

ADVANCED HURRICANE TECHNOLOGY

STORM PANEL EMERGENCY SCREEN

(HVHZ) (IMPACT)

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC) **INCLUDING** HVHZ, AS WELL AS THE CURRENT EDITION FLORIDA RESIDENTIAL CODE (FRC), INTERNATIONAL BUILDING CODE (IBC), AND INTERNATIONAL RESIDENTIAL CODE (IRC). ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E330/E330M-14(21)
 - ASTM E1886-19
 - ASTM E1996-20
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- FABRIC OPTIONS AND SPECIFICATIONS:
 - ARAMID: A WOVEN SCREEN FABRIC USING 0.027" DIAMETER VINYL COATED 1,500 DENIER POLYESTER CORE YARNS IN THE WRAP DIRECTION AND 0.030" VINYL COATED 2,000 DENIER TWARON CORE YARNS IN THE FILL DIRECTION.
 - POLYPROPYLENE: 100% POLYPROPYLENE, 6/3 BASKET WEAVE, CALENDARED FINISH.

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5	STAINLESS STEEL ANCHOR SCHEDULE

DESIGN RATINGS		
DIMENSIONS	MAX. DESIGN PRESSURE	MISSILE RATING
SEE SHEET 2	+/- 80 PSF	LARGE AND SMALL MISSILE IMPACT

ARAMID FABRIC PROPERTIES		
PROPERTY	TEST METHOD	TYPICAL
WEIGHT, oz/yd ²	-	22.12
TENSILE STRENGTH (WRAP), lbs	ISO 13934-1: 2013	1034.1
TENSILE STRENGTH (WEFT), lbs		1393.8
TEAR STRENGTH (WRAP), lbs	GB/T 3917.3-2009	175.4
TEAR STRENGTH (WEFT), lbs		164.1
ELONGATION, %	-	-
ABRASION RESISTANCE	-	-
FLAMMABILITY RATING	NFPA 701	PASS
WEATHER ABILITY, 1200 HOURS	-	-
BALL BURST, lbs	-	-
BURSTING STRENGTH, psi	-	-
PUNCTURE RESISTANCE, lbs	-	-

POLYPROPYLENE FABRIC PROPERTIES			
PROPERTY	TEST METHOD	TYPICAL	
		MD	CD
WEIGHT, oz/yd ²	ASTM D5261	9.7	
THICKNESS, mil	ASTM D5199	21	
CONSTRUCTION, EPI/PPI	-	60 X 63	
FIBER CONTENT	-	100% PP	
GRAB TENSILE STRENGTH, lbs	ASTM D4632	500	550
TRAPEZOID TEST STRENGTH, lbs	ASTM D4533	200	250
MULLEN BURST, lbs	ASTM D3786	750	
PUNCTURE STRENGTH, lbs	ASTM D4833	200	
AIR FLOW, cfm	ASTM D737	175	
PERCENT OPEN AREA, %	COE-02215	5	
UV RESISTANCE (QUV), %	ASTM G154	70	



16501 AIRPORT HAUL ROAD
FORT MYERS, FLORIDA 33913
PH: (239) 594-7722

TITLE:
STORM PANEL EMERGENCY SCREEN
(HVHZ) (IMPACT)

GENERAL NOTES & DESIGN RATINGS

PREPARED BY:

BUILDING DROPS

BUILDING DROPS, INC.
1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132
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WEB: www.buildingdrops.com

REMARKS	BY	DATE
2026 CODE CHANGE	HJ	07/26

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Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2026.10.11 17:35:47 -0400



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FLORIDA P.E. No. 73778
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1900 NE MIAMI COURT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 295578

FL #: **FL47875**

DATE: **09.22.2025**

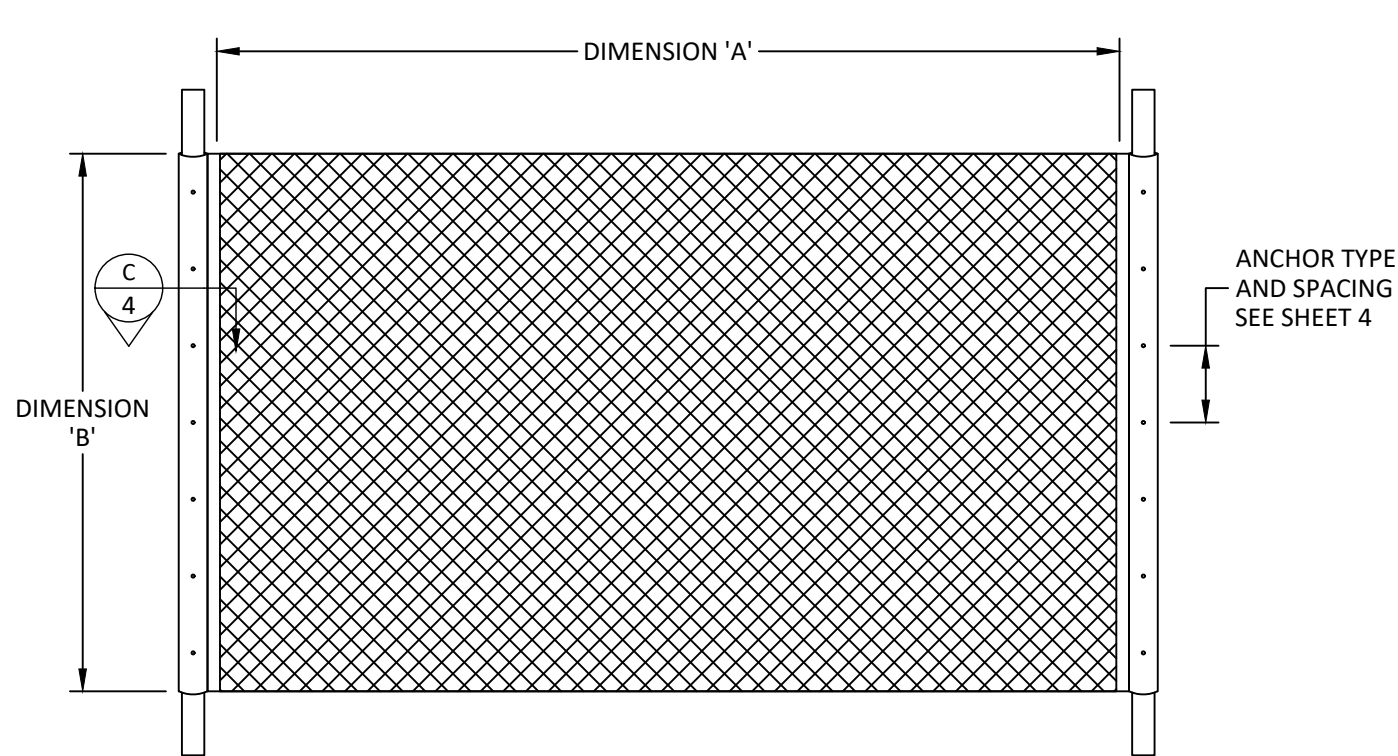
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SCALE: **NTS**

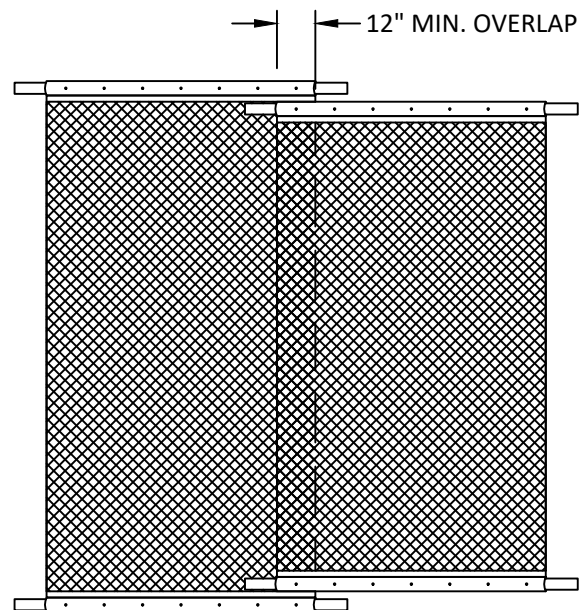
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SHEET: **1** REV. **A**

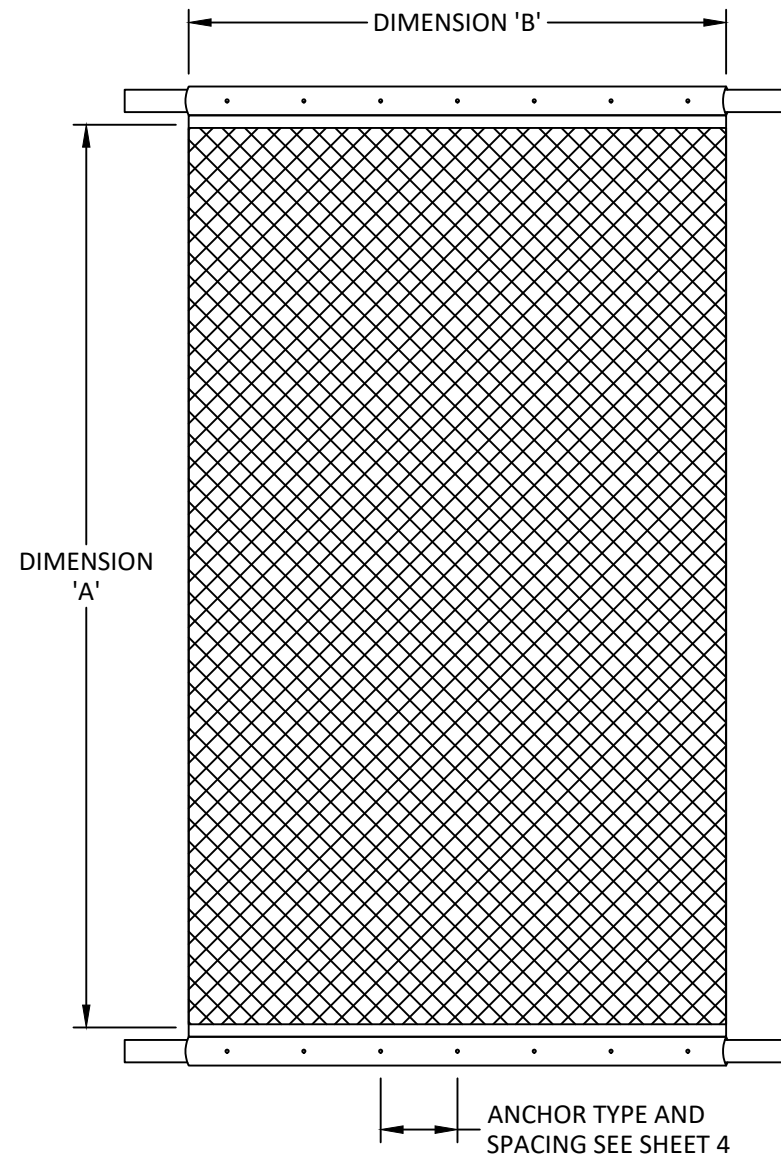
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TYPICAL ELEVATION
HORIZONTAL PLACEMENT



TYPICAL ELEVATION
OVERLAP PLACEMENT



TYPICAL ELEVATION
VERTICAL PLACEMENT

STANDARD OPTIONS*		
DIMENSION 'A'	DIMENSION 'B'	MAX. DESIGN PRESSURE
60"	48"	+/- 80 PSF
108"	48"	
120"	72"	
144"	84"	

* REFER TO THE MANUFACTURER'S INSTRUCTIONS FOR ALTERNATE SIZES.



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TYPICAL ELEVATION &
STANDARD OPTIONS

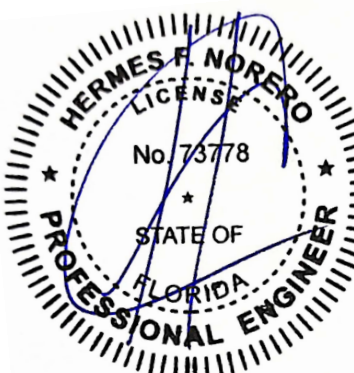
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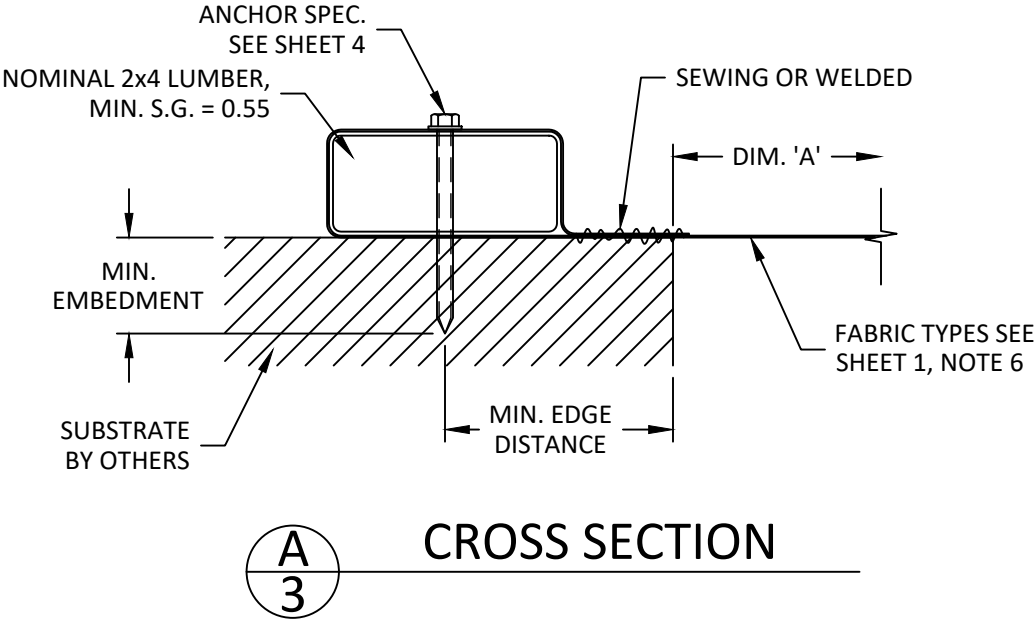
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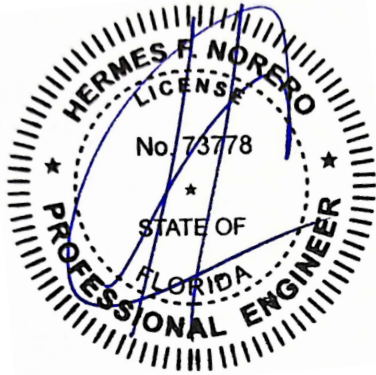
CROSS SECTION



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MAXIMUM ANCHOR SPACING (IN.)							
ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE	DESIGN PRESSURE (PSF)	SPAN (IN.)			
				60	108	120	144
CONCRETE, 3000 PSI							
1/4" ITW TAPCON	1 3/4"	2"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	9
			70	12	12	12	9
			80	12	12	9	6
1/4" DEWALT ULTRACON+	1 3/4"	2 1/2"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	12
			70	12	12	12	12
			80	12	12	12	9
HOLLOW CONCRETE-MASONRY							
1/4" ITW TAPCON	1 1/4"	2"	40	9	6	6	6
			50	9	6	-	-
			60	6	-	-	-
			70	6	-	-	-
			80	-	-	-	-
1/4" DEWALT ULTRACON+	1 1/4"	2 1/2"	40	12	12	12	12
			50	12	9	9	9
			60	12	9	9	6
			70	12	6	6	6
			80	9	6	6	6
GROUT-FILLED CONCRETE-MASONRY							
1/4" DEWALT ULTRACON+	2 1/4"	2 1/2"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	12
			70	12	12	12	9
			80	12	12	12	9
16 GAUGE STEEL STUDS							
1/4" GRADE 5 SELF-DRILLING/SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	12
			70	12	9	9	9
			80	12	9	9	9
5/16" GRADE 5 SELF-DRILLING/SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	3/4"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	12
			70	12	12	12	12
			80	12	12	9	9
1/8" ALUMINUM 6063-T5 STUDS							
1/4" GRADE 5 SELF-DRILLING/SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	1/2"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	9	9
			70	12	9	9	6
			80	12	9	6	6
5/16" GRADE 5 SELF-DRILLING/SELF-TAPPING SCREW	3 THREADS MIN PENETRATION BEYOND METAL	3/4"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	12
			70	12	12	12	9
			80	12	9	9	9
WOOD, MIN. S.G. = 0.55							
1/4" WOOD SCREW	1 1/2"	1"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	9
			70	12	12	9	9
			80	12	9	9	6

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/4 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
5. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.

5.1. FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).

5.2. *FASTENERS INSTALLED WITHIN 300 FEET OF A SALTWATER COASTLINE IN EXTERIOR-PARTIALLY SHELTERED OR EXTERIOR-OPEN EXPOSED SPACES SHALL BE STAINLESS STEEL PER SECTION 1711.1.1.1 (ASTM A240 TYPE 304, 305, 316, OR 410)

5.3. CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED UNVENTED SPACES SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

5.4. CONNECTORS AND METAL PLATES USED BETWEEN 300 AND 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED VENTED SPACES, EXTERIOR-PARTIALLY SHELTERED OR EXTERIOR-OPEN EXPOSED SPACES SHALL BE ENHANCED GALVANIZED PER SECTION 1711.1.2.2 (ASTM A653 G185, ASTM A123 AT 2.0 OZ/SF MIN, OR TPI 1 COATING).

5.5. *CONNECTORS AND METAL PLATES USED WITHIN 300 FEET OF A SALTWATER COASTLINE IN EXTERIOR-PARTIALLY SHELTERED OR EXTERIOR-OPEN EXPOSED SPACES SHALL BE STAINLESS STEEL PER SECTION 1711.1.2.1 (ASTM A240 TYPE 316).

5.6. FASTENERS USED WITH CONNECTORS OR METAL PLATES SHALL HAVE A CORROSION-RESISTANT COATING OR COMPOSITION COMPATIBLE WITH THAT OF THE CONNECTOR/PLATE TO PREVENT GALVANIC CORROSION BETWEEN DISSIMILAR MATERIALS (SECTION 1711.1.1.3). EXCEPTION: FASTENERS AND CONNECTORS FULLY EMBEDDED IN CONCRETE OR MORTAR ARE EXEMPT FROM NOTES 6 AND 7 (SECTION 1711.1).

5.7. SEE SHEET 5 FOR STAINLESS STEEL ANCHORS SPECIFICATIONS AND SPACING AT ALLOWABLE SPANS AND RESPECTIVE DESIGN PRESSURES.
6. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
7. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.



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ANCHOR SCHEDULE &
INSTALLATION NOTES

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SHEET:
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MAXIMUM ANCHOR SPACING (IN.)							
ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE	DESIGN PRESSURE (PSF)	SPAN (IN.)			
				60	108	120	144
CONCRETE, 3000 PSI							
1/4" DEWALT CRETE-FLEX - 410 SS*	2"	1 3/4"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	12
			70	12	12	12	12
			80	12	12	12	9
1/4" DEWALT ULTRACON® SS4 - 410 SS*	1 3/4"	2 1/2"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	12
			70	12	12	12	12
			80	12	12	12	12
HOLLOW CONCRETE-MASONRY							
1/4" DEWALT CRETE-FLEX - 410 SS*	1 1/4"	2 1/2"	40	12	12	12	12
			50	12	12	12	9
			60	12	9	9	6
			70	12	9	6	6
			80	12	6	6	6
1/4" DEWALT ULTRACON® SS4 - 410 SS*	1 1/4"	2 1/2"	40	12	6	6	6
			50	9	6	-	-
			60	9	-	-	-
			70	6	-	-	-
			80	6	-	-	-
GROUT-FILLED CONCRETE-MASONRY							
1/4" DEWALT ULTRACON® SS4 - 410 SS*	2"	2 1/2"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	9
			70	12	12	9	9
			80	12	9	9	6
16 GAUGE STEEL STUDS							
1/4" DEWALT BI-FLEX SELF-DRILLING SCREW - 300 SERIES SS*	3 THREADS MIN PENETRATION BEYOND METAL	1/2"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	12
			70	12	9	9	9
			80	12	9	9	9
1/8" ALUMINUM 6063-T5 STUDS							
1/4" DEWALT BI-FLEX SELF-DRILLING SCREW - 300 SERIES SS*	3 THREADS MIN PENETRATION BEYOND METAL	1/2"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	9	9
			70	12	9	9	6
			80	12	9	6	6
WOOD, MIN. S.G. = 0.55							
1/4" SS WOOD SCREW - 304, 305, 316, OR 410 SS*	1 1/2"	1"	40	12	12	12	12
			50	12	12	12	12
			60	12	12	12	9
			70	12	12	9	9
			80	12	9	9	6

* SEE SHEET 4 FOR STAINLESS STEEL ANCHOR NOTES.



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