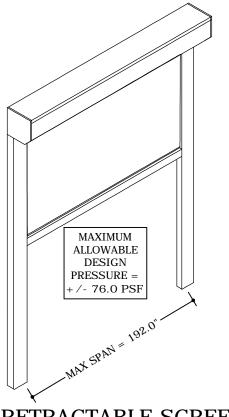
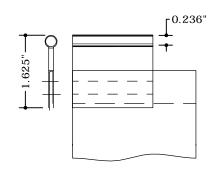
# FENETEX HURRICANE SCREENS

IMPACT RESISTANT ABATEMENT SYSTEM



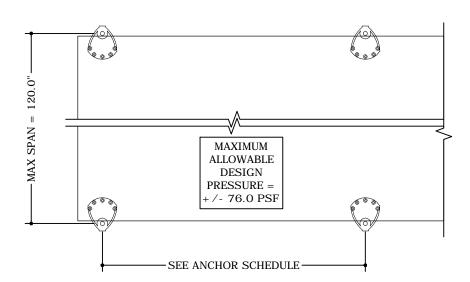
### RETRACTABLE SCREEN

AUTOMATICALLY DEPLOYED HURRICANE PROTECTIVE SCREENS



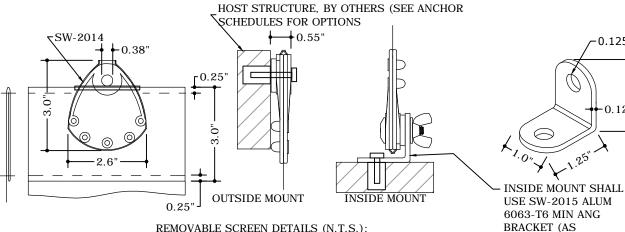
#### RETRACTABLE SCREEN DETAILS (N.T.S.):

SINGLE FOLD EDGE 3/4" HEM WITH FABRIC #3 WITH 1" DOUBLE FLAP KEDER WELDED TO TWO ROWS OF STITCHING AT 5 STITCHES PER INCH AS INDICATED. KEDER CORE IS PVC BEAD DIAMETER IS 6MM SHORE A 76-80 DURAMETER, KEDER FABRIC IS 1000D POLYESTER



#### REMOVABLE SCREEN

MANUALLY DEPLOYED HURRICANE PROTECTIVE SCREENS



#### REMOVABLE SCREEN DETAILS (N.T.S.):

DOUBLE FOLD EDGE 3" HEM WITH FABRIC #1 WITH STITCHING AT 5 STITCHES PER INCH AS INDICATED. NO REQUIRED HEM WITH FABRICS #2 OR #3. SCREW CLIP IS SECURED TO SCREEN WITH (5) #8X1/2" SCREWS. FIRST CLIP NOT MORE THAN 3" FROM PANEL EDGE.

#### FABRIC TYPES:

- 1. POLYMESH

#### 2. PVC LAMINATE 3. PVC MESH \*\* SEE EVALUATION REPORT FOR SCREEN SPECIFICATIONS

### **GENERAL NOTES**

- 1. THIS SYSTEM HAS BEEN TESTED AND EVALUATED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE FLORIDA BUILDING/RESIDENTIAL CODE SEVENTH EDITION (2020) FOR USE INSIDE AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PER ASTM STANDARDS E330, E1886, E1996 & PER TAS 201,
- 202 & 203.

  2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. 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 BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7.16 SHALL BE LESS THAN OR FOLIAL TO SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN
  ACCORDANCE WITH ASCE 7-16 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 TESTED
  DESIGN PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
  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
- DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS
- 6. ROLL-UP MECHANISM AND HOOD ASSEMBLY ARE NOT PART OF THIS APPROVAL.
- 7. THIS DOCUMENT CONTAINS INFORMATION RELEVANT TO THE NECESSARY STRUCTURAL REQUIREMENTS OF THE SYSTEM INSTALLATION. COMPONENTS AND FASTENERS NOT REFERENCED WHICH ARE PART OF THE INTERNAL FABRICATION OF THE SPECIFIED SYSTEMS OR ASSEMBLIES SHALL BE PER MANUFACTURER PUBLISHED
- SPECIFICATIONS.

  8. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
  WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- ALL EXTRUSIONS SHALL BE MINIMUM 6063-T5 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
- 10. SCREENS SHALL HAVE ONE PERMANENT LABEL PER SCREEN WITH THE FOLLOWING MINIMUM INFORMATION:

FENETEX JACKSONVILLE, FL MISSILE LEVEL D, WIND ZONE 4 TAS 201, 202 & 203; ASTM E1886, E1996 & E330 FLORIDA PRODUCT APPROVAL NUMBER

- 11. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSL
- 12. ALL DISSIMILAR MATERIALS SHALL BE INSULATED FROM ELECTROLYSIS AS PRESCRIBED IN THE ABOVE-NOTED BUILDING
- 13. NON-SPAN EDGES DO NOT REQUIRE SEWN HEMS OR ADDITIONAL REINFORCEMENT.
- 14. WITHIN THE HVHZ, PERMANENT SCREENS SHALL BE INSIDE THE OPENING AND REMOVABLE SCREENS SHALL BE DEPLOYED ONLY DURING HIGH WIND EVENTS. REMOVABLE SCREENS SHALL BE STORED AWAY WHEN NOT IN USE. 15. SCREENS SHALL COVER ENTIRE OPENING ON ALL SIDES. THE
- MAXIMUM GAP BETWEEN HOST STRUCTURE AND FABRIC SHALL NOT EXCEED 1/4" OR ADDITIONAL CLOSURE ANGLES SHALL BE INSTALLED.

SHOWN) OR

CONTINUOUS ANGLE

-0.125" Ø

-0.125"

GLASS SEPARATION NOT REQUIRED OUTSIDE OF WIND ZONE 4 AND THE HVHZ UNLESS REQUIRED BY LOCAL JURISDICTION. 32" MINIMUM GLASS SEPARATION SHALL BE USED WITHIN THE HVHZ AND WIND ZONE 4. GLASS SEPARATION IS DEFINED AS THE DISTANCE FROM THE INSIDE FACE OF THE FABRIC TO THE OUTSIDE SURFACE OF EXISTING GLAZING WHILE SCREEN IS DEPLOYED.

#### VISIT ECALC.IO/36692

FOR SITE SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS OR CODE

VISIT ENGINEERINGEXPRESS.COM/STORE FOR ADDITIONAL PLANS, REPORTS & RESOURCES





RICHARD NEET, P.E.

FENETEX HURRICANE SCREENS CT RESISTANT ABATEMENT SYS FL8637.1

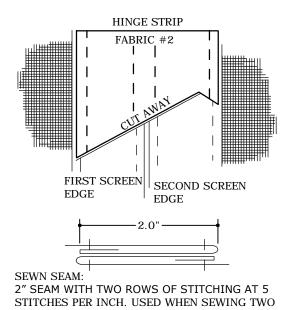
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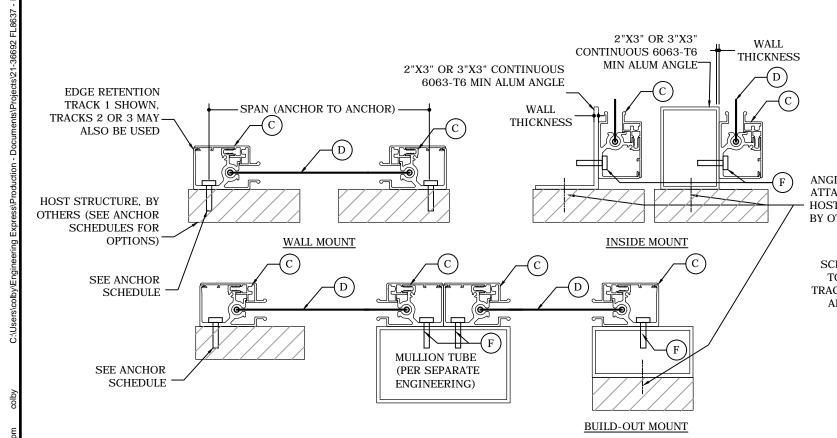


HINGE CONNECTION: PANELS ATTACHED TO FIRST AND SECOND SCREEN EDGES WITH 4" INTERMEDIARY FABRIC STRIP WITH TWO ROWS

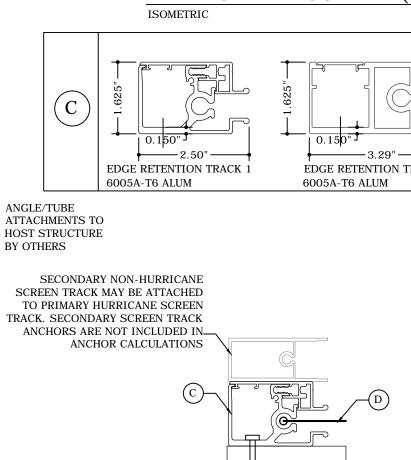


PANEL SECTIONS TOGETHER, ANY FABRIC.

## SCREEN-TO-SCREEN CONNECTIONS (N.T.S.)

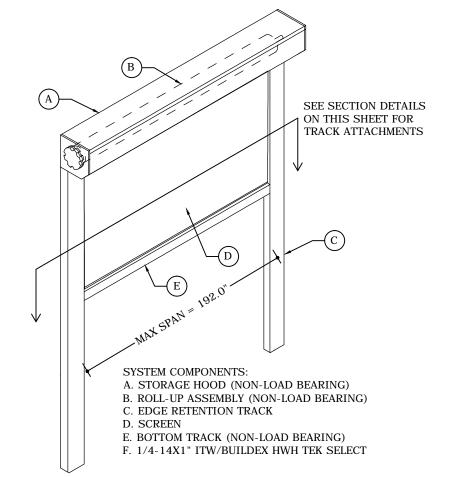


TRACK-TO-HOST CONNECTIONS (N.T.S.)

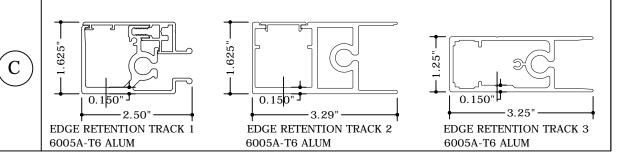


FASTENER SPACING FOR TRACK TO ANGLE AN

ANGLE AND TODE CONNECTIONS									
SPAN	1/8" WALL	1/4" WALL							
60"	6" O.C.	6" O.C.							
72"	6" O.C.	6" O.C.							
84"	5" O.C.	6" O.C.							
96"	4" O.C.	6" O.C.							
108"	3" O.C.	6" O.C.							
120"	NA	6" O.C.							
132"	NA	6" O.C.							
144"	NA	6" O.C.							
156"	NA	6" O.C.							
168"	NA	5" O.C.							
180"	NA	5" O.C.							
192"	NA	5" O.C.							



### RETRACTABLE SCREEN (N.T.S.)



SI ACING FOR TRACK TO										
D TUBE CONNECTIONS										
	1/8" WALL	1/4" WALL								
	6" O.C.	6" O.C.								
	6" O.C.	6" O.C.								
	5" O.C.	6" O.C.								
	4" O.C.	6" O.C.								
	3" O.C.	6" O.C.								
	NA	6" O.C.								
	NA	6" O.C.								
	NA	6" O.C.								
	NA	6" O.C.								
	NA	5" O.C.								
	NA	5" O.C.								

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SCALE: NTS UNLESS NOTE

N.T.S. = NOT TO SCALE

## RETRACTABLE SCREEN ANCHOR SCHEDULE

							MA	XIMUM SPACING	(O.C.)				
			CONC	CRETE	GROUT-FILLED BLOCK	HOLLOW BLOCK	WOOD	STEEL	ALUMINUM	STEEL OR ALUMINUM		CONCRETE	
				5/	16" ITW TAPCON	XL				5/16" 410 SS		3/8" ELCO/DEV	WALT CONFLEX
	<u>Rx</u>	Ry	5/16" DEWALT ULTRACON TO 3500 PSI MIN. CONCRETE; 2" MIN. EMBEDMENT; 3.125" MIN. EDGE DISTANCE	TO 3000 PSI MIN. CONCRETE; 2.25" MIN. EMBEDMENT; 3.125" MIN. EDGE DISTANCE	TO GROUT- FILLED CONCRETE BLOCK; 2.25" MIN. EMBEDMENT; 4" MIN. EDGE DISTANCE	TO HOLLOW CONCRETE BLOCK; 1.75" MIN. EMBEDMENT; 4" MIN. EDGE DISTANCE	5/16" LAG SCREW TO G=0.55 MIN WOOD; 2" MIN. EMBEDMENT; 0.75" MIN. EDGE DISTANCE	#14 410 SS SMS W/ FULL THREAD PENETRATION OR 1/4-20 410 SS THRU-BOLT TO 0.125" MIN. A36 STEEL; 0.5" MIN. EDGE DISTANCE	#14 410 SS SMS W/ FULL THREAD PENETRATION OR 1/4-20 410 SS THRU-BOLT TO 0.125" MIN. 6063- T6 ALUM; 0.5" MIN. EDGE DISTANCE	SMS W/ FULL THREAD PENETRATION OR 5/16-18 410 SS THRU-BOLT TO 0.25" MIN. A36 STEEL OR 6063-T6 ALUM; 0.625" MIN. EDGE DISTANCE	3/8" DEWALT SCREW BOLT+ TO 3000 PSI MIN. CONCRETE; 3.50" MIN. EMBEDMENT; 5" MIN. EDGE DISTANCE	TO 1819 PSI MIN. CONCRETE; 3.5" MIN. EMBEDMENT; 3.75" MIN. EDGE DISTANCE	TO 4510 PSI MIN. CONCRETE; 3.5" MIN. EMBEDMENT; 3.75" MIN. EDGE DISTANCE
-	461 LB/FT	280 LB/FT	6.0"	6.0"	6.0"	6.0"	5.3"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	593 LB/FT	360 LB/FT	6.0"	6.0"	6.0"	5.0"	4.1"	6.0"	5.5"	6.0"	6.0"	6.0"	6.0"
	725 LB/FT	440 LB/FT	6.0"	6.0"	6.0"	4.1"	3.4"	5.6"	4.5"	6.0"	6.0"	6.0"	6.0"
	857 LB/FT	520 LB/FT	5.1"	6.0"	6.0"		2.8"	4.8"	3.8"	6.0"	6.0"	6.0"	6.0"
	1002 LB/FT	608   B/FT	4 4"	6.0"	6.0"		2 4"	4 1"	3 2"	6.0"	6 0"	6.0"	6.0"

## REMOVABLE SCREEN ANCHOR SCHEDULE (INSIDE & OUTSIDE MOUNT) UP TO +/- 76 PSF

				MAXIMUM SPACING (O.C.)												
					wo	OD			CONCRETE				HOLLOW BLOCK			
				1/4"				1/4"	5/16" RED		1/4" ALL-POIN	TS SOLID-SET				
SPAN	DESIGN PRESSURE	<u>Rx</u>	<u>R</u> y	ELCO/DEWALT PANELMATE (FEMALE, MALE, or PLUS) W/ 1-	1/4" ITW TAPCON STORM GUARD W/ 1-3/4" EMBED AND 1-1/4" MIN EDGE DISTANCE (G=0.42 MIN)	1/4-20 PA NELMA TE INSERT WITH 1-5/8" EMBED AND 3/4" MIN EDGE DISTANCE (G=0.42 MIN)	1/4" WOOD OR LAG SCREW WITH 1-3/8" MIN THREAD PEN. AND 3/4" MIN EDGE DISTANCE (G=0.42 MIN)	ELCO/DEWALT PANELMATE (FEMALE, MALE, or PLUS) W/ 2" EMBED AND 2-1/2" MIN EDGE DISTANCE (3350 psi MIN CONC)	1/4" FMRFD	1/4-20 DEWALT CALK-IN ANCHOR W/ 7/8" EMBED AND 3-1/2" MIN EDGE DISTANCE (3000 psi MIN CONCRETE)	TO 3000 PSI MIN. CONCRETE; 0.875" MIN. EMBEDMENT; 3" MIN. EDGE DISTANCE	TO HOLLOW BLOCK; 0.875" MIN. EMBEDMENT; 3" MIN. EDGE DISTANCE	The second second	1/4-20 DEWALT CALK-IN W/ 7/8" EMBED AND 2- EMBED AND 2- I/2" MIN EDGE DISTANCE (1500 psi MIN CMU w/GROUT FILL)		
60"	+/- 76 PSF	192 LB/FT	190 LB/FT	12.0"	6.3"	7.8"	6.4"	12.0"	12.0"	10.7"	12.0"	9.9"	6.7"	6.5"	6.2"	
72"	+/- 76 PSF	231 LB/FT	228 LB/FT	10.5"	5.2"	6.5"	5.3"	12.0"	12.0"	9.0"	12.0"	8.3"	5.6"	5.4"	5.2"	
84"	+/- 76 PSF	269 LB/FT	266 LB/FT	9.0"	4.5"	5.5"	4.6"	10.7"	11.5"	7.7"	12.0"	7.1"	4.8"	4.6"	4.4"	
96"	+/- 76 PSF	308 LB/FT	304 LB/FT	7.8"	3.9"	4.9"	4.0"	9.4"	10.1"	6.7"	10.9"	6.2"	4.2"	4.0"	3.9"	
108"	+/- 76 PSF	346 LB/FT	342 LB/FT	7.0"	3.5"	4.3"		8.3"	9.0"	6.0"	9.7"	5.5"			3.4"	
120"	+/- 76 PSF	385 LB/FT	380 LB/FT	6.3"	3.1"	3.9"		7.5"	8.1"	5.4"	8.7"	5.0"			3.1"	

## REMOVABLE SCREEN ANCHOR SCHEDULE (INSIDE & OUTSIDE MOUNT) UP TO +/- 45 PSF

									MAXIMUM S	PACING (O.C.)							
					wo	OD			CONCRETE				HOLLOW BLOCK				
				1/4"				1/4"	5/16" RED		1/4" ALL-POIN	TS SOLID-SET					
			ELCO/DEWALT PANELMA TE (FEMALE, MALE, or PLUS) W/ 1- 7/8" EMBED AND 3/4" MIN EDGE	1/4" ITW TAPCON STORM GUARD W/ 1-3/4" EMBED AND 1-1/4" MIN EDGE DISTANCE (G=0.42 MIN)	PANELMATE	THREAD PEN.	PANELMATE (FEMALE, MALE, or PLUS) W/ 2" EMBED	HEAD DYNABOLT SLEEVE ANCHOR & 1/4- 20 BOLT W/ 1- 1/4" EMBED AND 1-7/8" MIN EDGE DISTANCE	DISTANCE	TO 3000 PSI MIN. CONCRETE; 0.875" MIN. EMBEDMENT; 3" MIN. EDGE DISTANCE	BLOCK;	(FEMALE, MALE, or PLUS) W/ 1-1/4" EMBED AND 2" MIN EDGE DISTANCE (2000 psi MIN	1/2" MIN EDGE	1/4 DEWALT ZAMAC NAILIN WA 1-1/4" EMBED AND 3" MIN EDGE DISTANCE (1500			
PAN	DESIGN PRESSURE	<u>Rx</u>	Ry	(G=0.54 MIN)	A COLUMN TO THE PARTY OF THE PA			CONC)	(3000 psi MIN CONC)				CMU)				
60"	+/- 45 PSF	100 LB/FT	113 LB/FT	12.0"	11.5"	12.0"	11.7"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.5"	11.2"		
72"	+/- 45 PSF	137 LB/FT	135 LB/FT	12.0"	8.8"	10.9"	9.0"	12.0"	12.0"	12.0"	12.0"	12.0"	9.5"	9.1"	8.7"		
34"	+/- 45 PSF	159 LB/FT	158 LB/FT	12.0"	7.5"	9.4"	7.7"	12.0"	12.0"	12.0"	12.0"	12.0"	8.1"	7.8"	7.5"		
96"	+/- 45 PSF	182 LB/FT	180 LB/FT	12.0"	6.6"	8.2"	6.7"	12.0"	12.0"	11.3"	12.0"	10.5"	7.1"	6.8"	6.5"		
08"	+/- 45 PSF	205 LB/FT	203 LB/FT	11.8"	5.9"	7.3"	6.0"	12.0"	12.0"	10.1"	12.0"	9.3"	6.3"	6.1"	5.8"		
20"	+/- 45 PSF	228 LB/FT	225 LB/FT	10.6"	5.3"	6.6"	5.4"	12.0"	12.0"	9.1"	12.0"	8.4"	5.7"	5.5"	5.2"		

DESIGN

+/- 35 PSF

+/- 45 PSF

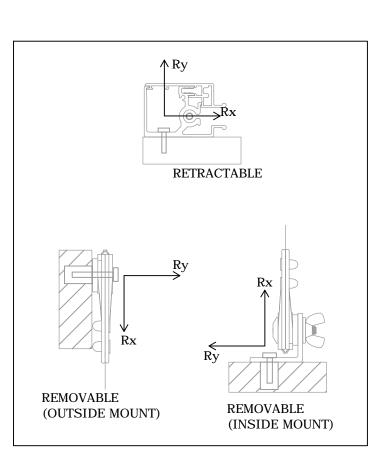
+/- 55 PSF 725 LB/F +/- 65 PSF

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
3. ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE

WIERE EALSTING STRUCTURE IS WOOD FRAMING, EAISTING CONDITIONS MAY VARY, FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
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. SHEET METAL SCREWS SHALL BE INSTALLED WITH FULL ENGAGEMENT OF THREADS INTO METAL HOST STRUCTURE.

ZZZ DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.

N/A DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ALLOWED.
ANCHORS TO CROUTE BUT DED LOCK SHALL DESIGNATE THROUGH EACE SHELL INTO CROUTED CELL.



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SCALE: NTS UNLESS NOTE

