EASTERN METAL SUPPLY

BERTHA ASTROGUARD - WIND ABATEMENT SYSTEM
LARGE MISSILE IMPACT RESISTANT (MISSILE LEVEL D)
VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

FRANK L. BENNARDO LICENSE No 0046549 STATE OF Florida PROFESSIONAL ENGINEER SIGNED: &[Date]

SEPTEMBER 29, 2023

Digitally signed by Frank Bennardo
Date: 2023.10.04 12:17:45 -04'00'

GENERAL NOTES:

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE PER TAS 201, 202 AND 203 TESTING STANDARDS. THE SYSTEM IS DESIGNED AS LARGE MISSILE RESISTANT.
2. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7 AND THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR. PANELS HAVE BEEN DESIGN WITH A TOTAL 2" PRE-LOAD SLACK.
5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. THIS SYSTEM IS INTENDED FOR USE ONLY DURING WIND STORM EVENTS. WHEN NOT IN USE, PRODUCT SHALL BE PROPERLY STORED AWAY FROM PROLONGED EXPOSURE TO DIRECT SUNLIGHT OR OTHER WEATHERING CONDITIONS.
8. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6, U.N.O.
9. UNLESS OTHERWISE NOTED HEREIN, ALL SCREWS SHALL BE 304 OR 316 STAINLESS STEEL OR CORROSION RESISTANT COATED SAE GR. 5 CARBON STEEL.
10. MAXIMUM PANEL SPAN: 18'-2"
11. MAXIMUM ALLOWABLE DESIGN PRESSURE: ±60 PSF
12. PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER PANEL CONTAINING THE FOLLOWING:

EASTERN METAL SUPPLY
4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
TAS 201, 202, 203
FLORIDA PRODUCT APPROVAL NUMBER

13. PANELS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
14. CONTRACTOR IS RESPONSIBLE TO INSULATE OR PROTECT ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
15. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION IN.C, AND ANY APPLICABLE FEDERAL, STATE AND OR LOCAL CODES.
16. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
17. ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
18. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
19. PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
20. ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

SYSTEM PERFORMANCE DERIVATIONS

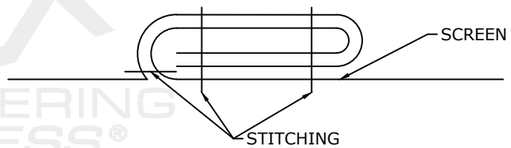
SYSTEM PERFORMANCE DERIVED FROM CERTIFIED TEST REPORT(S) #10-2522 BY FENESTRATION TESTING LABORATORY, INC. PER TAS 201, TAS 202 & TAS 203 TEST STANDARD(S).

GENERAL NOTES (CONTINUED):

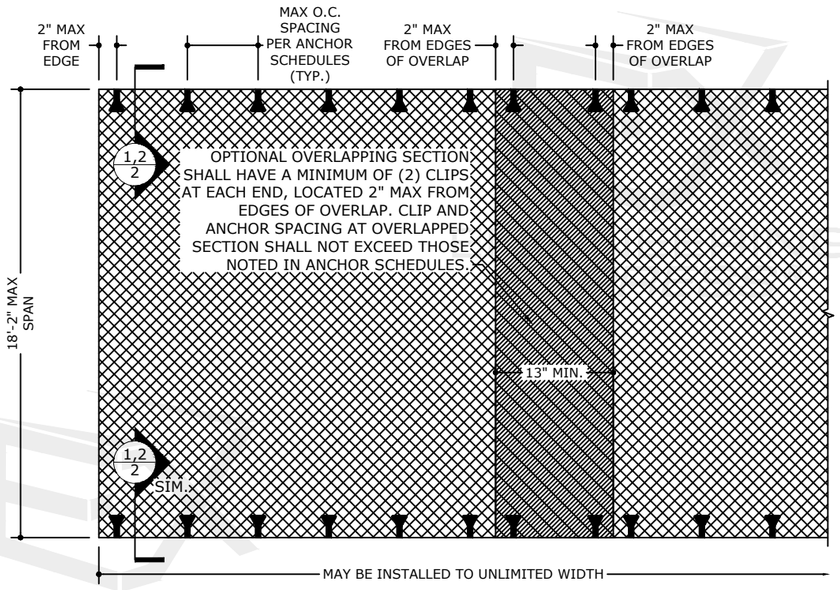
RETENTION CLIP END CONNECTOR:
RHODIA ENGINEERING PLASTICS
POLYAMIDE 66

FABRIC SPECIFICATION:
TYPE OF YARN: TEXTILE FABRIC
CONSTRUCTION: 25 X 25 WEAVE
THICKNESS: 1000 MICRONS ± 5%
FINISH: RESIN COATED
WEIGHT (ASTM D 3776): 10.83 OZ/YD²
TENSILE STRENGTH (GRAB METHOD, ASTM D 4632): WARP: 879 LBS, WEFT: 879 LBS
BURST STRENGTH (ASTM D 3786): 1500 PSI
ABRASION RESISTANCE (ASTM D 4886): 95% STRENGTH RETAINED

SEWING:
SEWING ONLY AT SPLICE (SEE SPLICE DETAIL). NO SEWING AT EDGES.



1/1 SPLICE DETAIL
N.T.S.



NOTE: PANELS CAN OPTIONALLY BE ANCHORED ON THREE OR FOUR SIDES. FOR FOUR SIDE ATTACHMENT, THE SPAN IS THE SHORT DIMENSION BETWEEN FASTENERS.

2/1 TYPICAL PANEL INSTALLATION
N.T.S. EXTERIOR ELEV

NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

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PAGE INDEX:

SHEET INDEX	
# SHEET	DESCRIPTION
1	COVER SHEET
2-4	INSTALLATION DETAILS
5	STORM BAR SCHEDULE
6	INSTALLATION DETAIL
7-12	ANCHOR SCHEDULE

TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL: "CORP." FOR "CORPORATION", "ALUM" FOR "ALUMINUM, "ASD" FOR "ALLOWABLE STRESS DESIGN", "ASTM" FOR "AMERICAN SOCIETY FOR TESTING AND MATERIALS", "CS" FOR "CARBON STEEL","CONN" FOR "CONNECTION", "EMBED" FOR "EMBEDMENT", "DIST." FOR "DISTANCE", "GA" FOR "GAUGE", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "LB" FOR "POUND", "MAX" FOR "MAXIMUM, "N.T.S." FOR "NOT TO SCALE", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft²)", "SPECS" FOR "SPECIFICATIONS", "&" FOR "AND", "MAX" FOR "MAXIMUM", "W/" FOR "WITH", "EXIST" FOR "EXISTING, "STRUCT" FOR "STRUCTURE", "CONC." FOR "CONCRETE". CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

VISIT ECALC.IO/65164
FOR SITE-SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE
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BERTHA ASTROGUARD - WIND ABATEMENT SYSTEM
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#13271.1)

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PREV SUBMITTAL (20-31278)	CCB	RWN	09/02/20
2023 FBC UPDATE	MRT	RWN	09/29/23

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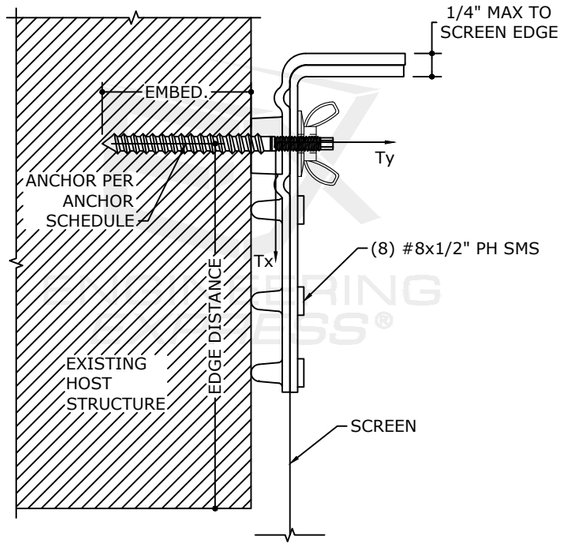
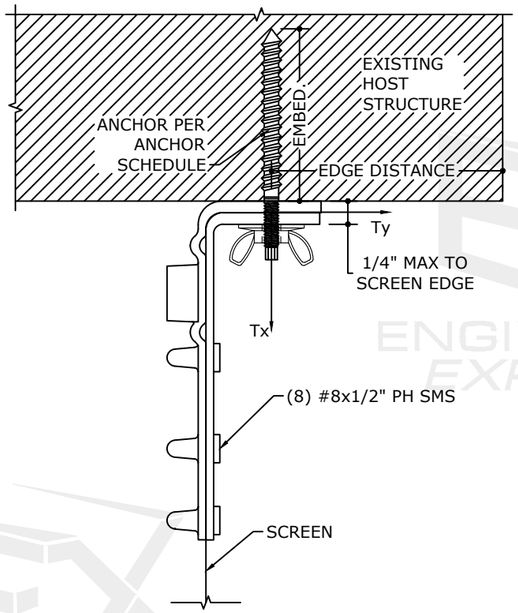


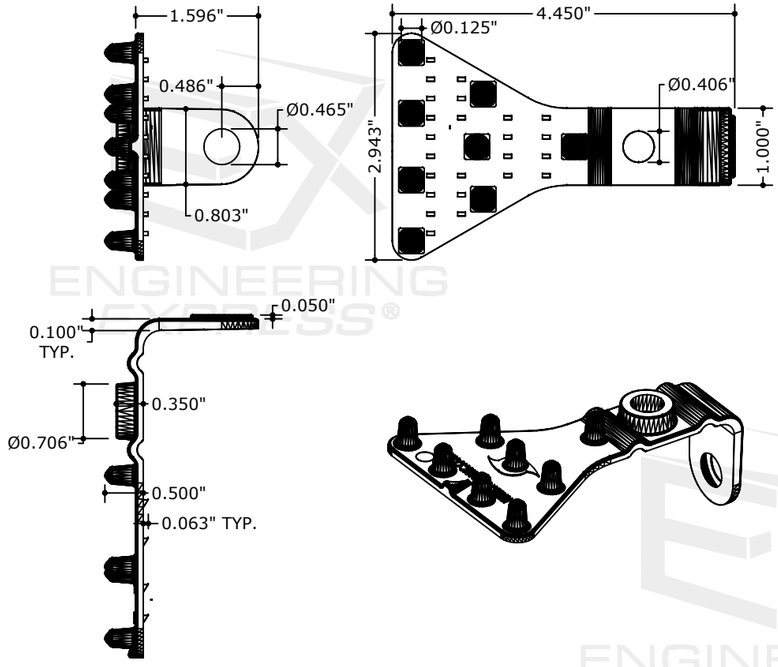
1/2 WALL MOUNT CONDITION

N.T.S. SECTION VIEW



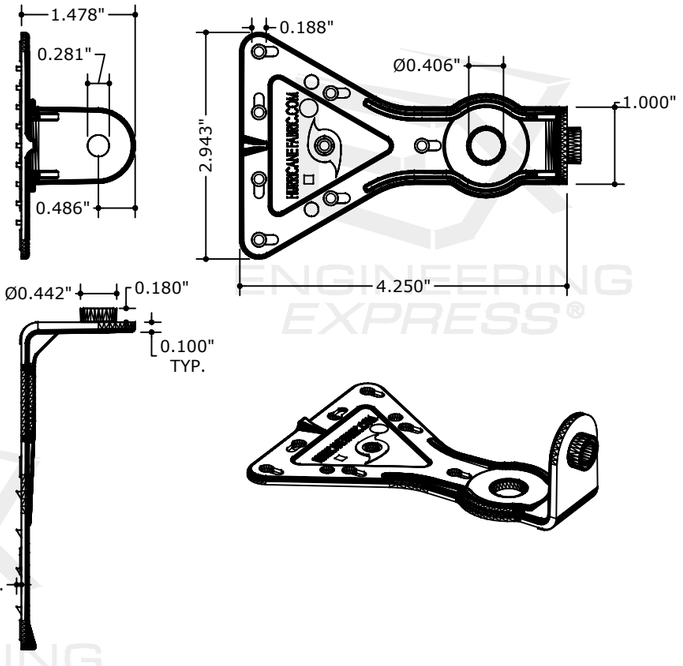
2/2 INTERIOR MOUNT CONDITION

N.T.S. SECTION VIEW



1 BOTTOM MOUNTING CLIP

N.T.S. POLYAMIDE 66



2 TOP MOUNTING CLIP

N.T.S. POLYAMIDE 66

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PE# 0046549 CA# 9885

SEPTEMBER 29, 2023

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MINIMUM GLAZING SEPARATION FROM GLASS INCLUDING INSTALLATION SLACK				
SPAN	POSITIVE DESIGN LOAD (PSF)			
	+60 PSF	+50 PSF	+40 PSF	+30 PSF
4'-0"	6.88''	6.63''	6.13''	5.75''
6'-0"	11.13''	10.50''	9.88''	9.00''
8'-0"	15.75''	14.88''	14.00''	12.75''
10'-0"	20.88''	19.75''	18.38''	16.88''
12'-0"	26.38''	24.88''	23.13''	21.13''
14'-0"	32.13''	30.38''	28.25''	25.75''
14'-8"	34.13''	32.38''	32.38''	32.38''
16'-0"	38.25''	36.88''	36.88''	36.88''
17'-0"	41.38''	39.00''	36.88''	36.88''
18'-2"	45.13''	42.50''	39.50''	36.88''

NOTES:
1. SEPARATION FROM GLAZING IS REQUIRED FOR ALL INSTALLATIONS WITHIN THE HIGH VELOCITY HURRICANE ZONE, WIND ZONE 4 AND ESSENTIAL FACILITIES.
2. SEPARATION IS NOT REQUIRED FROM ANY FENESTRATION PRODUCT THAT DOES NOT CONTAIN GLAZING.
3. SEPARATION FROM GLAZING IS NOT REQUIRED FOR INSTALLATIONS OUTSIDE OF WIND ZONE 4 AND ESSENTIAL FACILITIES.
4. INTERPOLATION OF THIS TABLE IS NOT PERMITTED. UTILIZE NEXT HIGHEST SEPARATION FROM GLAZING VALUE IF NEEDED.

LOAD ON EXISTING STRUCTURE FROM SCREEN SYSTEM Tx = PARALLEL LOADS (PLF)				
SPAN	DESIGN PRESSURE (+/- PSF)			
	60	50	40	30
4'-0"	235.4	208.5	179.6	148.3
6'-0"	308.5	273.2	235.4	194.3
8'-0"	373.7	330.9	285.2	235.4
10'-0"	433.6	384.0	330.9	273.2
12'-0"	489.7	433.6	373.7	308.5
14'-0"	542.7	480.6	414.1	341.9
14'-8"	559.8	495.7	427.2	352.6
16'-0"	593.2	525.3	452.7	373.7
17'-0"	617.7	547.0	471.4	389.1
18'-2"	645.6	571.7	492.7	406.7

LOAD ON EXISTING STRUCTURE FROM SCREEN SYSTEM Ty = PERPENDICULAR LOADS (PLF)				
SPAN	DESIGN PRESSURE (+/- PSF)			
	60	50	40	30
4'-0"	120.0	100.0	80.0	60.0
6'-0"	180.0	150.0	120.0	90.0
8'-0"	240.0	200.0	160.0	120.0
10'-0"	300.0	250.0	200.0	150.0
12'-0"	360.0	300.0	240.0	180.0
14'-0"	420.0	350.0	280.0	210.0
14'-8"	440.0	366.7	293.3	220.0
16'-0"	480.0	400.0	320.0	240.0
17'-0"	510.0	425.0	340.0	255.0
18'-2"	545.0	454.2	363.3	272.5

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FLORIDA BUILDING CODE EIGHTH EDITION (2023)
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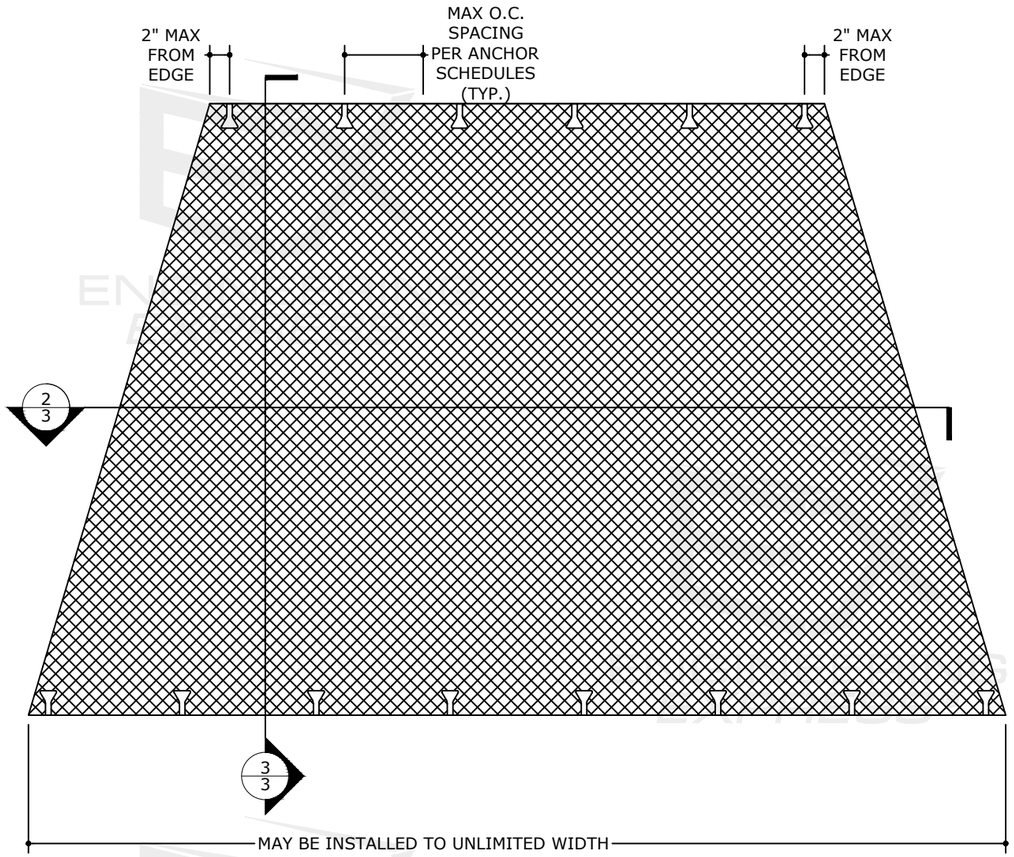
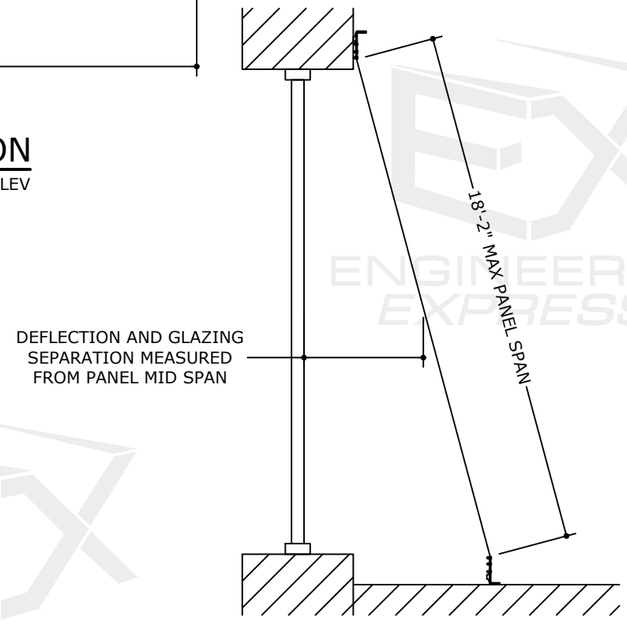
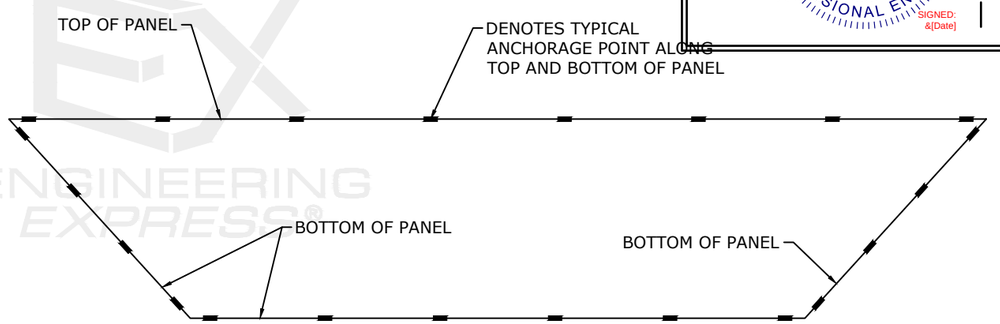


1/3 ANGLED PANEL INSTALLATION
N.T.S. EXTERIOR ELEV

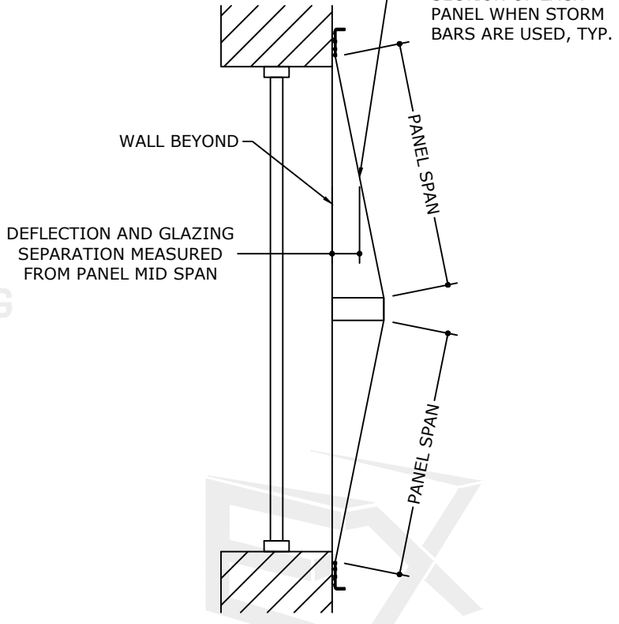
NOTE: NON-SPAN OVERLAP SHALL BE A MINIMUM OF 1.5 X THE PANEL PROJECTION FROM OPENING



3/3 ANGLED PANEL INSTALLATION
N.T.S. VERTICAL SECTION



2/3 ANGLED PANEL INSTALLATION
N.T.S. PLAN VIEW



4/3 INSTALLATION W/ STORM BAR
N.T.S. VERTICAL SECTION

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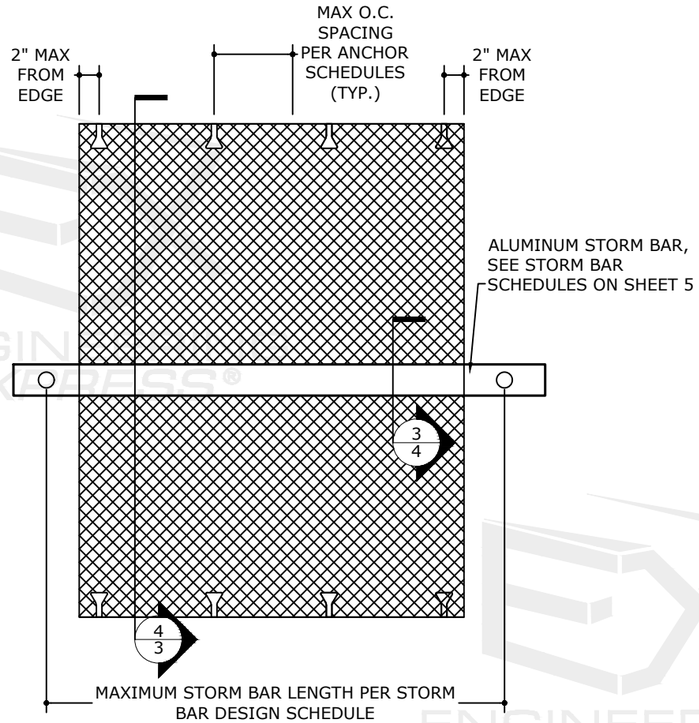
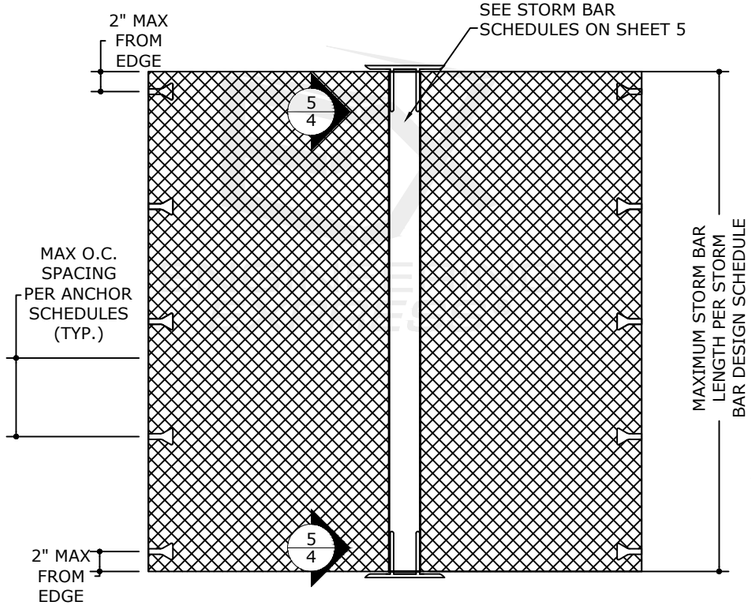


1/4 INSTALLATION W/ STORM BAR

N.T.S. EXTERIOR ELEV

STORM BARS & FABRIC MAY BE INSTALLED HORIZONTALLY OR VERTICALLY AS APPLICABLE (HORIZONTAL STORM BAR INSTALLATION WITH VERTICAL PANEL SPAN SHOWN HEREIN)



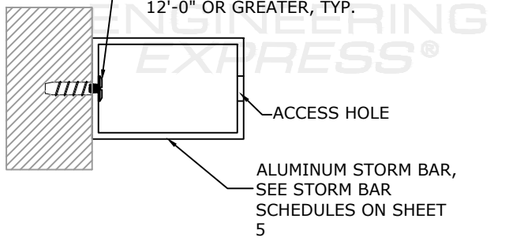
2/4 INSTALLATION W/ STORM BAR

N.T.S. EXTERIOR ELEV

STORM BARS & FABRIC MAY BE INSTALLED HORIZONTALLY OR VERTICALLY AS APPLICABLE (VERTICAL STORM BAR INSTALLATION WITH HORIZONTAL PANEL SPAN SHOWN HEREIN)

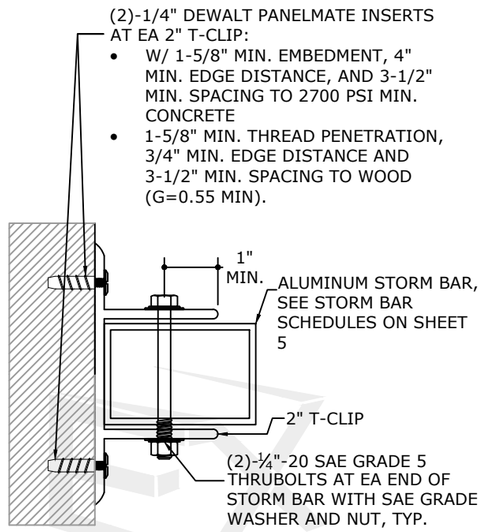
STORM BAR NOTES:

1. THE STORM BAR SCHEDULES ON SHEET 5 ARE GOVERNED BY POSITIVE WIND LOAD DIRECTIONS ONLY. NEGATIVE WIND LOAD DIRECTIONS DO NOT SUBJECT THE STORM BARS TO ANY EXTERIOR LOADING.
2. DIRECT MOUNTS AND 2" T-CLIP MOUNTS SHALL BE ATTACHED TO THE HOST STRUCTURE PER DETAILS 3/4 AND 4/4, RESPECTIVELY.
3. 1" T-CLIP MOUNTS (DETAIL 5/4) SHALL BE ATTACHED PER THE ANCHOR SCHEDULE ON SHEET 5.
4. STORM BAR LENGTHS, SHAPES OR ATTACHMENT METHODS THAT ARE NOT DETAILED IN THIS DRAWING SHALL BE DESIGNED ON A SITE SPECIFIC BASIS.



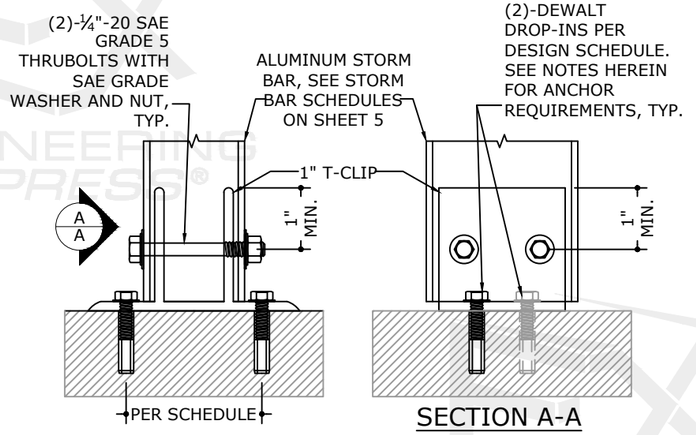
3/4 STORM BAR DIRECT MOUNT

N.T.S. SECTION



4/4 STORM BAR 2" T-CLIP MOUNT

N.T.S. SECTION



5/4 STORM BAR 1" T-CLIP MOUNT

N.T.S. SECTION

*SEE SHEET 5 FOR 1" T-CLIP ANCHOR DESIGN SCHEDULE

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STORM BAR SCHEDULES

2"x3"x1/8" STORM BAR								
MAX PANEL SPAN	60 PSF		50 PSF		40 PSF		30 PSF	
	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION
3 FT	75"	281.2 lb	80"	249.0 lb	86"	214.6 lb	94"	177.1 lb
4 FT	68"	340.6 lb	72"	301.6 lb	78"	259.9 lb	86"	214.6 lb
5 FT	63"	395.2 lb	67"	350.0 lb	72"	301.6 lb	80"	249.0 lb
6 FT	60"	446.3 lb	63"	395.2 lb	68"	340.6 lb	75"	281.2 lb
7 FT	57"	494.6 lb	60"	438.0 lb	65"	377.5 lb	71"	311.6 lb
8 FT	54"	540.7 lb	57"	478.8 lb	62"	412.6 lb	68"	340.6 lb
9 FT	52"	584.8 lb	55"	517.9 lb	60"	446.3 lb	65"	368.4 lb
10 FT	50"	624.7 lb	53"	555.6 lb	57"	478.8 lb	63"	395.2 lb
11 FT	48"	655.2 lb	52"	592.0 lb	56"	510.2 lb	61"	421.2 lb
12 FT	46"	684.4 lb	50"	624.7 lb	54"	540.7 lb	60"	446.3 lb
13 FT	44"	712.3 lb	48"	650.2 lb	53"	570.3 lb	58"	470.8 lb
14 FT	42"	739.2 lb	46"	674.8 lb	51"	599.2 lb	57"	494.6 lb
15 FT	41"	765.1 lb	45"	698.5 lb	50"	624.7 lb	55"	517.9 lb
16 FT	40"	790.2 lb	43"	721.4 lb	48"	645.2 lb	54"	540.7 lb
17 FT	38"	814.5 lb	42"	743.6 lb	47"	665.1 lb	53"	563.0 lb
18.17 FT	37"	842.1 lb	41"	768.7 lb	45"	687.6 lb	52"	588.5 lb

2"x5"x1/8" STORM BAR								
MAX PANEL SPAN	60 PSF		50 PSF		40 PSF		30 PSF	
	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION
3 FT	114"	428.8 lb	120"	375.0 lb	120"	300.0 lb	120"	225.0 lb
4 FT	104"	519.5 lb	110"	460.0 lb	119"	396.4 lb	120"	300.0 lb
5 FT	96"	602.8 lb	102"	533.8 lb	110"	460.0 lb	120"	375.0 lb
6 FT	91"	680.7 lb	96"	602.8 lb	104"	519.5 lb	114"	428.8 lb
7 FT	86"	754.3 lb	92"	668.0 lb	99"	575.7 lb	109"	475.2 lb
8 FT	82"	821.0 lb	88"	730.2 lb	94"	629.3 lb	104"	519.5 lb
9 FT	77"	870.8 lb	84"	789.9 lb	91"	680.7 lb	100"	561.9 lb
10 FT	73"	917.9 lb	80"	837.9 lb	88"	730.2 lb	96"	602.8 lb
11 FT	70"	962.7 lb	77"	878.8 lb	85"	778.1 lb	93"	642.3 lb
12 FT	67"	1005.5 lb	73"	917.9 lb	82"	821.0 lb	91"	680.7 lb
13 FT	64"	1046.5 lb	71"	955.3 lb	79"	854.5 lb	88"	718.0 lb
14 FT	62"	1086.0 lb	68"	991.4 lb	76"	886.7 lb	86"	754.3 lb
15 FT	60"	1124.2 lb	66"	1026.2 lb	73"	917.9 lb	84"	789.9 lb
16 FT	58"	1161.0 lb	64"	1059.9 lb	71"	948.0 lb	82"	821.0 lb
17 FT	56"	1196.8 lb	62"	1092.5 lb	69"	977.1 lb	80"	846.2 lb
18.17 FT	54"	1237.3 lb	60"	1129.5 lb	67"	1010.2 lb	77"	874.9 lb

1" T-CLIP ANCHOR SCHEDULE

SUBSTRATE	ANCHOR TYPE	EMBEDMENT	MINIMUM SPACING	MINIMUM EDGE DISTANCE	MAXIMUM END CAPACITY
CONCRETE (f'c=3000 psi MIN.)	(2) - 1/4" DIAMETER DEWALT STEEL DROP-IN	1"	3"	3 1/2"	**1060 lb**
	(2) - 3/8" DIAMETER DEWALT STEEL DROP-IN	1 9/16"	3"	5 1/4"	**1534 lb**

ANCHOR SCHEDULE NOTES:

1. THE "END REACTION" LISTED IN THE STORM BAR SCHEDULES ABOVE SHALL BE LESS THAN OR EQUAL TO THE "MAXIMUM END CAPACITY" LISTED IN THIS ANCHOR SCHEDULE.
2. THIS ANCHOR SCHEDULE APPLIES ONLY TO 1" T-CLIP MOUNTS. DIRECT MOUNT AND 2" T-CLIP MOUNTS SHALL BE INSTALLED PER THE DETAILS ON SHEET 4.
3. ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

2"x4"x1/8" STORM BAR								
MAX PANEL SPAN	60 PSF		50 PSF		40 PSF		30 PSF	
	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION
3 FT	95"	355.9 lb	101"	315.2 lb	109"	271.6 lb	120"	224.2 lb
4 FT	86"	431.2 lb	92"	381.8 lb	99"	329.0 lb	109"	271.6 lb
5 FT	80"	500.3 lb	85"	443.1 lb	92"	381.8 lb	101"	315.2 lb
6 FT	75"	565.0 lb	80"	500.3 lb	86"	431.2 lb	95"	355.9 lb
7 FT	72"	626.1 lb	76"	554.5 lb	82"	477.8 lb	90"	394.4 lb
8 FT	68"	684.4 lb	73"	606.1 lb	78"	522.3 lb	86"	431.2 lb
9 FT	65"	730.7 lb	70"	655.6 lb	75"	565.0 lb	83"	466.4 lb
10 FT	62"	770.2 lb	67"	703.1 lb	73"	606.1 lb	80"	500.3 lb
11 FT	59"	807.8 lb	64"	737.4 lb	70"	645.9 lb	78"	533.2 lb
12 FT	56"	843.7 lb	62"	770.2 lb	68"	684.4 lb	75"	565.0 lb
13 FT	54"	878.2 lb	59"	801.7 lb	66"	717.0 lb	73"	596.0 lb
14 FT	52"	911.3 lb	57"	831.9 lb	64"	744.1 lb	72"	626.1 lb
15 FT	50"	943.3 lb	55"	861.1 lb	62"	770.2 lb	70"	655.6 lb
16 FT	49"	974.3 lb	53"	889.4 lb	60"	795.5 lb	68"	684.4 lb
17 FT	47"	1004.2 lb	52"	916.7 lb	58"	820.0 lb	67"	710.1 lb
18.17 FT	46"	1038.2 lb	50"	947.8 lb	56"	847.7 lb	65"	734.1 lb

2"x6"x1/8" STORM BAR								
MAX PANEL SPAN	60 PSF		50 PSF		40 PSF		30 PSF	
	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION	MAX STORM BAR SPAN	END REACTION
3 FT	120"	450.0 lb	120"	375.0 lb	120"	300.0 lb	120"	225.0 lb
4 FT	120"	600.0 lb	120"	500.0 lb	120"	400.0 lb	120"	300.0 lb
5 FT	113"	703.6 lb	120"	623.0 lb	120"	500.0 lb	120"	375.0 lb
6 FT	106"	794.5 lb	113"	703.6 lb	120"	600.0 lb	120"	450.0 lb
7 FT	101"	880.5 lb	107"	779.7 lb	115"	671.9 lb	120"	525.0 lb
8 FT	95"	946.8 lb	102"	852.3 lb	110"	734.5 lb	120"	600.0 lb
9 FT	89"	1004.3 lb	98"	916.8 lb	106"	794.5 lb	117"	655.8 lb
10 FT	85"	1058.6 lb	93"	966.3 lb	102"	852.3 lb	113"	703.6 lb
11 FT	81"	1110.3 lb	88"	1013.5 lb	99"	906.5 lb	109"	749.7 lb
12 FT	77"	1159.6 lb	85"	1058.6 lb	95"	946.8 lb	106"	794.5 lb
13 FT	74"	1207.0 lb	81"	1101.8 lb	91"	985.5 lb	103"	838.0 lb
14 FT	72"	1252.5 lb	78"	1143.4 lb	88"	1022.7 lb	101"	880.5 lb
15 FT	69"	1296.5 lb	76"	1183.5 lb	85"	1058.6 lb	98"	916.8 lb
16 FT	67"	1339.0 lb	73"	1222.3 lb	82"	1093.3 lb	95"	946.8 lb
17 FT	65"	1380.2 lb	71"	1260.0 lb	80"	1126.9 lb	92"	976.0 lb
18.17 FT	63"	1426.9 lb	69"	1302.6 lb	77"	1165.1 lb	89"	1009.0 lb

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

SEPTEMBER 29, 2023

FRANK L. BENNARDO LICENSE No 0046549 STATE OF FLORIDA PROFESSIONAL ENGINEER
SIGNED: &[Date]

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BERTHA ASTROGUARD - WIND ABATEMENT SYSTEM
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#13271.1)

REMARKS	DRWN	CHKD	DATE
PREV SUBMITTAL (20-31278)	CCB	RWN	09/02/20
2023 FBC UPDATE	MRT	RWN	09/29/23
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-	-	-	-
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SEPTEMBER 29, 2023

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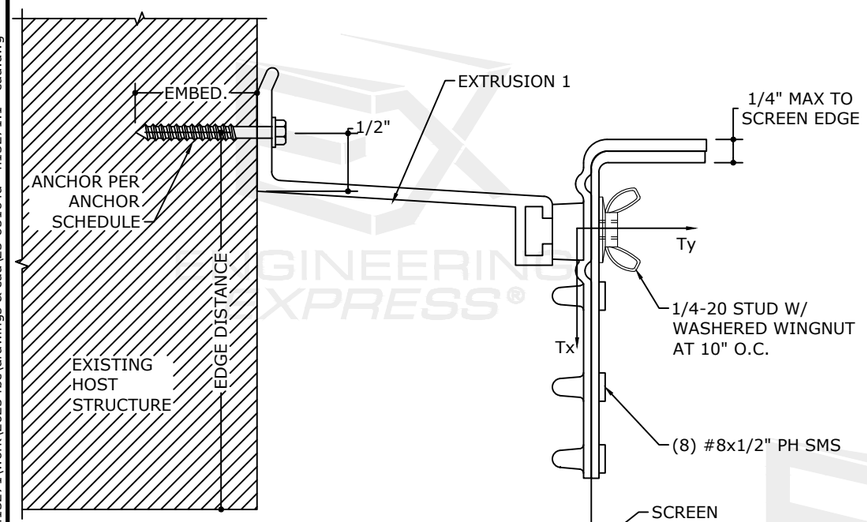
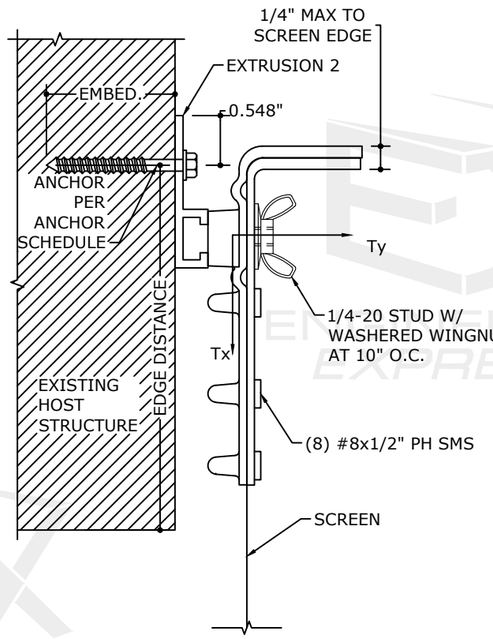


1 / 6 ALTERNATE ATTACHMENT EXTRUSION 1 MOUNT
N.T.S. SECTION VIEW



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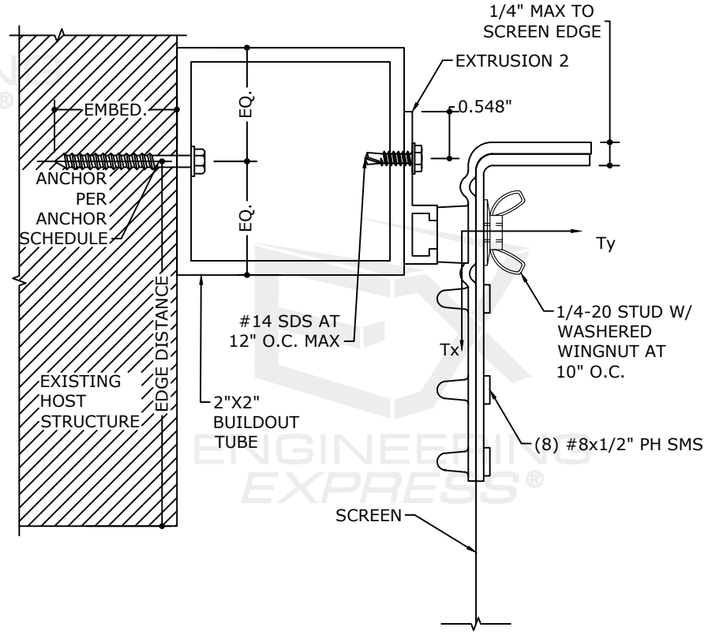
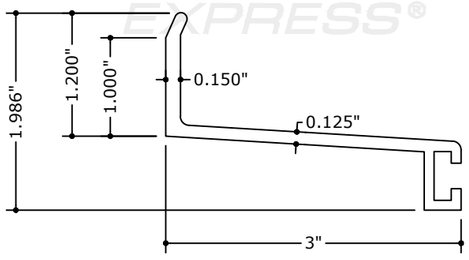


3 / 6 ALTERNATE ATTACHMENT BUILD OUT TUBE MOUNT
N.T.S. SECTION VIEW



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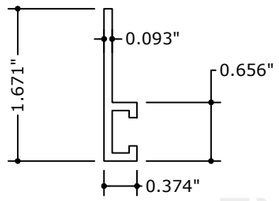
N.T.S. 6063-T6 ALUM



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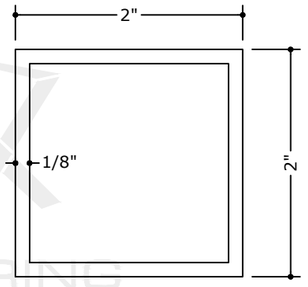

3 2"X2" BUILDOUT TUBE
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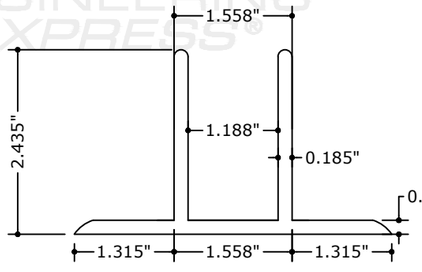
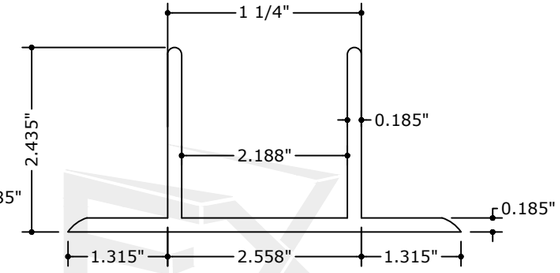


4 1" T-CLIP
N.T.S. 6063-T6 ALUM



5 2" T-CLIP
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BERTHA ASTROGUARD - WIND ABATEMENT SYSTEM
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#13271.1)

REMARKS	DRWN	CHKD	DATE
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2023 FBC UPDATE	MRT	RWN	09/29/23
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ANCHOR NOTES:

1. SEE EXTERIOR ELEVATION FOR ANCHOR LOCATIONS AND/OR SPACING.
2. PRESSURES LISTED IN ANCHOR SPACING SCHEDULES REPRESENT BOTH POSITIVE AND NEGATIVE PRESSURES.
3. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
4. UNLESS OTHERWISE NOTED HEREIN, WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
5. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
6. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
7. ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
8. ALL CONCRETE ANCHOR SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY. ALL EXISTING BLOCK SHALL BE ASTM C-90 MIN.
9. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
10. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
11. ▨ DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.
12. EDGE DISTANCES AND EMBEDMENT REQUIREMENTS ARE AS FOLLOWS:

12.1. 1/4" ITW SAMMY SSC
- 12.1.1. 2-1/4" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO CONCRETE
- 12.1.2. 1-1/4" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO HOLLOW CONCRETE BLOCK
- 12.1.3. 2-1/2" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO GROUT-FILLED CONCRETE BLOCK

12.2. 1/4" DEWALT PANELMATE (MALE OR FEMALE)
- 12.2.1. 1-3/4" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO CONCRETE
- 12.2.2. 1-1/4" EMBEDMENT AND 3" EDGE DISTANCE TO HOLLOW AND GROUT-FILLED CONCRETE BLOCK
- 12.2.3. 1-7/8" EMBEDMENT AND 3/4" EDGE DISTANCE TO WOOD

12.3. 1/4" DEWALT HOLLOW-SET DROPIN
- 12.3.1. 7/8" EMBEDMENT AND 3-1/2" EDGE DISTANCE TO CONCRETE AND HOLLOW AND GROUT-FILLED CONCRETE BLOCK

12.4. 1/4" DEWALT PANELMATE INSERT
- 12.4.1. 1-5/8" EMBEDMENT AND 4" EDGE DISTANCE TO CONCRETE
- 12.4.2. 1-1/4" EMBEDMENT AND 3-1/2" EDGE DISTANCE TO HOLLOW CONCRETE BLOCK
- 12.4.3. 1-1/2" EMBEDMENT AND 3-1/2" EDGE DISTANCE TO GROUT-FILLED CONCRETE BLOCK

12.5. 1/4" ALL POINTS SOLID-SET
- 12.5.1. 7/8" EMBEDMENT AND 3" EDGE DISTANCE TO CONCRETE AND HOLLOW AND GROUT-FILLED CONCRETE BLOCK

12.6. 1/4" DEWALT STEEL DROPIN
- 12.6.1. 1" EMBEDMENT AND 3-1/2" EDGE DISTANCE TO CONCRETE

12.7. 3/8" DEWALT STEEL DROPIN
- 12.7.1. 1-9/16" EMBEDMENT AND 5-1/4" EDGE DISTANCE TO CONCRETE

12.8. 1/4" DEWALT POWER-STUD (STAINLESS STEEL)
- 12.8.1. 2" EMBEDMENT AND 3" EDGE DISTANCE TO CONRETE
- 12.8.2. 2" EMBEDMENT AND 5-1/4" EDGE DISTANCE TO GROUT-FILLED CONCRETE BLOCK

12.9. 1/4" DEWALT PANELMATE TVAS
- 12.9.1. 2" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO CONCRETE
- 12.9.2. 1-1/4" EMBEDMENT AND 3" EDGE DISTANCE TO HOLLOW AND GROUT-FILLED CONCRETE BLOCK
- 12.9.3. 1-7/8" EMBEDMENT AND 3/4" EDGE DISTANCE TO WOOD

12.10. 1/4" DEWALT PANELMATE FEMALE ID
- 12.10.1. 1-3/4" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO CONCRETE
- 12.10.2. 1-1/4" EMBEDMENT AND 3" EDGE DISTANCE TO HOLLOW AND GROUT-FILLED CONCRETE BLOCK
- 12.10.3. 1-7/8" EMBEDMENT AND 3/4" EDGE DISTANCE TO WOOD

NOTE: FOR ALL 1/4" AND 5/16" DIAMETER ANCHOR OPTIONS LISTED IN THE ANCHOR SCHEDULE(S), AN EQUIVALENT DIAMETER HILLMAN/ALL-POINTS SOLID-SET ANCHOR (CARBON OR STAINLESS STEEL) MAY BE USED IN LIEU OF THE OPTION(S) LISTED SO LONG AS THE LISTED MINIMUM EMBEDMENT, EDGE DISTANCE AND SPACING ARE ACHIEVED.

1/4" ITW SAMMY SSC ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	3295 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	8.2	9.4	10.0	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	6.5	7.5	9.0	10.0	8.8	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	5.4	6.3	7.5	9.4	7.2	8.5	10.0	10.0
12'-0"	10.0	10.0	10.0	10.0	4.6	5.4	6.5	8.2	6.1	7.2	8.8	10.0
14'-0"	10.0	10.0	10.0	10.0	4.1	4.7	5.7	7.2	5.3	6.3	7.6	9.9
14'-8"	9.6	10.0	10.0	10.0	▨	4.6	5.5	6.9	5.1	6.0	7.3	9.5
16'-0"	8.9	10.0	10.0	10.0	▨	4.2	5.1	6.5	4.7	5.5	6.8	8.8
17'-0"	8.4	9.9	10.0	10.0	▨	4.0	4.9	6.2	4.4	5.3	6.4	8.3
18'-2"	7.9	9.3	10.0	10.0	▨	▨	4.6	5.8	4.2	4.9	6.1	7.8

1/4" ITW SAMMY SSC ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

SPAN	3295 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	9.7	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	7.2	8.2	9.7	10.0	8.3	9.4	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.8	6.7	7.8	9.7	6.8	7.7	9.0	10.0
10'-0"	10.0	10.0	10.0	10.0	4.9	5.6	6.7	8.2	5.8	6.6	7.7	9.4
12'-0"	10.0	10.0	10.0	10.0	4.3	4.9	5.8	7.2	5.1	5.8	6.8	8.3
14'-0"	9.0	10.0	10.0	10.0	▨	4.4	5.2	6.4	4.6	5.2	6.1	7.4
14'-8"	8.7	10.0	10.0	10.0	▨	4.2	5.0	6.2	4.4	5.0	5.9	7.2
16'-0"	8.2	9.4	10.0	10.0	▨	▨	4.7	5.8	4.1	4.7	5.5	6.8
17'-0"	7.8	9.0	10.0	10.0	▨	▨	4.5	5.6	▨	4.5	5.3	6.5
18'-2"	7.4	8.5	10.0	10.0	▨	▨	4.3	5.3	▨	4.3	5.1	6.2

1/4" DEWALT PANELMATE (MALE OR FEMALE) ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	3323 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	8.9	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	6.5	7.5	8.9	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.2	6.0	7.2	8.9	8.6	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	4.4	5.1	6.0	7.5	7.1	8.3	10.0	10.0
12'-0"	8.8	10.0	10.0	10.0	▨	4.4	5.2	6.5	6.0	7.1	8.6	10.0
14'-0"	7.7	9.0	10.0	10.0	▨	▨	4.6	5.8	5.3	6.2	7.5	9.6
14'-8"	7.4	8.7	10.0	10.0	▨	▨	4.5	5.6	5.0	5.9	7.2	9.2
16'-0"	6.9	8.1	9.7	10.0	▨	▨	4.2	5.2	4.7	5.5	6.7	8.6
17'-0"	6.6	7.7	9.2	10.0	▨	▨	▨	5.0	4.4	5.2	6.3	8.1
18'-2"	6.2	7.2	8.7	10.0	▨	▨	▨	4.7	4.2	4.9	6.0	7.7

1/4" DEWALT PANELMATE (MALE OR FEMALE) ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

SPAN	3323 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	8.7	9.9	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	6.4	7.3	8.7	10.0	8.9	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.1	5.9	7.0	8.7	7.2	8.3	9.7	10.0
10'-0"	9.4	10.0	10.0	10.0	4.3	5.0	5.9	7.3	6.1	7.0	8.3	10.0
12'-0"	8.2	9.4	10.0	10.0	▨	4.3	5.1	6.4	5.3	6.1	7.2	8.9
14'-0"	7.3	8.3	9.9	10.0	▨	▨	4.6	5.7	4.8	5.5	6.4	8.0
14'-8"	7.0	8.1	9.5	10.0	▨	▨	4.4	5.5	4.6	5.3	6.2	7.7
16'-0"	6.6	7.5	8.9	10.0	▨	▨	4.1	5.1	4.3	4.9	5.8	7.2
17'-0"	6.3	7.2	8.5	10.0	▨	▨	▨	4.9	4.1	4.7	5.6	6.9
18'-2"	6.0	6.8	8.1	10.0	▨	▨	▨	4.7	▨	4.5	5.3	6.6

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1/4" DEWALT HOLLOW-SET DROPIN ANCHOR SCHEDULE INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	5.2	5.9	6.8	8.3
6'-0"	9.6	10.0	10.0	10.0		4.5	5.2	6.3
8'-0"	7.7	8.9	10.0	10.0			4.3	5.2
10'-0"	6.5	7.5	8.9	10.0				4.5
12'-0"	5.7	6.5	7.7	9.6				
14'-0"	5.1	5.8	6.9	8.5				
14'-8"	4.9	5.6	6.7	8.3				
16'-0"	4.6	5.3	6.2	7.7				
17'-0"	4.4	5.0	5.9	7.4				
18'-2"	4.1	4.8	5.7	7.0				

1/4" DEWALT HOLLOW-SET DROPIN ANCHOR SCHEDULE WALL MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	8.3	9.7	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	5.7	6.8	8.3	10.0
8'-0"	8.4	9.7	10.0	10.0	4.4	5.2	6.4	8.3
10'-0"	7.0	8.1	9.7	10.0		4.3	5.2	6.8
12'-0"	6.0	7.0	8.4	10.0			4.4	5.7
14'-0"	5.3	6.2	7.4	9.3				5.0
14'-8"	5.1	5.9	7.1	9.0				4.8
16'-0"	4.8	5.5	6.6	8.4				4.4
17'-0"	4.5	5.3	6.3	8.0				4.2
18'-2"	4.3	5.0	6.0	7.6				

1/4" ALL POINTS SOLID-SET ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	3000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	8.0	9.3	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	6.8	7.8	9.3	10.0
12'-0"	10.0	10.0	10.0	10.0	5.9	6.8	8.0	10.0
14'-0"	9.0	10.0	10.0	10.0	5.2	6.0	7.1	8.9
14'-8"	8.7	10.0	10.0	10.0	5.0	5.8	6.9	8.6
16'-0"	8.1	9.4	10.0	10.0	4.7	5.4	6.4	8.0
17'-0"	7.7	8.9	10.0	10.0	4.4	5.1	6.1	7.7
18'-2"	7.3	8.5	10.0	10.0	4.2	4.9	5.8	7.3

1/4" ALL POINTS SOLID-SET ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

SPAN	3000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	8.1	9.3	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	6.8	7.8	9.3	10.0
12'-0"	10.0	10.0	10.0	10.0	5.9	6.8	8.1	10.0
14'-0"	9.1	10.0	10.0	10.0	5.2	6.0	7.1	8.9
14'-8"	8.8	10.0	10.0	10.0	5.0	5.8	6.9	8.6
16'-0"	8.2	9.5	10.0	10.0	4.7	5.4	6.4	8.1
17'-0"	7.8	9.0	10.0	10.0	4.4	5.1	6.1	7.7
18'-2"	7.4	8.5	10.0	10.0	4.2	4.9	5.8	7.3

1/4" DEWALT PANELMATE INSERT ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	2700 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	9.7	10.0	10.0	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	7.8	9.0	10.0	10.0	7.9	9.2	10.0	10.0
10'-0"	8.6	10.0	10.0	10.0	6.5	7.5	9.0	10.0	6.6	7.7	9.2	10.0
12'-0"	7.3	8.6	10.0	10.0	5.6	6.5	7.8	9.7	5.7	6.6	7.9	10.0
14'-0"	6.4	7.5	9.2	10.0	5.0	5.7	6.9	8.6	5.1	5.9	7.0	8.8
14'-8"	6.1	7.2	8.8	10.0	4.8	5.5	6.6	8.3	4.9	5.6	6.8	8.5
16'-0"	5.7	6.7	8.1	10.0	4.4	5.2	6.2	7.8	4.5	5.3	6.3	7.9
17'-0"	5.4	6.3	7.7	10.0	4.2	4.9	5.9	7.4	4.3	5.0	6.0	7.6
18'-2"	5.1	6.0	7.3	9.4		4.6	5.6	7.0	4.1	4.7	5.7	7.2

1/4" DEWALT PANELMATE INSERT ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

SPAN	2700 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	9.2	10.0	10.0	10.0	9.3	10.0	10.0	10.0
8'-0"	8.3	9.4	10.0	10.0	7.4	8.5	10.0	10.0	7.5	8.6	10.0	10.0
10'-0"	7.1	8.1	9.4	10.0	6.2	7.2	8.5	10.0	6.3	7.2	8.6	10.0
12'-0"	6.2	7.1	8.3	10.0	5.4	6.2	7.4	9.2	5.5	6.3	7.5	9.3
14'-0"	5.6	6.3	7.4	9.1	4.8	5.5	6.6	8.2	4.9	5.6	6.6	8.3
14'-8"	5.4	6.1	7.2	8.8	4.6	5.3	6.3	7.9	4.7	5.4	6.4	8.0
16'-0"	5.1	5.8	6.8	8.3	4.3	5.0	5.9	7.4	4.4	5.1	6.0	7.5
17'-0"	4.8	5.5	6.5	7.9	4.1	4.8	5.7	7.1	4.2	4.8	5.7	7.1
18'-2"	4.6	5.3	6.2	7.6		4.5	5.4	6.7		4.6	5.4	6.8

1/4" DEWALT STEEL DROPIN ANCHOR SCHEDULE INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0
12'-0"	9.4	10.0	10.0	10.0
14'-0"	8.3	9.6	10.0	10.0
14'-8"	8.0	9.2	10.0	10.0
16'-0"	7.5	8.6	10.0	10.0
17'-0"	7.1	8.2	9.8	10.0
18'-2"	6.8	7.8	9.3	10.0

1/4" DEWALT STEEL DROPIN ANCHOR SCHEDULE WALL MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0
12'-0"	9.5	10.0	10.0	10.0
14'-0"	8.4	9.8	10.0	10.0
14'-8"	8.1	9.4	10.0	10.0
16'-0"	7.6	8.8	10.0	10.0
17'-0"	7.2	8.4	10.0	10.0
18'-2"	6.8	7.9	9.5	10.0

NOTE: SEE SHEET 7 FOR ANCHOR NOTES

3/8" DEWALT STEEL DROPIN ANCHOR SCHEDULE INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0
12'-0"	10.0	10.0	10.0	10.0
14'-0"	10.0	10.0	10.0	10.0
14'-8"	10.0	10.0	10.0	10.0
16'-0"	10.0	10.0	10.0	10.0
17'-0"	10.0	10.0	10.0	10.0
18'-2"	10.0	10.0	10.0	10.0

3/8" DEWALT STEEL DROPIN ANCHOR SCHEDULE WALL MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0
12'-0"	10.0	10.0	10.0	10.0
14'-0"	10.0	10.0	10.0	10.0
14'-8"	10.0	10.0	10.0	10.0
16'-0"	10.0	10.0	10.0	10.0
17'-0"	10.0	10.0	10.0	10.0
18'-2"	10.0	10.0	10.0	10.0

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1/4" DEWALT POWER-STUD ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)								
SPAN	4000 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	9.5	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	7.5	8.8	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	6.3	7.3	8.8	10.0
12'-0"	8.6	10.0	10.0	10.0	5.4	6.3	7.5	9.5
14'-0"	7.6	8.9	10.0	10.0	4.7	5.5	6.7	8.4
14'-8"	7.3	8.5	10.0	10.0	4.6	5.3	6.4	8.1
16'-0"	6.8	7.9	9.5	10.0	4.2	4.9	6.0	7.5
17'-0"	6.5	7.5	9.1	10.0	4.0	4.7	5.7	7.2
18'-2"	6.1	7.1	8.6	10.0	-	4.4	5.4	6.8

1/4" DEWALT POWER-STUD ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)								
SPAN	4000 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	8.4	9.6	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	6.8	7.7	9.1	10.0
10'-0"	9.3	10.0	10.0	10.0	5.7	6.6	7.7	9.6
12'-0"	8.1	9.3	10.0	10.0	5.0	5.7	6.8	8.4
14'-0"	7.2	8.3	9.8	10.0	4.5	5.1	6.0	7.5
14'-8"	7.0	8.0	9.5	10.0	4.3	4.9	5.8	7.2
16'-0"	6.5	7.5	8.9	10.0	4.0	4.6	5.5	6.8
17'-0"	6.2	7.2	8.5	10.0	-	4.4	5.2	6.5
18'-2"	5.9	6.8	8.1	10.0	-	4.2	5.0	6.2

1/4" DEWALT PANELMATE TVAS ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)												
SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	9.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	7.0	8.0	9.5	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.7	6.5	7.7	9.5	8.6	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	4.8	5.5	6.5	8.0	7.1	8.3	10.0	10.0
12'-0"	10.0	10.0	10.0	10.0	4.2	4.8	5.7	7.0	6.0	7.1	8.6	10.0
14'-0"	9.7	10.0	10.0	10.0	-	4.3	5.0	6.3	5.3	6.2	7.5	9.6
14'-8"	9.4	10.0	10.0	10.0	-	4.1	4.9	6.1	5.0	5.9	7.2	9.2
16'-0"	8.7	10.0	10.0	10.0	-	-	4.6	5.7	4.7	5.5	6.7	8.6
17'-0"	8.3	9.6	10.0	10.0	-	-	4.4	5.4	4.4	5.2	6.3	8.1
18'-2"	7.9	9.1	10.0	10.0	-	-	4.1	5.2	4.2	4.9	6.0	7.7

1/4" DEWALT PANELMATE TVAS ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)												
SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	7.7	8.9	10.0	10.0	8.9	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	6.1	7.1	8.4	10.0	7.2	8.3	9.7	10.0
10'-0"	10.0	10.0	10.0	10.0	5.1	5.9	7.1	8.9	6.1	7.0	8.3	10.0
12'-0"	10.0	10.0	10.0	10.0	4.4	5.1	6.1	7.7	5.3	6.1	7.2	8.9
14'-0"	9.6	10.0	10.0	10.0	-	4.5	5.4	6.8	4.8	5.5	6.4	8.0
14'-8"	9.2	10.0	10.0	10.0	-	4.3	5.2	6.6	4.6	5.3	6.2	7.7
16'-0"	8.6	9.9	10.0	10.0	-	4.0	4.8	6.1	4.3	4.9	5.8	7.2
17'-0"	8.2	9.5	10.0	10.0	-	-	4.6	5.8	4.1	4.7	5.6	6.9
18'-2"	7.8	9.0	10.0	10.0	-	-	4.4	5.5	-	4.5	5.3	6.6

NOTE: SEE SHEET 7
FOR ANCHOR NOTES

1/4" DEWALT PANELMATE FEMALE ID ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)												
SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	8.9	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	6.5	7.5	8.9	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.2	6.0	7.2	8.9	8.6	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	4.4	5.1	6.0	7.5	7.1	8.3	10.0	10.0
12'-0"	8.8	10.0	10.0	10.0	-	4.4	5.2	6.5	6.0	7.1	8.6	10.0
14'-0"	7.7	9.0	10.0	10.0	-	-	4.6	5.8	5.3	6.2	7.5	9.6
14'-8"	7.4	8.7	10.0	10.0	-	-	4.5	5.6	5.0	5.9	7.2	9.2
16'-0"	6.9	8.1	9.7	10.0	-	-	4.2	5.2	4.7	5.5	6.7	8.6
17'-0"	6.6	7.7	9.2	10.0	-	-	-	5.0	4.4	5.2	6.3	8.1
18'-2"	6.2	7.2	8.7	10.0	-	-	-	4.7	4.2	4.9	6.0	7.7

1/4" DEWALT PANELMATE FEMALE ID ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)												
SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	8.7	9.9	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	6.4	7.3	8.7	10.0	8.9	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.1	5.9	7.0	8.7	7.2	8.3	9.7	10.0
10'-0"	9.4	10.0	10.0	10.0	4.3	5.0	5.9	7.3	6.1	7.0	8.3	10.0
12'-0"	8.2	9.4	10.0	10.0	-	4.3	5.1	6.4	5.3	6.1	7.2	8.9
14'-0"	7.3	8.3	9.9	10.0	-	-	4.6	5.7	4.8	5.5	6.4	8.0
14'-8"	7.0	8.1	9.5	10.0	-	-	4.4	5.5	4.6	5.3	6.2	7.7
16'-0"	6.6	7.5	8.9	10.0	-	-	4.1	5.1	4.3	4.9	5.8	7.2
17'-0"	6.3	7.2	8.5	10.0	-	-	-	4.9	4.1	4.7	5.6	6.9
18'-2"	6.0	6.8	8.1	10.0	-	-	-	4.7	-	4.5	5.3	6.6

1/4" ITW SAMMY SSC ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)								
SPAN	3295 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	6.1	6.9	8.0	9.8	-	4.4	5.1	6.2
6'-0"	4.6	5.2	6.1	7.4	-	-	-	4.7
8'-0"	-	4.2	5.0	6.1	-	-	-	-
10'-0"	-	-	4.2	5.2	-	-	-	-
12'-0"	-	-	-	4.6	-	-	-	-

1/4" DEWALT PANELMATE (MALE OR FEMALE) ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)								
SPAN	3323 PSI MIN CONCRETE				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.3	4.9	5.7	7.0	-	4.5	5.3	6.4
6'-0"	-	-	4.3	5.3	-	-	-	4.9
8'-0"	-	-	-	4.3	-	-	-	-

1/4" DEWALT PANELMATE INSERT ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)								
SPAN	2700 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.4	5.0	5.9	7.2	-	-	-	4.3
6'-0"	-	-	4.4	5.4	-	-	-	-
8'-0"	-	-	-	4.4	-	-	-	-

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PE# 0046549 CA# 9885

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FLORIDA STATEWIDE APPROVAL (FSA FL#13271.1)

REMARKS	DRWN	CHKD	DATE
PREV SUBMITTAL (20-31278)	CCB	RWN	09/02/20
2023 FBC UPDATE	MRT	RWN	09/29/23
-	-	-	-
-	-	-	-
-	-	-	-

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1/4" ALL POINTS SOLID-SET ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)				
SPAN	3000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.4	5.0	5.8	7.1
6'-0"			4.4	5.4
8'-0"				4.4

3/8" DEWALT STEEL DROPIN ANCHOR SCHEDULE EXTRUSION 1 MOUNT (IN. O.C.)				
SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.5	9.6	11.2	12.0
6'-0"	6.4	7.3	8.5	10.4
8'-0"	5.2	5.9	6.9	8.5
10'-0"		5.1	5.9	7.3
12'-0"			5.2	6.4
14'-0"			4.7	5.7
14'-8"			4.5	5.6
16'-0"				5.2
17'-0"				5.0
18'-2"				4.8

1/4" DEWALT STEEL DROPIN ANCHOR SCHEDULE EXTRUSION 1 MOUNT (IN. O.C.)				
SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.0	4.6	5.3	6.5
6'-0"			4.0	4.9

1/4" DEWALT POWER-STUD ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)								
SPAN	4000 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.1	4.7	5.5	6.7				4.3
6'-0"			4.1	5.1				

1/4" DEWALT PANELMATE TVAS ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)								
SPAN	3350 PSI MIN CONCRETE				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.9	5.6	6.6	8.0		4.5	5.3	6.4
6'-0"		4.2	4.9	6.0				4.9
8'-0"			4.1	4.9				
10'-0"				4.2				

1/4" DEWALT PANELMATE FEMALE ID ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)												
SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.3	4.9	5.7	7.0						4.5	5.3	6.4
6'-0"			4.3	5.3								4.9
8'-0"				4.3								

NOTE: SEE SHEET 7 FOR ANCHOR NOTES

1/4" ITW SAMMY SSC ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)												
SPAN	3295 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	6.9	8.0	9.6	12.0	9.2	10.6	12.0	12.0
6'-0"	12.0	12.0	12.0	12.0	5.0	5.8	6.9	8.8	6.8	7.8	9.2	11.4
8'-0"	9.7	11.3	12.0	12.0		4.5	5.5	6.9	5.4	6.2	7.4	9.2
10'-0"	8.1	9.4	11.3	12.0			4.5	5.8	4.5	5.2	6.2	7.8
12'-0"	6.9	8.1	9.7	12.0				5.0		4.5	5.4	6.8
14'-0"	6.1	7.1	8.6	10.9				4.4		4.0	4.8	6.0
14'-8"	5.9	6.8	8.3	10.5				4.2			4.6	5.8
16'-0"	5.4	6.4	7.7	9.7							4.3	5.4
17'-0"	5.2	6.0	7.3	9.3							4.1	5.2
18'-2"	4.9	5.7	6.9	8.8								4.9

1/4" DEWALT PANELMATE (MALE OR FEMALE) ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)												
SPAN	3323 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	5.7	6.6	8.0	10.1	9.1	10.4	12.0	12.0
6'-0"	9.4	11.0	12.0	12.0	4.0	4.7	5.7	7.2	6.6	7.6	9.1	11.3
8'-0"	7.4	8.6	10.4	12.0			4.4	5.7	5.2	6.1	7.2	9.1
10'-0"	6.1	7.1	8.6	11.0				4.7	4.4	5.1	6.1	7.6
12'-0"	5.2	6.1	7.4	9.4				4.0		4.4	5.2	6.6
14'-0"	4.6	5.4	6.5	8.3							4.6	5.8
14'-8"	4.4	5.1	6.2	8.0							4.5	5.6
16'-0"	4.1	4.8	5.8	7.4							4.2	5.2
17'-0"		4.5	5.5	7.0								5.0
18'-2"		4.3	5.2	6.6								4.7

1/4" DEWALT HOLLOW-SET DROPIN ANCHOR SCHEDULE EXTRUSION 2 MOUNT (IN. O.C.)								
SPAN	4000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.5	9.9	12.0	12.0		4.3	5.2	6.8
6'-0"	5.9	6.9	8.5	10.9				4.7
8'-0"	4.6	5.4	6.6	8.5				
10'-0"		4.4	5.4	6.9				
12'-0"			4.6	5.9				
14'-0"				5.1				
14'-8"				4.9				
16'-0"				4.6				
17'-0"				4.3				
18'-2"				4.1				

1/4" DEWALT PANELMATE INSERT ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)												
SPAN	2700 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	11.1	12.0	12.0	12.0	8.4	9.8	11.8	12.0	8.6	10.0	12.0	12.0
6'-0"	8.1	9.3	11.1	12.0	6.0	7.0	8.4	10.7	6.1	7.1	8.6	10.9
8'-0"	6.4	7.4	8.9	11.1	4.6	5.4	6.6	8.4	4.8	5.6	6.7	8.6
10'-0"	5.4	6.2	7.4	9.3		4.5	5.4	7.0		4.6	5.6	7.1
12'-0"	4.7	5.4	6.4	8.1			4.6	6.0			4.8	6.1
14'-0"	4.1	4.8	5.7	7.2			4.1	5.2			4.2	5.3
14'-8"		4.6	5.5	6.9				5.0				5.1
16'-0"		4.3	5.1	6.4				4.6				4.8
17'-0"		4.1	4.9	6.1				4.4				4.5
18'-2"			4.6	5.8				4.2				4.3

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REMARKS	DRWN	CHKD	DATE
PREV SUBMITTAL (20-31278)	CCB	RWN	09/02/20
2023 FBC UPDATE	MRT	RWN	09/29/23

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1/4" ALL POINTS SOLID-SET ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)								
SPAN	3000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	8.7	10.2	12.0	12.0
6'-0"	10.7	12.0	12.0	12.0	6.1	7.2	8.7	11.1
8'-0"	8.3	9.7	11.8	12.0	4.8	5.6	6.8	8.7
10'-0"	6.8	8.0	9.7	12.0		4.6	5.6	7.2
12'-0"	5.8	6.8	8.3	10.7			4.8	6.1
14'-0"	5.0	5.9	7.2	9.3			4.2	5.4
14'-8"	4.8	5.7	6.9	9.0				5.2
16'-0"	4.5	5.3	6.4	8.3				4.8
17'-0"	4.2	5.0	6.1	7.9				4.5
18'-2"		4.7	5.7	7.4				4.3

1/4" DEWALT STEEL DROPIN ANCHOR SCHEDULE EXTRUSION 2 MOUNT (IN. O.C.)				
SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0
6'-0"	9.8	11.5	12.0	12.0
8'-0"	7.6	8.9	10.9	12.0
10'-0"	6.2	7.3	8.9	11.5
12'-0"	5.3	6.2	7.6	9.8
14'-0"	4.6	5.4	6.6	8.6
14'-8"	4.4	5.2	6.4	8.2
16'-0"	4.1	4.8	5.9	7.6
17'-0"		4.6	5.6	7.2
18'-2"		4.3	5.2	6.8

3/8" DEWALT STEEL DROPIN ANCHOR SCHEDULE EXTRUSION 2 MOUNT (IN. O.C.)				
SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0
6'-0"	12.0	12.0	12.0	12.0
8'-0"	12.0	12.0	12.0	12.0
10'-0"	12.0	12.0	12.0	12.0
12'-0"	11.2	12.0	12.0	12.0
14'-0"	9.8	11.5	12.0	12.0
14'-8"	9.4	11.0	12.0	12.0
16'-0"	8.6	10.2	12.0	12.0
17'-0"	8.2	9.7	11.8	12.0
18'-2"	7.7	9.1	11.1	12.0

1/4" DEWALT POWER-STUD ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)								
SPAN	4000 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	8.1	9.4	11.2	12.0
6'-0"	9.2	10.8	12.0	12.0	5.8	6.7	8.1	10.2
8'-0"	7.2	8.4	10.2	12.0	4.5	5.3	6.4	8.1
10'-0"	6.0	7.0	8.4	10.8		4.4	5.3	6.7
12'-0"	5.1	6.0	7.2	9.2			4.5	5.8
14'-0"	4.5	5.2	6.3	8.1				5.1
14'-8"	4.3	5.0	6.1	7.8				4.9
16'-0"		4.6	5.6	7.2				4.5
17'-0"		4.4	5.4	6.9				4.3
18'-2"		4.2	5.1	6.5				4.1

1/4" DEWALT PANELMATE TVAS ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)												
SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	6.2	7.3	8.8	11.3	9.1	10.4	12.0	12.0
6'-0"	11.6	12.0	12.0	12.0	4.3	5.1	6.2	8.0	6.6	7.6	9.1	11.3
8'-0"	9.1	10.6	12.0	12.0			4.8	6.2	5.2	6.1	7.2	9.1
10'-0"	7.4	8.7	10.6	12.0				5.1	4.4	5.1	6.1	7.6
12'-0"	6.3	7.4	9.1	11.6				4.3		4.4	5.2	6.6
14'-0"	5.5	6.5	7.9	10.2							4.6	5.8
14'-8"	5.3	6.2	7.6	9.8							4.5	5.6
16'-0"	4.9	5.8	7.0	9.1							4.2	5.2
17'-0"	4.6	5.5	6.7	8.6								5.0
18'-2"	4.4	5.1	6.3	8.1								4.7

1/4" DEWALT PANELMATE FEMALE ID ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)												
SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	5.7	6.6	8.0	10.1	9.1	10.4	12.0	12.0
6'-0"	9.4	11.0	12.0	12.0	4.0	4.7	5.7	7.2	6.6	7.6	9.1	11.3
8'-0"	7.4	8.6	10.4	12.0			4.4	5.7	5.2	6.1	7.2	9.1
10'-0"	6.1	7.1	8.6	11.0				4.7	4.4	5.1	6.1	7.6
12'-0"	5.2	6.1	7.4	9.4				4.0		4.4	5.2	6.6
14'-0"	4.6	5.4	6.5	8.3							4.6	5.8
14'-8"	4.4	5.1	6.2	8.0							4.5	5.6
16'-0"	4.1	4.8	5.8	7.4							4.2	5.2
17'-0"		4.5	5.5	7.0								5.0
18'-2"		4.3	5.2	6.6								4.7

NOTE: SEE SHEET 7
FOR ANCHOR NOTES

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

FRANK L. BENNARDO LICENSE No 0046549 STATE OF FLORIDA PROFESSIONAL ENGINEER
SIGNED: &[Date]

SEPTEMBER 29, 2023

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BERTHA ASTROGUARD - WIND ABATEMENT SYSTEM
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#13271.1)

REMARKS	DRWN	CHKD	DATE
PREV SUBMITTAL (20-31278)	CCB	RWN	09/02/20
2023 FBC UPDATE	MRT	RWN	09/29/23
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-	-	-	-
-	-	-	-

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1/4" ITW SAMMY SSC ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	3295 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	11.8	12.0	12.0	12.0	4.6	5.2	6.1	7.5	7.0	7.9	9.2	11.3
6'-0"	8.8	10.1	11.8	12.0			4.6	5.6	5.2	5.9	7.0	8.5
8'-0"	7.2	8.2	9.6	11.8				4.6	4.3	4.9	5.7	7.0
10'-0"	6.1	7.0	8.2	10.1						4.1	4.9	5.9
12'-0"	5.4	6.1	7.2	8.8							4.3	5.2
14'-0"	4.8	5.5	6.4	7.9								4.7
14'-8"	4.6	5.3	6.2	7.7								4.5
16'-0"	4.3	5.0	5.8	7.2								4.3
17'-0"	4.2	4.8	5.6	6.9								4.1
18'-2"		4.5	5.3	6.6								

1/4" DEWALT PANELMATE (MALE OR FEMALE) ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	3323 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.7	9.9	11.6	12.0		4.0	4.7	5.8	6.7	7.6	8.9	10.9
6'-0"	6.5	7.4	8.7	10.7				4.4	5.1	5.8	6.7	8.2
8'-0"	5.3	6.0	7.1	8.7					4.1	4.7	5.5	6.7
10'-0"	4.5	5.1	6.0	7.4						4.0	4.7	5.8
12'-0"		4.5	5.3	6.5							4.1	5.1
14'-0"		4.0	4.7	5.8								4.5
14'-8"			4.6	5.6								4.4
16'-0"			4.3	5.3								4.1
17'-0"			4.1	5.1								
18'-2"				4.8								

1/4" DEWALT PANELMATE INSERT ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	2700 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.2	9.3	10.9	12.0	5.3	6.1	7.1	8.7	5.5	6.3	7.3	9.0
6'-0"	6.1	7.0	8.2	10.0		4.5	5.3	6.6	4.1	4.7	5.5	6.7
8'-0"	5.0	5.7	6.7	8.2			4.3	5.3			4.5	5.5
10'-0"	4.3	4.9	5.7	7.0				4.5				4.7
12'-0"		4.3	5.0	6.1								4.1
14'-0"			4.5	5.5								
14'-8"			4.3	5.3								
16'-0"			4.1	5.0								
17'-0"				4.8								
18'-2"				4.6								

1/4" DEWALT PANELMATE FEMALE ID ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.7	9.9	11.6	12.0		4.0	4.7	5.8	6.7	7.6	8.9	10.9
6'-0"	6.5	7.4	8.7	10.7				4.4	5.1	5.8	6.7	8.2
8'-0"	5.3	6.0	7.1	8.7					4.1	4.7	5.5	6.7
10'-0"	4.5	5.1	6.0	7.4						4.0	4.7	5.8
12'-0"		4.5	5.3	6.5							4.1	5.1
14'-0"		4.0	4.7	5.8								4.5
14'-8"			4.6	5.6								4.4
16'-0"			4.3	5.3								4.1
17'-0"			4.1	5.1								
18'-2"				4.8								

1/4" ALL POINTS SOLID-SET ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	3000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	9.3	10.6	12.0	12.0	5.4	6.1	7.2	8.8
6'-0"	6.9	7.9	9.3	11.4	4.0	4.6	5.4	6.6
8'-0"	5.6	6.4	7.6	9.3			4.4	5.4
10'-0"	4.8	5.5	6.4	7.9				4.6
12'-0"	4.2	4.8	5.6	6.9				4.0
14'-0"		4.3	5.0	6.2				
14'-8"		4.1	4.9	6.0				
16'-0"			4.6	5.6				
17'-0"			4.4	5.4				
18'-2"			4.2	5.1				

1/4" DEWALT STEEL DROPIN ANCHOR SCHEDULE BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.5	9.7	11.4	12.0
6'-0"	6.3	7.2	8.5	10.5
8'-0"	5.1	5.9	6.9	8.5
10'-0"	4.4	5.0	5.9	7.2
12'-0"		4.4	5.1	6.3
14'-0"			4.6	5.7
14'-8"			4.4	5.5
16'-0"			4.2	5.1
17'-0"				4.9
18'-2"				4.7

3/8" DEWALT STEEL DROPIN ANCHOR SCHEDULE BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0
6'-0"	12.0	12.0	12.0	12.0
8'-0"	10.9	12.0	12.0	12.0
10'-0"	9.2	10.6	12.0	12.0
12'-0"	8.1	9.2	10.9	12.0
14'-0"	7.2	8.3	9.7	12.0
14'-8"	7.0	8.0	9.4	11.6
16'-0"	6.5	7.5	8.8	10.9
17'-0"	6.2	7.1	8.4	10.4
18'-2"	5.9	6.8	8.0	9.9

1/4" DEWALT POWER-STUD ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.4	9.6	11.3	12.0	5.4	6.1	7.1	8.8
6'-0"	6.3	7.2	8.4	10.4	4.0	4.6	5.4	6.6
8'-0"	5.1	5.8	6.9	8.4			4.4	5.4
10'-0"	4.4	5.0	5.8	7.2				4.6
12'-0"		4.4	5.1	6.3				4.0
14'-0"			4.6	5.6				
14'-8"			4.4	5.5				
16'-0"			4.2	5.1				
17'-0"				4.9				
18'-2"				4.7				

1/4" DEWALT HOLLOW-SET DROPIN ANCHOR SCHEDULE BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	5.0	5.7	6.7	8.2
6'-0"		4.3	5.0	6.2
8'-0"			4.1	5.0
10'-0"				4.3

1/4" DEWALT PANELMATE TVAS ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.3	11.8	12.0	12.0		4.2	4.9	6.1	6.7	7.6	8.9	10.9
6'-0"	7.7	8.8	10.3	12.0				4.5	5.1	5.8	6.7	8.2
8'-0"	6.2	7.1	8.4	10.3					4.1	4.7	5.5	6.7
10'-0"	5.3	6.1	7.1	8.8						4.0	4.7	5.8
12'-0"	4.6	5.3	6.2	7.7							4.1	5.1
14'-0"	4.1	4.7	5.6	6.9								4.5
14'-8"	4.0	4.6	5.4	6.7								4.4
16'-0"		4.3	5.1	6.2								4.1
17'-0"		4.1	4.8	6.0								
18'-2"			4.6	5.7								

NOTE: SEE SHEET 7 FOR ANCHOR NOTES

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PE# 0046549 CA# 9885

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REMARKS	DRWN	CHKD	DATE
PREV SUBMITTAL (20-31278)	CCB	RWN	09/02/20
2023 FBC UPDATE	MRT	RWN	09/29/23

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