



Product Approval
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[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

FL #	FL320-R11														
Application Type	Revision														
Code Version	2023														
Application Status	Approved														
Comments															
Archived	<input type="checkbox"/>														
Product Manufacturer	Armor Screen Corp.														
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Authorized Signature	Douglas Turner doug@armorscreen.com														
Technical Representative	Douglas Turner														
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Quality Assurance Representative	Douglas Turner														
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Category	Impact Protective Systems														
Subcategory	Operable														
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received														
Florida Engineer or Architect Name who developed the Evaluation Report	Gordon DiBattisto, P.E.														
Florida License	PE-82328														
Quality Assurance Entity	National Accreditation and Management Institute														
Quality Assurance Contract Expiration Date	12/31/2024														
Validated By	Troy Bishop, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received														
Certificate of Independence	FL320_R11_COI_COI_.pdf														
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ASTM E 1886</td> <td>13a</td> </tr> <tr> <td>ASTM E 1996</td> <td>2017</td> </tr> <tr> <td>ASTM E 330</td> <td>2014</td> </tr> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	ASTM E 1886	13a	ASTM E 1996	2017	ASTM E 330	2014	TAS 201	1994	TAS 202	1994	TAS 203	1994
Standard	Year														
ASTM E 1886	13a														
ASTM E 1996	2017														
ASTM E 330	2014														
TAS 201	1994														
TAS 202	1994														
TAS 203	1994														
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect FL320_R11_Equiv_EQUI_.pdf														
Sections from the Code															

Product Approval Method

Method 1 Option D

Date Submitted

10/23/2023

Date Validated

11/03/2023

Date Pending FBC Approval

11/06/2023

Date Approved

12/12/2023

Summary of Products

FL #	Model, Number or Name	Description
320.1	Hemcord Roll-up System	Flexible Wind Abatement / Impact Hurricane Protection
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +110/-110 Other: Glass separation is required for installations within Wind Zone 4, High Velocity Hurricane Zone and on Essential Facilities. The un-breached envelope criterion is met since the system is considered 'non-porous' outside of the High Velocity Hurricane Zone and remains intact under impact and air pressure loading. The system is to enclose the protected opening all around.		Installation Instructions FL320_R11_II_DWG.pdf Verified By: Gordon DiBattisto, P.E. 82328 Created by Independent Third Party: Yes Evaluation Reports FL320_R11_AE_EVAL_.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



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:

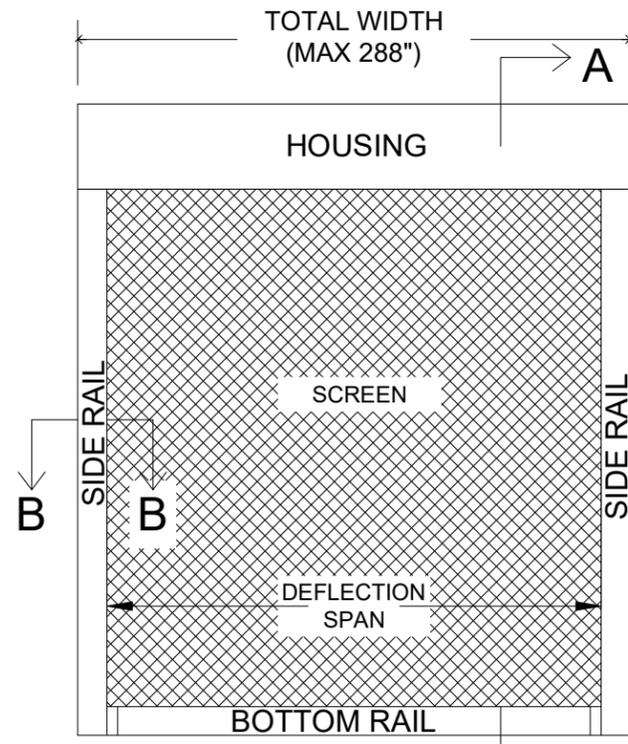
- Deflection is the minimum glass separation measured at mid span of the screen and subject to rational analysis and may be achieved by using Storm Bars.
- All specifications to be equivalent or greater in product.
- All Aluminum Extrusions to be minimum 6063-T6 or as indicated.
- The thickness of typical 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.

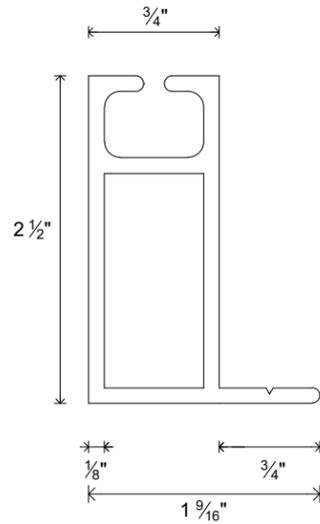
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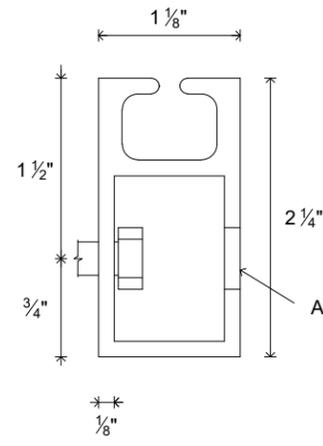
TITLE:	ARMOR SCREEN HEMCORD ROLL-UP SYSTEM FL320
	 ARMOR SCREEN CORP. 2744 HILLSBORO ROAD WEST PALM BEACH, FL 33405 (561) 841-8890 www.armorscreen.com
DATE:	01/03/2011
REV DATE:	10/23/2023
DWG #:	201-2010
SCALE:	N.T.S.
SHEET:	1 of 15



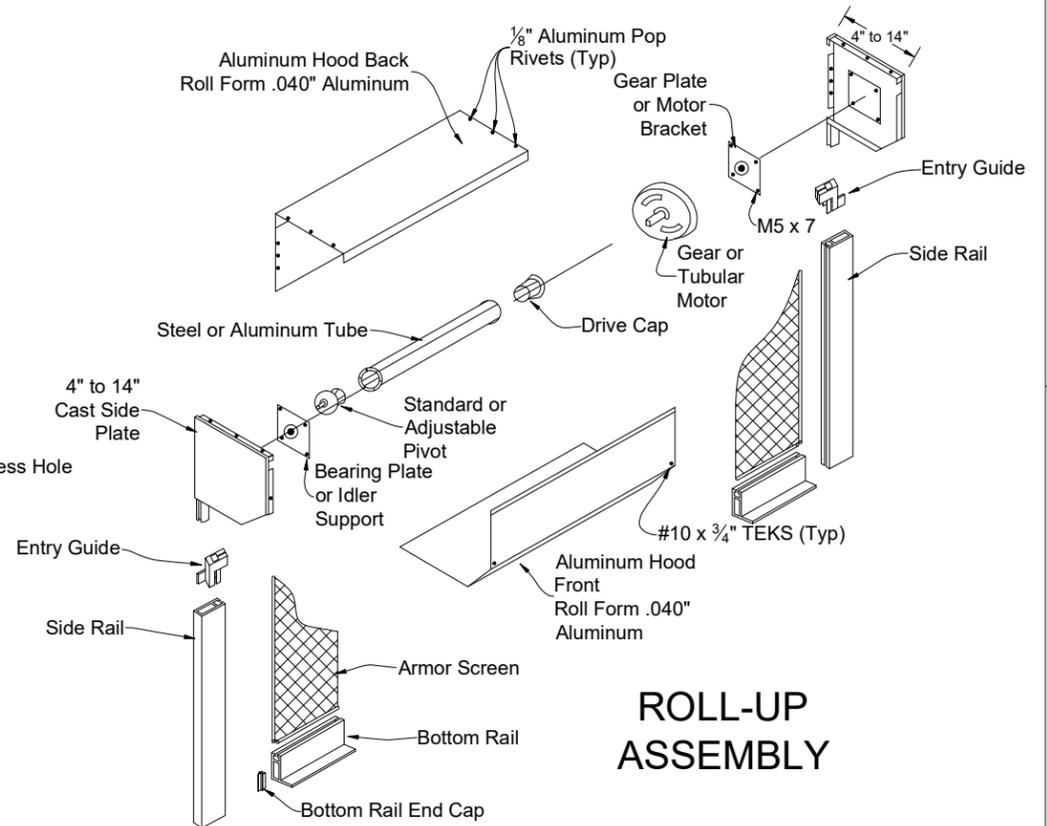
ROLL-UP SCREEN ELEVATION



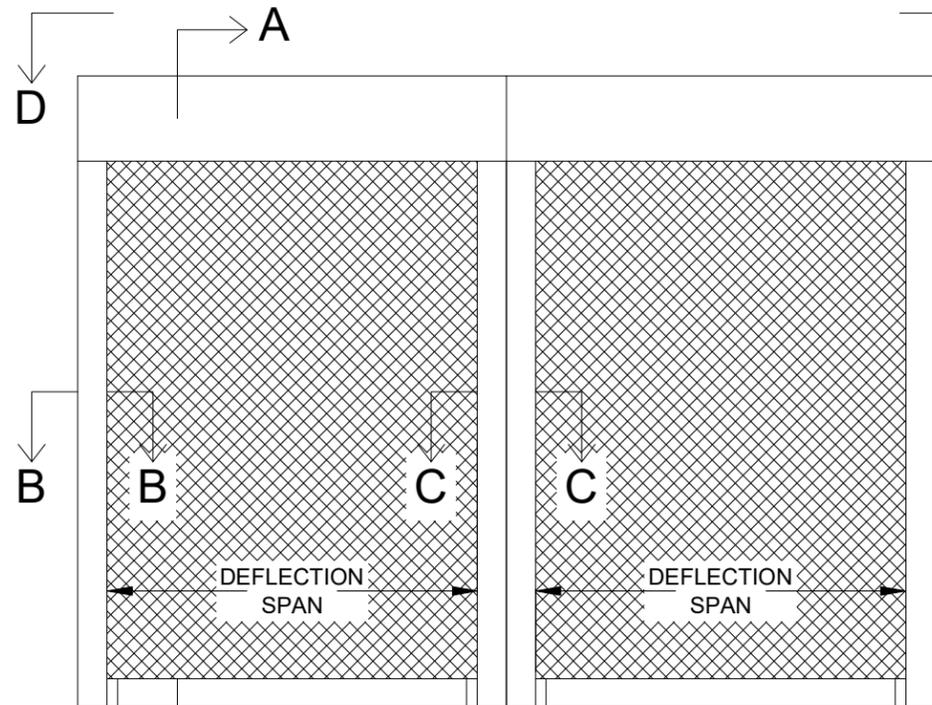
ROLL-UP BOTTOM RAIL
6063-T6 Aluminum



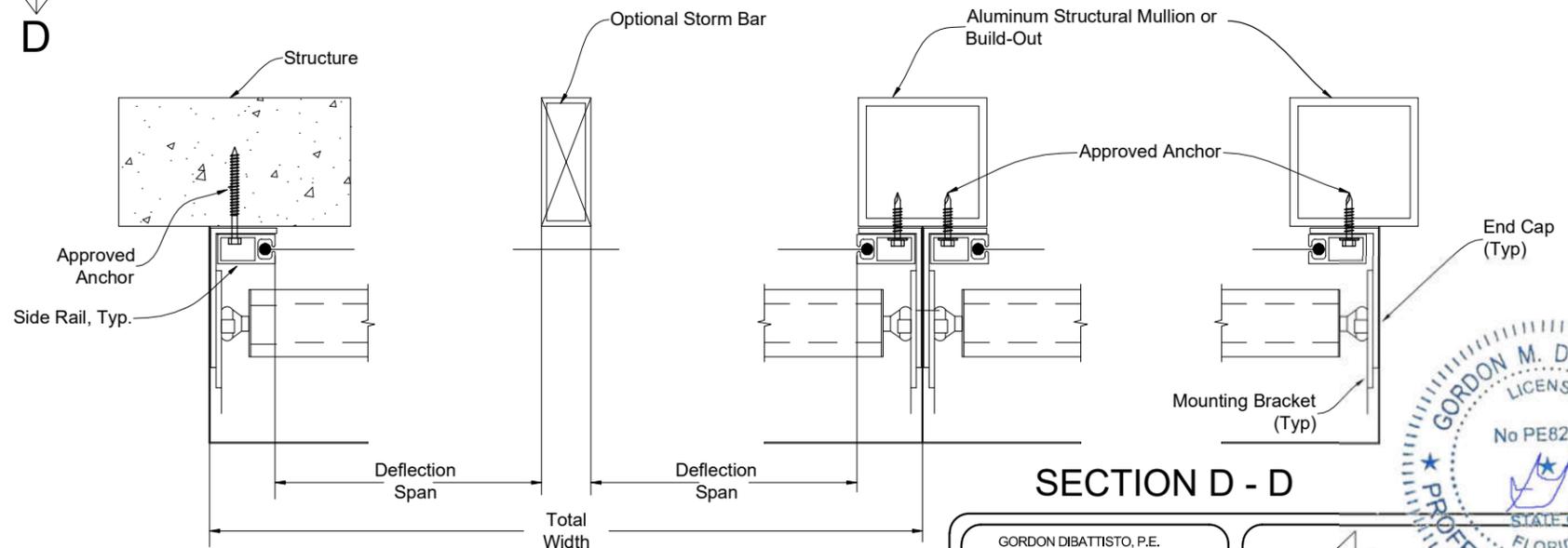
ROLL-UP SIDE RAIL
6063-T6 Aluminum



ROLL-UP ASSEMBLY



MULTI UNIT ROLL-UP SCREEN ELEVATION



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.

SECTION D - D

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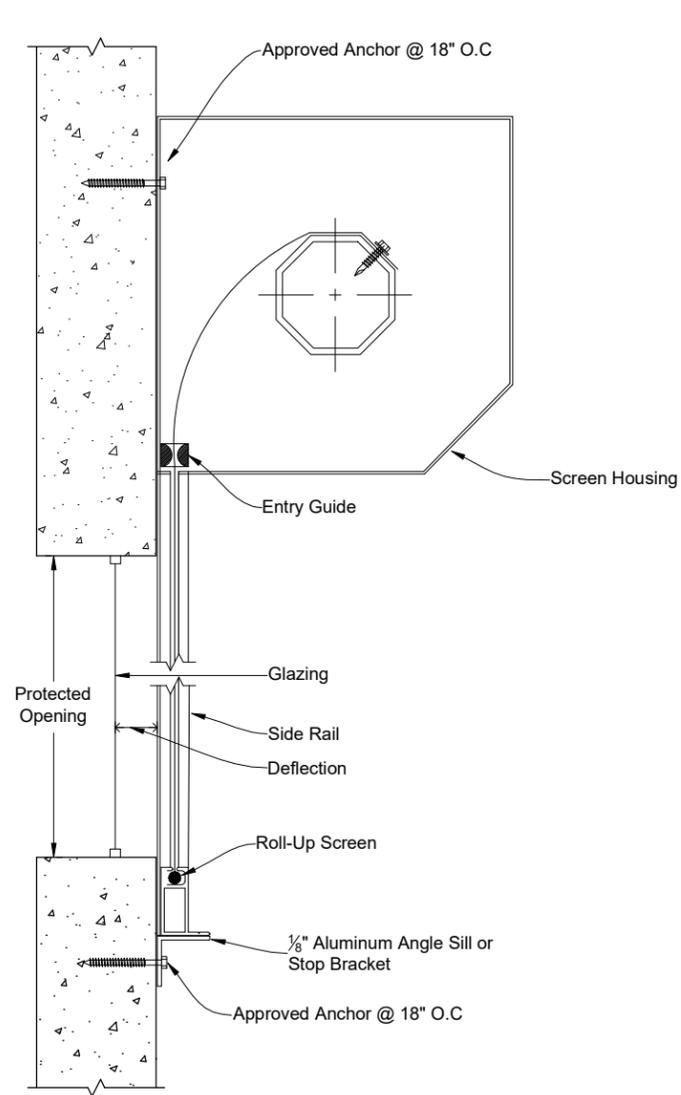
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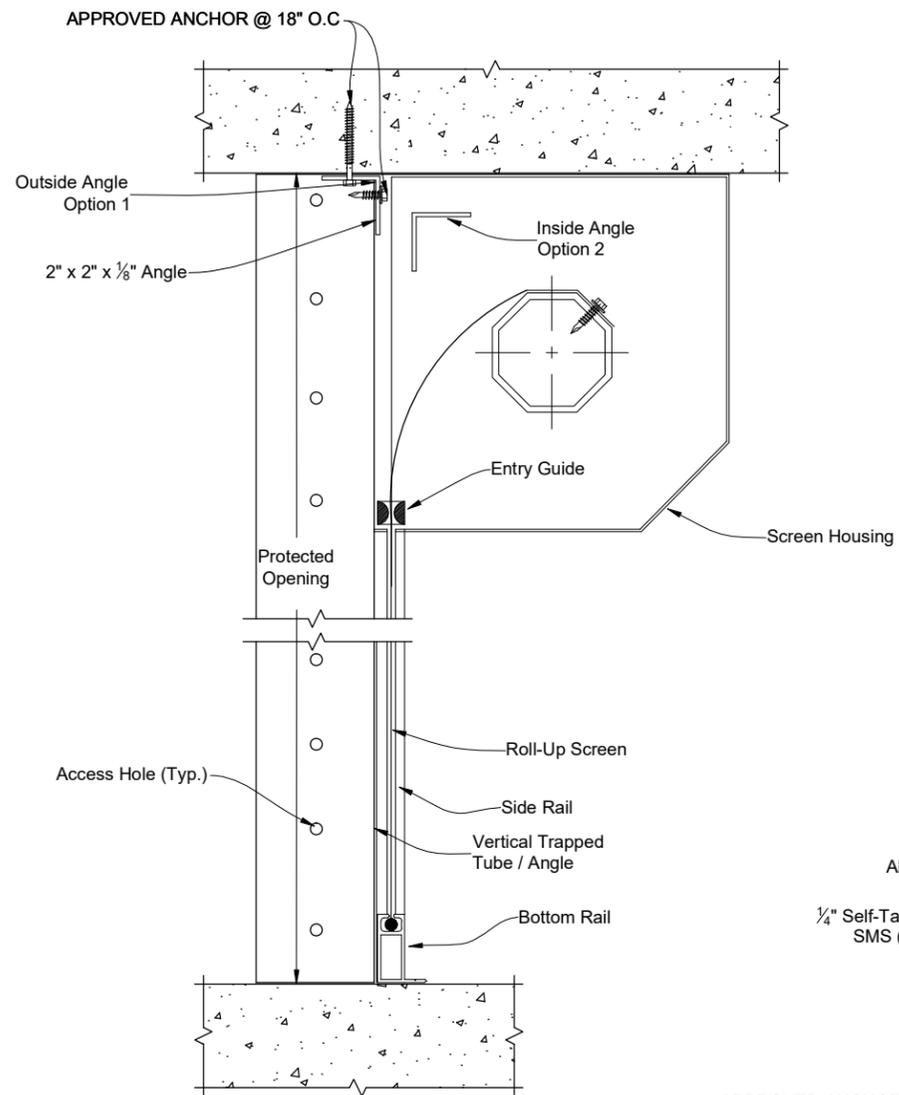
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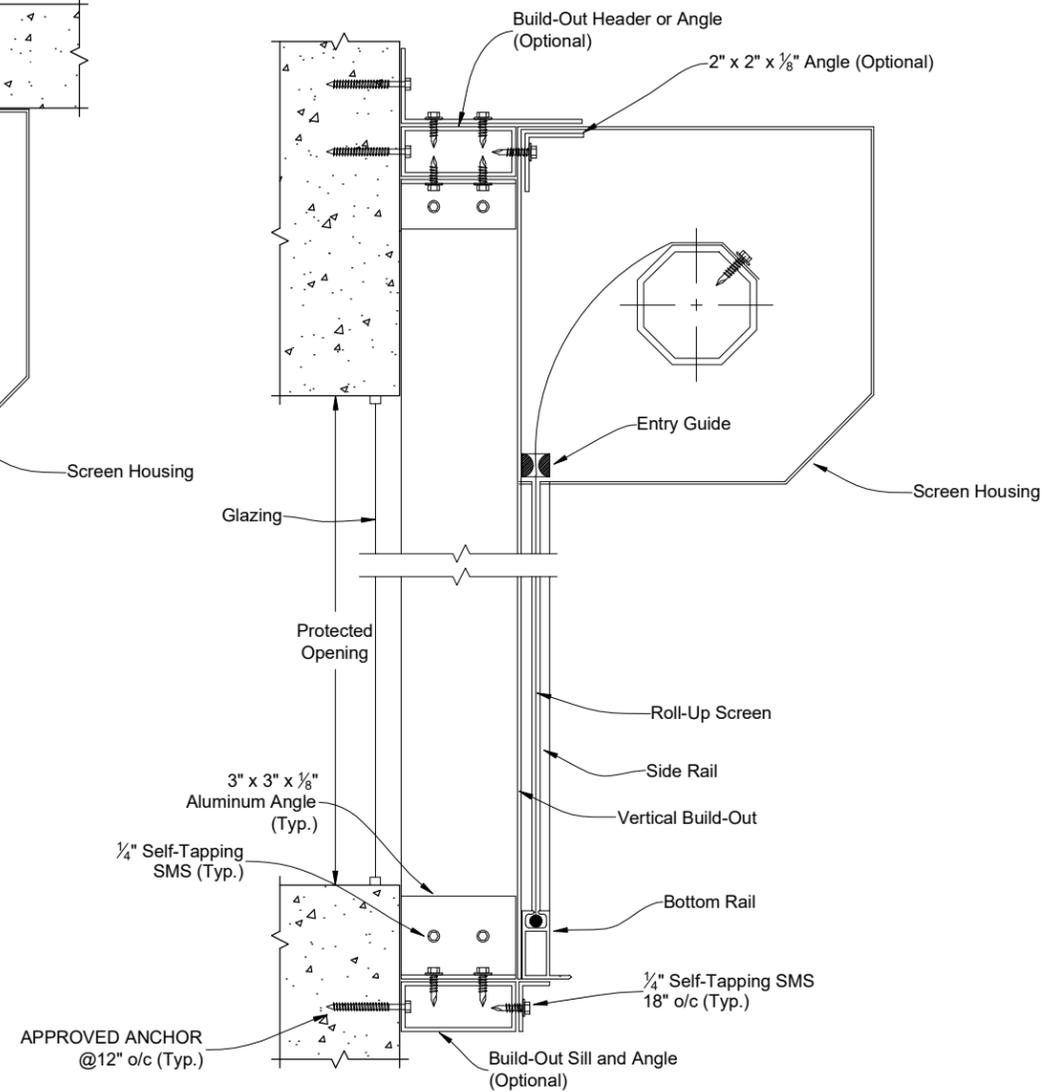
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WALL MOUNT SECTION A - A



TRAPPED SECTION A - A



BUILD-OUT SECTION A - A

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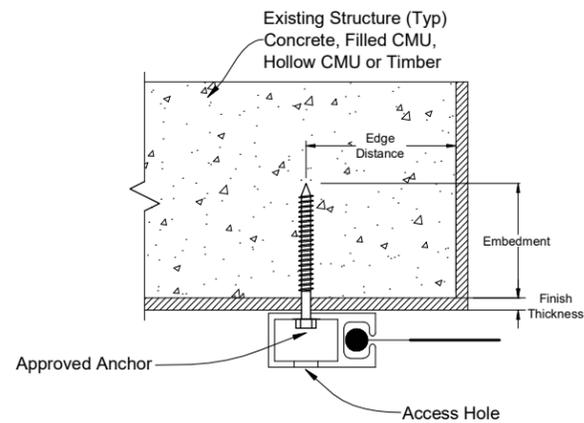
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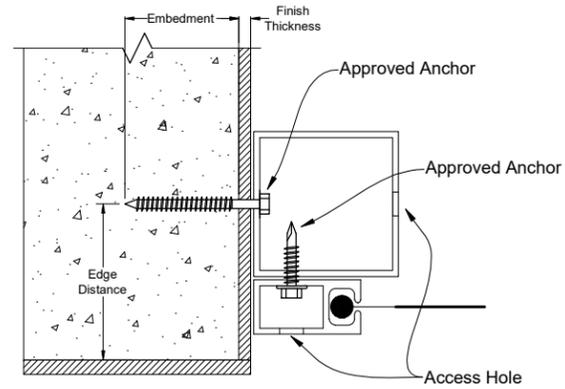
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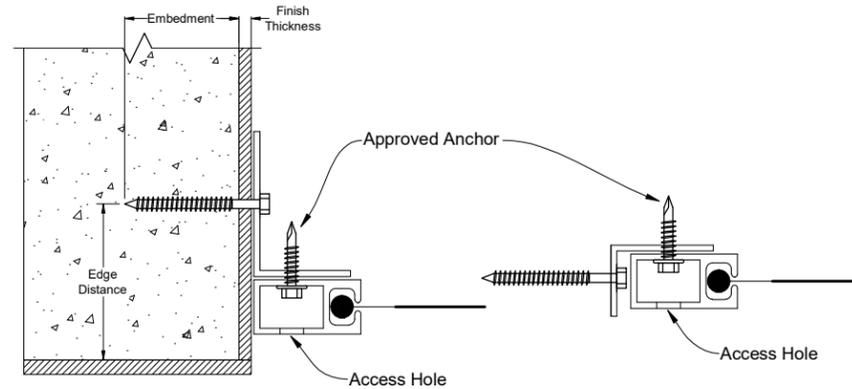


SECTION B - B TYPE 1
WALL MOUNT INSTALLATION



SECTION B - B TYPE 2
TRAPPED TUBE INSTALLATION

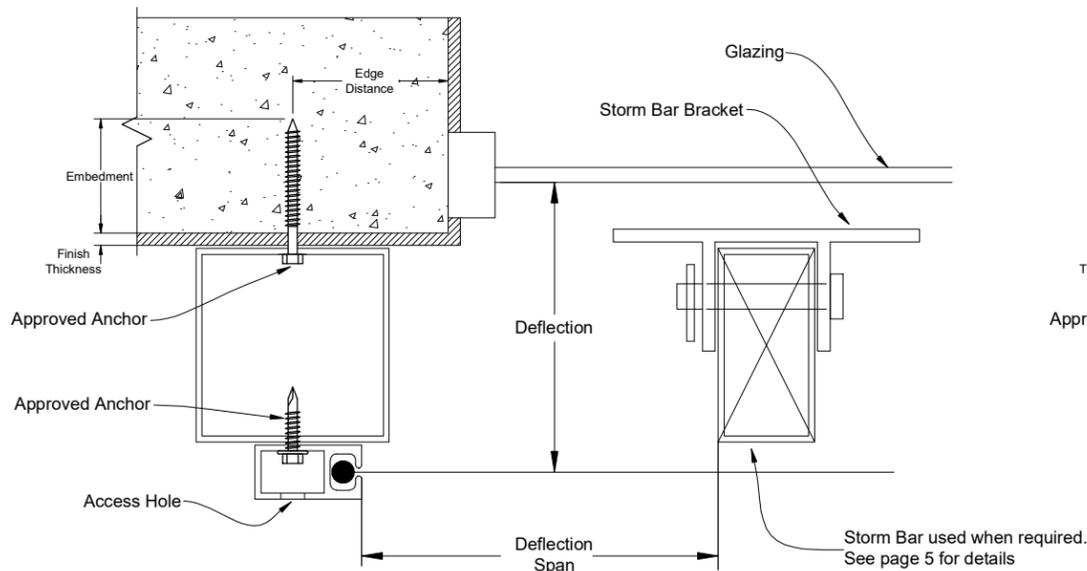
- 2" x 4" x (1/8" or 1/4")
- 2" x 3" x (1/8" or 1/4")
- 3" x 3" x (1/8" or 1/4")
- 3" x 4" x (1/8" or 1/4")
- 2 1/2" x 2 1/2" x 1/8"



SECTION B - B TYPE 3
TRAPPED ANGLE INSTALLATION

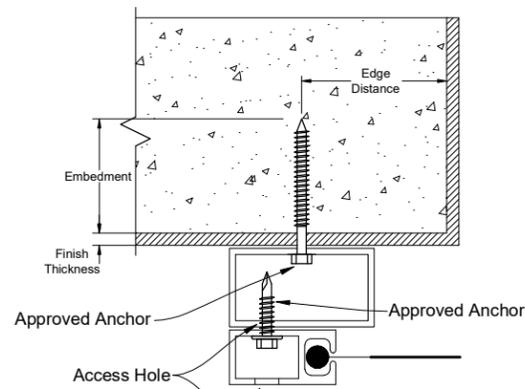
- 2" X 2" X 3/16"
- 2" X 3" X 3/16"

TYPE 3 ALTERNATIVE



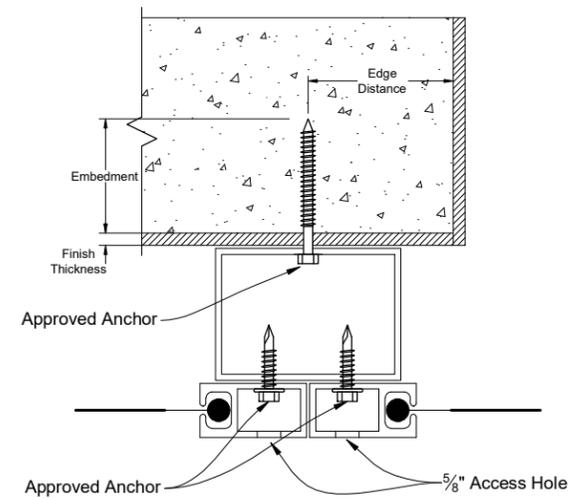
SECTION B - B TYPE 4
BUILD-OUT INSTALLATION

- 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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TITLE: ARMOR SCREEN
HEMPCORD ROLL-UP
SYSTEM FL320

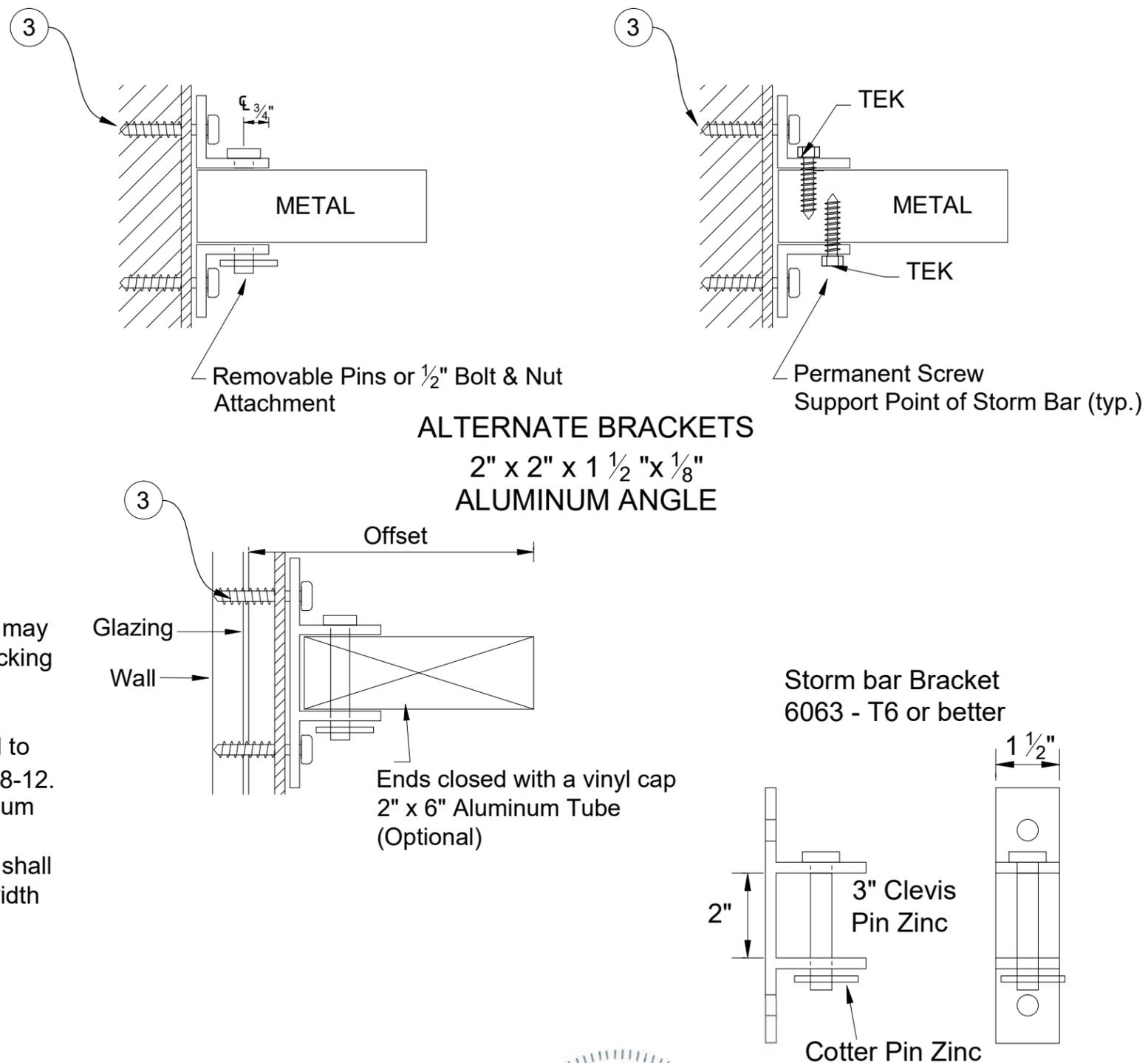


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STORM BAR TABLE									
Storm Bar Span / Length	3'	4'	5'	6'	8'	10'	12'	14'	
Max. PSF	Per Deflection Table								
Deflection	Per Deflection Table								
1	Reserved								
2	Reserved								
3	Alum. Tube 1" x 2" x 1/8" 6063-T6	x							
4	Alum. Tube 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		
9	Alum. Tube 2" x 8" x 1/4" 6061-T6	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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DATE:	01/03/2011
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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

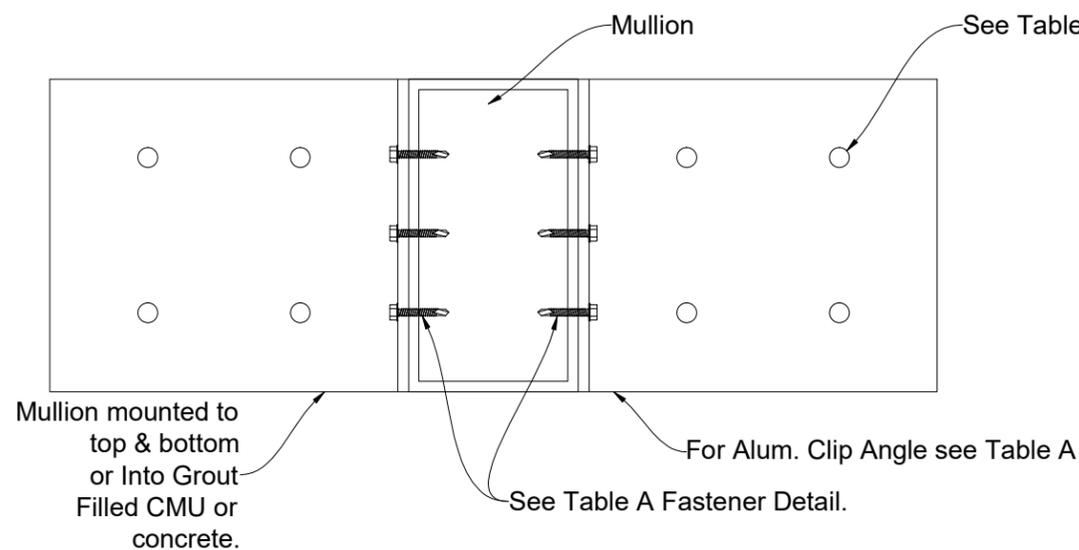
NOTES:

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.

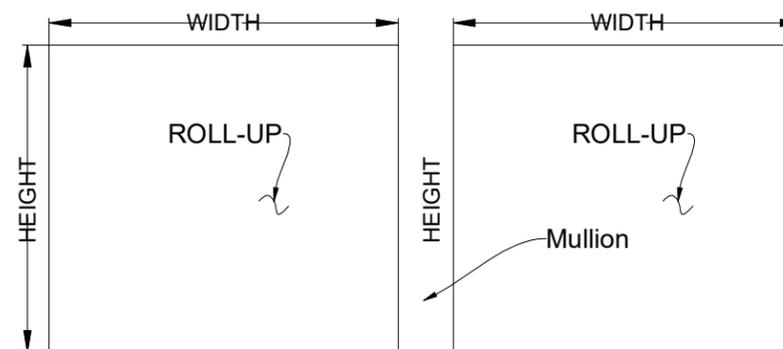
TABLE A (3,000 PSI Concrete) or Grout Filled CMU			
Mullion Type	Anchor Detail	Min. Emb.	Fastener Detail
A*	4 x 4 - 3/16" 6063-T6 Alum. Clip Angle (4) 1/4" Tapcon	1 3/4"	(4) 1/4"-14 Teks
B*	4 x 6 - 3/16" 6063-T6 Alum. Clip Angle (8) 1/4" Tapcon	1 3/4"	(6) 1/4"-14 Teks
C**	4 x 8 - 3/16" 6063-T6 Alum.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

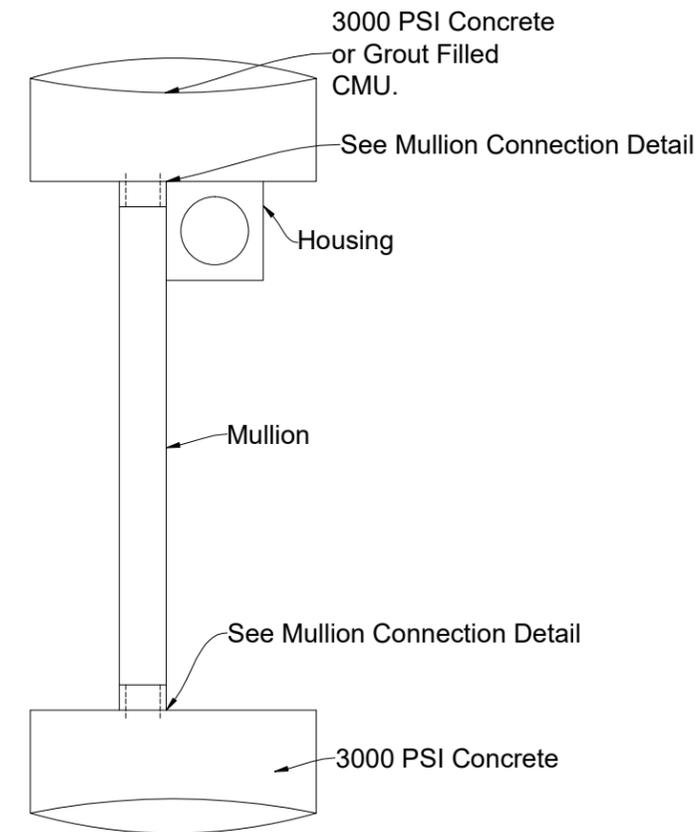
**C: 8" x Depth of Mullion x 5/16" 6063-T6 Alum. Clip Angle 1" from, edge of steel and 6" O.C.



MULLION CONNECTION DETAIL



MULLION DIAGRAM



MULLION ELEVATION

MULLION

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SHEET: 6 of 15

LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM
Rh= PERPENDICULAR LOADS (PSF)

Span in feet	Span in inches	PRESSURE (PSF)						
		30 psf	40 psf	50 psf	60 psf	70 psf	90 psf	110 psf
3 ft.	38 in.	45	60	75	90	105	135	165
4 ft.	48 in.	60	80	100	120	140	180	220
5 ft.	60 in.	75	100	125	150	175	225	275
6 ft.	72 in.	90	120	150	180	210	270	330
7 ft.	84 in.	105	140	175	210	245	315	385
8 ft.	96 in.	120	160	200	240	280	360	440
9 ft.	108 in.	135	180	225	270	315	405	495
10 ft.	120 in.	150	200	250	300	350	450	550
11 ft.	132 in.	165	220	275	330	385	495	605
12 ft.	144 in.	180	240	300	360	420	540	660
13 ft.	156 in.	195	260	325	390	455	585	715
14 ft.	168 in.	210	280	350	420	490	630	770
15 ft.	180 in.	225	300	375	450	525	675	825
16 ft.	192 in.	240	320	400	480	560	720	880
17 ft.	204 in.	255	340	425	510	595	765	935
18 ft.	216 in.	270	360	450	540	630	810	990
19 ft.	228 in.	285	380	475	570	665	855	1045
20 ft.	240 in.	300	400	500	600	700	900	1100
21 ft.	252 in.	315	420	525	630	735	945	1155
22 ft.	264 in.	330	440	550	660	770	990	1210
23 ft.	276 in.	345	460	575	690	805	1035	1265
24 ft.	288 in.	360	480	600	720	840	1080	1320

LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM
Rv= PARALLEL LOADS (PLF)

Span in feet	Span in inches	PRESSURE (PSF)						
		30 psf	40 psf	50 psf	60 psf	70 psf	90 psf	110 psf
3 ft.	38 in.	59	76	92	109	126	129	127
4 ft.	48 in.	78	101	123	145	168	172	169
5 ft.	60 in.	98	126	154	182	215	215	211
6 ft.	72 in.	118	151	185	218	251	258	253
7 ft.	84 in.	137	176	215	254	293	301	296
8 ft.	96 in.	157	201	246	291	335	344	338
9 ft.	108 in.	177	227	277	327	377	387	380
10 ft.	120 in.	196	252	308	363	419	430	422
11 ft.	132 in.	216	277	338	400	461	474	464
12 ft.	144 in.	235	302	369	436	503	517	507
13 ft.	156 in.	255	327	400	472	545	560	549
14 ft.	168 in.	275	353	431	509	587	603	591
15 ft.	180 in.	294	378	461	545	629	646	633
16 ft.	192 in.	314	403	492	581	670	689	676
17 ft.	204 in.	333	428	523	618	712	732	718
18 ft.	216 in.	353	453	554	654	754	775	760
19 ft.	228 in.	373	479	584	690	796	818	802
20 ft.	240 in.	392	504	615	727	838	861	844
21 ft.	252 in.	412	529	646	763	880	904	887
22 ft.	264 in.	431	554	677	799	922	947	929
23 ft.	276 in.	451	579	707	836	964	990	971
24 ft.	288 in.	471	604	738	872	1006	1033	1013

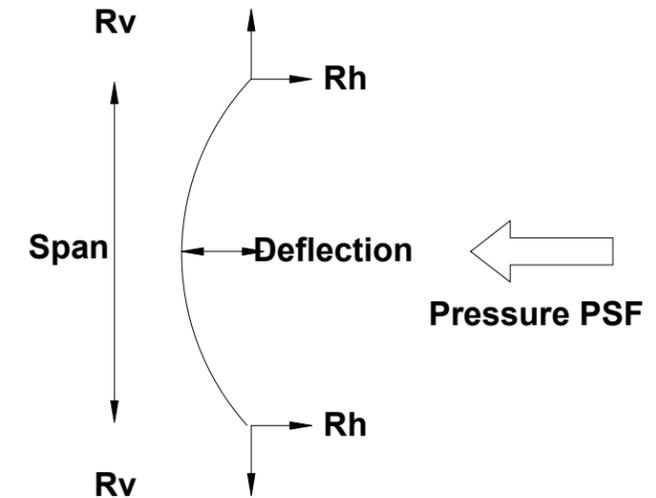


TABLE D-1.1

Deflection Table

Deflection Span in feet	Deflection Span in inches	Deflection in inches						
		30 psf	40 psf	50 psf	60 psf	70 psf	90 psf	110 psf
2 ft.	24	2.1	2.2	2.4	2.6	2.7	3.1	3.5
3 ft.	36	3.1	3.3	3.5	3.9	4.1	4.7	5.2
4 ft.	48	4.0	4.4	4.6	5.1	5.4	6.2	6.9
5 ft.	60	5.0	5.4	5.8	6.4	6.7	7.7	8.6
6 ft.	72	6.3	6.9	7.2	7.7	8.5	9.8	10.9
7 ft.	84	7.3	7.9	8.4	9.0	9.8	11.3	12.6
8 ft.	96	8.3	9.0	9.5	10.2	11.1	12.8	14.3
9 ft.	108	9.3	10.1	10.6	11.4	12.4	14.3	16.0
10 ft.	120	10.3	11.1	11.8	12.7	13.8	15.8	17.7
11 ft.	132	11.3	12.2	12.9	14.0	15.1	17.4	19.4
12 ft.	144	12.2	13.3	13.8	15.2	16.4	18.9	21.1
13 ft.	156	12.9	14.0	14.8	16.5	17.3	19.9	22.3
14 ft.	168	13.9	15.1	15.9	17.7	18.6	21.4	24.0
15 ft.	180	14.9	16.1	17.0	19.0	19.9	23.0	25.7
16 ft.	192	15.8	17.2	18.1	20.3	21.3	24.3	27.4
17 ft.	204	16.2	18.0	20.7	21.2	22.8	24.9	26.8
18 ft.	216	17.2	19.0	21.8	22.3	24.0	26.1	28.1
19 ft.	228	18.2	20.1	23.0	23.5	25.2	27.4	29.3
20 ft.	240	19.4	21.3	24.3	24.7	26.4	28.6	30.6
21 ft.	252	20.6	22.6	25.6	26.0	27.6	30.0	31.9
22 ft.	264	22.0	23.9	27.0	27.3	28.9	31.2	33.2
23 ft.	276	23.4	25.3	28.4	28.6	30.2	32.5	34.5
24 ft.	288	25.0	26.8	29.8	30.0	31.5	33.8	35.7

NOTE: Deflection is the minimum glass separation measured at mid span of the screen and subject to rational analysis. 1" Safety factor has been added

10/23/23

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1505 SW 147TH AVE.
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OFFICE@DOPENGINEERING.COM
REGISTRY No. 34110

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
DATE: 01/03/2011	
REV DATE: 10/23/2023	
DWG #: 201-2010	
SCALE: N.T.S.	
SHEET: 7 of 15	

ANCHOR SPACING

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

3000 PSI CONCRETE - 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"	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"	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"	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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DWG #: 201-2010	
SCALE: N.T.S.	
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"	
3000 PSI CONCRETE - 5/16" ANCHORS	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"	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"	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"	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"	
3000 PSI CONCRETE - 3/8" ANCHORS	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"	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"		
				60 (psf)	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"	

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.



GORDON M. DIBATTISTO, P.E.
P.E. No. 82328 (FL)
10/23/23
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REGISTRY No. 34110

DATE: 01/03/2011

REV DATE: 10/23/2023

DWG #: 201-2010

SCALE: N.T.S.

SHEET: 9 of 15

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

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"
			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"
					1/4" DIA. DEWALT CRETE FLEX MASONRY FASTENERS	1 1/4"	2 1/2"	30 (psf)	12"	12"	12"	6"	6"	6"	6"
			40 (psf)	12"	12"	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 1/4"	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 = 3/8" x 2 1/2" threaded rod (304SS) w/ 3/8" x 1 1/4" coupler (316SS) fully inserted in 1/2" dia. screen tube fully filled w/ Dewalt Pure 50+
2. 3/8" 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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SHEET:	10 of 15

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:

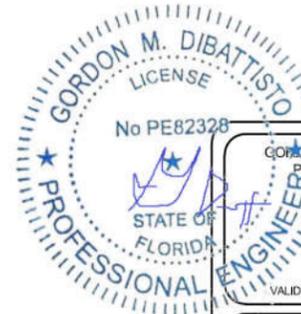
- Provide longer fasteners, if required, to allow for thickness of finishes such as stucco, plaster, siding, etc.
- All to be installed as per manufacturer installation instructions.
- Embedments shall be in the face shell, not at mortar joints

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"	
				60 (psf)	12"	12"	12"	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.



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

DATE: 01/03/2011

REV DATE: 10/23/2023

DWG #: 201-2010

SCALE: N.T.S.

SHEET: 11 of 15

ANCHOR SPACING

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

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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SCALE: N.T.S.

SHEET: 12 of 15



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REGISTRY No. 34110

ANCHOR SPACING

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

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"	12"	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"	6"	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)

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SHEET: 13 of 15



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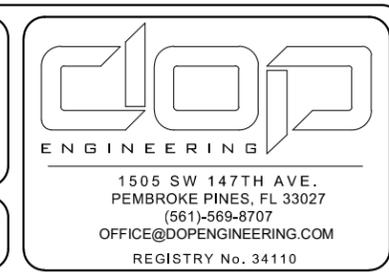
ANCHOR SPACING

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"	12"	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"	12"	12"	12"	
			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.



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SHEET:	14 of 15

