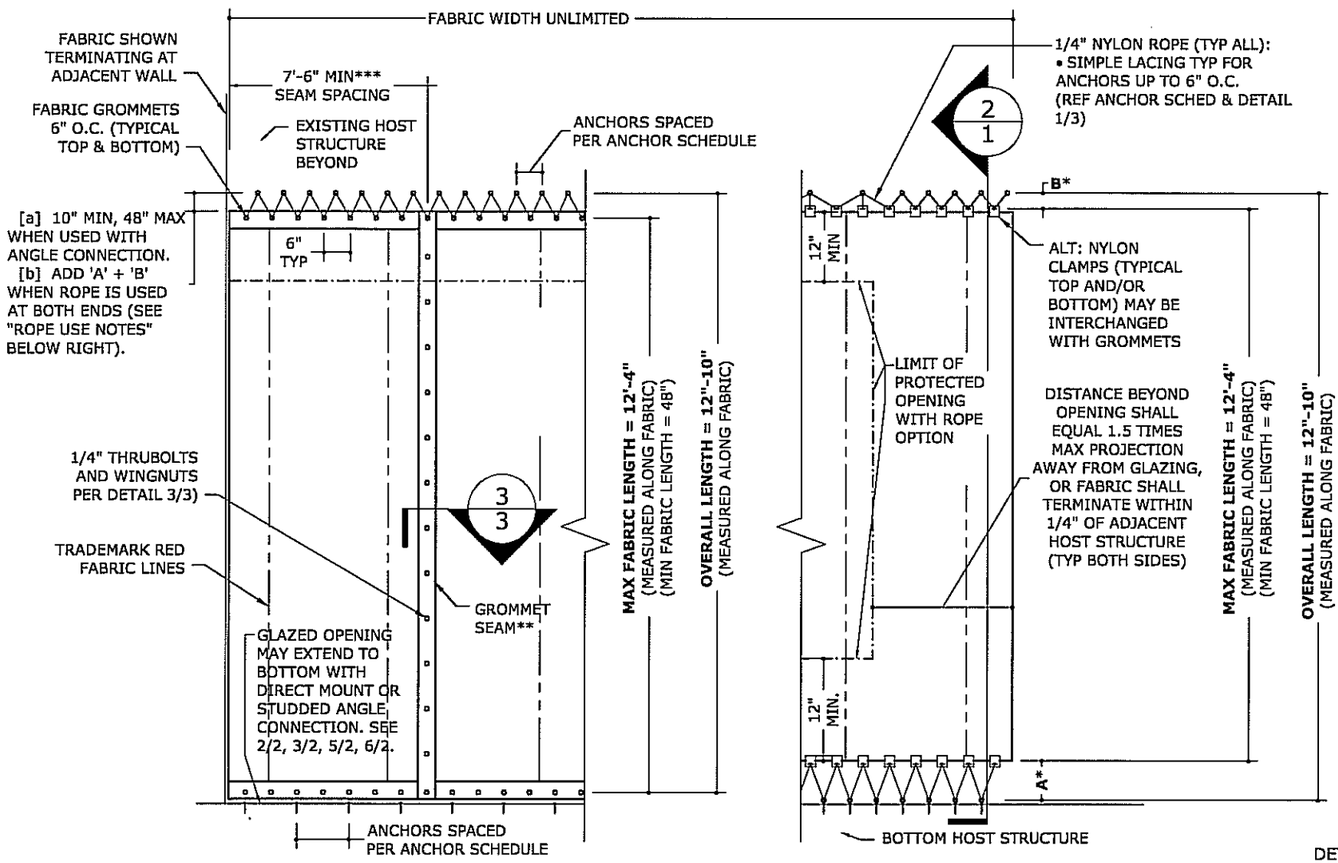
CAT-5 HURRICANE NET

IMPACT RESISTANT AND/OR WIND ABATEMENT SYSTEM



1/1 EXTERIOR ELEVATION

N.T.S.

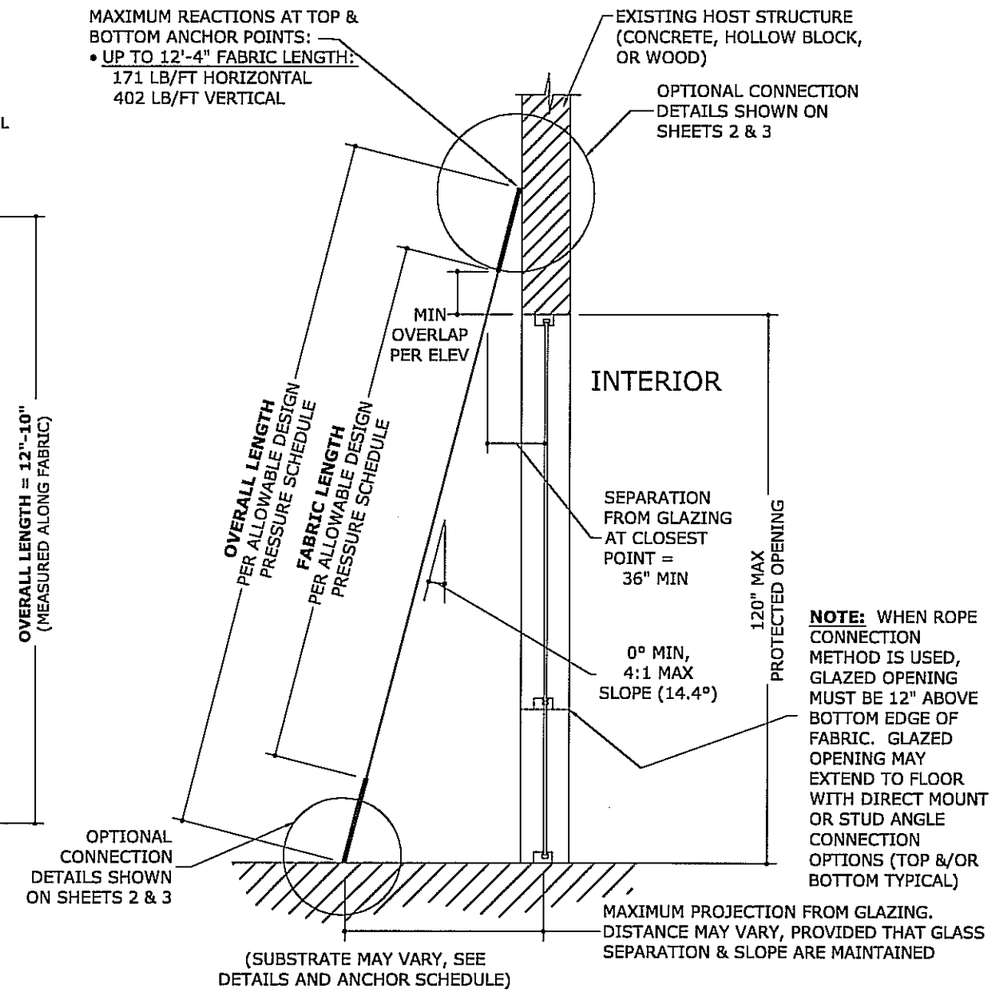
NOTE: FABRIC SHALL BE INSTALLED WITH EVEN TENSION ALONG ROPE LACING & WITHOUT EXCESSIVE SLACK

ROPE USE NOTES:

* SUM OF DIMENSIONS "A" AND "B" SHALL BE 48" OR LESS

** GROMMET SEAM AND ALTERNATE OVERLAP SEAM MAY BE USED W/ GROMMET- OR CLAMP-ATTACHMENT AT TOP AND BOTTOM.

*** THESE DIMENSIONS MAY BE LESS THAN THOSE SHOWN, PROVIDED ALLOWABLE PRESSURES ARE ADJUSTED TO ACCOUNT FOR REDUCED POROSITY.



2/1 VERTICAL SECTION

N.T.S.

ALLOWABLE DESIGN PRESSURE SCHEDULE

SEE ANCHOR SCHEDULE ON SHEET 4 FOR MAXIMUM REQUIRED ANCHOR SPACING

MOUNTING CONDITION	FABRIC CONNECTOR	MAX FABRIC LENGTH	OVERALL LENGTH	MAX ALLOWABLE PRESSURE
ROPE (REF DETAILS 1/2, 4/2, & 7/2)	CLAMPS OR CLAMP/ GROMMET COMBINATION	12' - 4"	12' - 10"	27.7 PSF
	GROMMETS ONLY	12' - 4"	12' - 10"	27.7 PSF
DIRECT MOUNT OR STUD ANGLE (REF DETAILS 2/2, 3/2, & 5/2)	GROMMETS ONLY	12' - 4"	12' - 10"	27.7 PSF

NOTE: USE MINIMUM ALLOWABLE PRESSURES FROM TOP AND BOTTOM CONDITIONS FOR ENTIRE ASSEMBLY

DESIGN PRESSURES FROM FIELD CONDITIONS (AS DETERMINED BY OTHERS FOR SITE SPECIFIC CONDITIONS) SHALL BE LESS THAN OR EQUAL TO THOSE GIVEN ABOVE.

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE. TEST STANDARDS USED = ASTM E330, E1886, & E1996.
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.
4. MULTIPLE UNITS MAY BE INSTALLED TO UNLIMITED WIDTH AS SHOWN.
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. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS AND CALCULATED REACTIONS.
7. TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PRODUCT MAY BE INSTALLED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
8. FABRIC IS COMPOSED OF PLAIN WEAVE FABRIC CONSISTING OF 0.30" DIAMETER VINYL COATED DOUBLE DENIER STRAND POLYESTER CORE YARNS IN WARP AND FILL WITH PROPERTIES PER THE MATERIAL SPECIFICATIONS LISTED IN THE PRODUCT EVALUATION REPORT.
9. ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.

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CAT-5 HURRICANE NET
IMPACT RESISTANT WIND ABATEMENT SYSTEM
PRODUCT APPROVAL

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	JP	11/07/06
12 FT. TESTING	MEH	CL	09/24/07
REMOVE GROUND ANCHOR	RKB	CL	04/18/08
REV. FOR NO POROSITY	KL	CL	05/07/08
REMOVE LOADS BELOW 25 PSF	KL	CL	06/06/08

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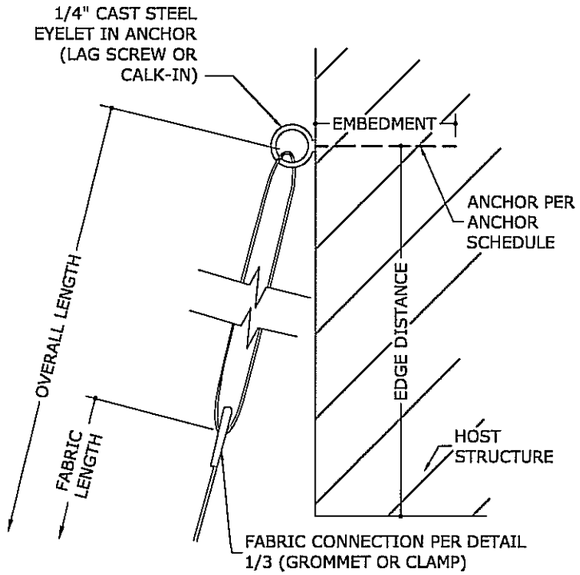
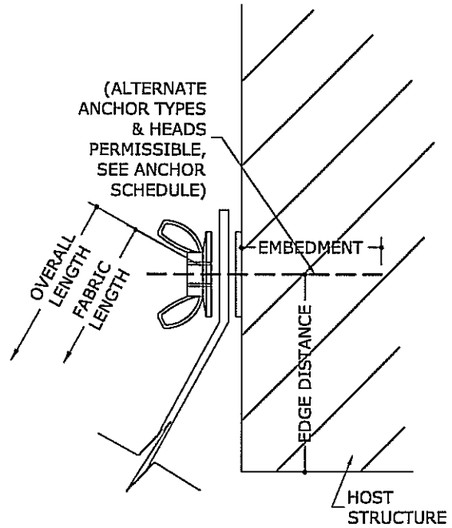
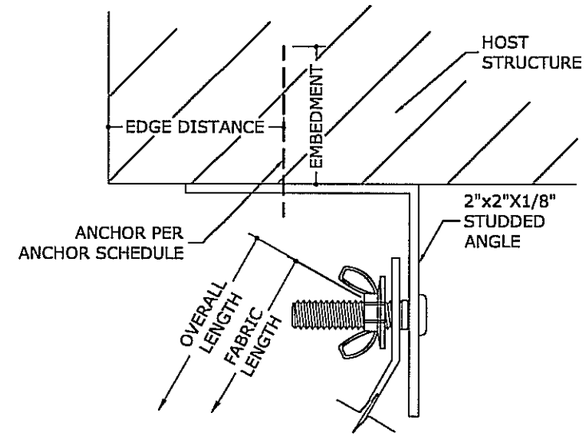


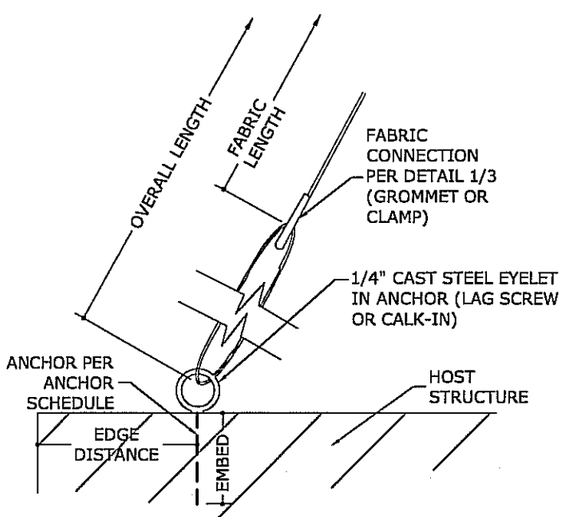
1/2 ROPE ATTACHMENT
N.T.S. (HEAD OR SILL SIMILAR)



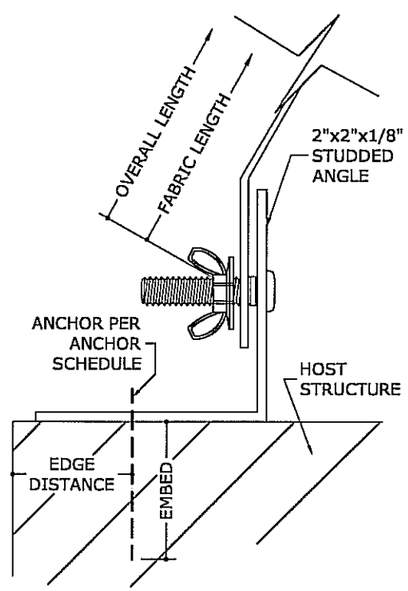
2/2 DIRECT MOUNT
N.T.S. (HEAD OR SILL SIMILAR)



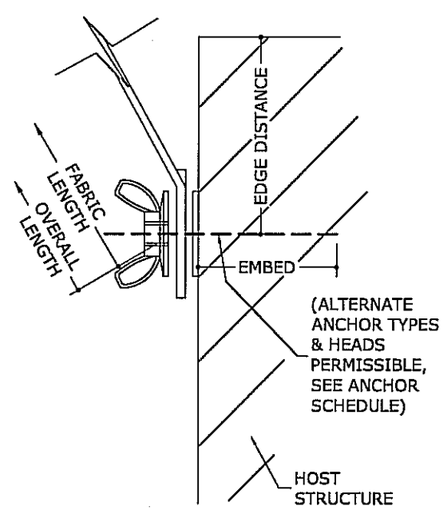
3/2 STUDDED ANGLE MOUNT
N.T.S. (HEAD OR SILL SIMILAR)



4/2 ROPE ATTACHMENT
N.T.S. (HEAD OR SILL SIMILAR)



5/2 STUDDED ANGLE ATTACHMENT
N.T.S. (HEAD OR SILL SIMILAR)



6/2 DIRECT MOUNT
N.T.S. (HEAD OR SILL SIMILAR)

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CAT-5 HURRICANE NET
IMPACT RESISTANT WIND ABATEMENT SYSTEM
PRODUCT APPROVAL

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	JP	11/07/06
12 FT. TESTING	MEH	CL	09/24/07
REMOVE GROUND ANCHOR	RKB	CL	04/18/08
REV. FOR NO POROSITY	KL	CL	05/07/08
REMOVE LOADS BELOW 25 PSF.	CL	CL	06/06/08

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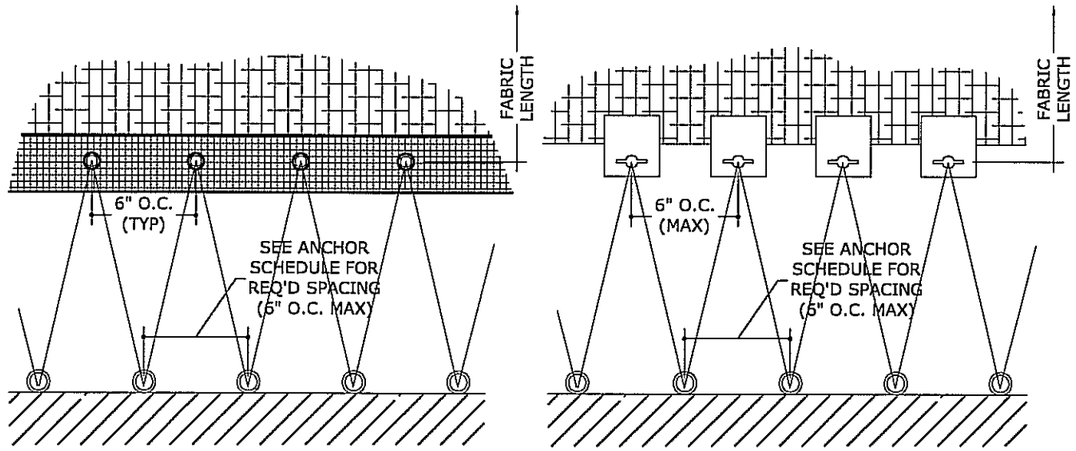


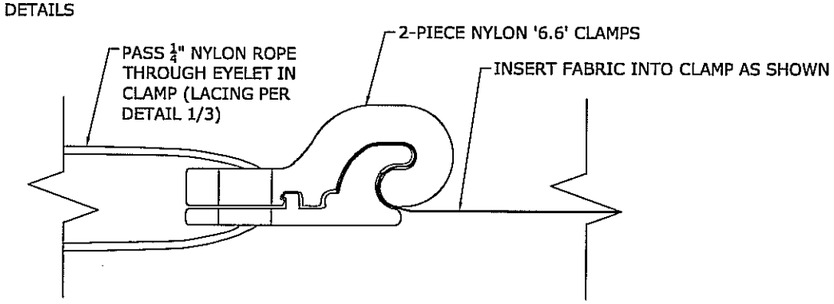
SIMPLE LACING SHOWN FOR 6" ANCHOR SPACING
GROMMET OPTION SHOWN

SIMPLE LACING SHOWN FOR 6" ANCHOR SPACING
CLAMP OPTION SHOWN

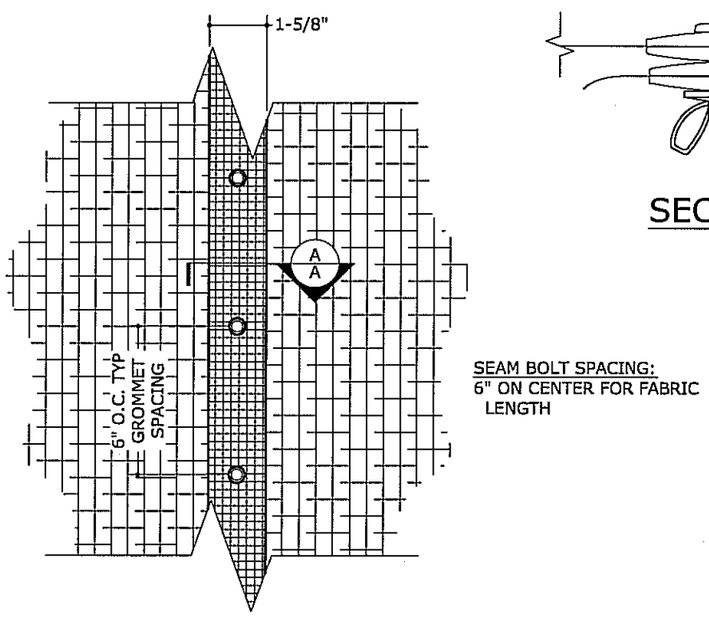
FABRIC LENGTH UP TO 12'-4"

NOTE: FABRIC SHALL BE INSTALLED WITH EVEN TENSION ALONG ROPE LACING & WITHOUT EXCESSIVE SLACK FOR ALL CONDITIONS

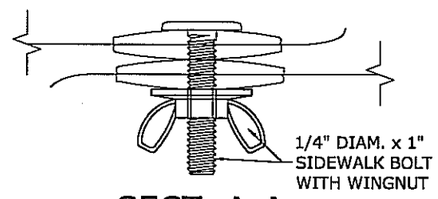
1/3 ROPE LACING PATTERNS HEAD AND SILL TYP.
N.T.S.
CONNECTION TYPES MAY VARY, SEE SHEET 2 FOR DETAILS



4/3 TYP. CLAMP INSTALLATION
N.T.S.



SEAM BOLT SPACING:
6" ON CENTER FOR FABRIC LENGTH



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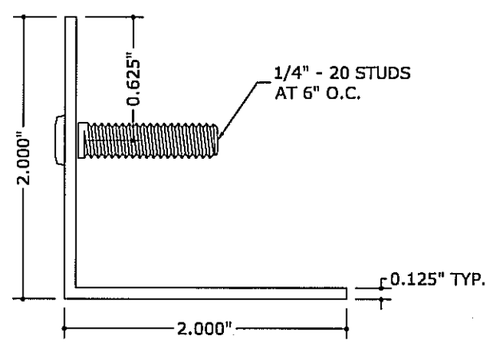

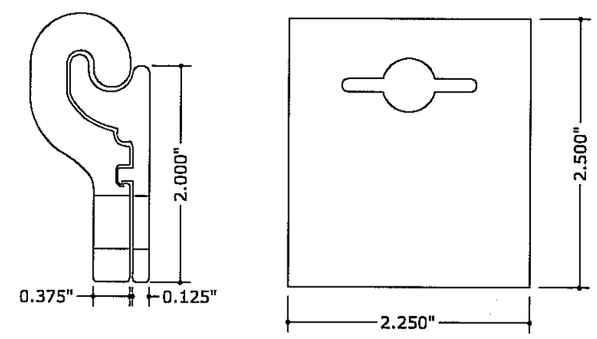

3/3 SEAM GROMMETS
N.T.S.

5/3 STUDDED ANGLE
N.T.S.

6/3 2-PIECE CLAMP
N.T.S. NYLON 6.6

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ANCHOR SCHEDULE

NOTE: SPACINGS SHOWN BELOW ARE FOR ANCHORS TO HOST STRUCTURE ONLY (i.e. EYELET ANCHORS, DIRECT MOUNT ANCHORS, & STUDDED ANGLE ANCHORS). SEE DETAIL 1/3 FOR GROMMET OR CLAMP SPACING.

HOST STRUCT	ANCHOR	DESIGN PRESSURE	FOR USE WITH ROPES MINIMUM SPACING	FOR USE WITH STUDDED ANGLE OR DIRECT MOUNT MAXIMUM SPACING
CONCRETE	1/4" TAPCON (ELCO OR ITW) WITH 1-3/4" EMBED (3320psi MIN CONC) & 2-1/2" MIN EDGE DIST	27.7 PSF	6.0"	8.5"
CONCRETE	1/4" ELCO PANELMATE (MALE, FEMALE) W/ 1-3/4" MIN EMBED (3350psi MIN CONC) & 2-1/2" MIN EDGE DIST *	27.7 PSF	6.0"	9.1"
CONCRETE	1/4-20 POWERS CALK-IN WITH 7/8" MIN EMBED (3000psi MIN CONC) & 2-1/2" MIN EDGE DIST W/ 1/4-20 S.S SIDEWALK BOLT OR 1/4-20 EYE BOLT *	27.7 PSF	6.0"	8.0"
CONCRETE	1/2-13 POWERS CALK-IN WITH 1-1/2" MIN EMBED (3000psi MIN CONC) & 6" MIN EDGE DIST W/ 1/2-13 S.S SIDEWALK BOLT OR 1/2-13 EYE BOLT *	27.7 PSF	6.0"	12.0"
HOLLOW BLOCK	1/4" TAPCON (ELCO OR ITW) WITH 1-1/4" EMBEDMENT & 2-1/2" MIN EDGE DISTANCE	27.7 PSF	4.8"	4.8"
HOLLOW BLOCK	1/4" ELCO PANELMATE (MALE or FEMALE) W/ 1-1/4" MIN EMBED & 2-1/2" MIN EDGE DIST *	27.7 PSF	5.3"	5.3"
HOLLOW BLOCK	1/4-20 POWERS CALK-IN WITH 7/8" MINIMUM EMBEDMENT & 2-1/2" MIN EDGE DISTANCE W/ 1/4-20 S.S SIDEWALK BOLT OR 1/4-20 EYE BOLT *	27.7 PSF	4.6"	4.6"
WOOD (G = 0.55 MIN)	3/8" LAG SCREW WITH 2-1/2" MIN THREAD PENETRATION & 1" MIN EDGE DIST	27.7 PSF	4.8"	4.8"
WOOD (G = 0.55 MIN)	1/2" LAG SCREW WITH 2-1/2" MIN THREAD PENETRATION & 1" MIN EDGE DIST (EYELET OPT'L)	27.7 PSF	5.7"	5.7"
WOOD (G = 0.55 MIN)	1/4" ELCO PANELMATE (FEMALE, MALE) W/ 1-7/8" MIN EMBED & 1" MIN EDGE DIST *	27.7 PSF	6.0"	7.2"

ANCHOR NOTES:

1. SEE ALLOWABLE DESIGN PRESSURE SCHEDULE (SHEET 1) FOR ALLOWABLE SPANS, MOUNTING CONDITIONS, FABRIC CONNECTORS, AND PRESSURES.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
3. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
4. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
6. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
7. ANCHOR SCHEDULE APPLIES FOR ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
8. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, WAFER HEAD ("SIDEWALK BOLT"), OR EYE-BOLT U.N.O.
9. ▨ DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.
10. * DESIGNATES REMOVABLE ANCHORS WHICH ARE APPLICABLE TO DIRECT MOUNT INSTALLATIONS.

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