---	---	---	---
				110 (psf)	12"	12"	6"	6"	6"	6"	---	---	---	---	---
	1/4" DIA. SS LAG SCREWS	2"	3/4"	30 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	4"	4"
				40 (psf)	12"	12"	12"	6"	6"	6"	4"	4"	---	---	---
				60 (psf)	12"	6"	6"	6"	4"	---	---	---	---	---	---
				90 (psf)	12"	6"	6"	4"	---	---	---	---	---	---	---
				110 (psf)	12"	6"	6"	---	---	---	---	---	---	---	---
	5/16" DIA. SS LAG SCREWS	2"	1 1/4"	30 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	---	---
				40 (psf)	12"	12"	12"	6"	6"	6"	6"	---	---	---	---
				60 (psf)	12"	12"	6"	6"	---	---	---	---	---	---	---
				90 (psf)	12"	6"	6"	---	---	---	---	---	---	---	---
				110 (psf)	12"	6"	6"	---	---	---	---	---	---	---	---

- WOOD SYP (SG = 0.55 MIN) NOTES:
- Provide longer fasteners, if required, to allow for thickness of finishes such as stucco, plaster, siding, etc.
 - Design as per NDS 2018.
 - Lag Anchor to be fully embedded.
 - Douglas Fir - Larch alternate acceptable wood type
 - Note to installer: 1/2" Lag Screw does not have available hole plug for side rail. (Typical for attachment of tube/angle to structure)

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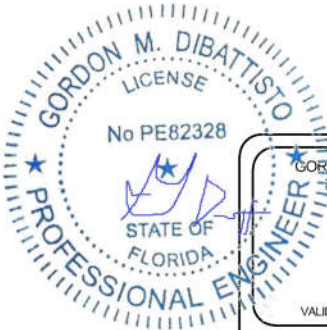
DATE: 01/03/2011

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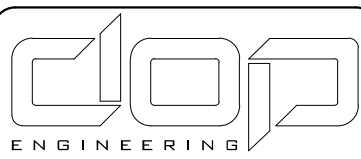
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ANCHOR SPACING

TABLE 9 WOOD SYP (SG = 0.55 MIN) - 3⁄8" and 1⁄2"

WOOD SYP (SG = 0.55 MIN)	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width										
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"
	3⁄8" DIA. SS LAG SCREWS	2"	1 1⁄2"	30 (psf)	12"	12"	12"	12"	6"	6"	6"	---	---	---	---
				40 (psf)	12"	12"	12"	6"	6"	6"	---	---	---	---	---
				60 (psf)	12"	12"	6"	6"	---	---	---	---	---	---	---
				90 (psf)	12"	6"	6"	---	---	---	---	---	---	---	---
				110 (psf)	6"	6"	6"	---	---	---	---	---	---	---	---
	3⁄8" DIA. SS LAG SCREW	3"	1 1⁄2"	30 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"	6"
				40 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"	6"
				60 (psf)	12"	12"	6"	6"	6"	6"	---	---	---	---	---
				90 (psf)	12"	6"	6"	4"	---	---	---	---	---	---	---
				110 (psf)	6"	6"	6"	---	---	---	---	---	---	---	---
	1⁄2" DIA. SS LAG SCREW	3"	2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"
				90 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"

- WOOD SYP #2 NOTES:
- Provide longer fasteners, if required, to allow for thickness of finishes such as stucco, plaster, siding, etc.
 - Design as per NDS 2018.
 - Lag Anchor to be fully embedded.
 - Douglas Fir - Larch alternate acceptable wood type
 - Note to installer: 1⁄2" Lag Screw does not have available hole plug for side rail. (Typical for attachment of tube/angle to structure)

GORDON M. DIBATTISTO

LICENSE

No PE82328

STATE OF FLORIDA

PROFESSIONAL ENGINEER

GORDON DIBATTISTO, P.E.

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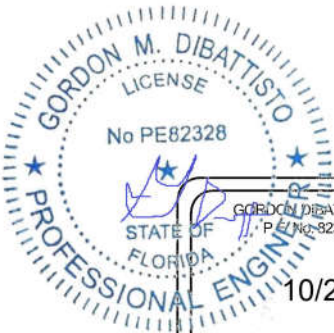
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ANCHOR SPACING

TABLE 10 METAL - #12, 1/4" AND 5/16"

	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width										
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"
18 GAGE METAL STUDS	1/4"-14 TEKS SELF-TAPPING SCREWS	---	1/2"	30 (psf)	12"	12"	12"	6"	6"	6"	6"	4"	4"	---	---
				40 (psf)	12"	12"	6"	6"	6"	4"	---	---	---	---	---
				60 (psf)	12"	6"	6"	4"	---	---	---	---	---	---	---
				90 (psf)	6"	6"	6"	---	---	---	---	---	---	---	---
				110 (psf)	6"	6"	6"	---	---	---	---	---	---	---	---
3/16" STEEL	1/4"-14 TEKS SELF-TAPPING SCREWS	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				90 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"
1/8" (12 GA) STEEL	1/4"-14 TEKS SELF-TAPPING SCREWS	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"
				90 (psf)	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
1/8" ALUMINUM 6063-T6	1/4"-14 TEKS SS SELF-TAPPING SCREWS	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"
				60 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"	4"
				90 (psf)	12"	12"	12"	6"	6"	6"	6"	4"	---	---	---
				110 (psf)	12"	12"	6"	6"	6"	6"	4"	---	---	---	---
1/4" ALUMINUM 6063-T6	1/4"-14 TEKS SS SELF-TAPPING SCREWS	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				90 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
3/16" ALUMINUM 6063-T6	1/4"-14 TEKS SS SELF-TAPPING SCREWS	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
				90 (psf)	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
1/8" & 1/4" ALUMINUM 6063-T6	1/4" DIA. THRU BOLT	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"
				60 (psf)	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"	4"
				90 (psf)	12"	12"	12"	6"	6"	6"	6"	4"	4"	---	---
				110 (psf)	12"	12"	6"	6"	6"	4"	4"	---	---	---	---

METAL NOTES:
• Minimum 3 pitch shall extend past metal substrate.



GORDON M. DIBATTISTO, P.E.
P.E. No. 82328 (FL)
10/23/23

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DATE: 01/03/2011

REV DATE: 10/23/2023

DWG #: 201-2010

SCALE: N.T.S.

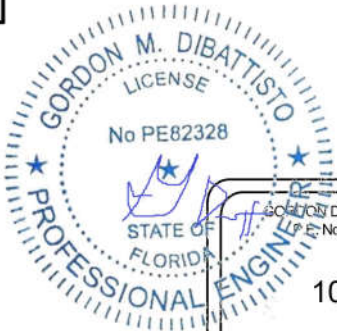
SHEET: 14 of 15

ANCHOR SPACING

TABLE 11 METAL - #12, 1/4" AND 5/16"

	Anchor	Min. Embed.	Min. E.D.	Pressure (psf)	Total Width										
					to 48"	to 72"	to 96"	to 120"	to 144"	to 168"	to 192"	to 216"	to 240"	to 264"	to 288"
1/8" & 1/4" ALUMINUM 6063-T6	5/16" DIA. THRU BOLT	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
				60 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
				90 (psf)	12"	12"	12"	6"	6"	6"	6"	4"	4"	---	---
				110 (psf)	12"	12"	12"	6"	6"	6"	4"	4"	---	---	---
1/8" STEEL	5/16" DIA. THRU BOLT	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"
				90 (psf)	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"
1/4" ALUMINUM 6063-T6	#12-24 TEKS SS SELF-TAPPING SCREWS	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				90 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
3/16" ALUMINUM 6063-T6	#12-24 TEKS SS SELF-TAPPING SCREWS	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				90 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"
1/8" ALUMINUM 6063-T6	#12-24 TEKS SS SELF-TAPPING SCREWS	---	1/2"	30 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				40 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
				60 (psf)	12"	12"	12"	12"	12"	12"	12"	12"	12"	6"	6"
				90 (psf)	12"	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"
				110 (psf)	12"	12"	12"	12"	12"	6"	6"	6"	6"	6"	6"

METAL NOTES:
• Minimum 3 pitch shall extend past metal substrate.



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