

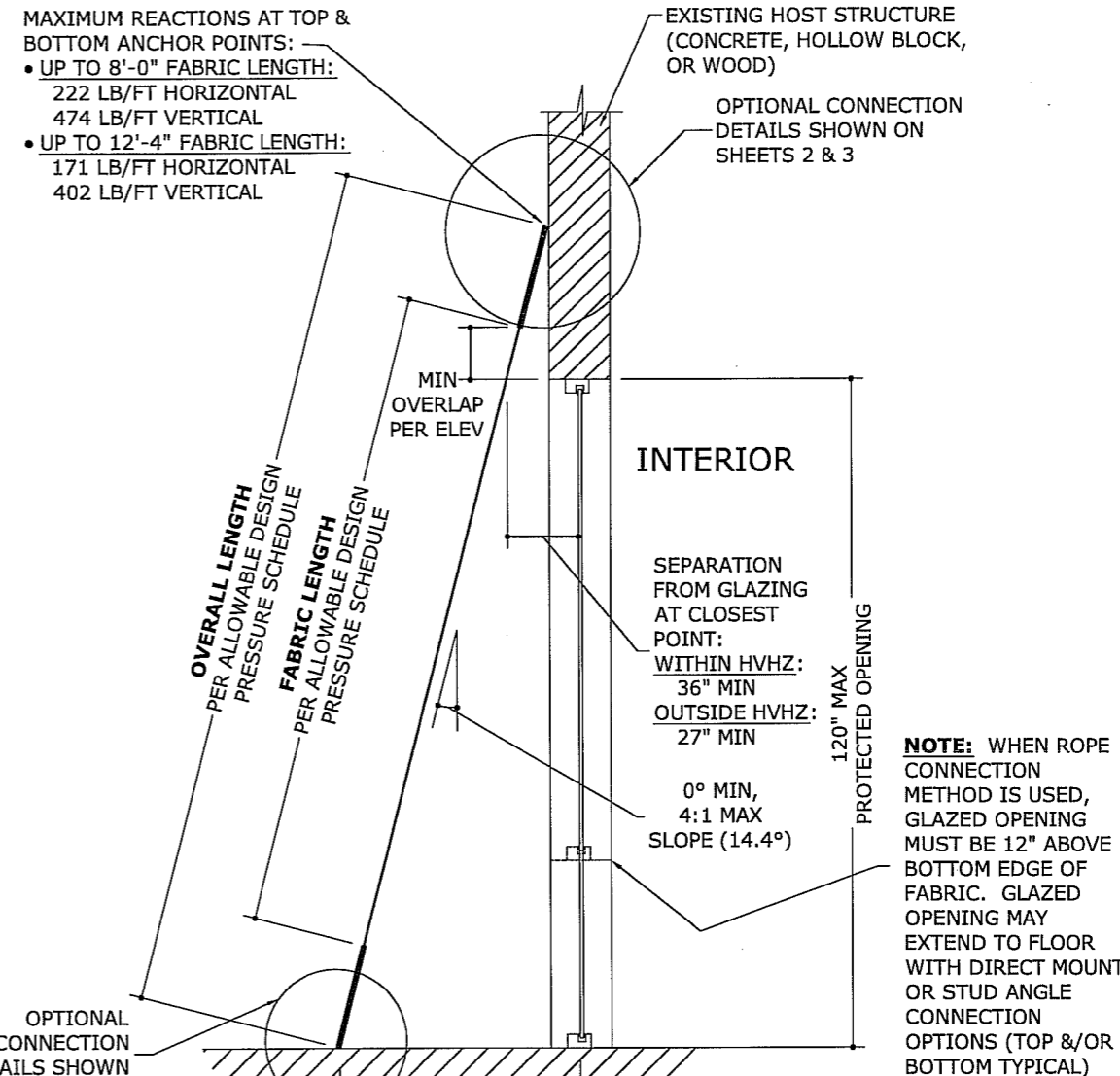
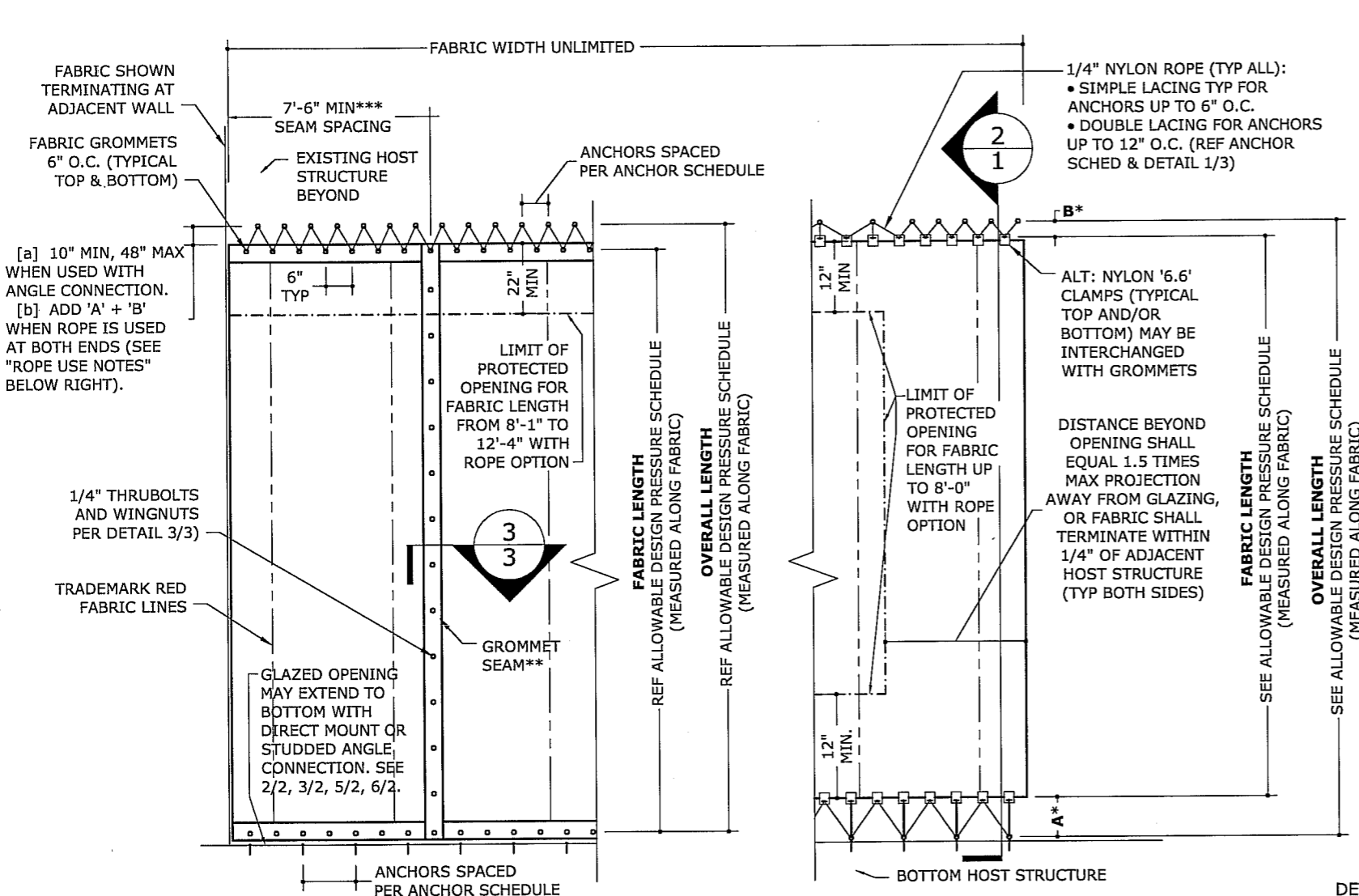
CAT-5 HURRICANE NET

IMPACT RESISTANT WIND ABATEMENT SYSTEM



inc Consultants, Inc.
 428 NW 70TH AVE., #135
 PLANTATION, FL 33317
 (954) 394-8521
 CERT OF AUTHORIZATION #27242

CAT-5 PROTECTION. INC.
 160 S.W. 12th AVENUE, #106
 DEERFIELD BEACH, FL 33442
 www.hurricane-net.com
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 IMPACT RESISTANT WIND ABATEMENT SYSTEM
 FLORIDA STATE PRODUCT APPROVAL



ALLOWABLE DESIGN PRESSURE SCHEDULE

SEE ANCHOR SCHEDULE ON SHEET 4 FOR MAXIMUM REQUIRED ANCHOR SPACING

MOUNTING CONDITION	FABRIC CONNECTOR	FABRIC LENGTH	OVERALL LENGTH	ALLOWABLE PRESSURE
ROPE (REF DETAILS 1/2, 4/2, & 7/2)	CLAMPS OR CLAMP/ GROMMET COMBINATION	8' - 0"	12' - 0"	72.5 PSF
		12' - 4"	12' - 10"	49.7 PSF
	GROMMETS ONLY	8' - 0"	12' - 0"	96.7 PSF
		12' - 4"	12' - 10"	49.7 PSF
DIRECT MOUNT OR STUD ANGLE (REF DETAILS 2/2, 3/2, & 5/2)	GROMMETS ONLY	8' - 0"	12' - 0"	96.7 PSF
		12' - 4"	12' - 10"	49.7 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

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE INCLUDING 2006 SUPPLEMENTS FOR USE WITHIN & OUTSIDE THE HIGH VELOCITY HURRICANE ZONE PER TAS 201, 202, & 203 TEST STANDARDS, AS WELL AS ASTM E330, E1886, & E1996 TEST STANDARDS
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN. #2 DOUGLAS FIR OR SYP MINIMUM REQUIRED.
- 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.
- MULTIPLE UNITS MAY BE INSTALLED TO UNLIMITED WIDTH AS SHOWN.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED

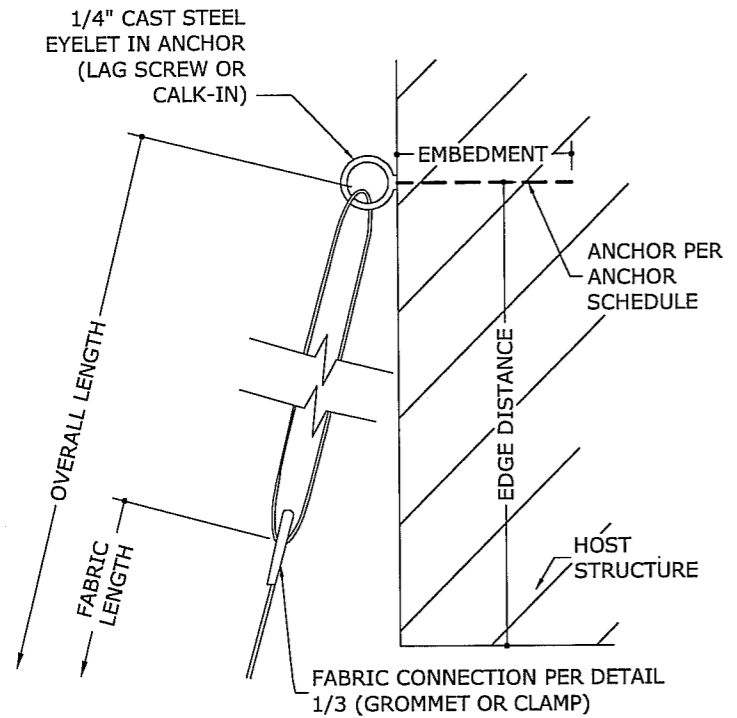
- HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS AND CALCULATED REACTIONS.
 - TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PRODUCT MAY BE INSTALLED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
 - 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.
 - ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CTS	JF	08-01-07
REVISED SIDE OVERLAP	CL	JF	09-04-07

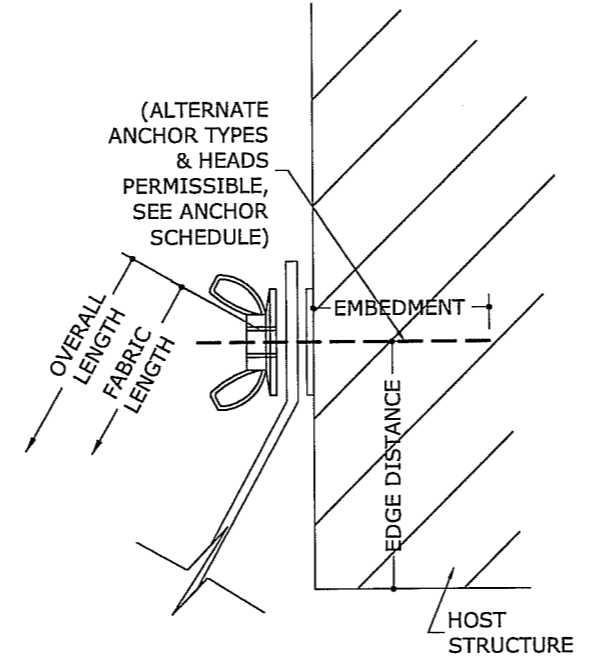
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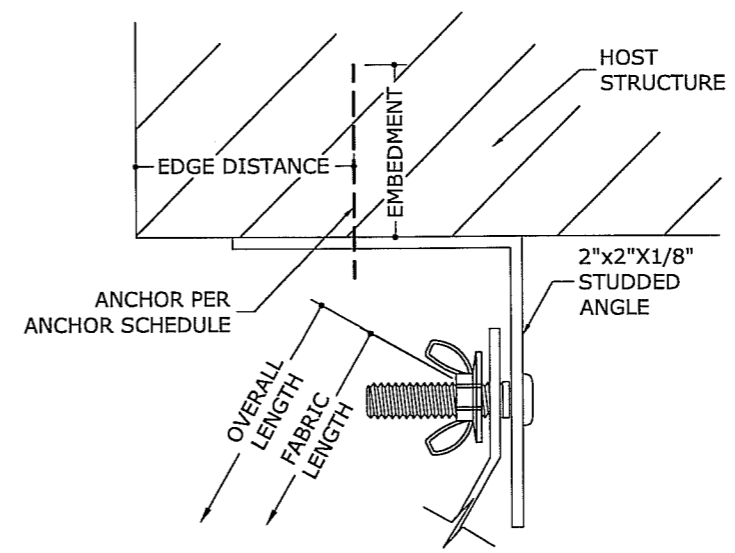
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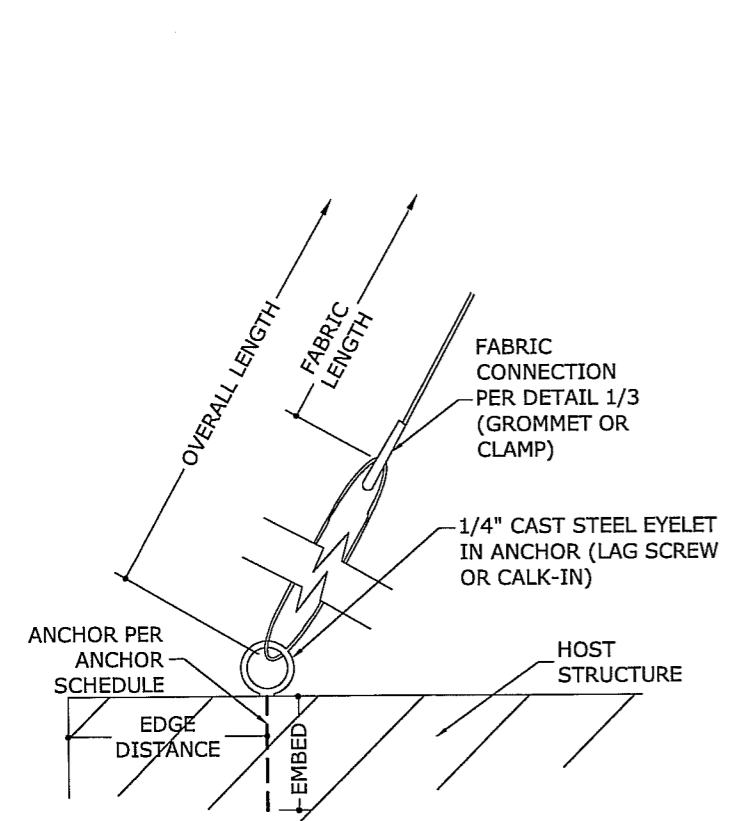
1 ROPE ATTACHMENT
 2 N.T.S. (HEAD OR SILL SIMILAR)



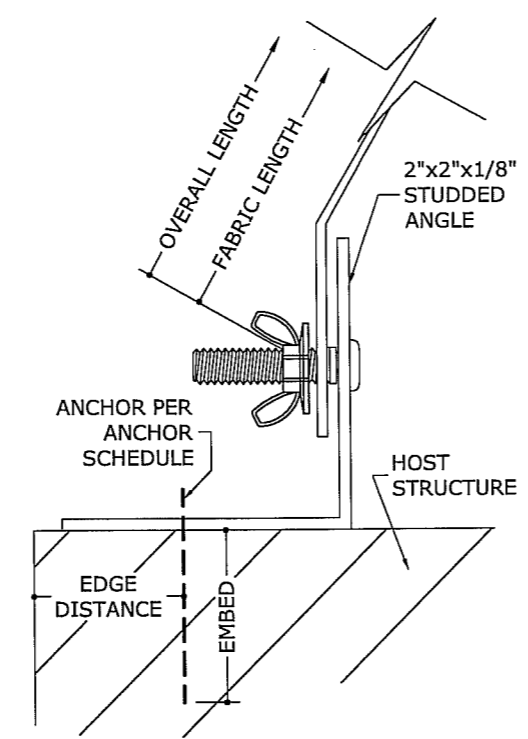
2 DIRECT MOUNT
 2 N.T.S. (HEAD OR SILL SIMILAR)



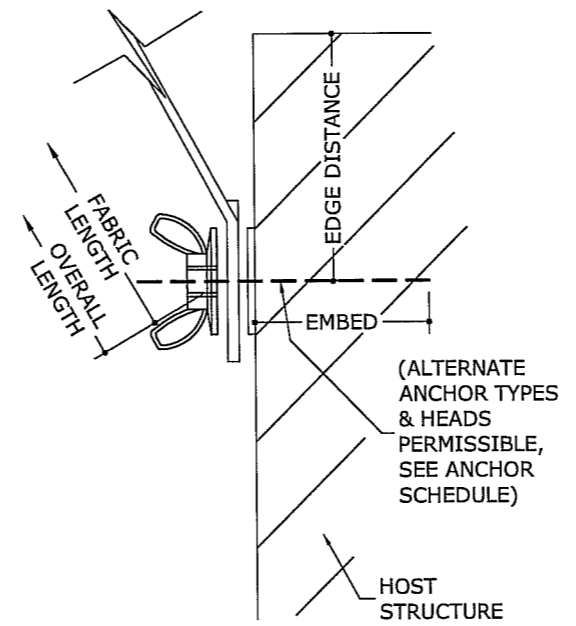
3 STUDDED ANGLE MOUNT
 2 N.T.S. (HEAD OR SILL SIMILAR)



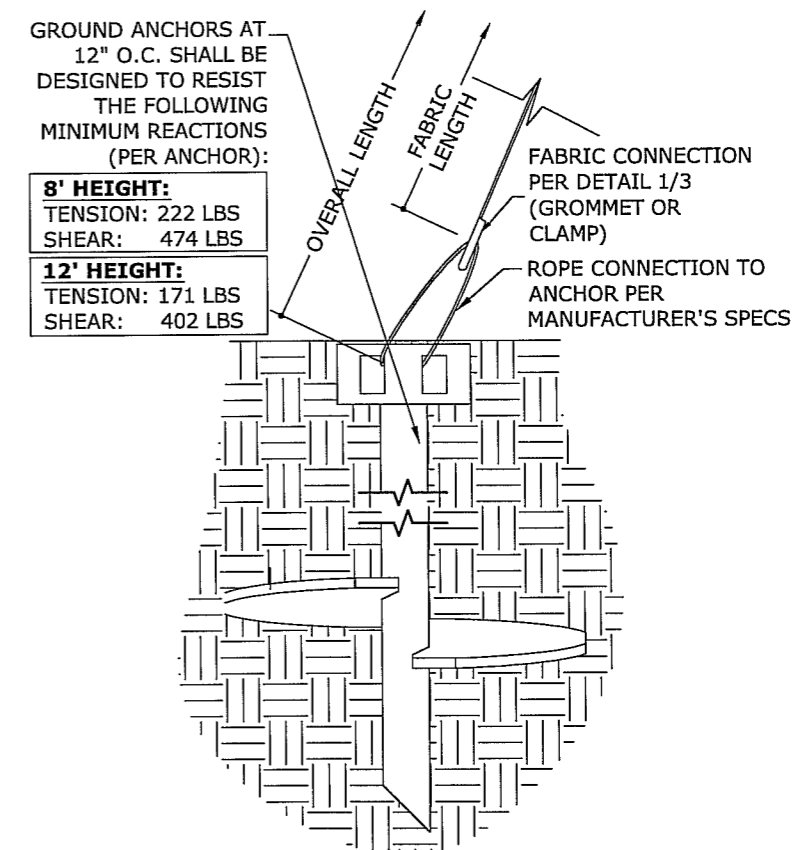
4 ROPE ATTACHMENT
 2 N.T.S. (HEAD OR SILL SIMILAR)



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



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



7 GROUND ANCHOR ATTACHMENT
 2 N.T.S. (SILL ONLY)

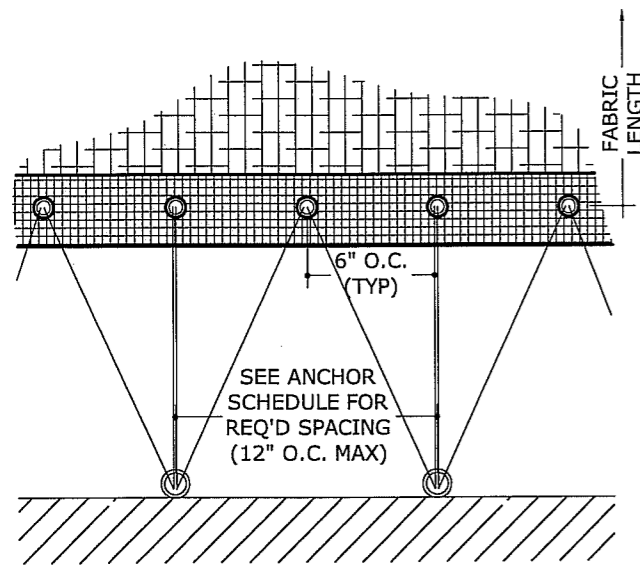
REMARKS	DRWN	CHKD	DATE
INT ISSUE	CTS	JP	08-01-07
REVISED SIDE OVERLAP	CL	JP	09-04-07

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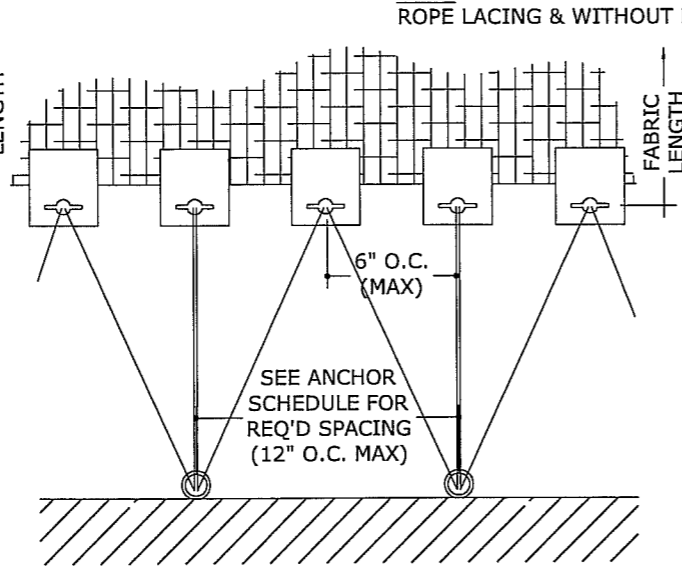
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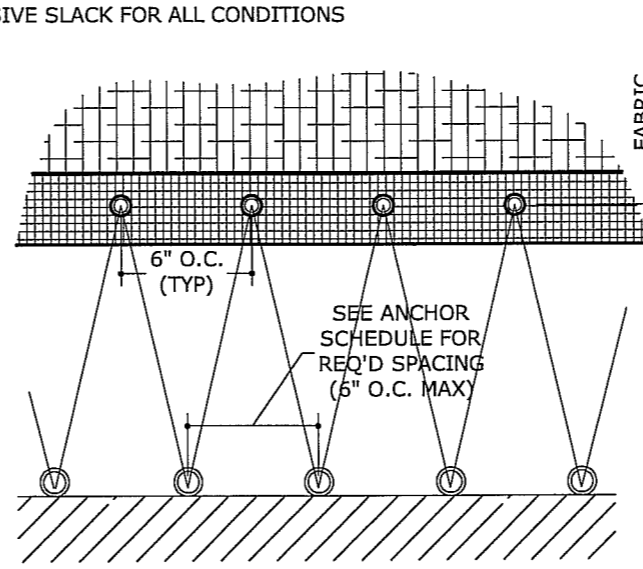
NOTE: FABRIC SHALL BE INSTALLED WITH EVEN TENSION ALONG ROPE LACING & WITHOUT EXCESSIVE SLACK FOR ALL CONDITIONS



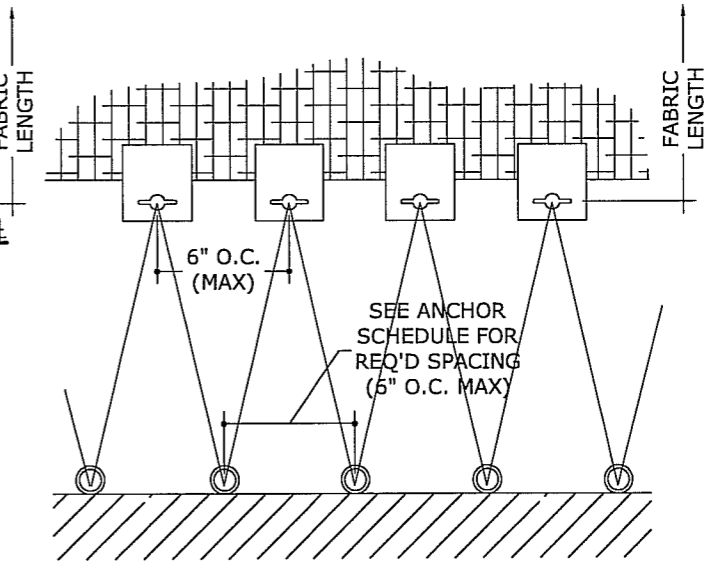
DOUBLE LACING SHOWN FOR 12" ANCHOR SPACING
GROMMET OPTION SHOWN



DOUBLE LACING SHOWN FOR 12" ANCHOR SPACING
CLAMP OPTION SHOWN



SIMPLE LACING SHOWN FOR 6" ANCHOR SPACING
GROMMET OPTION SHOWN

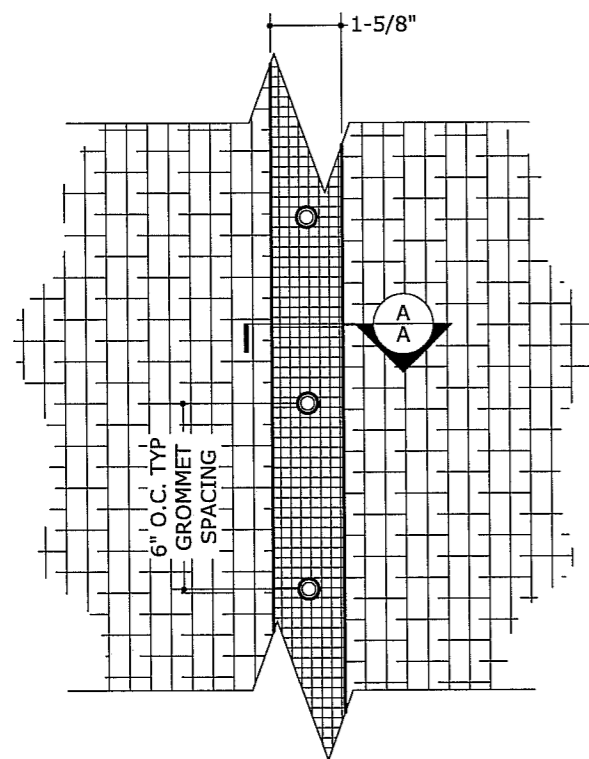


SIMPLE LACING SHOWN FOR 6" ANCHOR SPACING
CLAMP OPTION SHOWN

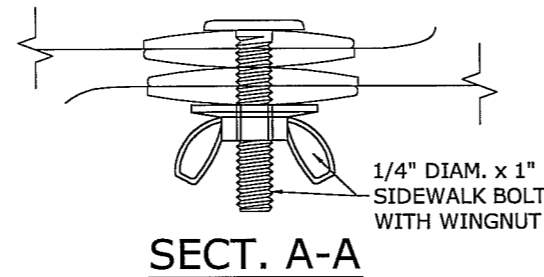
FABRIC LENGTH UP TO 8'-0"

FABRIC LENGTH UP TO 12'-4"

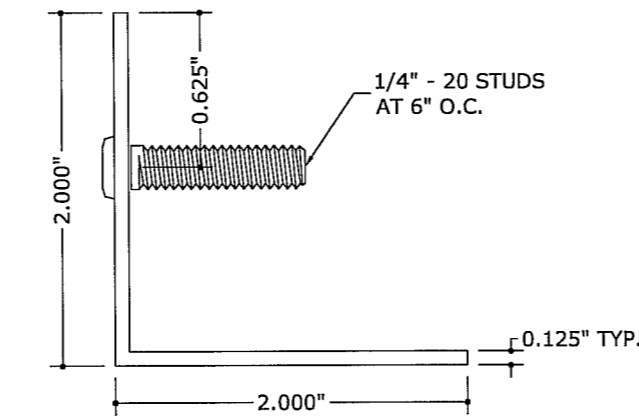
1 ROPE LACING PATTERNS HEAD AND SILL TYP.
3 N.T.S. CONNECTION TYPES MAY VARY, SEE SHEET 2 FOR DETAILS



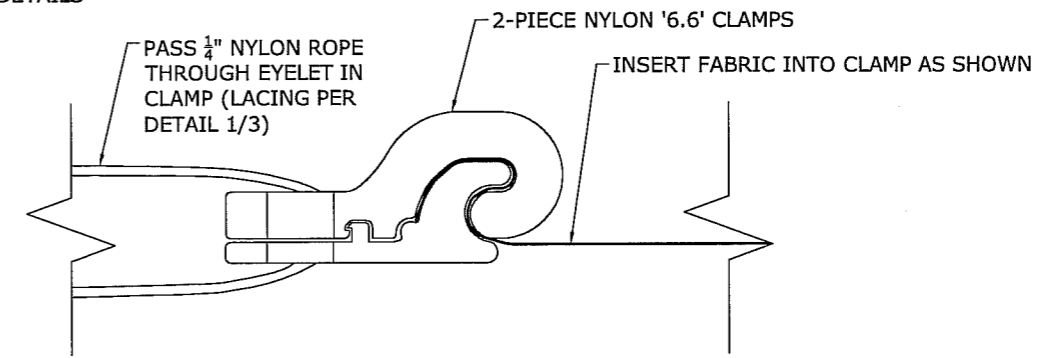
SEAM BOLT SPACING:
• 12" O.C. FOR FABRIC LENGTH UP TO 8'-0".
• 6" ON CENTER FOR FABRIC LENGTH FROM 8'-1" TO 12'-4".



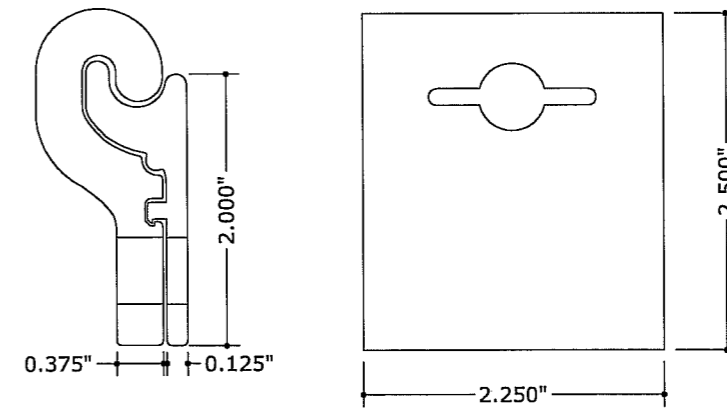
3 SEAM GROMMETS
3 N.T.S.



5 STUDDED ANGLE
3 N.T.S.



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



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



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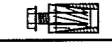


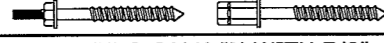

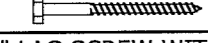
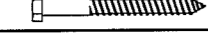

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
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ANCHOR SCHEDULE

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	FABRIC LENGTH UP TO 8'-0"		FABRIC LENGTH UP TO 8'-0"		FABRIC LENGTH UP TO 12'-4"	
		DESIGN PRESSURE	MAXIMUM SPACING	DESIGN PRESSURE	MAXIMUM SPACING	DESIGN PRESSURE	MAXIMUM SPACING
CONCRETE	1/4" TAPCON (ELCO OR ITW) WITH 1-3/4" EMBED (3320psi MIN CONC) & 2-1/2" MIN EDGE DIST 	36.3 PSF	12.0"	24.2 PSF	12.0"	24.9 PSF	6.0"
		54.4 PSF	10.6"	48.4 PSF	12.0"	37.3 PSF	6.0"
		72.5 PSF	8.7"	72.5 PSF	9.0"	49.7 PSF	6.0"
	1/4" ELCO PANELMATE (MALE, FEMALE) W/ 1-3/4" MIN EMBED (3350psi MIN CONC) & 2-1/2" MIN EDGE DIST * 	36.3 PSF	12.0"	24.2 PSF	12.0"	24.9 PSF	6.0"
		54.4 PSF	11.4"	48.4 PSF	12.0"	37.3 PSF	6.0"
		72.5 PSF	9.3"	72.5 PSF	9.6"	49.7 PSF	6.0"
	1/4-20 POWERS CALK-IN WITH 7/8" MIN EMBED (3000psi MIN CONC) & 2-1/2" MIN EDGE DIST * 	36.3 PSF	12.0"	24.2 PSF	12.0"	24.9 PSF	6.0"
		54.4 PSF	10.1"	48.4 PSF	11.9"	37.3 PSF	6.0"
		72.5 PSF	8.2"	72.5 PSF	8.6"	49.7 PSF	6.0"
	1/2-13 POWERS CALK-IN WITH 1-1/2" MIN EMBED (3000psi MIN CONC) & 6" MIN EDGE DIST * 	36.3 PSF	12.0"	24.2 PSF	12.0"	24.9 PSF	6.0"
		54.4 PSF	12.0"	48.4 PSF	12.0"	37.3 PSF	6.0"
		72.5 PSF	12.0"	72.5 PSF	12.0"	49.7 PSF	6.0"
HOLLOW BLOCK	1/4" TAPCON (ELCO OR ITW) WITH 1-1/4" EMBEDMENT & 2-1/2" MIN EDGE DISTANCE 	36.3 PSF	8.7"	24.2 PSF	12.0"	24.9 PSF	6.0"
		54.4 PSF	6.1"	48.4 PSF	7.2"	37.3 PSF	5.9"
		72.5 PSF	4.9"	72.5 PSF	5.1"	49.7 PSF	4.8"
	1/4" ELCO PANELMATE (MALE or FEMALE) W/ 1-1/4" MIN EMBED & 2-1/2" MIN EDGE DIST * 	36.3 PSF	9.4"	24.2 PSF	12.0"	24.9 PSF	6.0"
		54.4 PSF	6.7"	48.4 PSF	7.9"	37.3 PSF	6.0"
		72.5 PSF	5.4"	72.5 PSF	5.6"	49.7 PSF	5.3"
	1/4-20 POWERS CALK-IN WITH 7/8" MINIMUM EMBEDMENT & 2-1/2" MIN EDGE DISTANCE * 	36.3 PSF	8.4"	24.2 PSF	11.8"	24.9 PSF	6.0"
		54.4 PSF	5.9"	48.4 PSF	6.9"	37.3 PSF	5.7"
		72.5 PSF	4.7"	72.5 PSF	4.9"	49.7 PSF	4.6"
WOOD	3/8" LAG SCREW WITH 2-1/2" MIN THREAD PENETRATION & 1" MIN EDGE DIST 	36.3 PSF	8.1"	24.2 PSF	11.2"	24.9 PSF	6.0"
		54.4 PSF	5.9"	48.4 PSF	7.1"	37.3 PSF	5.7"
		72.5 PSF	4.9"	72.5 PSF	5.1"	49.7 PSF	4.8"
	1/2" LAG SCREW WITH 2-1/2" MIN THREAD PENETRATION & 1" MIN EDGE DIST 	36.3 PSF	9.6"	24.2 PSF	12.0"	24.9 PSF	6.0"
		54.4 PSF	7.0"	48.4 PSF	8.3"	37.3 PSF	6.0"
		72.5 PSF	5.8"	72.5 PSF	6.1"	49.7 PSF	5.7"
	1/4" ELCO PANELMATE (FEMALE, MALE) W/ 1-7/8" MIN EMBED & 1" MIN EDGE DIST * 	36.3 PSF	12.0"	24.2 PSF	12.0"	24.9 PSF	6.0"
		54.4 PSF	9.0"	48.4 PSF	10.7"	37.3 PSF	6.0"
		72.5 PSF	7.4"	72.5 PSF	7.7"	49.7 PSF	6.0"

ANCHOR NOTES:

- SEE ALLOWABLE DESIGN PRESSURE SCHEDULE (SHEET 1) FOR ALLOWABLE SPANS, MOUNTING CONDITIONS, FABRIC CONNECTORS, AND PRESSURES.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
- 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.
- 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.
-  DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.
- * DESIGNATES REMOVABLE ANCHORS WHICH ARE APPLICABLE TO DIRECT MOUNT INSTALLATIONS.



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