

GENERAL NOTES:

- ARNOLD SANDERS CONSULTING ENGINEERS, INC., HAS NO CONTROL OF THE MANUFACTURING, PERFORMANCE, OR INSTALLATION OF THIS PRODUCT. THESE GENERIC PLANS WERE ENGINEERED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES AND TEST DATA PROVIDED BY THE MANUFACTURER.
- THE WIND ABATEMENT SCREEN SYSTEM SHOWN ON THIS PRODUCT EVALUATION DOCUMENT HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE. THIS WIND ABATEMENT SCREEN SYSTEM SHALL NOT BE INSTALLED IN HIGH VELOCITY HURRICANE ZONES (DADE COUNTY/BROWARD COUNTIES). DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE REFERENCED CODE, IN ACCORDANCE WITH ASCE 7-05, AND FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THE WIND ABATEMENT SCREEN SYSTEM WILL BE INSTALLED. THE WIND ABATEMENT SCREEN SYSTEM ADEQUACY FOR IMPACT, DEFLECTION AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE REFERENCED CODE AND AS PER ASTM E330, E1886, & E1996 AT FENESTRATION TESTING LABORATORY, INC. PER THEIR REPORTS (SEE LIST OF REPORTS).
- LIMITATIONS OF USE:
 - THIS PRODUCT IS NOT TO BE USED IN HIGH VELOCITY HURRICANE ZONES.
 - MAXIMUM SIZE: 60 PSF MAX. PRESSURE @ 288" MAX. WIDTH
SEE TABLES ON SHEET 5, 6, 8, 9, AND 12
 - IMPACT LEVEL: 9-1/4lb. LARGE MISSILE IMPACT LEVEL D
 - ANCHORING OR LOADING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
 - THIS PRODUCT CAN BE USED AS A WIND-BORNE DEBRIS SHUTTER PRODUCT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE EXISTING STRUCTURE IS DESIGNED TO SUPPORT THE MINIMUM LOADS SHOWN ON THE TABLES ON SHEET 5. EXISTING STRUCTURES NOT ABLE TO SUPPORT THESE LOADS SHALL BE EVALUATED AS A SITE SPECIFIC PROJECT. SEE NOTE 4 OF PRODUCT EVALUATION NOTES.
- ALL ALUMINUM EXTRUSION SHALL BE 6063-T6 ALLOY (UNLESS OTHERWISE NOTED).
- ALL SCREEN PANELS SHALL BE PERMANENTLY LABELED WITH AT LEAST ONE LABEL STATING:
STORM SMART INDUSTRIES
6182 IDLEWILD STREET, FORT MYERS, FL 33966
FL PRODUCT APPROVAL NO. #
TEST STANDARDS
OPENING No. #
- FOR DETERMINING INTERNAL PRESSURE IN THE ABOVE REFERENCED CODES, THIS PRODUCT IS CLASSIFIED AS NON-POROUS, HAVING A POROSITY OF LESS THEN 10%, FOR THE CONDITIONS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. SCREEN PANELS MUST COMPLETELY COVER AN OPENING IN ALL DIRECTIONS.
- THE ROLL-UP SCREEN SHALL BE STORED IN THE UP POSITION, AND THE GROMMET AND STRAP SCREENS STORED IN A DESIGNATED AND ACCESSIBLE AREA, DURING NORMAL WEATHER CONDITIONS

PRODUCT EVALUATION NOTES:

- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED AND SHALL NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED (i.e. HIGHLIGHTED, MARKED ETC.) BY ANY MEANS.
- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. THE ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT SITE SPECIFIC DRAWINGS FOR REVIEW.

ANCHOR & FASTENING NOTES:

- ALL FASTENERS SHALL BE CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 OR STAINLESS STEEL 304 OR 316 SERIES WITH 50 KSI YIELD POINT AND 90 KSI ULTIMATE TENSILE STRENGTH.
- NO EMBEDMENT INTO NON-STRUCTURAL COMPONENTS SUCH AS, STUCCO, TILE, SIDING, ETC. SHALL BE CONSIDERED AS PART OF THE EMBEDMENT.
- THE ANCHOR SPACING ARE VALID FOR EDGE DISTANCES AND MINIMUM EMBEDMENT BELOW. FOR EDGE DISTANCES LESS THAN SPECIFIED, THE ANCHOR SPACING SHALL BE REDUCED BY THE EDGE DISTANCE REDUCTION FACTORS SHOWN BELOW. THE EDGE DISTANCE SHALL NOT BE LESS THAN 1 1/2" IN CONCRETE OR CMU, 3/4" IN WOOD, OR MINIMUM SPECIFIED BY THE MANUFACTURER. ANCHOR SPACING SHALL NOT BE LESS THAN 3". THE MINIMUM EDGE DISTANCE FOR THE 1/4"-14 DRILL-FLEX SCREW IS 1/2".

ANCHOR	Concrete & Filled CMU (3500 PSI)		Hollow CMU (1800 PSI)		Wood (S.G. = .55)	
	Min. Edge	Min Emb.	Min. Edge	Min Emb.	Min. Edge	Min Emb.
1/4" ULTRACON HFH	2 1/2"	2"	2 1/2"	1 1/4"	2"	2"
5/16" ULTRACON HFH	3 1/4"	2"	3 1/4"	1 1/4"	2"	2"
3/8" CONFLX	3 3/4"	3 1/2"	-	-	-	-
1/4" W/ PANELMATE INSERT	4"	1 3/4"	3 1/2"	1 1/4"	2"	2"
1/4" PANELMATE PRO, PLUS, FEMALE, & TVAS	2 1/2"	2"	2 1/2"	1 1/4"	2"	2"
1/4" ITW SAMMYS & STORM GUARD	2 1/2"	2 1/4"	2 1/2"	1 1/4"	2"	2"
1/4" W/ POWERS CALK-IN OR ALL POINTS WOOD BUSHING	3"	7/8"	3"	7/8"	3/4"	7/8"
3/8" EYE-HOOK W/ ITW MULTI-SET II	3 1/2"	1 5/8"	-	-	-	-
3/8" EYE-HOOK W/ POWERS DROPIN, CALK-IN, OR LAG BOLT	4"	1 1/2"	4"	1 1/4"	2"	2 1/2"

EDGE DISTANCE REDUCTION FACTORS FOR ANCHOR SPACING								
EDGE DISTANCE	10d	9d	8d	7d	6d	5d	4d	3d
REDUCTION FACTOR	1	0.97	0.93	0.86	0.77	0.66	0.53	0.37

FABRIC SPECIFICATION:

FIBER CONTENT: 100% POLYPROPYLENE
 CONSTRUCTION: 3/4 BASKET-WEAVE, WARP - 60 ENDS PER INCH, WEFT - 50 ENDS PER INCH
 FINISH: CALENDERED
 WEIGHT (ASTM D-3776): 7.6 -OZ/SQUARE YARD
 SELVAGE: HEAT CUT OR WOVEN
 TENSILE STRENGTH (GRAB METHOD, ASTM D - 4632): WARP - 540 lbs., WEFT - 425 lbs.
 BURST STRENGTH (ASTM D - 3786): 825 PSI
 TEAR STRENGTH (ASTM D - 4533): WARP - 200 lbs., WEFT - 170 lbs.
 ABRASION RESISTANCE (ASTM D - 4886) 95% STRENGTH RETAINED
 PUNCTURE STRENGTH (ASTM D - 4833) 190 lbs.
 AIR FLOW: 230 CFM
 UV RETENTION (ASTM D-G154): 90%

SEWING:

SIDE RAIL AND WEIGHT EDGES - 3 SINGLE ROWS OF STRAIGHT STITCH AT INTERVALS OF 1/4" USING A MINIMUM OF 138 DENIER POLYESTER THREAD (SEE STITCHING DETAIL BELOW)
 OTHER SCREEN EDGES - 3 SINGLE ROWS OF STRAIGHT STITCH AT INTERVALS OF 1 1/2" USING A MINIMUM OF 138 DENIER POLYESTER THREAD (SEE STITCHING DETAIL BELOW)

EDGES:

3 1/2" QUAD FOLDED ALL AROUND THE PERIMETER THREE CONTINUOUS SEWING

GROMMETS:

#3 NICKEL PLATED BRONZE GROMMETS PLACED AT 1 1/4" FROM THE EDGE OF SCREEN

STRAP:

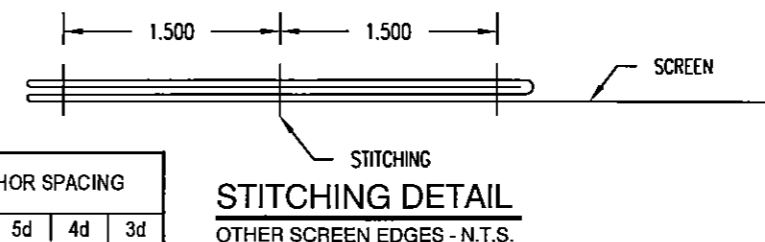
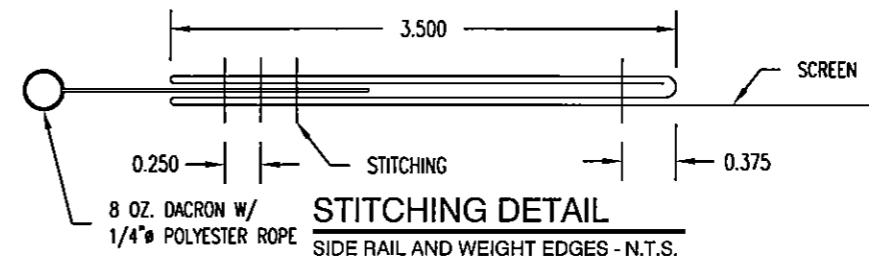
PATTERN: X100-1000
 WIDTH/DIAMETER: 1.875" +/- .063
 THICKNESS: .050" +/- .010
 AVERAGE BREAK STRENGTH: 5000 LB
 MATERIAL: POLYESTER

BUCKLE:

PATTERN: SPIKE TEETH GRIP
 WIDTH/DIAMETER: 2.5" +/- .10
 MATERIAL: ACETAL

BRACKET:

PATTERN: BENT PLATE
 DIMENSIONS: 4.0" X .75" X .10"
 HOLE SIZE: .31"
 MATERIAL: 304 STAINLESS STEEL



EVALUATION BASED ON:
FENESTRATION TESTING LABORATORY, INC.

LABORATORY No.	5451
DATE:	DECEMBER 8, 2007
REPORT No.	02
FILE No.	07-508
TEST PROTOCOL:	ASTM E330-02, E1886 & E1996-05
MAXIMUM WIDTH TESTED:	292"
DESIGN PRESSURE TESTED:	60 PSF
STRUCTURAL LOAD TESTED:	120 PSF
MINIMUM WIDTH TESTED:	150.5"
DESIGN PRESSURE TESTED:	90 PSF
STRUCTURAL LOAD TESTED:	135 PSF

LABORATORY No.	4749
DATE:	DECEMBER 7, 2005
REPORT No.	03
FILE No.	05-422
TEST PROTOCOL:	ASTM E330, E1886 & E1996-02
OVERALL SIZE TESTED:	154" X 90.5"
DESIGN PRESSURE TESTED:	60 PSF
STRUCTURAL LOAD TESTED:	90 PSF

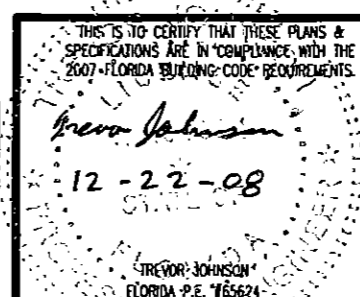
LABORATORY No.	4750
DATE:	DECEMBER 7, 2005
REPORT No.	04
FILE No.	05-422
TEST PROTOCOL:	ASTM E330, E1886 & E1996-02
OVERALL SIZE TESTED:	229" X 154"
DESIGN PRESSURE TESTED:	60 PSF
STRUCTURAL LOAD TESTED:	90 PSF

LABORATORY No.	4633
DATE:	JUNE 6, 2005
REPORT No.	01
FILE No.	05-422
TEST PROTOCOL:	ASTM E330, E1886 & E1996-02
OVERALL SIZE TESTED:	276" X 128.5"
DESIGN PRESSURE TESTED:	60 PSF
STRUCTURAL LOAD TESTED:	90 PSF

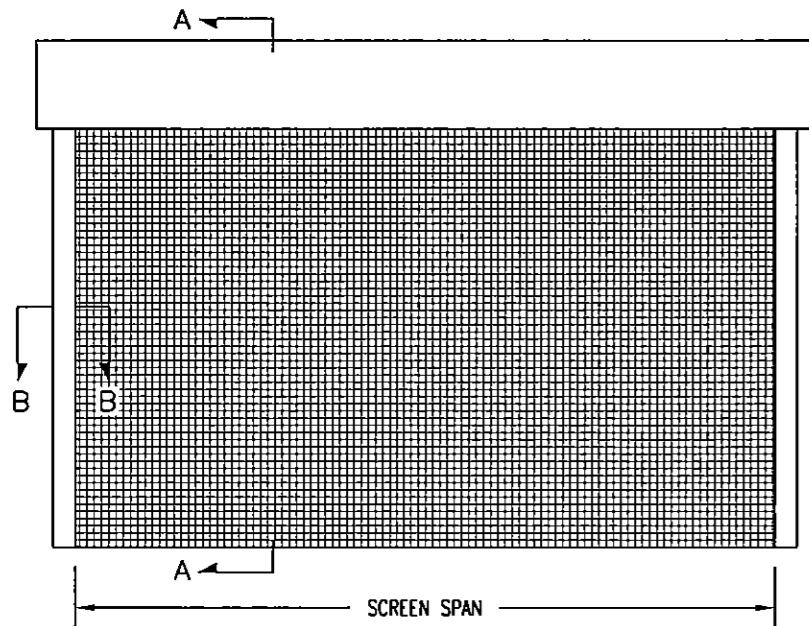
LABORATORY No.	4634
DATE:	JUNE 6, 2005
REPORT No.	02
FILE No.	05-422
TEST PROTOCOL:	ASTM E330, E1886 & E1996-02
OVERALL SIZE TESTED:	276" X 128.5"
DESIGN PRESSURE TESTED:	60 PSF
STRUCTURAL LOAD TESTED:	90 PSF

LIST OF REPORTS

ENGINEERING REVIEW BY:
 TREVOR JOHNSON, P.E.
 FLORIDA LICENSE NUMBER: 65624
 ARNOLD/SANDERS CONSULTING ENGINEERS, INC.
 16681 MCGREGOR BLVD., SUITE 102
 FORT MYERS, FL 33908
 PHONE: (239) 267-3666
 CERTIFICATE OF AUTHORIZATION: #9451

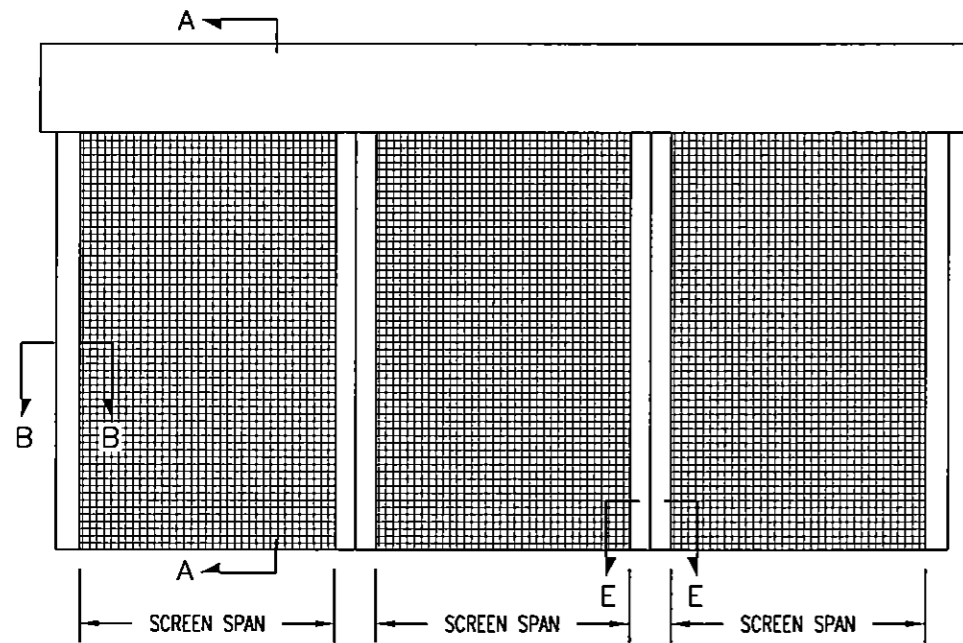


STORM CATCHER WIND ABATEMENT SYSTEM		
STORM SMART INDUSTRIES 6182 IDLEWILD STREET, FORT MYERS, FL 33966	Ph: (239) 938-1000 www.StormSmart.com www.StormCatcher.com	
DATE: 12/22/08	DWG. No.: 1	REV.: 1
SCALE: N.T.S.	SHEET: 1 OF 12	



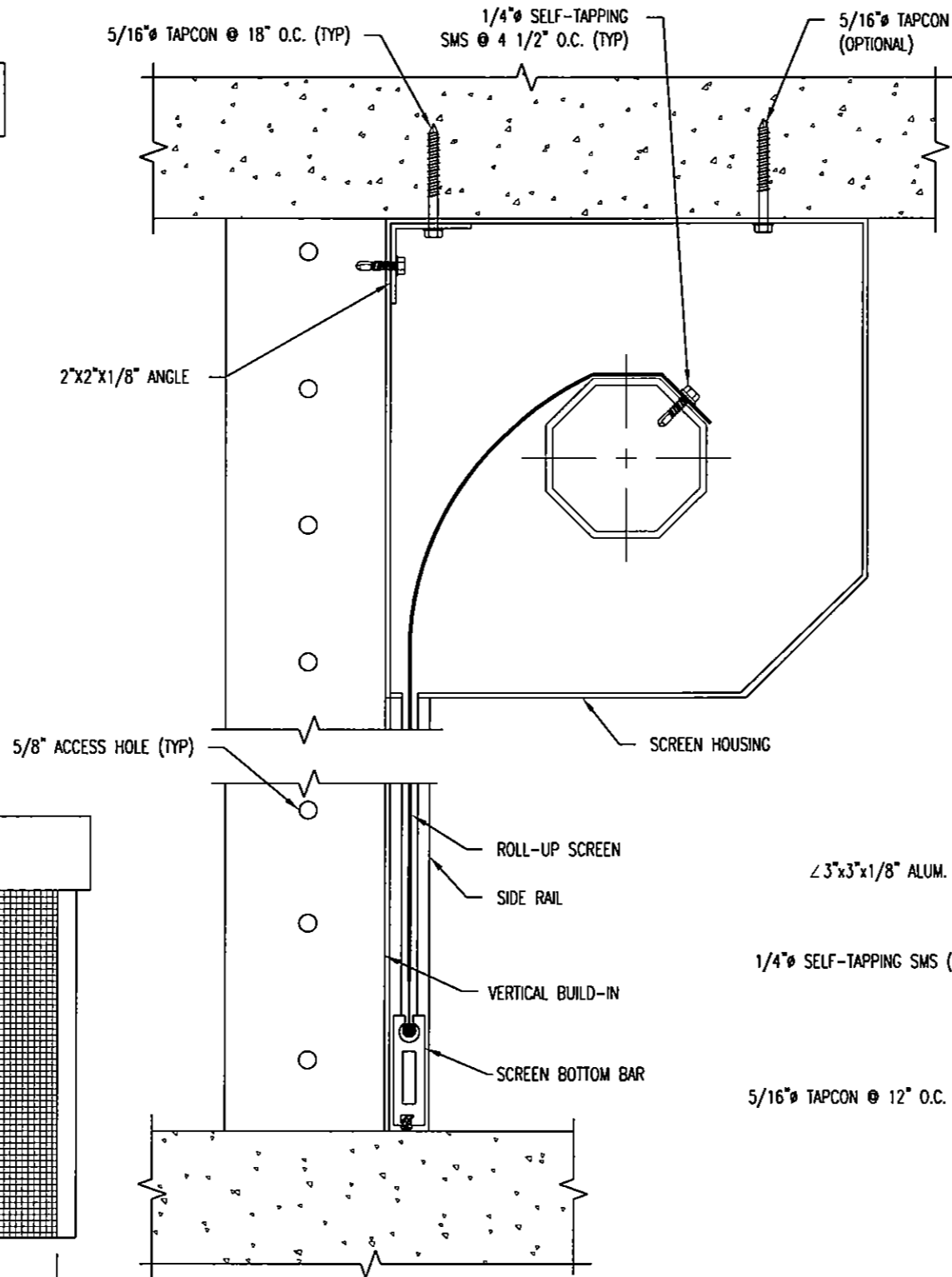
ROLL-UP SCREEN SINGLE UNIT ELEVATION

SINGLE SPAN UP TO 24 FEET - N.T.S.



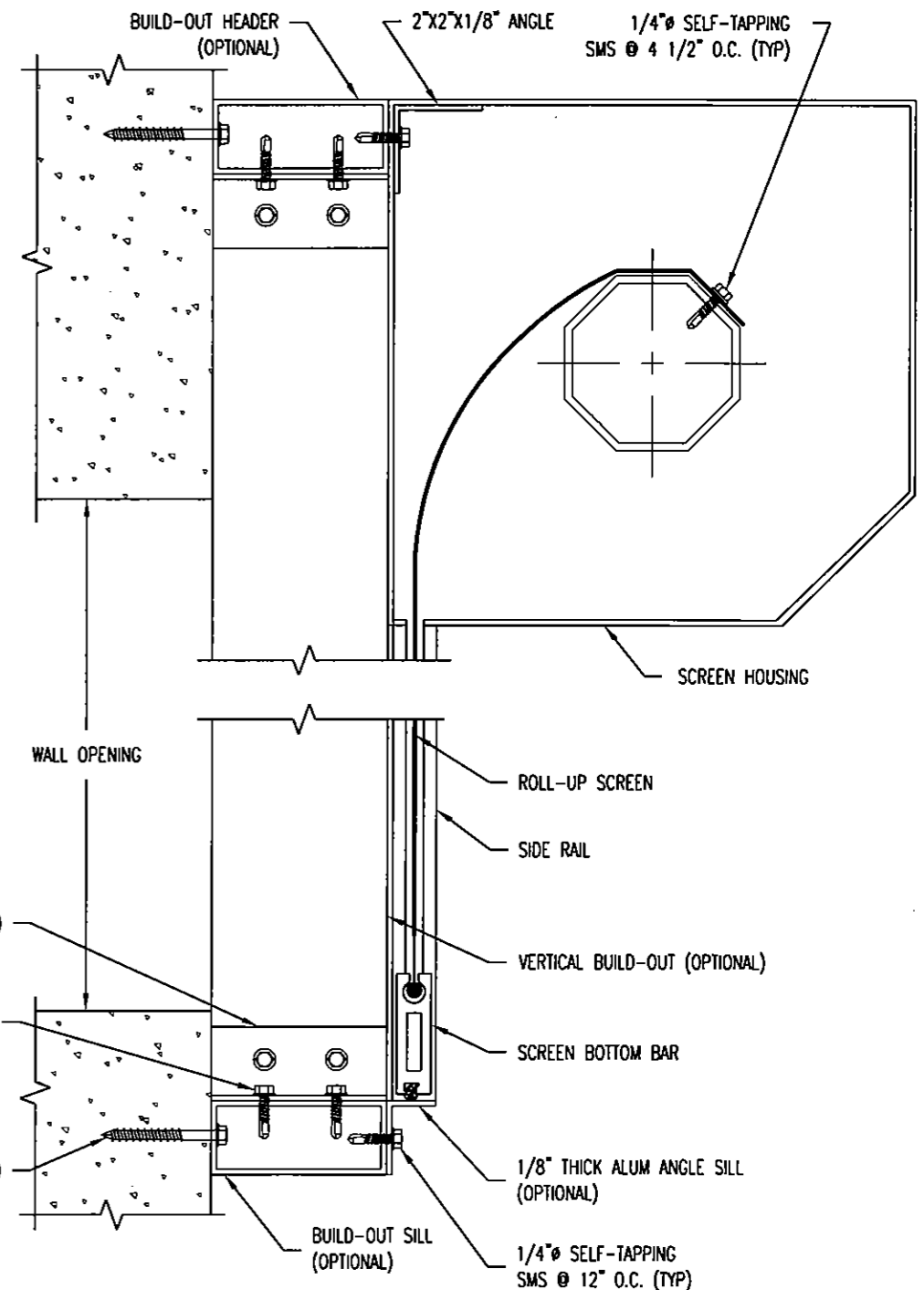
ROLL-UP SCREEN MULTIPLE UNIT ELEVATION

APPROVED INTERMEDIATE MULLION REQUIRED FOR INSTALLATION - N.T.S.



SECTION A-A (BUILD-IN)

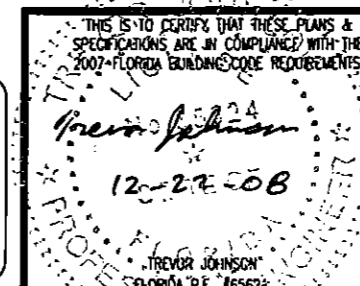
ROLL-UP SCREEN BUILD-IN INSTALLATION - N.T.S.



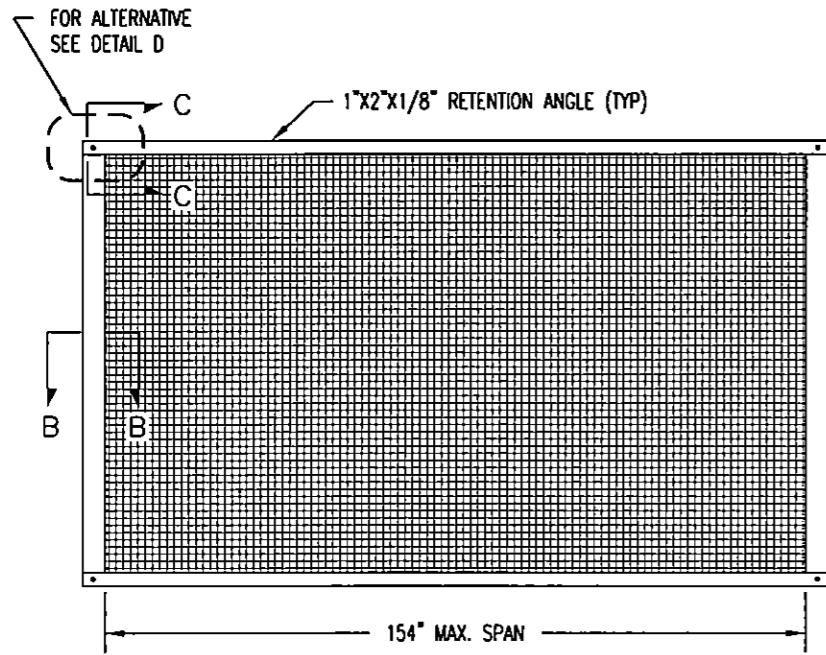
SECTION A-A (BUILD-OUT)

ROLL-UP SCREEN BUILD-OUT INSTALLATION - N.T.S.

ENGINEERING REVIEW BY:
 TREVOR JOHNSON, P.E.
 FLORIDA LICENSE NUMBER: 65624
 ARNOLD/SANDERS CONSULTING ENGINEERS, INC.
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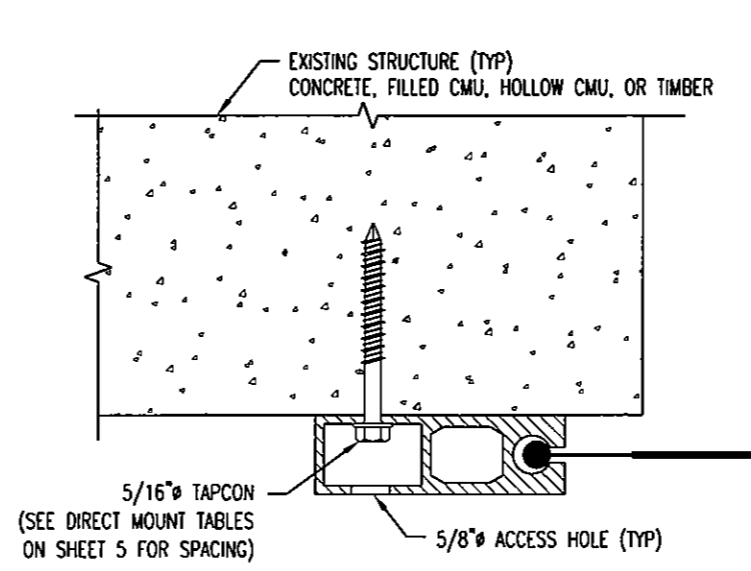


STORM CATCHER WIND ABATEMENT SYSTEM		
STORM SMART INDUSTRIES 6182 IDLEWILD STREET, FORT MYERS, FL 33966		Ph: (239) 938-1000 www.StormSmart.com www.StormCatcher.com
DATE: 12/22/08	DWG. No.: 2	REV.: 1
SCALE: N.T.S.	SHEET: 2 OF 12	

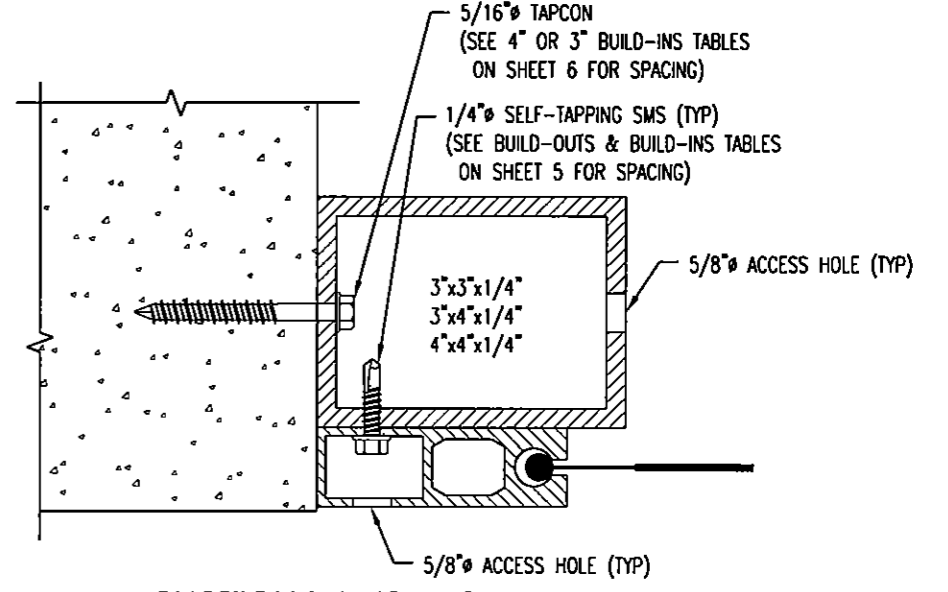


NOTE: THE RETENTION ANGLES ARE NOT REQUIRED WHERE THE SLIDE SCREEN TRACK ENDS ARE AGAINST THE EXISTING STRUCTURE.

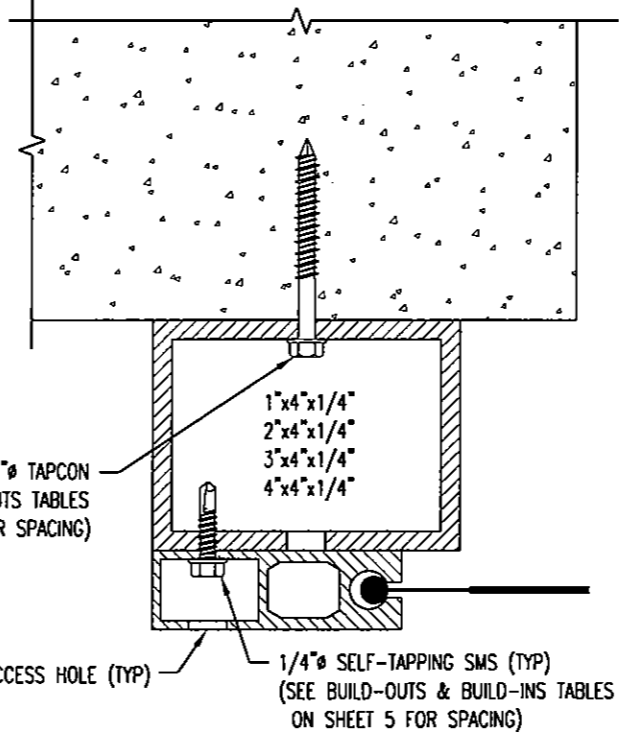
SLIDE SCREEN SINGLE UNIT ELEVATION
VERTICAL OR HORIZONTAL INSTALLATION - N.T.S.



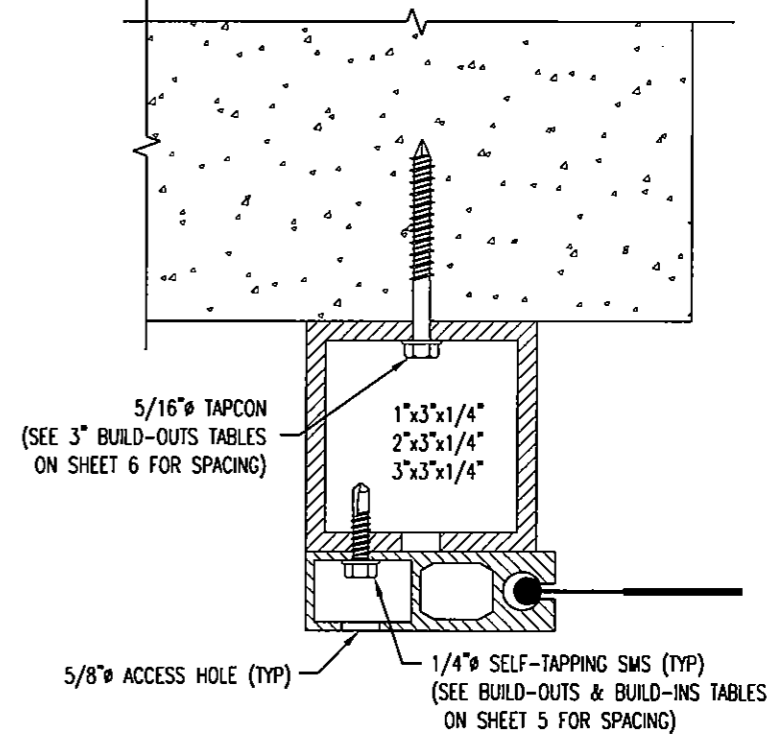
SECTION B-B (OPTION 1)
WALL MOUNT INSTALLATION - N.T.S.



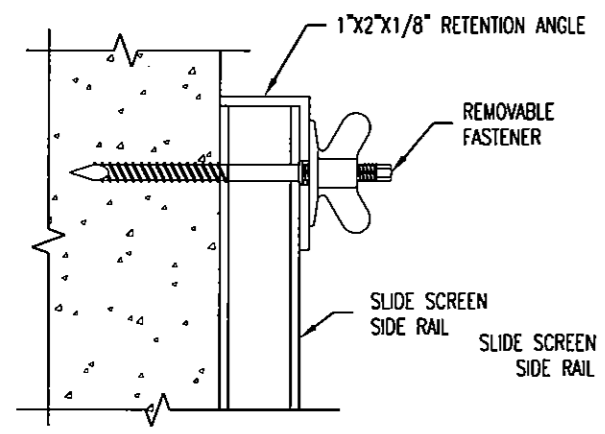
SECTION B-B (OPTION 2)
BUILD-IN INSTALLATION - N.T.S.



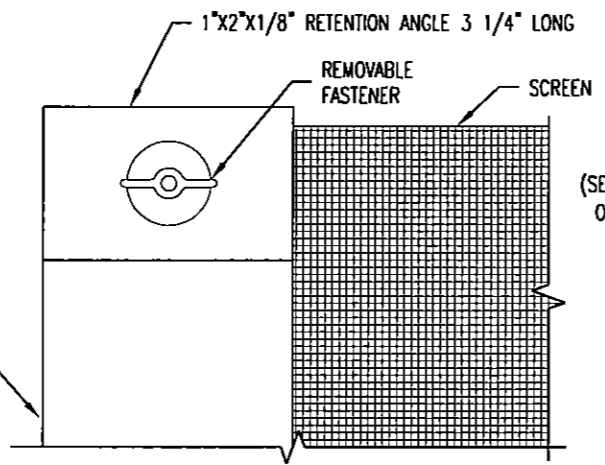
SECTION B-B (OPTION 3A)
4" BUILD-OUT INSTALLATION - N.T.S.



SECTION B-B (OPTION 3B)
3" BUILD-OUT INSTALLATION - N.T.S.

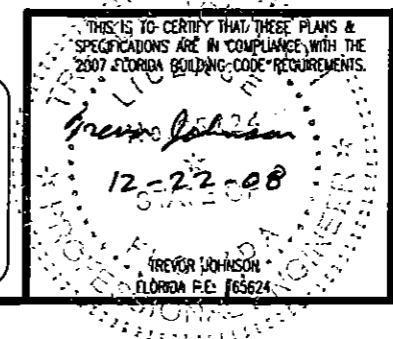


SECTION C-C
RETENTION ANGLE INSTALLATION - N.T.S.

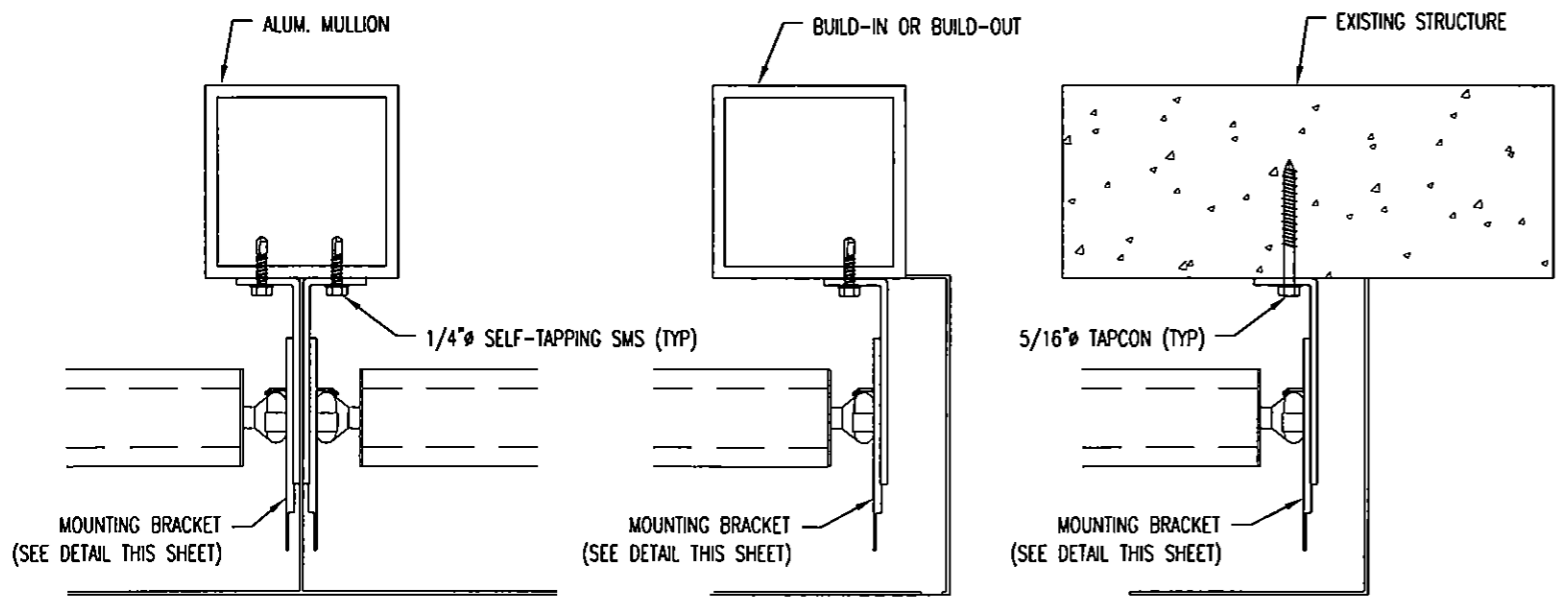


DETAIL D (OPTIONAL)
ALTERNATIVE RETENTION ANGLE INSTALLATION - N.T.S.

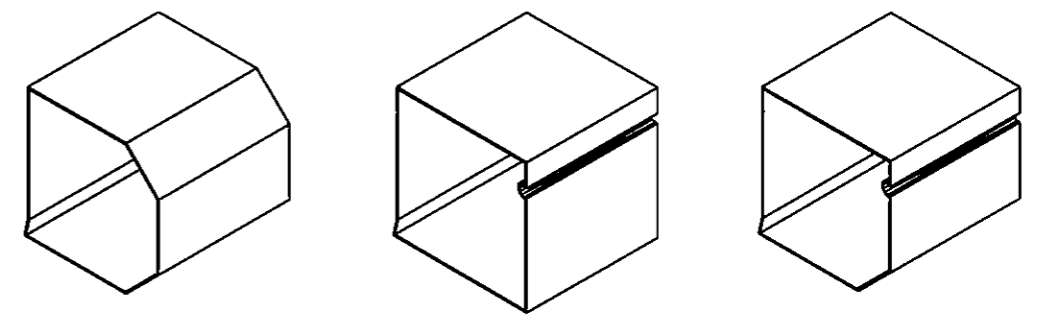
ENGINEERING REVIEW BY:
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CERTIFICATE OF AUTHORIZATION: #9451



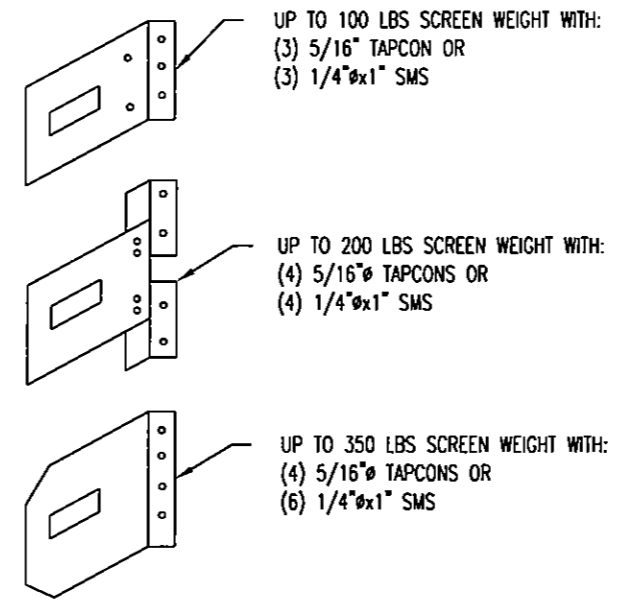
STORM CATCHER WIND ABATEMENT SYSTEM		
STORM SMART INDUSTRIES		Ph: (239) 938-1000
6182 IDLEWILD STREET,		www.StormSmart.com
FORT MYERS, FL 33966		www.StormCatcher.com
DATE: 12/22/08	DWG. No.: 3	REV.: 1
SCALE: N.T.S.	SHEET: 3 OF 12	



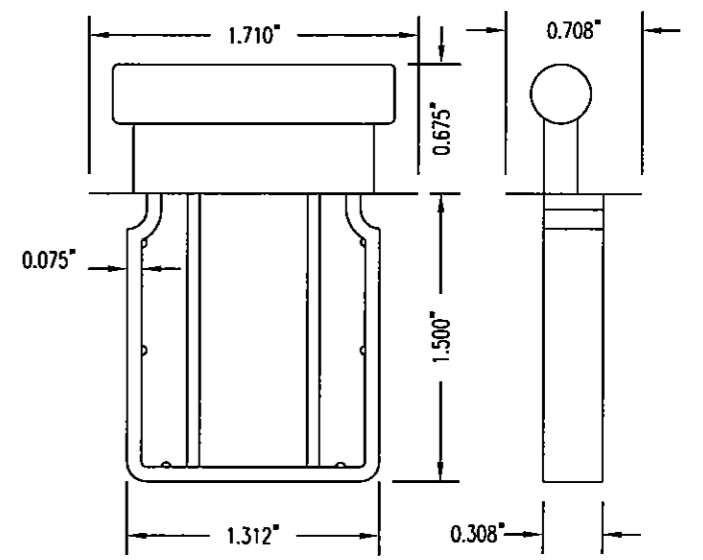
MOUNTING BRACKET INSTALLATION
ROLL-UP SCREEN - N.T.S.



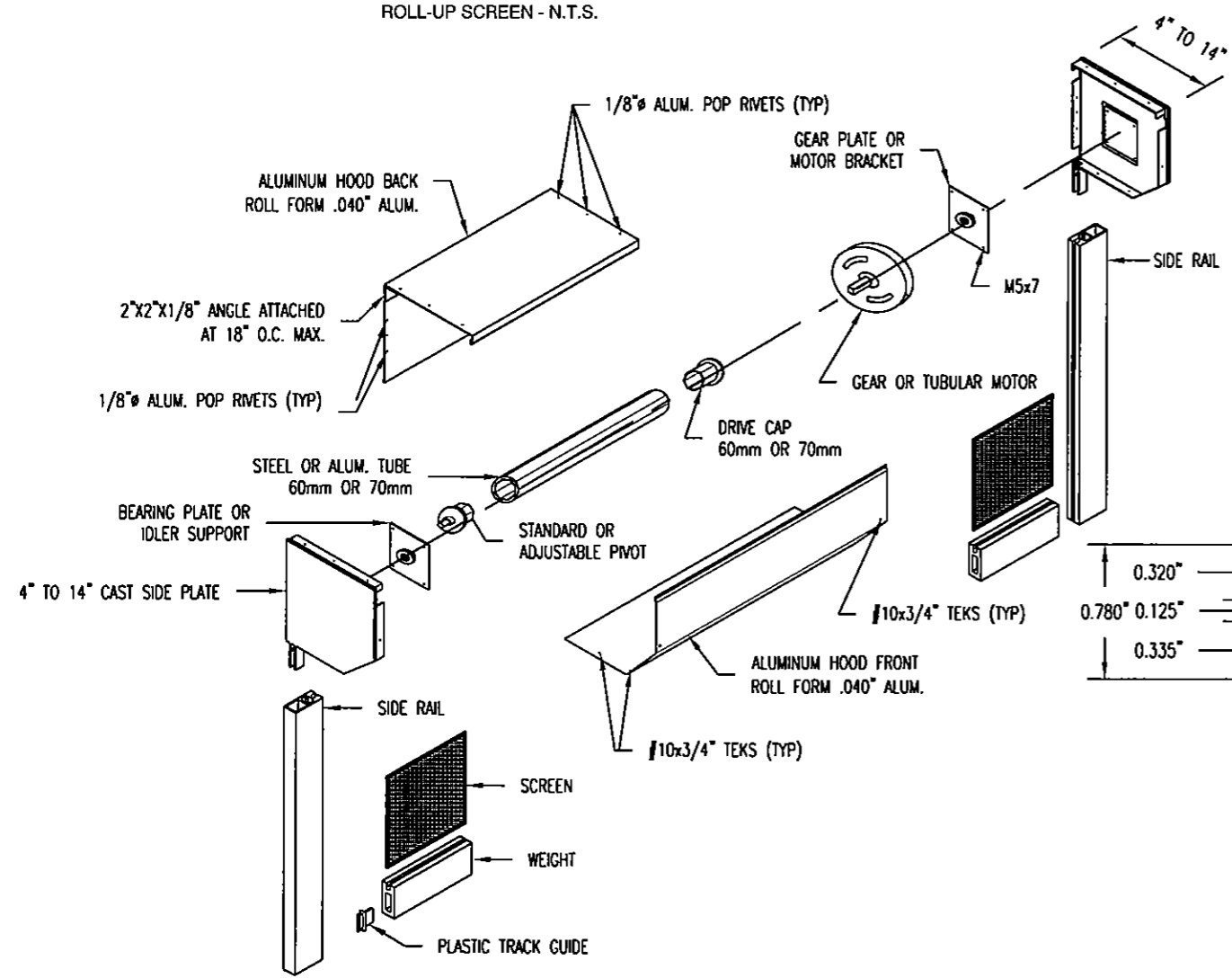
ALUMINUM BOX COVER
ROLL-UP SCREEN INSTALLATION - N.T.S.



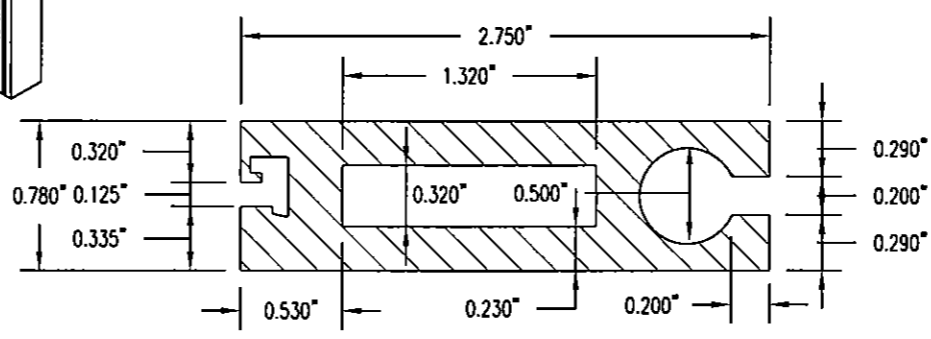
MOUNTING BRACKET
ROLL-UP SCREEN - N.T.S.



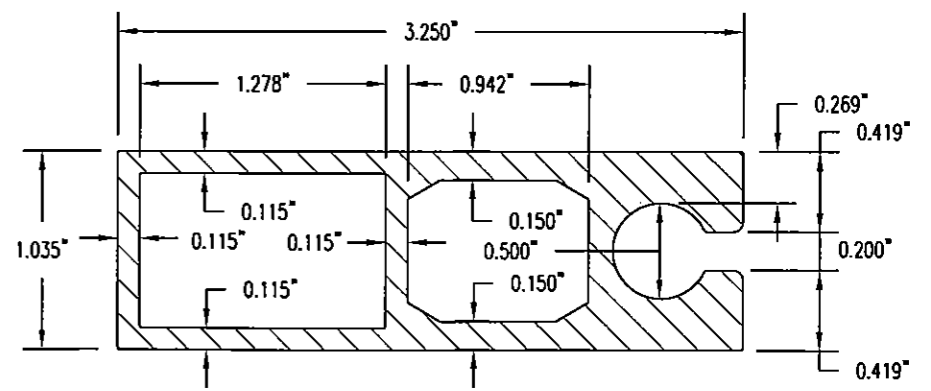
PLASTIC TRACK GUIDE FOR BOTTOM BAR
ROLL-UP SCREEN INSTALLATION - SCALE: 1:1



END CAP COMPONENTS AND ASSEMBLY DETAIL
ROLL-UP SCREEN INSTALLATION - N.T.S.



2 3/4\"/> 6063-T6 ALUMINUM - SCALE: 1:1

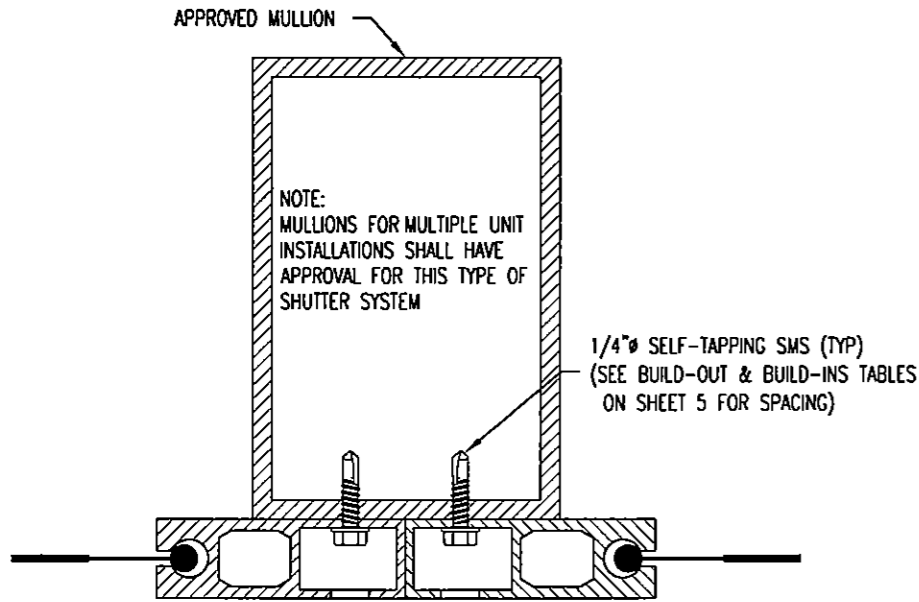


3 1/4\"/> 6063-T6 ALUMINUM - SCALE: 1:1

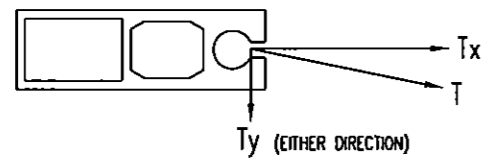
ENGINEERING REVIEW BY:
TREVOR JOHNSON, P.E.
FLORIDA LICENSE NUMBER: 65624
ARNOLD/SANDERS CONSULTING ENGINEERS, INC.
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FORT MYERS, FL 33908
PHONE: (239) 267-3666
CERTIFICATE OF AUTHORIZATION: #9451

THIS IS TO CERTIFY THAT THESE PLANS & SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2007 FLORIDA BUILDING CODE REQUIREMENTS.
Trevor Johnson
12-22-08
TREVOR JOHNSON
FLORIDA P.E. #65624

STORM CATCHER WIND ABATEMENT SYSTEM		
STORM SMART INDUSTRIES 6182 IDLEWILD STREET, FORT MYERS, FL 33966		Ph: (239) 938-1000 www.StormSmart.com www.StormCatcher.com
DATE: 12/22/08	DWG. No.: 4	REV.: 1
SCALE: N.T.S.	SHEET: 4 OF 12	



SECTION E-E
MULLION INSTALLATION - N.T.S.



LOADS ON EXISTING STRUCTURE

ROLL-UP, SLIDE, GROMMET, & STRAP INSTALLATIONS

NOTE: ROLL-UP & SLIDE SCREEN SHOWN, GROMMET & STRAP SCREEN LOADS APPLIED ALONG ANCHOR LINE.

LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM										
T _x = PARALLEL LOADS (PLF)										
SCREEN SPAN	PRESSURE (PSF)									
	120	110	100	90	80	70	60	50	40	30
3'-0"	638	602	568	530	490	450	404	360	310	256
4'-0"	770	727	684	638	590	541	490	433	374	311
5'-0"	890	842	791	738	684	625	566	501	434	358
6'-0"	1003	948	891	831	769	705	638	566	489	404
7'-0"	1108	1047	984	920	851	780	705	626	540	448
8'-0"	1208	1142	1073	1003	928	851	769	683	590	488
9'-0"	1304	1232	1159	1082	1002	919	831	738	637	527
10'-0"	1395	1319	1240	1159	1073	984	890	790	683	565
11'-0"	1484	1403	1319	1232	1141	1047	947	841	727	602
12'-0"	1569	1484	1395	1304	1208	1108	1002	890	769	637
13'-0"	-	1562	1469	1373	1272	1167	1056	938	811	672
14'-0"	-	-	1541	1440	1335	1224	1108	984	851	704
15'-0"	-	-	1610	1505	1395	1280	1159	1029	890	737
16'-0"	-	-	-	1569	1455	1334	1208	1073	928	769
17'-0"	-	-	-	-	1512	1388	1256	1116	966	800
18'-0"	-	-	-	-	1569	1440	1304	1158	1002	831
19'-0"	-	-	-	-	1624	1491	1350	1200	1038	861
20'-0"	-	-	-	-	1541	1395	1240	1073	890	737
21'-0"	-	-	-	-	1590	1440	1280	1108	919	769
22'-0"	-	-	-	-	-	1484	1319	1141	947	769
23'-0"	-	-	-	-	-	-	1526	1357	1175	975
24'-0"	-	-	-	-	-	-	1569	1395	1208	1002

LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM										
T _y = PERPENDICULAR LOADS (PLF)										
SCREEN SPAN	PRESSURE (PSF)									
	120	110	100	90	80	70	60	50	40	30
3'-0"	181	165	152	137	122	107	91	76	61	46
4'-0"	242	220	202	181	161	141	121	101	81	61
5'-0"	301	277	251	226	201	175	151	125	101	75
6'-0"	361	331	301	270	240	210	181	151	121	91
7'-0"	420	386	351	316	281	246	211	176	140	106
8'-0"	481	440	400	361	321	280	240	201	161	121
9'-0"	540	495	451	406	360	315	270	226	180	135
10'-0"	601	550	500	451	400	350	301	250	200	151
11'-0"	660	606	551	495	440	386	330	275	221	165
12'-0"	721	660	601	541	481	421	360	300	240	180
13'-0"	-	715	651	585	520	455	391	325	260	196
14'-0"	-	-	700	630	561	490	420	350	280	210
15'-0"	-	-	750	675	600	525	450	376	300	225
16'-0"	-	-	-	720	641	560	481	400	320	240
17'-0"	-	-	-	-	680	595	511	425	340	255
18'-0"	-	-	-	-	720	630	540	450	360	270
19'-0"	-	-	-	-	760	665	571	475	380	285
20'-0"	-	-	-	-	-	700	600	500	400	300
21'-0"	-	-	-	-	-	735	630	525	420	315
22'-0"	-	-	-	-	-	-	660	550	440	330
23'-0"	-	-	-	-	-	-	690	575	460	345
24'-0"	-	-	-	-	-	-	720	600	480	360

NOTE: LOADS AND FASTENING SCHEDULES ARE FOR ATTACHING THE SIDE RAILS TO THE EXISTING STRUCTURE AND TO BUILD-OUTS OR BUILD-INS

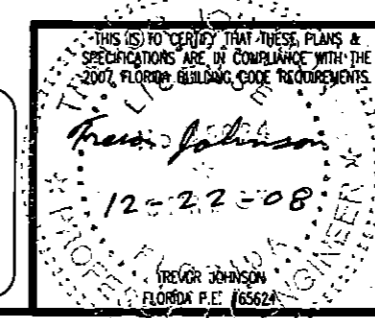
DIRECT MOUNT			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" ELCO ULTRACON HFH @ 12" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU PRESSURE (PSF)	HOLLOW CMU PRESSURE (PSF)	TIMBER PRESSURE (PSF)
4'-0"	60	36	59
5'-0"	60	29	47
6'-0"	60	24	40
7'-0"	59	21	34
8'-0"	51	18	30
9'-0"	46	16	27
10'-0"	41	15	24
11'-0"	38	13	22
12'-0"	34	12	20
13'-0"	32	11	19
14'-0"	30	11	17
15'-0"	28	10	16
16'-0"	26	-	15
17'-0"	24	-	14
18'-0"	23	-	14
19'-0"	22	-	13
20'-0"	-	-	-

DIRECT MOUNT			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" ELCO ULTRACON HFH @ 6" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU PRESSURE (PSF)	HOLLOW CMU PRESSURE (PSF)	TIMBER PRESSURE (PSF)
4'-0"	60	60	60
5'-0"	60	60	60
6'-0"	60	54	60
7'-0"	60	46	60
8'-0"	60	40	60
9'-0"	60	36	60
10'-0"	60	32	56
11'-0"	60	30	51
12'-0"	60	27	47
13'-0"	60	25	43
14'-0"	60	23	40
15'-0"	60	22	37
16'-0"	58	21	35
17'-0"	54	19	33
18'-0"	51	18	31
19'-0"	49	17	30
20'-0"	-	-	-

DIRECT MOUNT			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" HFH ELCO ULTRACON @ 4" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU PRESSURE (PSF)	HOLLOW CMU PRESSURE (PSF)	TIMBER PRESSURE (PSF)
8'-0"	60	60	60
9'-0"	60	57	60
10'-0"	60	52	60
11'-0"	60	47	60
12'-0"	60	43	60
13'-0"	60	40	60
14'-0"	60	37	60
15'-0"	60	35	60
16'-0"	60	32	57
17'-0"	60	31	54
18'-0"	60	29	51
19'-0"	60	27	48
20'-0"	-	-	-
21'-0"	-	-	-
22'-0"	-	-	-
23'-0"	-	-	-
24'-0"	-	-	-

MOUNTED TO BUILD-OUTS & BUILD-INS		
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 1/4"-14 HWH ELCO DRIL-FLEX.		
SCREEN SPANS UP TO	@ 6" O.C. PRESSURE (PSF)	@ 4" O.C. PRESSURE (PSF)
8'-0"	60	60
9'-0"	60	60
10'-0"	60	60
11'-0"	60	60
12'-0"	60	60
13'-0"	60	60
14'-0"	60	60
15'-0"	60	60
16'-0"	60	60
17'-0"	60	60
18'-0"	57	60
19'-0"	54	60
20'-0"	-	60
21'-0"	-	60
22'-0"	-	60
23'-0"	-	60
24'-0"	-	60

ENGINEERING REVIEW BY:
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FORT MYERS, FL 33908
PHONE: (239) 267-3666
CERTIFICATE OF AUTHORIZATION: #9451



STORM CATCHER WIND ABATEMENT SYSTEM

STORM SMART INDUSTRIES Ph: (239) 938-1000
6182 IDLEWILD STREET, www.StormSmart.com
FORT MYERS, FL 33966 www.StormCatcher.com

DATE: 12/22/08 DWG. No.: 5 REV.: 1
SCALE: N.T.S. SHEET: 5 OF 12

4" BUILD-OUTS			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" ELCO ULTRACON HFH @ 6" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU	HOLLOW CMU	TIMBER
	PRESSURE (PSF)	PRESSURE (PSF)	PRESSURE (PSF)
4'-0"	60	42	60
5'-0"	60	33	60
6'-0"	60	27	60
7'-0"	60	24	54
8'-0"	60	21	47
9'-0"	60	18	42
10'-0"	60	17	37
11'-0"	59	15	34
12'-0"	54	14	31
13'-0"	50	13	29
14'-0"	47	12	27
15'-0"	43	11	25
16'-0"	41	10	23
17'-0"	38	10	22
18'-0"	36	-	21
19'-0"	34	-	20
20'-0"	33	-	19

4" BUILD-OUTS			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" HFH ELCO ULTRACON @ 4" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU	HOLLOW CMU	TIMBER
	PRESSURE (PSF)	PRESSURE (PSF)	PRESSURE (PSF)
8'-0"	60	37	60
9'-0"	60	33	60
10'-0"	60	30	60
11'-0"	60	27	60
12'-0"	60	25	57
13'-0"	60	23	53
14'-0"	60	21	49
15'-0"	60	20	45
16'-0"	60	19	43
17'-0"	60	18	40
18'-0"	60	17	38
19'-0"	60	16	36
20'-0"	60	15	34
21'-0"	60	14	33
22'-0"	60	14	31
23'-0"	60	13	30
24'-0"	60	13	28

3" BUILD-OUTS			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" ELCO ULTRACON HFH @ 6" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU	HOLLOW CMU	TIMBER
	PRESSURE (PSF)	PRESSURE (PSF)	PRESSURE (PSF)
4'-0"	60	40	60
5'-0"	60	32	60
6'-0"	60	26	60
7'-0"	60	23	52
8'-0"	60	20	46
9'-0"	60	18	41
10'-0"	60	16	37
11'-0"	58	15	33
12'-0"	53	13	30
13'-0"	49	12	28
14'-0"	46	12	26
15'-0"	43	11	24
16'-0"	40	10	23
17'-0"	38	10	22
18'-0"	36	-	20
19'-0"	34	-	19
20'-0"	32	-	18

3" BUILD-OUTS			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" HFH ELCO ULTRACON @ 4" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU	HOLLOW CMU	TIMBER
	PRESSURE (PSF)	PRESSURE (PSF)	PRESSURE (PSF)
8'-0"	60	36	60
9'-0"	60	32	60
10'-0"	60	29	60
11'-0"	60	26	60
12'-0"	60	24	56
13'-0"	60	22	52
14'-0"	60	21	48
15'-0"	60	19	45
16'-0"	60	18	42
17'-0"	60	17	40
18'-0"	60	16	37
19'-0"	60	15	35
20'-0"	59	15	34
21'-0"	56	14	32
22'-0"	54	13	31
23'-0"	52	13	29
24'-0"	49	12	28

4" BUILD-INS			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" ELCO ULTRACON HFH @ 6" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU	HOLLOW CMU	TIMBER
	PRESSURE (PSF)	PRESSURE (PSF)	PRESSURE (PSF)
4'-0"	60	47	60
5'-0"	60	38	60
6'-0"	60	32	60
7'-0"	60	27	60
8'-0"	60	24	60
9'-0"	60	21	54
10'-0"	60	19	48
11'-0"	60	17	44
12'-0"	59	16	40
13'-0"	54	15	37
14'-0"	50	14	35
15'-0"	47	13	32
16'-0"	44	12	30
17'-0"	41	11	29
18'-0"	39	11	27
19'-0"	37	10	26
20'-0"	35	10	24

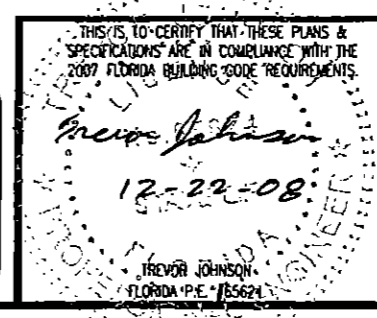
4" BUILD-INS			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" HFH ELCO ULTRACON @ 4" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU	HOLLOW CMU	TIMBER
	PRESSURE (PSF)	PRESSURE (PSF)	PRESSURE (PSF)
8'-0"	60	41	60
9'-0"	60	37	60
10'-0"	60	33	60
11'-0"	60	30	60
12'-0"	60	28	60
13'-0"	60	25	60
14'-0"	60	24	59
15'-0"	60	22	55
16'-0"	60	21	51
17'-0"	60	20	48
18'-0"	60	19	46
19'-0"	60	18	43
20'-0"	60	17	41
21'-0"	57	16	39
22'-0"	55	15	37
23'-0"	52	15	36
24'-0"	50	14	34

3" BUILD-INS			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" ELCO ULTRACON HFH @ 6" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU	HOLLOW CMU	TIMBER
	PRESSURE (PSF)	PRESSURE (PSF)	PRESSURE (PSF)
4'-0"	60	43	60
5'-0"	60	34	60
6'-0"	60	29	60
7'-0"	60	24	60
8'-0"	60	22	55
9'-0"	60	19	49
10'-0"	60	17	44
11'-0"	57	16	40
12'-0"	52	14	37
13'-0"	48	13	34
14'-0"	45	12	31
15'-0"	42	12	29
16'-0"	39	11	28
17'-0"	37	10	26
18'-0"	35	10	25
19'-0"	33	-	23
20'-0"	32	-	22

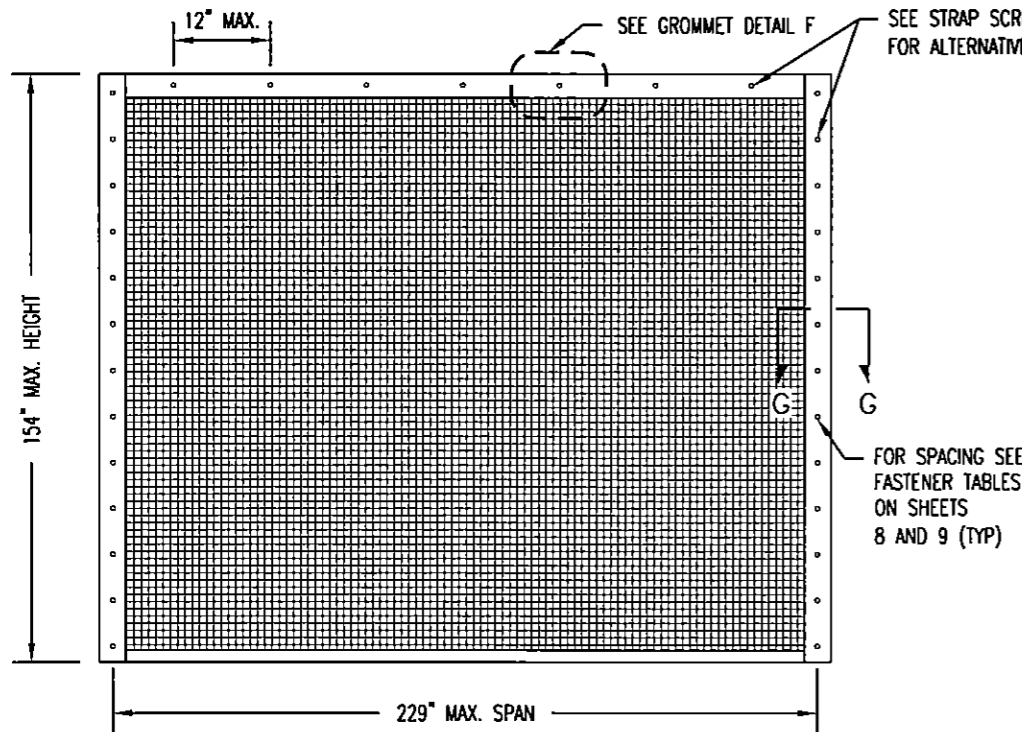
3" BUILD-INS			
MAXIMUM DESIGN PRESSURE OF A ROLL-UP SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" HFH ELCO ULTRACON @ 4" O.C.			
SCREEN SPANS UP TO	CONC. & FILLED CMU	HOLLOW CMU	TIMBER
	PRESSURE (PSF)	PRESSURE (PSF)	PRESSURE (PSF)
8'-0"	60	37	60
9'-0"	60	33	60
10'-0"	60	30	60
11'-0"	60	27	60
12'-0"	60	25	60
13'-0"	60	23	57
14'-0"	60	21	53
15'-0"	60	20	49
16'-0"	60	19	46
17'-0"	60	18	44
18'-0"	59	17	41
19'-0"	56	16	39
20'-0"	53	15	37
21'-0"	51	14	35
22'-0"	48	14	34
23'-0"	46	13	32
24'-0"	44	13	31

NOTE: LOADS AND FASTENING SCHEDULES ARE FOR ATTACHING THE BUILD-OUTS OR BUILD-INS TO THE EXISTING STRUCTURE

ENGINEERING REVIEW BY:
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PHONE: (239) 267-3666
CERTIFICATE OF AUTHORIZATION: #9451



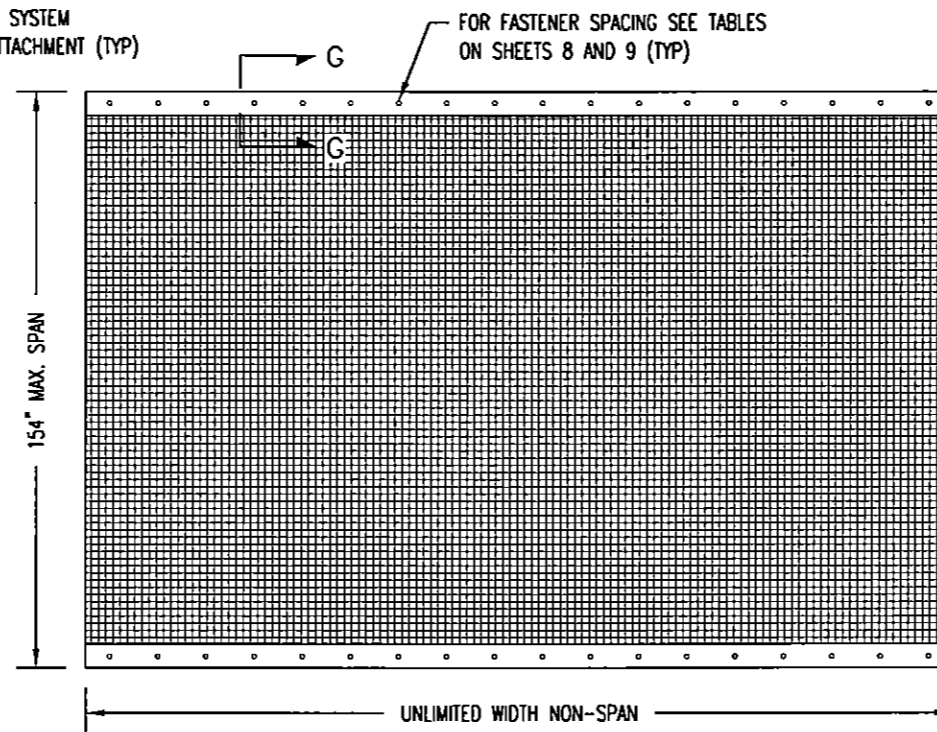
STORM CATCHER WIND ABATEMENT SYSTEM		
STORM SMART INDUSTRIES 6182 IDLEWILD STREET, FORT MYERS, FL 33966	Ph: (239) 938-1000 www.StormSmart.com www.StormCatcher.com	
DATE: 12/22/08	DWG. No.: 6	REV.: 1
SCALE: N.T.S.	SHEET: 6 OF 12	



NOTE: FOR 4 SIDED ATTACHMENT THE SPAN IS IN THE SHORT DIMENSION BETWEEN FASTENERS

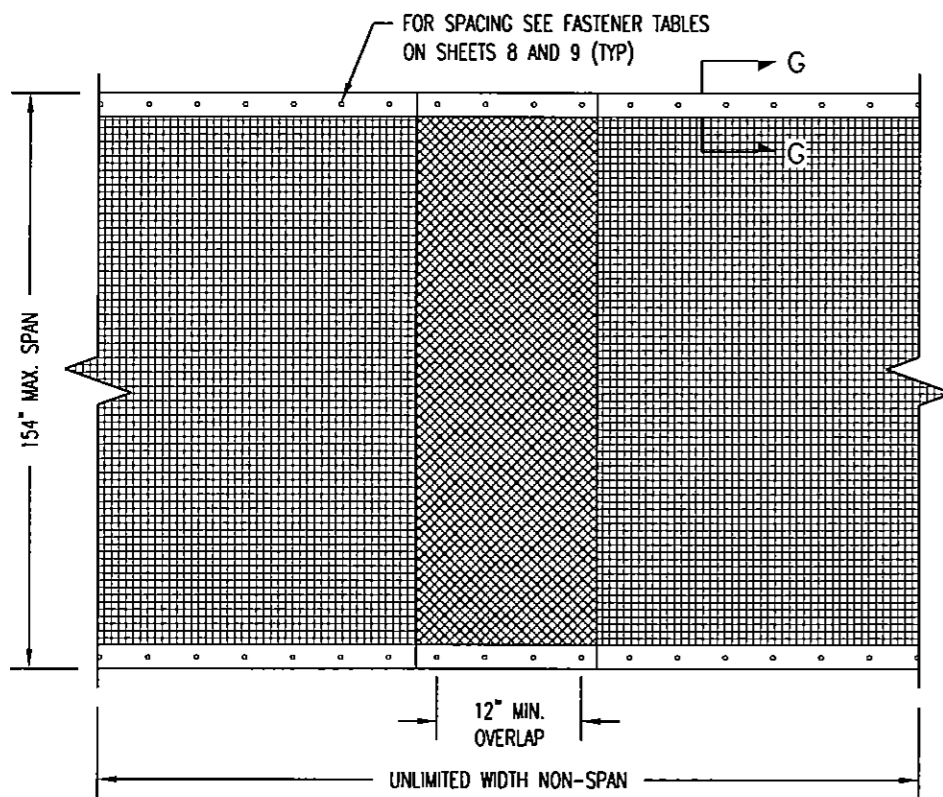
GROMMET SCREEN SINGLE PANEL ELEVATION

3 OR 4 SIDED ATTACHMENT INSTALLATION - N.T.S.



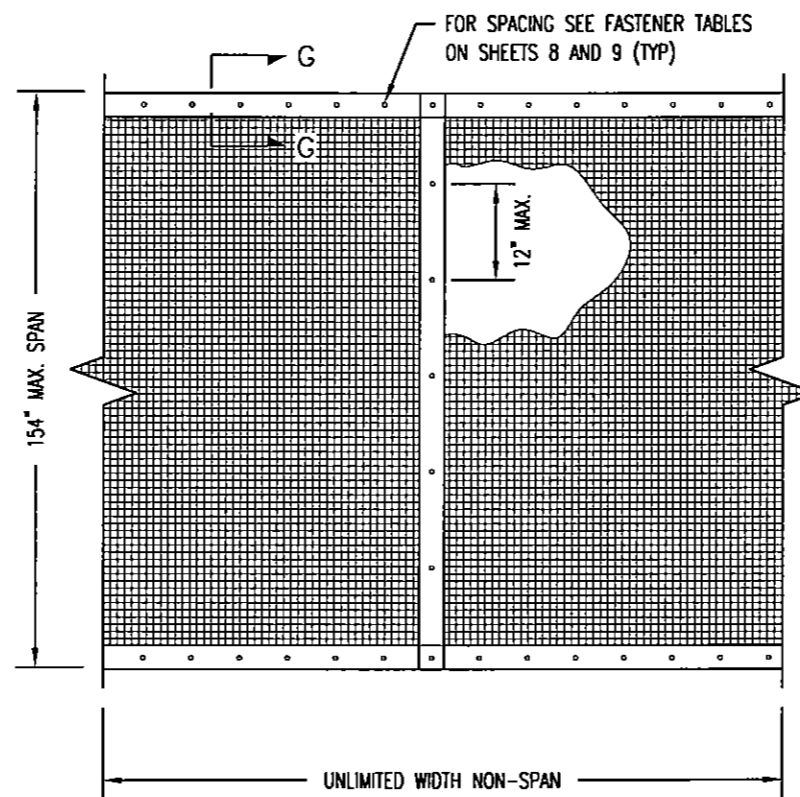
GROMMET SCREEN SINGLE PANEL ELEVATION

TYPICAL 2 SIDED ATTACHMENT - VERTICAL OR HORIZONTAL INSTALLATION - N.T.S.



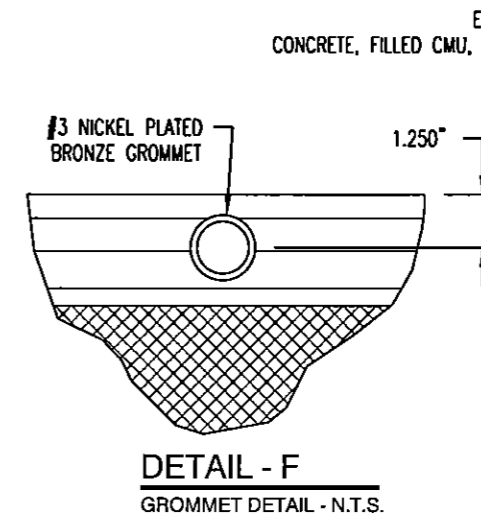
GROMMET SCREEN MULTIPLE PANEL ELEVATION

LAPPED SCREEN - VERTICAL OR HORIZONTAL INSTALLATION - N.T.S.

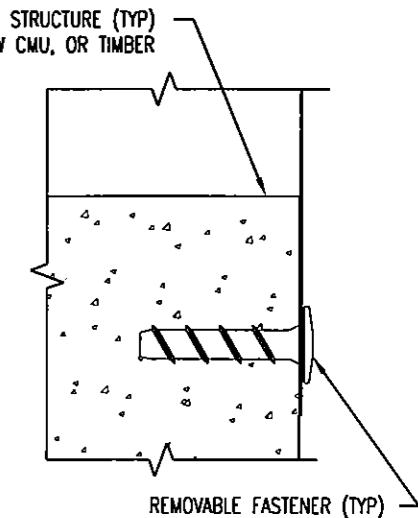


GROMMET SCREEN MULTIPLE PANEL ELEVATION

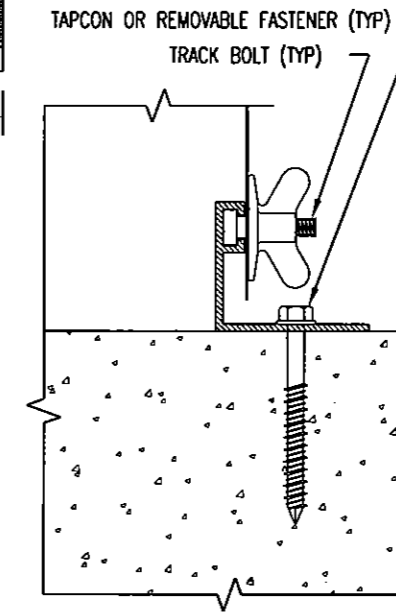
COLUMN ATTACHED - VERTICAL OR HORIZONTAL INSTALLATION - N.T.S.



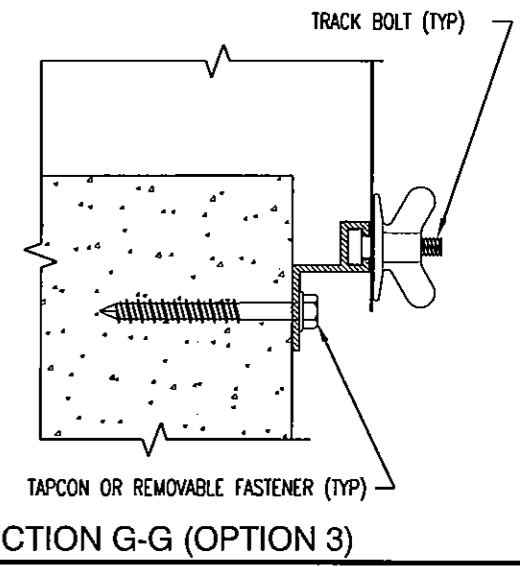
DETAIL - F
GROMMET DETAIL - N.T.S.



SECTION G-G (OPTION 1)
WALL MOUNT INSTALLATION - N.T.S.



SECTION G-G (OPTION 2)
ANGLED "F" OR STUDDED TRACK INSTALLATION - N.T.S.



SECTION G-G (OPTION 3)
STANDARD OR BUILD-OUT "F" TRACK INSTALLATION - N.T.S.

ENGINEERING REVIEW BY:
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FORT MYERS, FL 33908
PHONE: (239) 267-3666
CERTIFICATE OF AUTHORIZATION: #9451

THIS IS TO CERTIFY THAT THESE PLANS & SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2007 FLORIDA BUILDING CODE REQUIREMENTS.
Trevor Johnson
12-22-08
TREVOR JOHNSON
FLORIDA P.E. #65624

STORM CATCHER WIND ABATEMENT SYSTEM		
STORM SMART INDUSTRIES 6182 IDLEWILD STREET, FORT MYERS, FL 33966	Ph: (239) 938-1000 www.StormSmart.com www.StormCatcher.com	
DATE: 12/22/08	DWG. No.: 7	REV.: 1
SCALE: N.T.S.	SHEET: 7 OF 12	

MAXIMUM FASTENER SPACING OF A GROMMET SCREEN FOR ANY LENGTH ATTACHED WITH 1/4"-20 W ELCO PANELMATE INSERT OR 3/8"-16 W ITW MULTI-SET II, POWERS DROPIN, & CALK-IN (INCHES)																		
SCREEN SPANS UP TO	CONC. & FILLED CMU						HOLLOW CMU						TIMBER					
	PRESSURE (PSF)						PRESSURE (PSF)						PRESSURE (PSF)					
	60	55	50	45	40	35	60	55	50	45	40	35	60	55	50	45	40	35
5'-0"	12	12	12	12	12	12	12	12	12	12	12	12	9	9	10	11	12	12
6'-0"	12	12	12	12	12	12	12	12	12	12	12	12	8	8	9	9	10	11
7'-0"	12	12	12	12	12	12	11	12	12	12	12	12	7	7	8	8	9	10
8'-0"	12	12	12	12	12	12	10	10	11	12	12	12	6	6	7	8	8	9
9'-0"	12	12	12	12	12	12	9	10	10	11	12	12	5	6	6	7	8	8
10'-0"	11	12	12	12	12	12	8	9	10	10	11	12	5	5	6	6	7	8
11'-0"	10	11	12	12	12	12	8	8	9	10	10	12	5	5	5	6	6	7
12'-0"	9	10	11	12	12	12	7	8	8	9	10	11	4	5	5	5	6	7
13'-0"	9	10	10	11	12	12	7	7	8	8	9	10	4	4	5	5	6	6
14'-0"	8	9	10	11	12	12	6	7	7	8	9	10	4	4	4	5	5	6
15'-0"	8	9	9	10	11	12	6	6	7	8	8	9	4	4	4	5	5	6
16'-0"	8	8	9	9	10	12	6	6	7	7	8	9	-	4	4	4	5	5
17'-0"	7	8	8	9	10	11	5	6	6	7	8	8	-	4	4	4	5	5
18'-0"	7	7	8	9	9	11	5	6	6	7	7	8	-	-	4	4	4	5
19'-0"	7	7	8	8	9	10	5	5	6	6	7	8	-	-	-	4	4	5

MAXIMUM FASTENER SPACING OF A GROMMET SCREEN FOR ANY LENGTH ATTACHED WITH 1/4"-20 W POWERS CALK-IN (INCHES)																		
SCREEN SPANS UP TO	CONC. & FILLED CMU						HOLLOW CMU											
	PRESSURE (PSF)						PRESSURE (PSF)											
	60	55	50	45	40	35	60	55	50	45	40	35	60	55	50	45	40	35
5'-0"	12	12	12	12	12	12	7	8	9	9	10	11	11	11	11	11	10	11
6'-0"	11	11	12	12	12	12	6	7	7	7	8	9	10	10	10	9	10	10
7'-0"	9	10	11	12	12	12	6	6	6	7	7	8	8	8	8	8	8	9
8'-0"	9	9	10	11	12	12	5	6	6	6	6	7	7	7	7	7	7	8
9'-0"	8	8	9	10	11	12	5	5	5	5	5	6	6	6	6	6	6	7
10'-0"	7	8	8	9	10	11	4	5	5	5	5	6	6	6	6	6	6	7
11'-0"	7	7	8	8	9	10	4	4	4	4	4	5	5	5	5	5	5	6
12'-0"	6	7	7	8	9	9	4	4	4	4	4	4	4	4	4	4	4	5
13'-0"	6	6	7	7	8	9	4	4	4	4	4	4	4	4	4	4	4	5
14'-0"	6	6	6	7	7	8	8	-	4	4	4	4	4	4	4	4	4	5
15'-0"	5	6	6	7	7	8	-	-	4	4	4	4	4	4	4	4	4	5
16'-0"	5	5	6	6	7	7	8	-	-	-	4	4	4	4	4	4	4	5
17'-0"	5	5	6	6	7	7	-	-	-	-	4	4	4	4	4	4	4	4
18'-0"	5	5	5	6	6	7	-	-	-	-	-	4	4	4	4	4	4	4
19'-0"	4	5	5	5	6	7	-	-	-	-	-	-	4	4	4	4	4	4

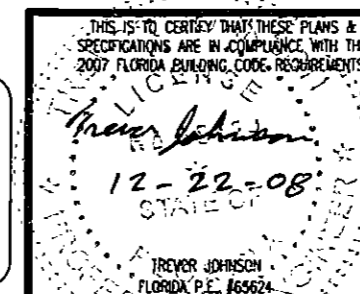
MAXIMUM FASTENER SPACING OF A GROMMET SCREEN FOR ANY LENGTH ATTACHED WITH 1/4" ELCO PANELMATE PRO, PLUS, FEMALE, TVAS OR 1/4" ITW SAMMYS & STORM GUARD (INCHES)																		
SCREEN SPANS UP TO	CONC. & FILLED CMU						HOLLOW CMU						TIMBER					
	PRESSURE (PSF)						PRESSURE (PSF)						PRESSURE (PSF)					
	60	55	50	45	40	35	60	55	50	45	40	35	60	55	50	45	40	35
5'-0"	12	12	12	12	12	12	9	9	10	11	12	12	12	12	12	12	12	12
6'-0"	12	12	12	12	12	12	8	8	9	9	10	11	12	12	12	12	12	12
7'-0"	11	12	12	12	12	12	7	7	8	8	9	10	11	11	12	12	12	12
8'-0"	10	11	12	12	12	12	6	7	7	8	8	9	10	10	11	12	12	12
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10'-0"	9	9	10	11	12	12	5	5	6	6	7	8	8	9	9	10	11	12
11'-0"	8	9	9	10	11	12	5	5	5	6	7	7	7	8	9	9	10	11
12'-0"	8	8	9	10	10	11	4	5	5	6	6	7	7	7	8	9	10	11
13'-0"	7	8	8	9	10	11	4	4	5	5	6	6	7	7	8	8	9	10
14'-0"	7	7	8	8	9	10	4	4	5	5	5	6	6	7	7	8	8	9
15'-0"	6	7	7	8	9	10	4	4	4	5	5	6	6	6	7	7	8	9
16'-0"	6	7	7	8	8	9	3	4	4	4	5	5	6	6	6	7	8	8
17'-0"	6	6	7	7	8	9	3	4	4	4	5	5	6	6	6	7	7	8
18'-0"	6	6	6	7	8	8	3	3	4	4	4	5	5	5	6	6	7	8
19'-0"	5	6	6	7	7	8	3	3	4	4	4	5	5	5	6	6	7	7

MAXIMUM FASTENER SPACING OF A GROMMET SCREEN FOR ANY LENGTH ATTACHED WITH 1/4"-20 ALL POINTS WOOD BUSHING (INCHES)							
SCREEN SPANS UP TO	TIMBER						
	PRESSURE (PSF)						
	50	45	40	35	30	25	
4'-0"	9	9	10	11	12	12	
5'-0"	7	8	9	10	11	12	
6'-0"	6	7	8	8	9	11	
7'-0"	6	6	7	7	8	10	
8'-0"	5	5	6	7	8	9	
9'-0"	5	5	6	6	7	8	
10'-0"	4	5	5	6	6	7	
11'-0"	4	4	5	5	6	7	
12'-0"	4	4	4	5	6	6	
13'-0"	3	4	4	5	5	6	
14'-0"	3	3	4	4	5	6	
15'-0"	-	3	4	4	5	5	
16'-0"	-	-	3	4	4	5	
17'-0"	-	-	3	4	4	5	
18'-0"	-	-	-	3	4	5	

MAXIMUM FASTENER SPACING OF A GROMMET SCREEN FOR ANY LENGTH ATTACHED WITH 1/4"-20 ALL POINTS TRACK BOLT OR STUD (INCHES)							
SCREEN SPANS UP TO	ALUMINUM TRACK						
	PRESSURE (PSF)						
	60	55	50	45	40	35	
5'-0"	11	12	12	12	12	12	
6'-0"	10	11	11	12	12	12	
7'-0"	9	10	10	11	12	12	
8'-0"	8	9	9	10	11	12	
9'-0"	7	8	9	9	10	11	
10'-0"	7	7	8	9	9	10	
11'-0"	6	7	7	8	9	10	
12'-0"	6	6	7	7	8	9	
13'-0"	6	6	6	7	8	8	
14'-0"	5	6	6	7	7	8	
15'-0"	5	5	6	6	7	8	
16'-0"	5	5	5	6	7	7	
17'-0"	5	5	5	6	6	7	
18'-0"	4	5	5	5	6	7	
19'-0"	4	4	5	5	6	6	

LOADS AND FASTENING SCHEDULES ARE FOR
ATTACHING THE GROMMETS, "F" TRACKS, OR STUDDED
TRACKS TO THE EXISTING STRUCTURE AND THE
GROMMETS TO "F" TRACKS OR STUDDED TRACKS

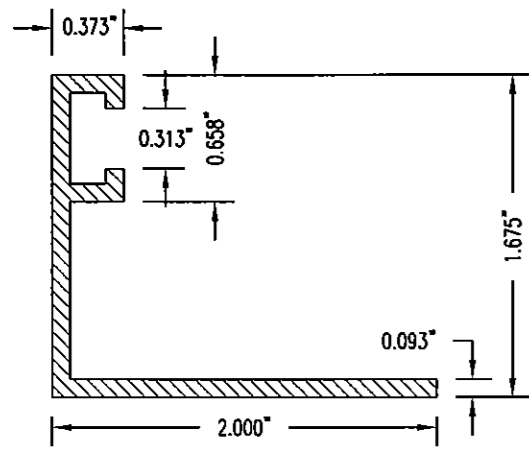
ENGINEERING REVIEW BY:
TREVOR JOHNSON, P.E.
FLORIDA LICENSE NUMBER: 65624
ARNOLD/SANDERS CONSULTING ENGINEERS, INC.
16681 MCGREGOR BLVD., SUITE 102
FORT MYERS, FL 33908
PHONE: (239) 267-3666
CERTIFICATE OF AUTHORIZATION: #9451



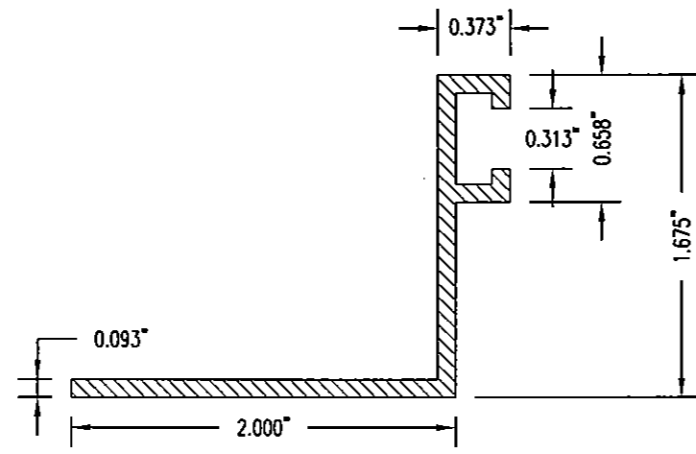
STORM CATCHER
WIND ABATEMENT SYSTEM

STORM SMART INDUSTRIES Ph: (239) 938-1000
6182 IDLEWILD STREET, www.StormSmart.com
FORT MYERS, FL 33966 www.StormCatcher.com

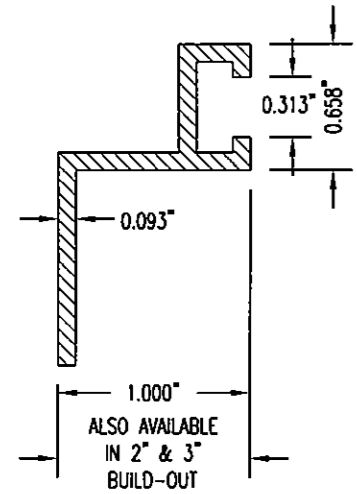
DATE: 12/22/08 DWG. No.: 8 REV.: 1
SCALE: N.T.S. SHEET: 8 OF 12



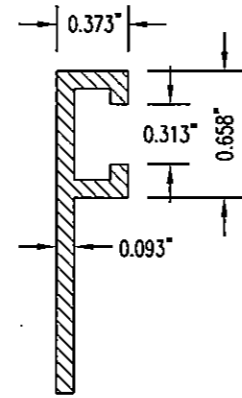
ANGLED "F" TRACK
6063-T6 ALUMINUM - SCALE= 1:1



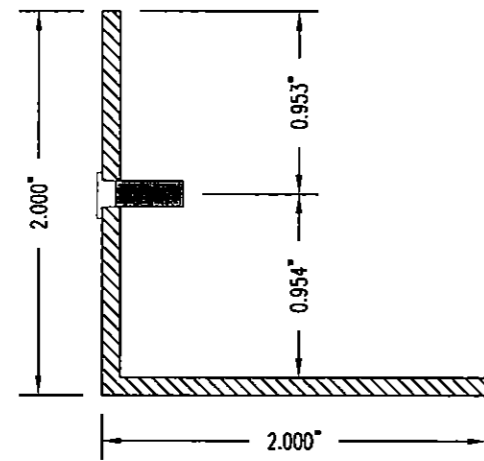
REVERSE ANGLED "F" TRACK
6063-T6 ALUMINUM - SCALE= 1:1



BUILD-OUT "F" TRACK
6063-T6 ALUMINUM - SCALE= 1:1
ALSO AVAILABLE
IN 2" & 3"
BUILD-OUT



STANDARD "F" TRACK
6063-T6 ALUMINUM - SCALE= 1:1



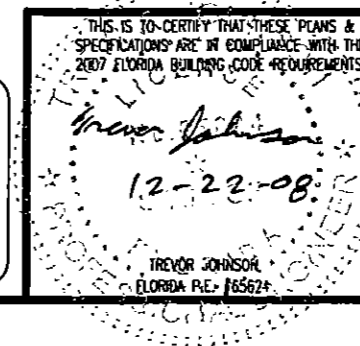
STUDDED ANGLE TRACK
6063-T6 ALUMINUM - SCALE= 1:1

MAXIMUM FASTENER SPACING OF A GROMMET SCREEN FOR ANY LENGTH ATTACHED WITH 1/4" HFH ELCO ULTRACON (INCHES)																		
SCREEN SPANS UP TO	CONC. & FILLED CMU						HOLLOW CMU						TIMBER					
	PRESSURE (PSF)						PRESSURE (PSF)						PRESSURE (PSF)					
5'-0"	60	55	50	45	40	35	60	55	50	45	40	35	60	55	50	45	40	35
6'-0"	12	12	12	12	12	12	9	9	10	11	12	12	9	9	10	11	12	12
7'-0"	12	12	12	12	12	12	7	8	9	9	10	11	7	8	9	9	10	11
8'-0"	11	12	12	12	12	12	7	7	8	8	9	10	7	7	8	8	9	10
9'-0"	10	11	12	12	12	12	6	6	7	7	8	9	6	6	7	7	8	9
10'-0"	9	10	11	12	12	12	5	6	6	7	7	8	5	6	6	7	7	8
11'-0"	9	9	10	11	12	12	5	5	6	6	7	8	5	5	6	6	7	8
12'-0"	8	9	9	10	11	12	5	5	5	6	6	7	5	5	5	6	6	7
13'-0"	8	8	9	9	10	11	4	5	5	5	6	7	4	5	5	5	6	7
14'-0"	7	8	8	9	10	11	4	4	5	5	6	6	4	4	5	5	6	6
15'-0"	7	7	8	8	9	10	4	4	4	5	5	6	4	4	4	5	5	6
16'-0"	6	7	7	8	9	10	4	4	4	5	5	6	4	4	4	5	5	6
17'-0"	6	6	7	8	8	9	3	4	4	4	5	5	3	4	4	4	5	5
18'-0"	6	6	7	8	8	9	3	4	4	4	5	5	3	4	4	4	5	5
19'-0"	5	6	6	7	8	8	3	3	4	4	4	5	3	3	4	4	4	5
19'-0"	5	6	6	7	7	8	3	3	3	4	4	5	3	3	3	4	4	5

MAXIMUM FASTENER SPACING OF A GROMMET SCREEN FOR ANY LENGTH ATTACHED WITH 5/16" HFH ELCO ULTRACON (INCHES)																		
SCREEN SPANS UP TO	CONC. & FILLED CMU						HOLLOW CMU						TIMBER					
	PRESSURE (PSF)						PRESSURE (PSF)						PRESSURE (PSF)					
5'-0"	60	55	50	45	40	35	60	55	50	45	40	35	60	55	50	45	40	35
6'-0"	12	12	12	12	12	12	10	10	11	12	12	12	12	12	12	12	12	12
7'-0"	12	12	12	12	12	12	8	9	10	10	11	12	12	12	12	12	12	12
8'-0"	12	12	12	12	12	12	7	8	9	9	10	11	11	12	12	12	12	12
9'-0"	12	12	12	12	12	12	6	7	7	8	8	9	9	10	11	11	12	12
10'-0"	12	12	12	12	12	12	6	6	7	7	8	9	9	9	10	11	12	12
11'-0"	12	12	12	12	12	12	5	6	6	7	7	8	8	8	9	10	11	12
12'-0"	12	12	12	12	12	12	5	5	6	6	7	7	7	8	9	9	10	11
13'-0"	12	12	12	12	12	12	5	5	5	6	6	7	7	7	8	9	9	10
14'-0"	12	12	12	12	12	12	4	5	5	5	6	7	7	7	8	8	9	10
15'-0"	11	12	12	12	12	12	4	4	5	5	6	6	6	7	7	8	9	9
16'-0"	11	11	12	12	12	12	4	4	5	5	5	6	6	6	7	7	8	9
17'-0"	10	11	12	12	12	12	4	4	4	5	5	6	6	6	7	7	8	9
18'-0"	10	10	11	12	12	12	4	4	4	4	5	5	5	6	6	7	7	8
19'-0"	9	10	11	12	12	12	3	4	4	4	5	5	5	6	6	6	7	8

LOADS AND FASTENING SCHEDULES ARE FOR ATTACHING "F" TRACKS OR STUDDED TRACKS TO THE EXISTING STRUCTURE

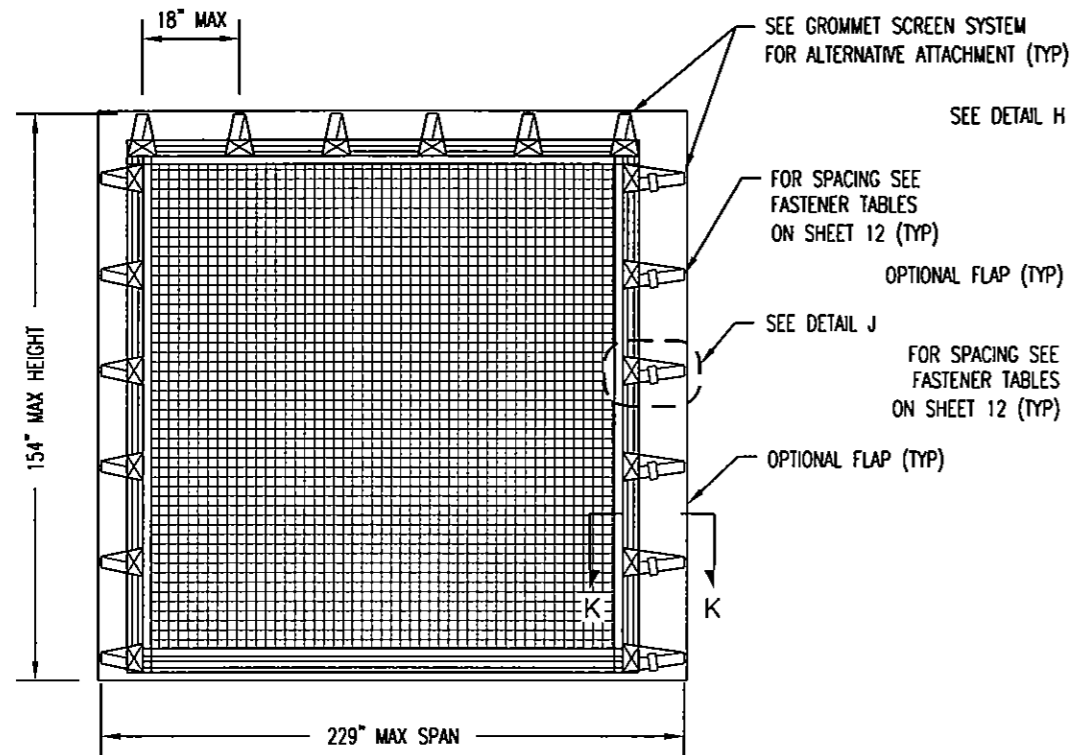
ENGINEERING REVIEW BY:
TREVOR JOHNSON, P.E.
FLORIDA LICENSE NUMBER: 65624
ARNOLD/SANDERS CONSULTING ENGINEERS, INC.
16681 MCGREGOR BLVD., SUITE 102
FORT MYERS, FL 33908
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CERTIFICATE OF AUTHORIZATION: #9451



**STORM CATCHER
WIND ABATEMENT SYSTEM**

STORM SMART INDUSTRIES Ph: (239) 938-1000
6182 IDLEWILD STREET, www.StormSmart.com
FORT MYERS, FL 33966 www.StormCatcher.com

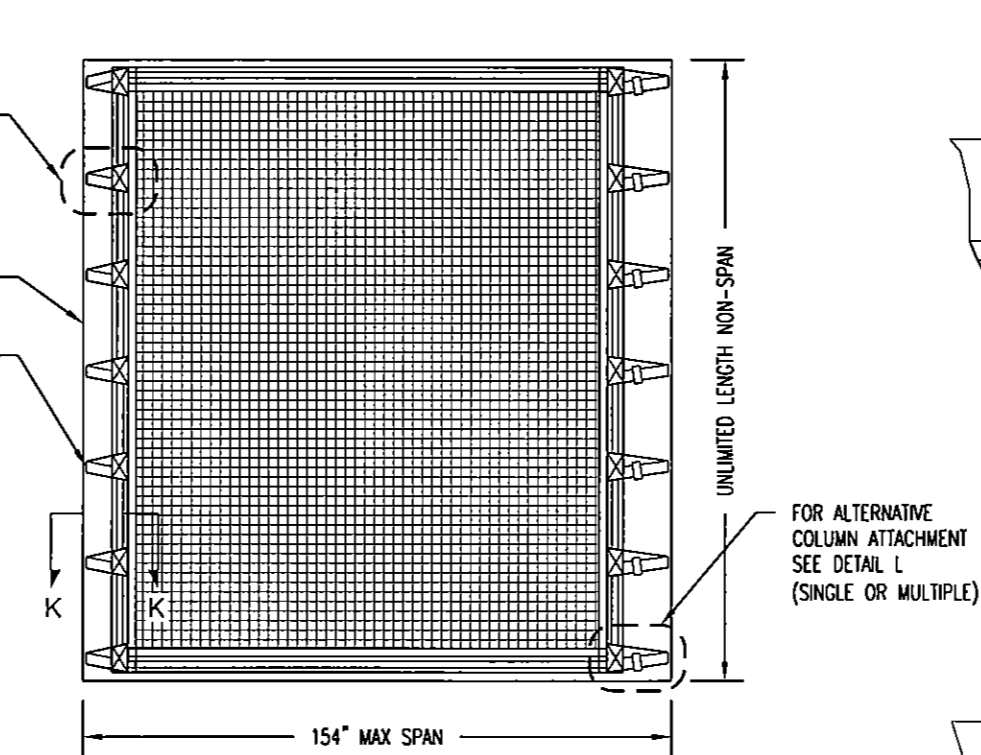
DATE: 12/22/08 DWG. No.: 9 REV.: 1
SCALE: N.T.S. SHEET: 9 OF 12



NOTE: FOR 4 SIDED ATTACHMENT THE SPAN IS IN THE SHORT DIMENSION BETWEEN FASTENERS

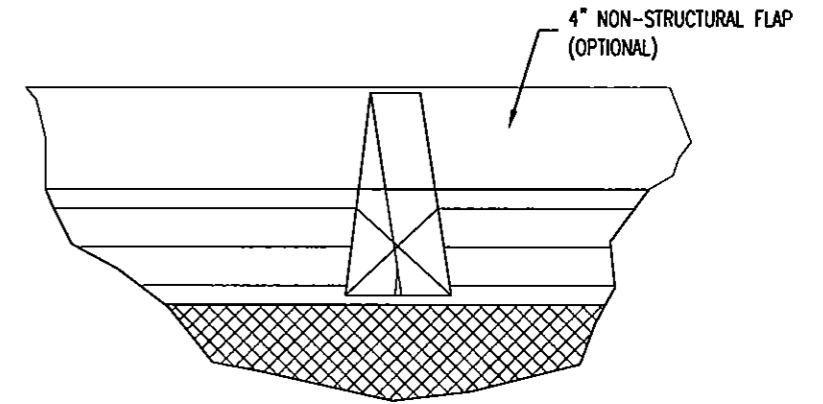
STRAP SCREEN SINGLE PANEL ELEVATION

3 OR 4 SIDED ATTACHMENT INSTALLATION - N.T.S.



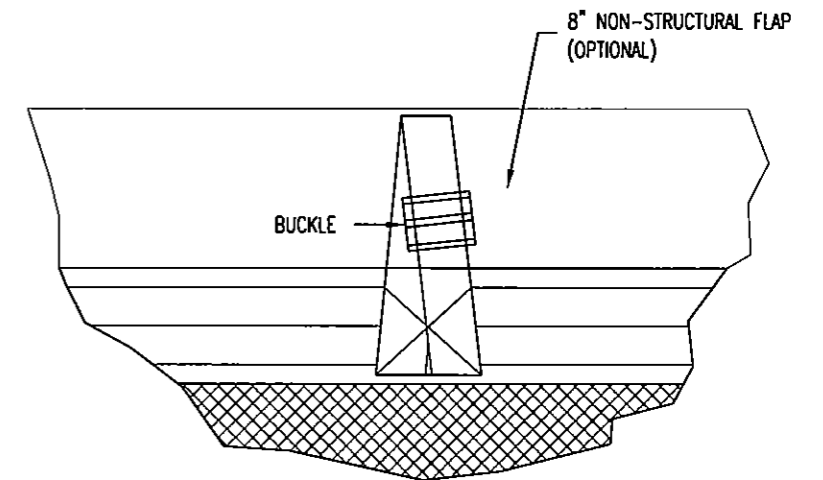
STRAP SCREEN SINGLE PANEL ELEVATION

TYPICAL 2 SIDED ATTACHMENT - VERTICAL OR HORIZONTAL INSTALLATION - N.T.S.



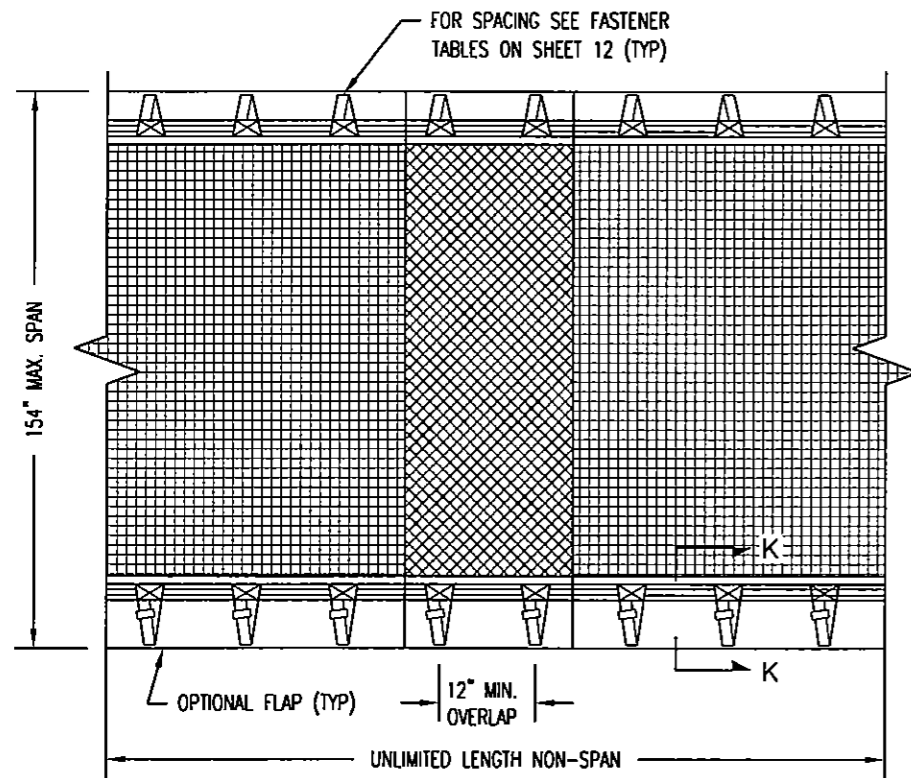
DETAIL- H

FIXED STRAP DETAIL- N.T.S.



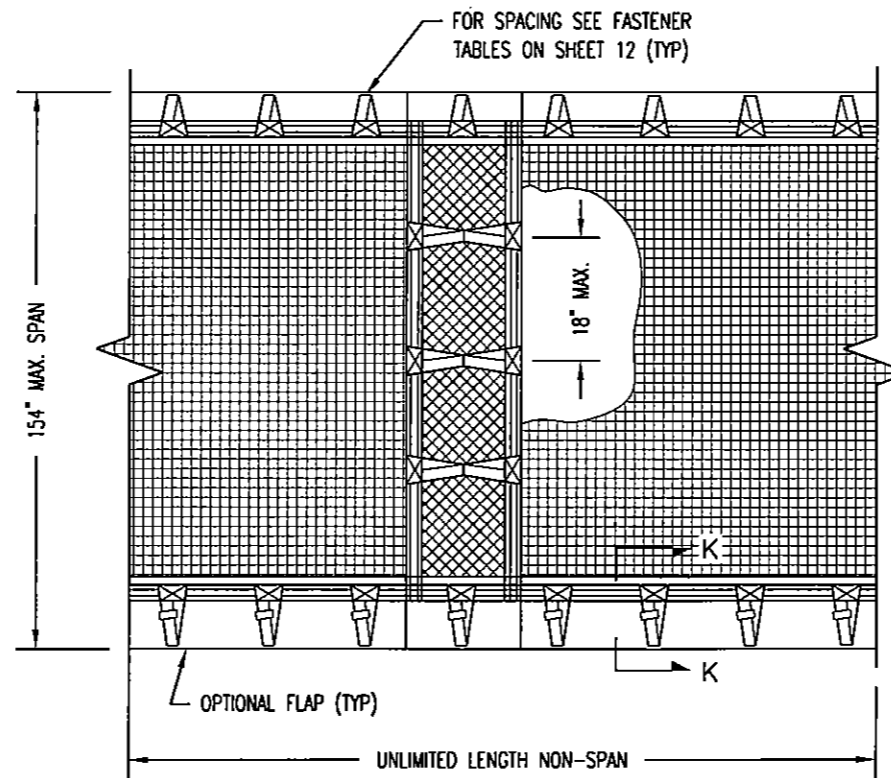
DETAIL- J

ADJUSTABLE STRAP DETAIL - N.T.S.



STRAP SCREEN MULTIPLE PANEL ELEVATION

LAPPED SCREEN - VERTICAL OR HORIZONTAL INSTALLATION - N.T.S.



STRAP SCREEN MULTIPLE PANEL ELEVATION

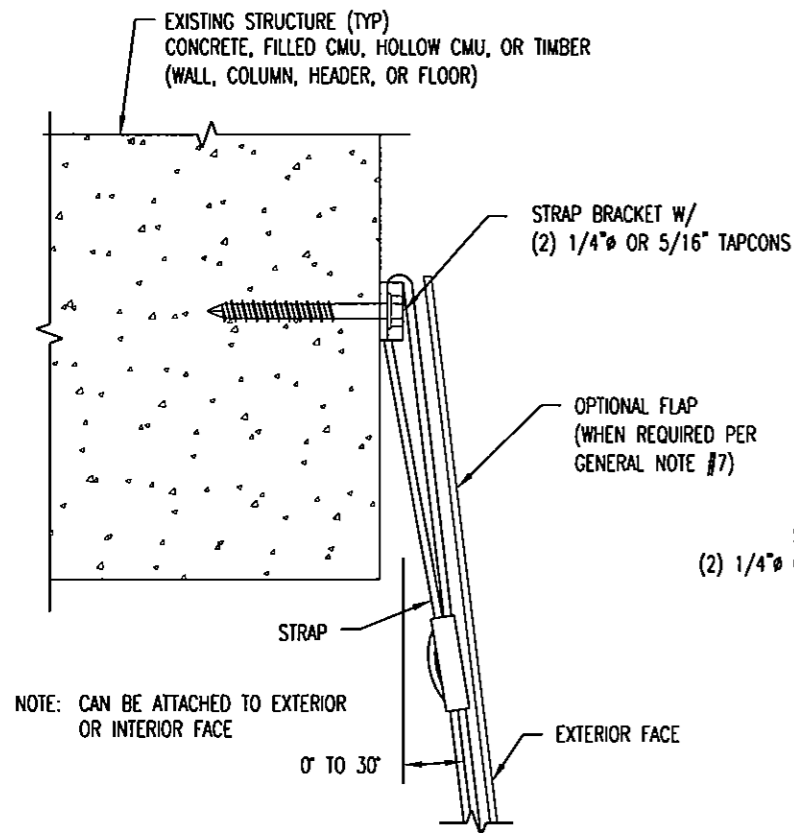
COLUMN ATTACHED - VERTICAL OR HORIZONTAL INSTALLATION - N.T.S.

ENGINEERING REVIEW BY:
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16681 MCGREGOR BLVD., SUITE 102
FORT MYERS, FL 33908
PHONE: (239) 267-3666
CERTIFICATE OF AUTHORIZATION: #9451

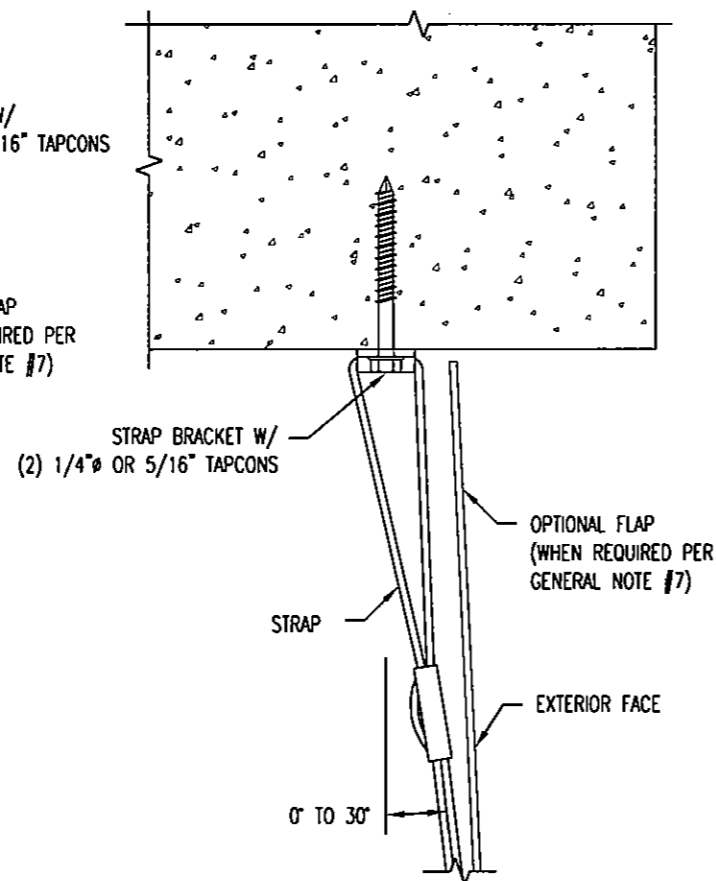
THIS IS TO CERTIFY THAT THESE PLANS & SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2007 FLORIDA BUILDING CODE REQUIREMENTS.

Trevor Johnson
12-22-08
TREVOR JOHNSON
FLORIDA P.E. #65624

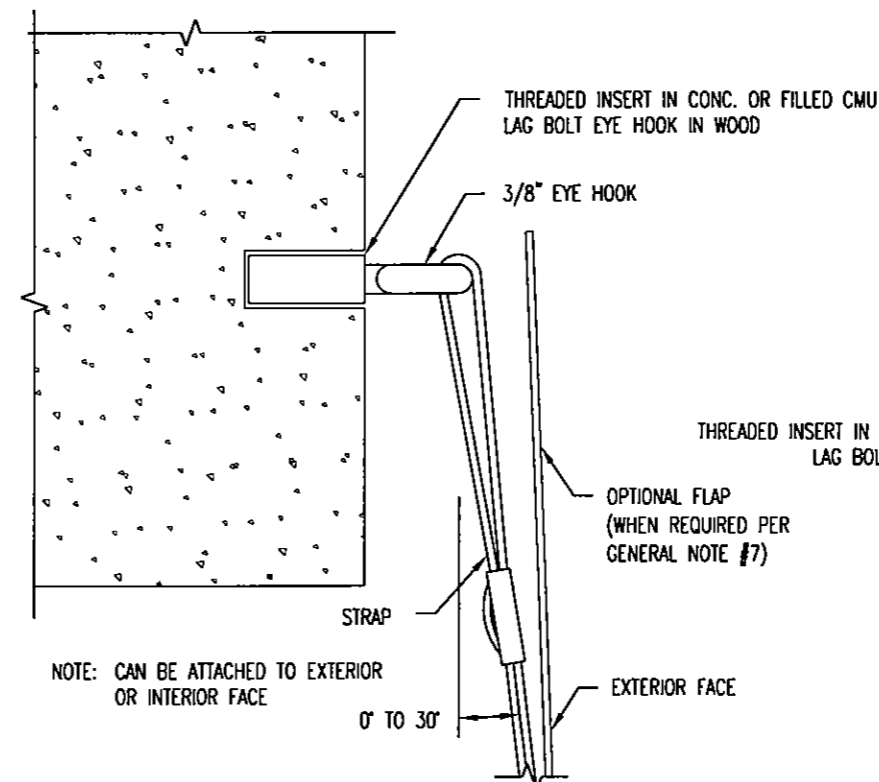
STORM CATCHER WIND ABATEMENT SYSTEM		
STORM SMART INDUSTRIES 6182 IDLEWILD STREET, FORT MYERS, FL 33966	Ph: (239) 938-1000 www.StormSmart.com www.StormCatcher.com	
DATE: 12/22/08	DWG. No.: 10	REV.: 1
SCALE: N.T.S.	SHEET: 10 OF 12	



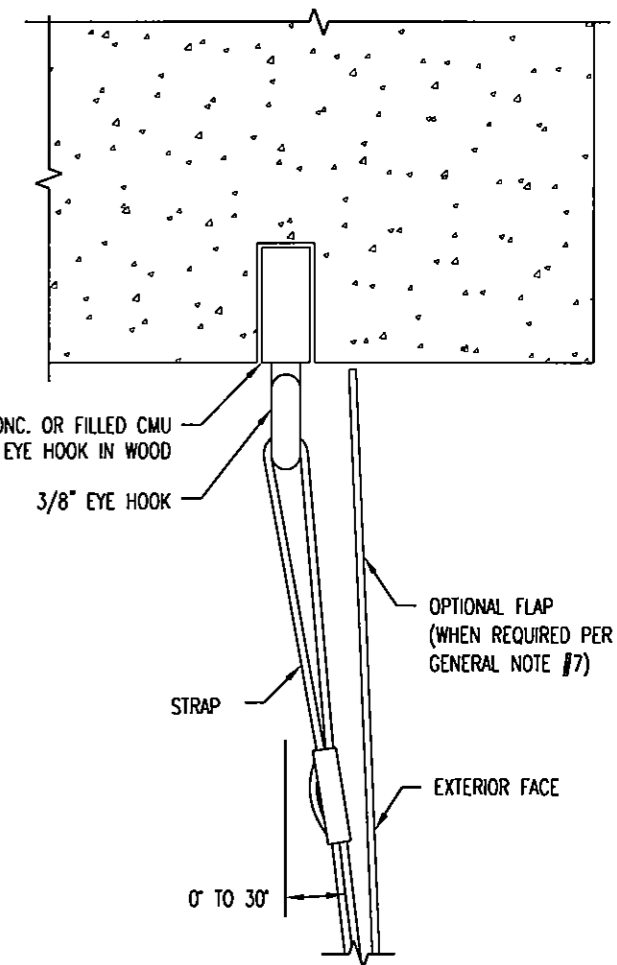
SECTION K-K (OPTION 1)
STRAP SYSTEM OUTSIDE MOUNT INSTALLATION - N.T.S.



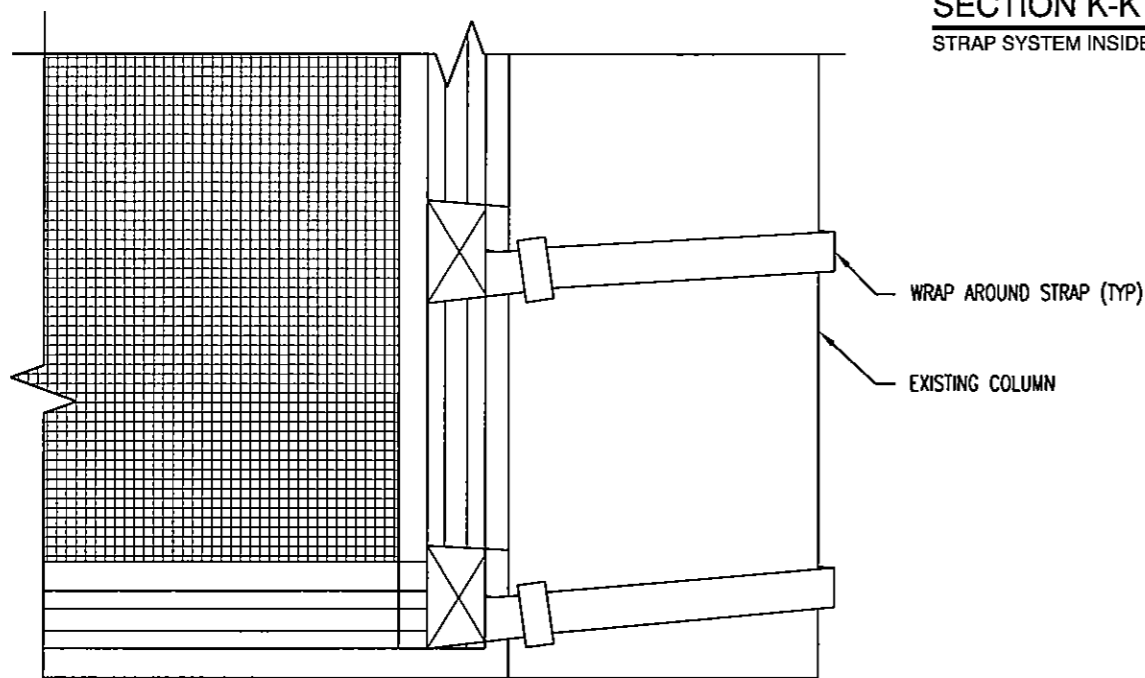
SECTION K-K (OPTION 2)
STRAP SYSTEM INSIDE MOUNT INSTALLATION - N.T.S.



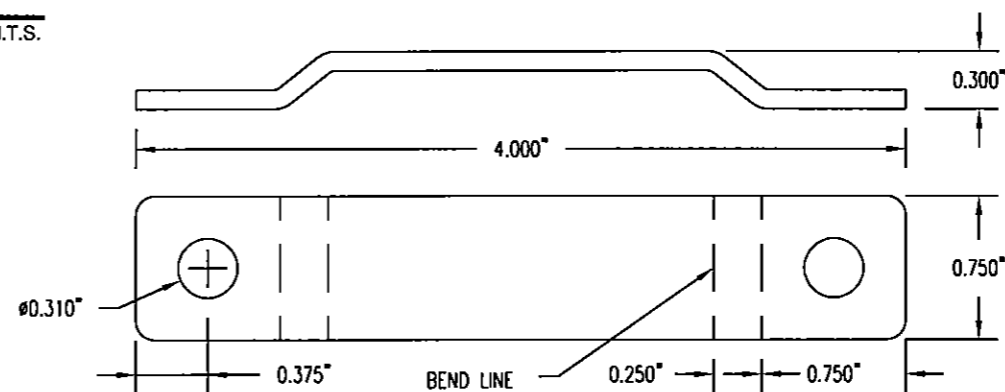
SECTION K-K (OPTION 3)
STRAP SYSTEM OUTSIDE MOUNT INSTALLATION - N.T.S.



SECTION K-K (OPTION 4)
STRAP SYSTEM INSIDE MOUNT INSTALLATION - N.T.S.



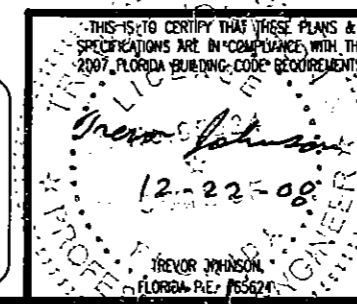
DETAIL L (OPTIONAL)
STRAP SYSTEM COLUMN MOUNT INSTALLATION - N.T.S.



STRAP BRACKET

304 STAINLESS STEEL - SCALE= 1:1

ENGINEERING REVIEW BY:
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FORT MYERS, FL 33908
PHONE: (239) 267-3666
CERTIFICATE OF AUTHORIZATION: #9451



STORM CATCHER WIND ABATEMENT SYSTEM		
STORM SMART INDUSTRIES 6182 IDLEWILD STREET, FORT MYERS, FL 33966		Ph: (239) 938-1000 www.StormSmart.com www.StormCatcher.com
DATE: 12/22/08	DWG. No.: 11	REV.: 1
SCALE: N.T.S.	SHEET: 11 OF 12	

MAXIMUM FASTENER SPACING OF A STRAP SCREEN FOR ANY LENGTH ATTACHED WITH STRAP BRACKETS AND (2) 1/4" ELCO ULTRACONS (INCHES)																		
SCREEN SPANS UP TO	CONC. & FILLED CMU						HOLLOW CMU						TIMBER					
	PRESSURE (PSF)						PRESSURE (PSF)						PRESSURE (PSF)					
	60	55	50	45	40	35	60	55	50	45	40	35	60	55	50	45	40	35
5'-0"	18	18	18	18	18	18	15	16	17	18	18	18	15	16	17	18	18	18
6'-0"	18	18	18	18	18	18	13	14	15	16	18	18	13	14	15	16	17	18
7'-0"	18	18	18	18	18	18	12	12	13	14	16	17	12	12	13	14	16	17
8'-0"	18	18	18	18	18	18	11	11	12	13	14	16	10	11	12	13	14	16
9'-0"	16	18	18	18	18	18	10	10	11	12	13	14	10	10	11	12	13	14
10'-0"	15	16	17	18	18	18	9	10	10	11	12	13	9	9	10	11	12	13
11'-0"	14	15	16	18	18	18	8	9	10	10	11	12	8	9	9	10	11	12
12'-0"	13	14	15	16	18	18	8	8	9	10	11	12	8	8	9	10	10	12
13'-0"	12	13	14	15	17	18	7	8	8	9	10	11	7	8	8	9	10	11
14'-0"	12	13	13	15	16	18	7	7	8	9	9	10	7	7	8	8	9	10
15'-0"	11	12	13	14	15	17	7	7	8	8	9	10	6	7	7	8	9	10
16'-0"	11	11	12	13	14	16	6	7	7	8	8	9	6	7	7	8	8	9
17'-0"	10	11	12	13	14	15	6	6	7	7	8	9	6	6	7	7	8	9
18'-0"	10	10	11	12	13	15	6	6	7	7	8	9	6	6	6	7	8	9
19'-0"	9	10	11	12	13	14	5	6	6	7	7	8	5	6	6	7	7	8

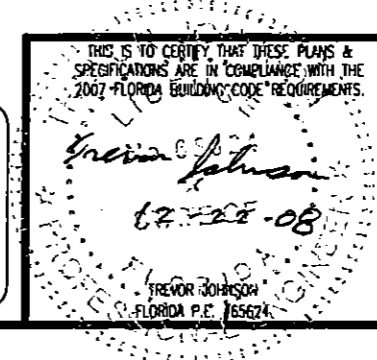
MAXIMUM FASTENER SPACING OF A STRAP SCREEN FOR ANY LENGTH ATTACHED WITH 3/8" EYE-HOOKS W/ ITW MULTI-SET II (INCHES)							
SCREEN SPANS UP TO	CONC. & FILLED CMU						
	PRESSURE (PSF)						
	60	55	50	45	40	35	
8'-0"	18	18	18	18	18	18	18
9'-0"	17	18	18	18	18	18	18
10'-0"	16	17	18	18	18	18	18
11'-0"	15	16	17	18	18	18	18
12'-0"	14	15	16	17	18	18	18
13'-0"	13	14	15	16	18	18	18
14'-0"	12	13	14	15	17	18	18
15'-0"	12	12	13	15	16	18	18
16'-0"	11	12	13	14	15	17	18
17'-0"	11	11	12	13	14	16	18
18'-0"	10	11	12	13	14	15	18
19'-0"	10	10	11	12	13	15	18

MAXIMUM FASTENER SPACING OF A STRAP SCREEN FOR ANY LENGTH ATTACHED WITH STRAP BRACKETS AND (2) 5/16" ELCO ULTRACONS (INCHES)																		
SCREEN SPANS UP TO	CONC. & FILLED CMU						HOLLOW CMU						TIMBER					
	PRESSURE (PSF)						PRESSURE (PSF)						PRESSURE (PSF)					
	60	55	50	45	40	35	60	55	50	45	40	35	60	55	50	45	40	35
5'-0"	18	18	18	18	18	18	17	18	18	18	18	18	18	18	18	18	18	18
6'-0"	18	18	18	18	18	18	15	16	17	18	18	18	18	18	18	18	18	18
7'-0"	18	18	18	18	18	18	13	14	15	16	18	18	18	18	18	18	18	18
8'-0"	18	18	18	18	18	18	12	13	14	15	16	18	17	18	18	18	18	18
9'-0"	18	18	18	18	18	18	11	12	12	13	15	16	16	17	18	18	18	18
10'-0"	18	18	18	18	18	18	10	11	11	12	14	15	15	16	17	18	18	18
11'-0"	18	18	18	18	18	18	9	10	11	12	13	14	14	15	16	17	18	18
12'-0"	18	18	18	18	18	18	9	9	10	11	12	13	13	14	15	16	17	18
13'-0"	18	18	18	18	18	18	8	9	9	10	11	12	12	13	14	15	16	18
14'-0"	18	18	18	18	18	18	8	8	9	10	11	12	12	12	13	14	16	17
15'-0"	18	18	18	18	18	18	7	8	8	9	10	11	11	12	13	14	15	16
16'-0"	18	18	18	18	18	18	7	7	8	9	10	11	10	11	12	13	14	16
17'-0"	18	18	18	18	18	18	7	7	8	8	9	10	10	11	11	12	14	15
18'-0"	17	18	18	18	18	18	6	7	7	8	9	10	10	10	11	12	13	14
19'-0"	16	17	18	18	18	18	6	7	7	8	8	9	9	10	11	11	12	14

MAXIMUM FASTENER SPACING OF A STRAP SCREEN FOR ANY LENGTH ATTACHED WITH 3/8" EYE-HOOKS W/ POWERS DROPIN, CALK-IN, OR LAG BOLT (INCHES)																		
SCREEN SPANS UP TO	CONC. & FILLED CMU						HOLLOW CMU						TIMBER					
	PRESSURE (PSF)						PRESSURE (PSF)						PRESSURE (PSF)					
	60	55	50	45	40	35	60	55	50	45	40	35	60	55	50	45	40	35
5'-0"	18	18	18	18	18	18	11	12	13	14	15	16	10	11	12	12	13	15
6'-0"	17	18	18	18	18	18	10	10	11	12	13	14	9	9	10	11	12	13
7'-0"	15	16	17	18	18	18	9	9	10	11	12	13	8	8	9	10	11	12
8'-0"	14	15	16	17	18	18	8	8	9	10	10	12	7	8	8	9	10	11
9'-0"	12	13	14	15	17	18	7	8	8	9	10	11	7	7	8	8	9	10
10'-0"	11	12	13	14	16	17	7	7	8	8	9	10	6	6	7	8	8	9
11'-0"	11	11	12	13	14	16	6	7	7	8	8	9	6	6	6	7	8	8
12'-0"	10	11	11	12	14	15	6	6	7	7	8	9	5	6	6	7	7	8
13'-0"	9	10	11	12	13	14	5	6	6	7	7	8	5	5	6	6	7	7
14'-0"	9	9	10	11	12	13	5	5	6	6	7	8	5	5	5	6	6	7
15'-0"	8	9	10	10	11	13	5	5	6	6	7	7	4	5	5	6	6	7
16'-0"	8	9	9	10	11	12	5	5	5	6	6	7	4	5	5	5	6	6
17'-0"	8	8	9	10	10	12	4	5	5	5	6	7	4	4	5	5	6	6
18'-0"	7	8	8	9	10	11	4	4	5	5	6	6	4	4	4	5	5	6
19'-0"	7	7	8	9	10	11	4	4	5	5	5	6	4	4	4	5	5	6

LOADS AND FASTENING SCHEDULES ARE FOR ATTACHING STRAPS TO THE EXISTING STRUCTURE

ENGINEERING REVIEW BY:
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STORM CATCHER WIND ABATEMENT SYSTEM		
STORM SMART INDUSTRIES 6182 IDLEWILD STREET, FORT MYERS, FL 33966	Ph: (239) 938-1000 www.StormSmart.com www.StormCatcher.com	
DATE: 12/22/08	DWG. No.: 12	REV.: 1
SCALE: N.T.S.	SHEET: 12 OF 12	