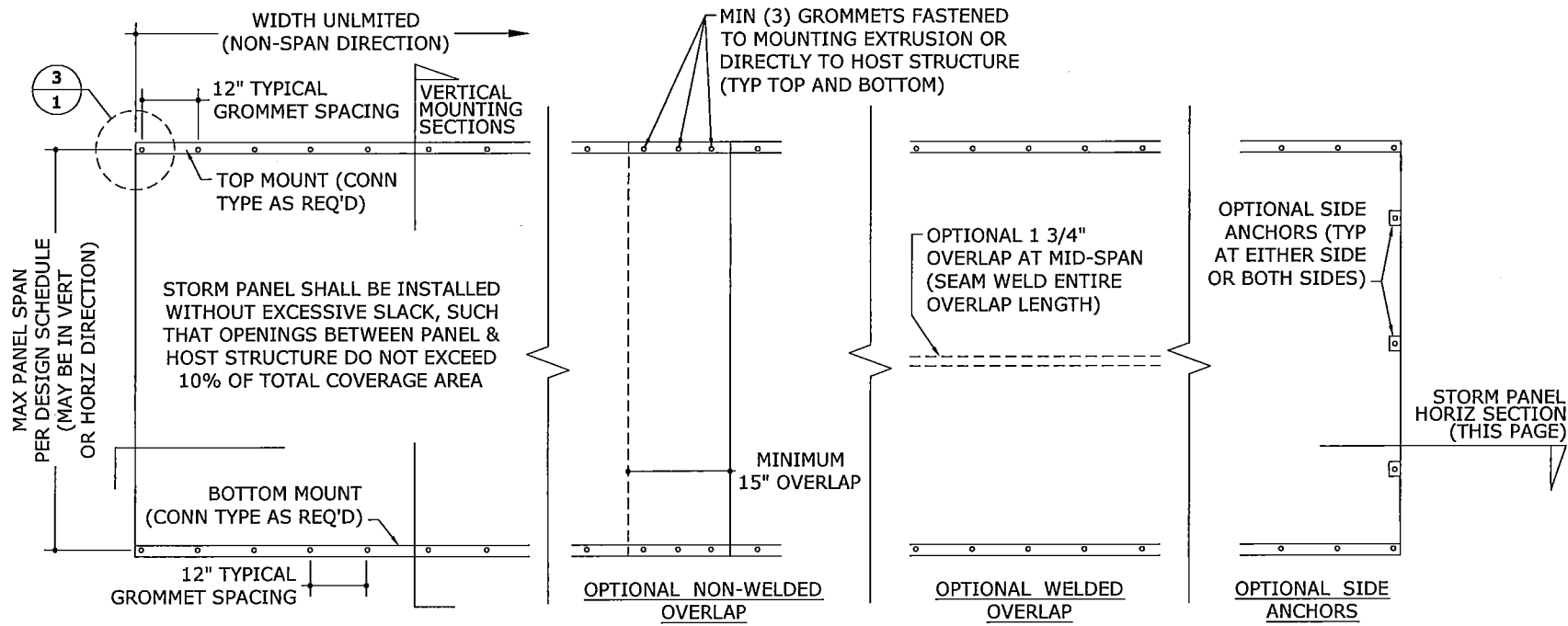
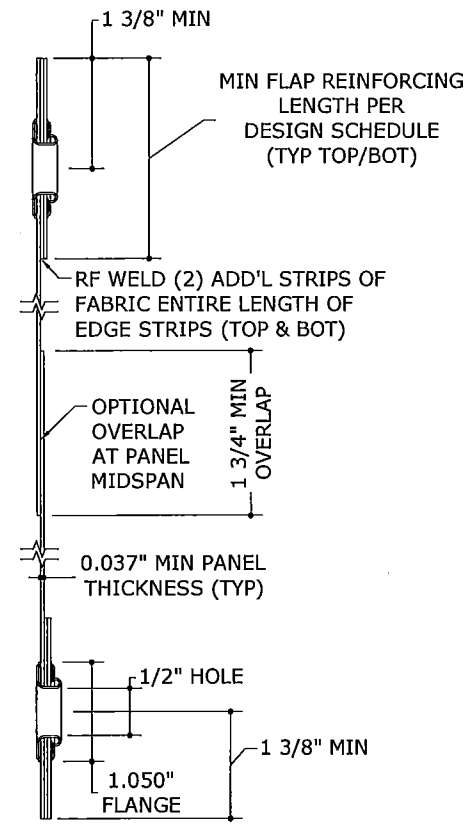


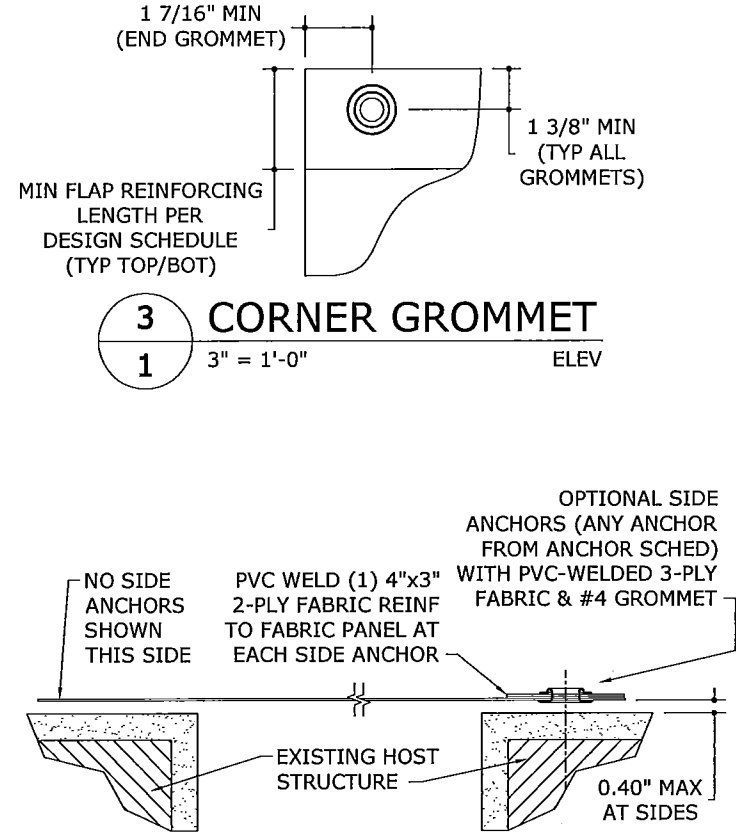
# FABRIC-SHIELD™ STORM PANEL



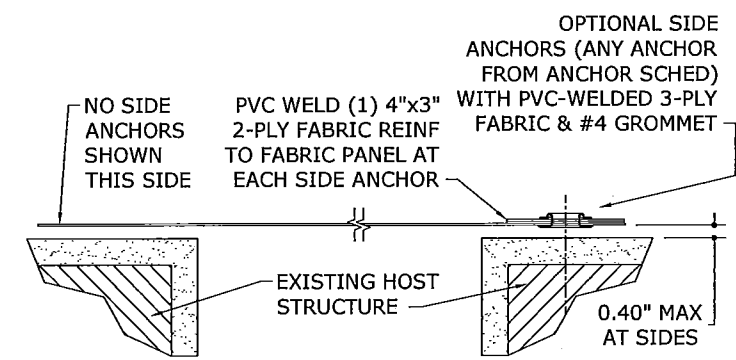
**1** TYPICAL VERTICAL MOUNT  
1 N.T.S. ELEV



**2** PANEL PROFILE  
1 6" = 1'-0"



**3** CORNER GROMMET  
1 3" = 1'-0" ELEV



**4** HORIZONTAL SECTION  
1 N.T.S. HORIZ SECTION

## DESIGN SCHEDULE:

MAX ALLOWABLE SPAN	MIN FLAP REINFORCING LENGTH	ALLOWABLE PRESSURES				DESIGN LOADS	
		DIRECT MOUNT		TRACK MOUNT		TENSION	SHEAR
108"	2-1/8"	+62 PSF	-66 PSF	+62 PSF	-60 PSF	308 LB/FT	627 LB/FT
76-1/4"	6-3/8"	+96 PSF	-96 PSF	-	-	305 LB/FT	479 LB/FT
61"	6-3/8"	+119 PSF	-119 PSF	-	-	302 LB/FT	407 LB/FT
39"	6-3/8"	+128 PSF	-128 PSF	-	-	209 LB/FT	418 LB/FT

NOTE: 9.25" MINIMUM ALLOWABLE WIDTH (NON-SPAN DIMENSION)  
9.25" MINIMUM ALLOWABLE SPAN

## SPAN NOTES:

- ALLOWABLE PRESSURES SHALL NOT BE EXCEEDED.
- PANEL SPANS LONGER THAN MAXIMUM NOTED ABOVE ARE NOT ACCEPTABLE.
- PANEL SPANS LESS THAN MINIMUM NOTED ABOVE ARE NOT ACCEPTABLE.
- VALID FOR PANELS MOUNTED VERTICALLY OR HORIZONTALLY.

## GLASS SEPARATION SCHEDULE: \*AS APPLICABLE

SPANS UP TO	MINIMUM GLASS SEPARATION	
	INSTALLATIONS ≤ 30' ABOVE GRADE	INSTALLATIONS > 30' ABOVE GRADE
108"	21.0"	6.5"
76-1/4"	11.1"	3.1"
61"	11.1"	2.1"
39"	8.1"	1.2"

## GLASS SEPARATION SCHEDULE NOTES:

- SEPARATION FROM GLASS IS ONLY REQUIRED IN ESSENTIAL FACILITIES AND/OR WHEN THE AUTHORITY HAVING JURISDICTION SPECIFIES THE OPTIONAL PASS/FAIL CRITERIA AS SET FORTH IN ASTM E1996-09.
- GLASS SEPARATION SCHEDULE PROVIDES MINIMUM SEPARATION DISTANCE REQUIRED BETWEEN EXTERIOR FACE OF GLAZING (OR OTHER PRODUCT BEING PROTECTED) AND INTERIOR FACE OF INSTALLED STORM PANEL.

## GENERAL NOTES:

- THIS STORM PANEL SYSTEM HAS BEEN TESTED AND EVALUATED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE, FOR USE OUTSIDE FLORIDA'S HIGH VELOCITY HURRICANE ZONE (HVHZ) ONLY.
- TESTING WAS CONDUCTED IN ACCORDANCE WITH ASTM E330-02, E1886-02, E1996-02 & E1996-09 PROTOCOLS.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.
- 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 7-10 AND CHAPTER 1609 OF THE 2010 FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- THE SHUTTER SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
- STORM PANELS SHALL BE PVC COATED WOVEN POLYESTER FABRIC (THICKNESS  $t=0.037"$ ) WITH A MIN.  $F_u=16.053$  KSI.
- ALL EXTRUSIONS SHOWN SHALL BE 6063-T6 MIN. ALUMINUM ALLOY, U.O.N.
- PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER PANEL CONTAINING:  
WAYNE-DALTON, A DIVISION OF OVERHEAD DOOR CORP.  
PENSACOLA, FL  
ASTM E330, E1886 & E1996  
FLORIDA STATEWIDE APPROVAL
- PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE (i.e. WITH LINE OF ANCHORAGE IN VERTICAL DIRECTION).
- PANELS MAY BE INSTALLED WITH OPTIONAL SIDE ANCHORS AS DEPICTED HEREIN, HOWEVER SYSTEM PERFORMANCE IS BASED ON TESTING WITHOUT SIDE ANCHORS. TESTS SHOW A FAILURE LOAD OF 987 LBS FOR THE #4 GROMMET AND 4"x3" 3-PLY PVC-WELDED FABRIC CONSTRUCTION AT EACH SIDE ANCHOR (ANCHOR NOT CONSIDERED).
- ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI. INSTALLATION ANCHORS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION 5.2.1 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ALL DISSIMILAR MATERIALS SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE.
- ALL ACCEPTANCE CRITERIA HAVE BEEN MET FOR THIS SHUTTER AS A NON-POROUS SYSTEM, AS DEFINED IN ASTM E1996-02 & E1996-09.

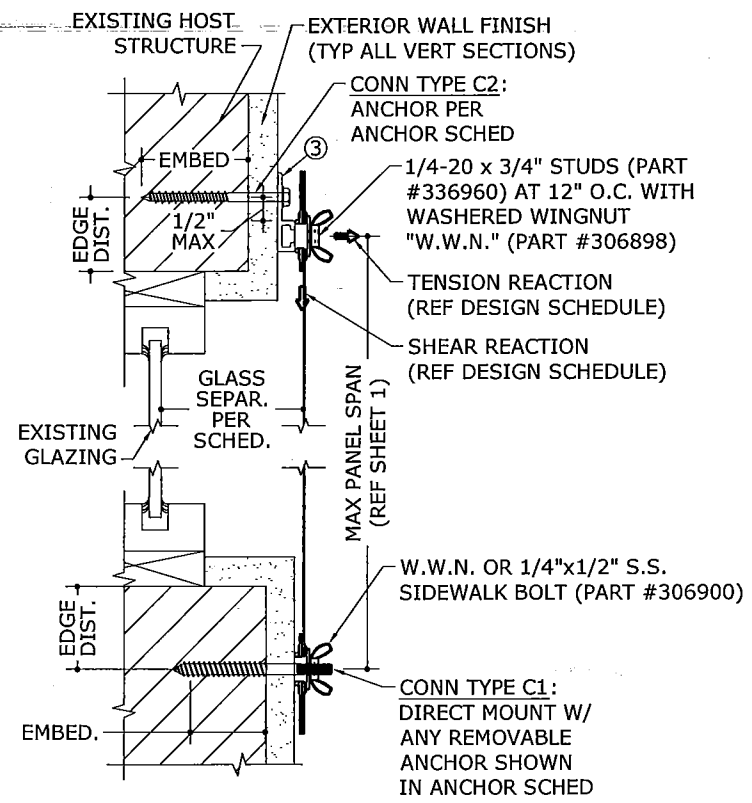
FRANK L. BENNARDO, P.E., INC. INNOVATION  
#A0046549  
08/30/2012  
PROFESSIONAL ENGINEERING  
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www.wayne-dalton.com

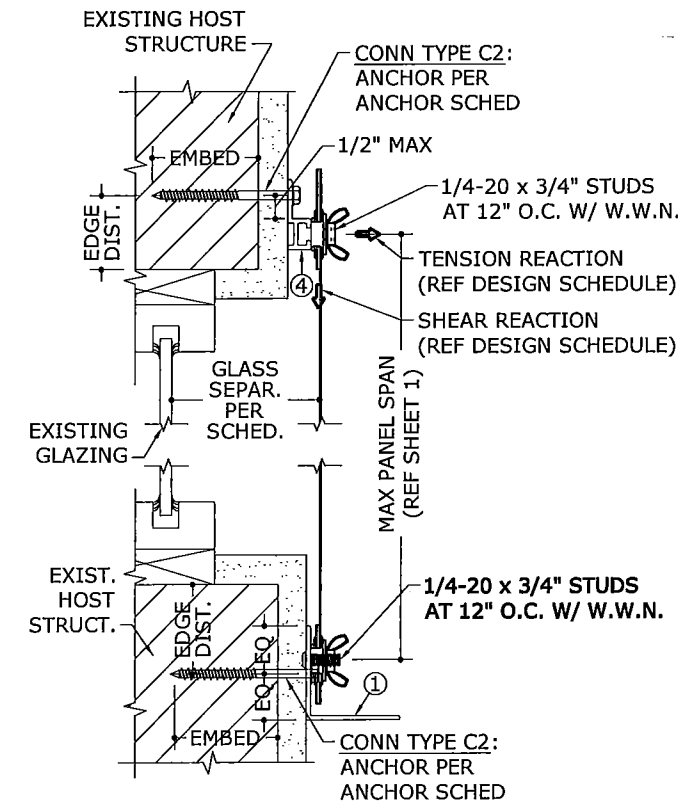
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REMARKS  
UNIT ISSUE 2010 FBC  
REV. FOR ASTM E 1996-09  
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OF 4

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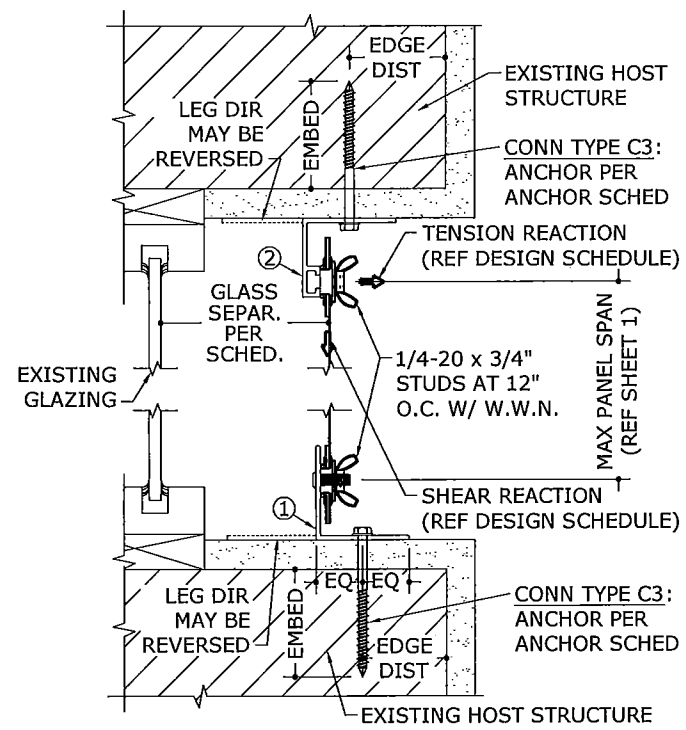
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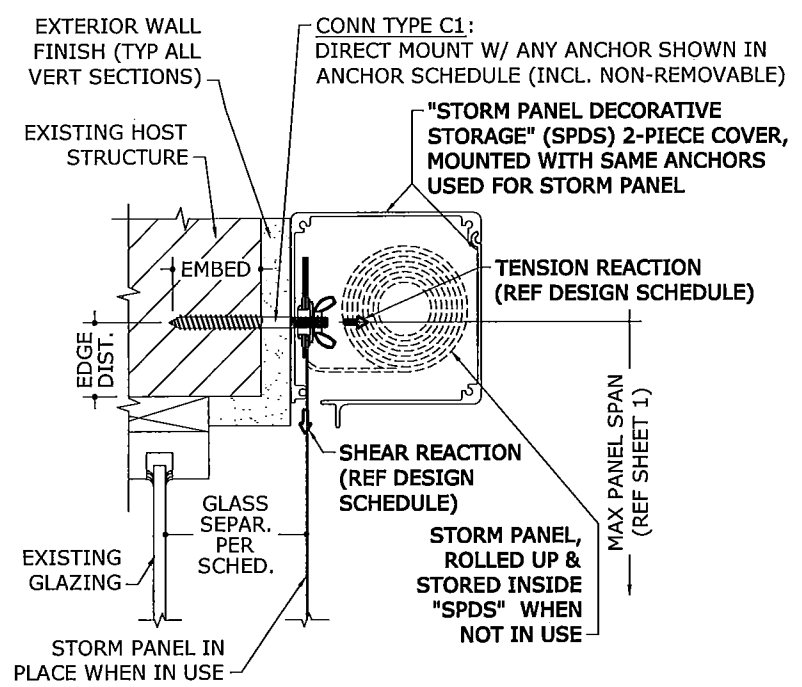
**1 MOUNTING SECTION**  
 2 3" = 1'-0" VERT SECTION



**2 MOUNTING SECTION**  
 2 3" = 1'-0" VERT SECTION



**3 MOUNTING SECTION**  
 2 3" = 1'-0" VERT SECTION



**"SPDS" SECTION (OPTIONAL)**  
 2 3" = 1'-0" VERT SECTION

## ANCHOR SCHEDULE 1

HOST STRUCT.	ANCHOR	LOAD (psf)	3/4" MIN EDGE DISTANCE (UNLESS OTHERWISE NOTED)									
			Spans Up To 4'-0"			Spans Up To 6'-0"			Spans Up To 9'-0"			
			CONN TYPE C1	C2	C3	CONN TYPE C1	C2	C3	CONN TYPE C1	C2	C3	
WOOD (G=0.55)	1/4" LAG SCREW WITH MIN 2-3/32" THREAD PENETR. *	38	10"	10"	3"	7"	7"	4"	4"			
		47	8"	8"	3"	5"	5"	4"	4"			
		66	6"	6"		4"	4"	3"	3"			
		96	4"	4"		3"	3"	3"	3"			
	128	4"	4"		3"	3"						
	1/4" TAPCON (ELCO OR ITW) OR #14 WOOD SCREW WITH 1-1/2" MIN EMBED *	38	9"	9"	4"	6"	6"	3"	4"	4"		
		47	7"	7"	3"	5"	5"		3"	3"		
		66	5"	5"		4"	4"					
		96	4"	4"		3"	3"					
	128	3"	3"		3"	3"						
	1/4" ITW TAPCON SG WITH 1-1/2" MIN EMBED *	38	12"	12"	12"	11"	11"	12"	7"	7"	10"	
		47	12"	12"	12"	9"	9"	12"	6"	6"	7"	
66		9"	9"	12"	6"	6"	8"	4"	4"	4"		
96		8"	8"	9"	5"	5"	4"	4"	4"	4"		
128	6"	6"	7"	5"	5"	4"						
3/16" ITW SAMMY SUPER SCREW WITH 1-1/2" MIN EMBED *	38	12"	12"	12"	12"	12"	12"	8"	8"	8"		
	47	12"	12"	12"	10"	10"	10"	7"	7"	6"		
	66	11"	11"	11"	7"	7"	7"	5"	5"	4"		
	96	10"	10"	8"	6"	6"	4"	5"	5"	4"		
128	7"	7"	6"	6"	6"	4"						
1/4" ELCO PANELMATE (MALE OR FEMALE) WITH 1-7/8" MIN EMBED *	38	12"	12"	12"	12"	12"	12"	10"	10"	9"		
	47	12"	12"	12"	12"	12"	11"	8"	8"	7"		
	66	12"	12"	11"	8"	8"	8"	6"	6"	4"		
	96	11"	11"	9"	7"	7"	5"	6"	6"	4"		
128	8"	8"	7"	7"	7"	5"						
1/4" HANGER BOLT (MALE) W/ 2 1/2" MIN EMBED & 1 1/4" E.D. *	38	10"	10"	3"	7"	7"		4"	4"			
	47	8"	8"	3"	5"	5"		4"	4"			
	66	6"	6"		4"	4"		3"	3"			
	96	4"	4"		3"	3"		3"	3"			
128	4"	4"		3"	3"							
5/16" HANGER BOLT (MALE) W/ 2 1/2" MIN EMBED & 1 1/4" E.D. *	38	12"	12"	12"	12"	12"	12"	11"	11"	10"		
	47	12"	12"	12"	12"	12"	12"	9"	9"	8"		
	66	12"	12"	12"	9"	9"	9"	6"	6"	5"		
	96	12"	12"	10"	8"	8"	5"	6"	6"	5"		
128	9"	9"	8"	8"	8"	5"						
3/8" HANGER BOLT (MALE) W/ 3" MIN EMBED & 1 1/2" E.D. *	38	12"	12"	12"	12"	12"	12"	10"	10"	12"		
	47	12"	12"	12"	12"	12"	12"	8"	8"	9"		
	66	12"	12"	12"	9"	9"	10"	6"	6"	5"		
	96	12"	12"	11"	8"	8"	6"	6"	6"	5"		
128	9"	9"	9"	8"	8"	6"						

### ANCHOR NOTES:

- 1) 1/4" TAPCONS SHALL BE BY ITW, ULTRACONS SHALL BE BY ELCO, AS LISTED IN APPROPRIATE ANCHOR SCHEDULE. "ELCO PANELMATE" ANCHORS MAY BE MALE OR FEMALE ONLY, AS ILLUSTRATED.
- 2) ENSURE MINIMUM EDGE DISTANCE FOR ALL ANCHORS PER RESPECTIVE ANCHOR SCHEDULE. EDGE DISTANCE OF 3/4" IS ACCEPTABLE FOR ANCHORS TO WOOD, EXCEPT FOR 5/16" AND 3/8" HANGER BOLTS. REFERENCE ANCHOR SCHEDULE FOR MINIMUM EDGE DISTANCE REQUIREMENTS FOR THESE ANCHORS.
- 3) MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- 4) ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- 5) ALL CONCRETE ANCHORS SPECIFIED HEREIN SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY, AS DEFINED IN ACI 308.2.
- 6) WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT ANCHORS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
- 7) ANCHORS FASTENED TO NARROW FACE OF STUD FRAMING SHALL BE LOCATED IN CENTER OF NOMINAL 2x4 (MIN) WOOD STUD (I.E. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING). WOOD STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55, "SPRUCE-PINE-FIR" G=0.42, OR GREATER DENSITY.
- 8) 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.
- 9) MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
- 10) DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.
- 11) \* DESIGNATES ANCHOR WHICH ARE REMOVABLE AND MAY BE USED FOR DIRECT MOUNT INSTALLATIONS.

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 PENSACOLA, FL 32514  
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 www.wayne-dalton.com



DRWN	CHKD	DATE
KL	FLB	12/10/09
KL	FLB	12/15/11
CSL	TSB	08/29/12

REMARKS: INIT ISSUE 2010 FRC REV. FOR ASTM E 1995-09

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# ANCHOR SCHEDULE 4

HOST STRUCT.	ANCHOR	LOAD (psf)	2" MIN EDGE DISTANCE										
			Spans Up To 4'-0"			Spans Up To 6'-0"			Spans Up To 9'-0"				
			CONN TYPE	C1	C2	C3	CONN TYPE	C1	C2	C3	CONN TYPE	C1	C2
HOLLOW BLOCK	1/4" ULTRACON (ELCO) WITH 1-1/4" EMBED	38	12"	12"	8"	9"	9"	6"	6"				
		47	11"	11"		7"	7"						
		66	8"	8"									
		96	6"	6"									
	128												
	1/4" TAPCON (ITW) WITH 1-1/4" EMBED	38	10"	10"	4"	7"	7"	3"	5"	5"			
		47	8"	8"	4"	5"	5"		4"	4"			
		66	6"	6"	3"	4"	4"		3"	3"			
		96	5"	5"		3"	3"		3"	3"			
	128	4"	4"		3"	3"		3"	3"				
	1/4" ELCO PANELMATE (MALE OR FEMALE) WITH MIN 1-1/4" EMBEDMENT	38	12"	12"	7"	9"	9"	5"	6"	6"	3"		
		47	11"	11"	6"	7"	7"	4"	5"	5"	3"		
66		8"	8"	4"	5"	5"	3"	3"	3"				
96		6"	6"	3"	4"	4"		3"	3"				
128	5"	5"	3"	4"	4"		3"	3"					
1/4" ITW TAPCON SG OR SAMMY SUPER SCREW W/ MIN 1 1/4" EMBEDMENT	38	12"	12"	9"	8"	8"	6"	5"	5"	4"			
	47	10"	10"	7"	7"	7"	5"	4"	4"	3"			
	66	7"	7"	5"	5"	5"	3"	3"	3"				
	96	6"	6"	4"	4"	4"		3"	3"				
128	4"	4"		4"	4"		3"	3"					
1/4-20 ALL POINTS SOLID-SET ANCHOR WITH MIN 7/8" EMBEDMENT	38	12"	12"	9"	9"	9"	6"	6"	6"	4"			
	47	11"	11"	8"	8"	8"	5"	5"	5"	3"			
	66	8"	8"	5"	5"	5"	4"	4"	4"				
	96	7"	7"	4"	5"	5"		4"	4"				
128	5"	5"	3"	5"	5"		4"	4"					
5/16" ULTRACON (ELCO) WITH MIN 1 1/4" EMBED	38												
	47												
	66												
	96												
128													
3/8" RED HEAD LDT W/ MIN 1 1/2" EMBEDMENT	38												
	47												
	66												
	96												
128													

2-1/2" MIN EDGE DISTANCE											
Spans Up To 4'-0"			Spans Up To 6'-0"			Spans Up To 9'-0"					
CONN TYPE	C1	C2	C3	CONN TYPE	C1	C2	C3	CONN TYPE	C1	C2	C3
	10"	10"	5"	7"	7"	3"	4"	4"			
	8"	8"	4"	5"	5"	3"	4"	4"			
	6"	6"	3"	4"	4"		3"	3"			
	5"	5"		3"	3"		3"	3"			
	4"	4"		3"	3"		3"	3"			
	12"	12"	5"	8"	8"	3"	5"	5"			
	10"	10"	4"	6"	6"		4"	4"			
	7"	7"	3"	5"	5"		3"	3"			
	5"	5"		4"	4"		3"	3"			
	4"	4"		4"	4"		3"	3"			
	12"	12"	7"	9"	9"	5"	6"	6"	3"		
	11"	11"	6"	7"	7"	4"	5"	5"	3"		
	8"	8"	4"	5"	5"	3"	4"	4"			
	6"	6"	3"	4"	4"		4"	4"			
	5"	5"	3"	4"	4"		4"	4"			
	12"	12"	10"	10"	10"	6"	7"	7"	4"		
	12"	12"	8"	8"	8"	5"	5"	5"	3"		
	9"	9"	5"	6"	6"	4"	4"	4"			
	7"	7"	4"	5"	5"		4"	4"			
	5"	5"	3"	5"	5"		4"	4"			
	12"	12"	10"	12"	12"	7"	8"	8"	5"		
	12"	12"	8"	10"	10"	6"	6"	6"	4"		
	10"	10"	6"	7"	7"	4"	5"	5"			
	9"	9"	4"	6"	6"	3"	5"	5"			
	7"	7"	4"	6"	6"	3"	5"	5"			
	9"	9"		6"	6"						
	7"	7"									
	12"	12"	7"	12"	12"		9"	9"			
	12"	12"		11"	11"		7"	7"			
	12"	12"		8"	8"						
	9"	9"		6"	6"						
	8"	8"		6"	6"						

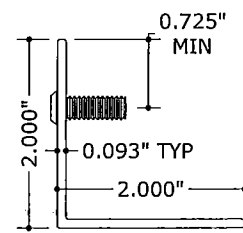
LOAD (psf)	3 1/2" MIN EDGE DISTANCE											
	Spans Up To 4'-0"			Spans Up To 6'-0"			Spans Up To 9'-0"					
	CONN TYPE	C1	C2	C3	CONN TYPE	C1	C2	C3	CONN TYPE	C1	C2	C3
5/16" ULTRACON (ELCO) WITH MIN 1 1/4" EMBED	38	12"	12"	8"	12"	12"		8"	8"			
	47	12"	12"	6"	10"	10"		6"	6"			
	66	10"	10"		7"	7"						
	96	8"	8"		6"	6"						
128	7"	7"		6"	6"							
3/8" RED HEAD LDT W/ MIN 1 1/2" EMBEDMENT	38	12"	12"	7"	12"	12"		10"	10"			
	47	12"	12"		12"	12"		8"	8"			
	66	12"	12"		9"	9"		6"	6"			
	96	10"	10"		7"	7"		6"	6"			
128	9"	9"		7"	7"		6"	6"				

# ANCHOR SCHEDULE 5

HOST STRUCT.	ANCHOR	LOAD (psf)	1/2" MIN EDGE DISTANCE										
			Spans Up To 4'-0"			Spans Up To 6'-0"			Spans Up To 9'-0"				
			CONN TYPE	C1	C2	C3	CONN TYPE	C1	C2	C3	CONN TYPE	C1	C2
18GA STEEL	#14 SMS TO MINIMUM 18GA (0.0478") STEEL STUDS (MIN Fu = 50 KSI)	38	12"	12"	6"	12"	12"	4"	8"	8"	3"		
		47	12"	12"	5"	10"	10"	3"	7"	7"			
		66	10"	10"	3"	7"	7"		5"	5"			
		96	8"	8"	3"	5"	5"		5"	5"			
128	7"	7"		5"	5"								

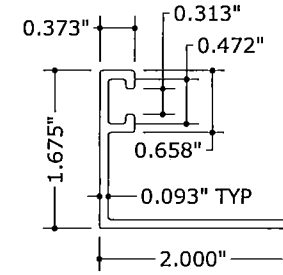
# ANCHOR SCHEDULE 6

HOST STRUCT.	ANCHOR	LOAD (psf)	1/2" MIN EDGE DISTANCE										
			Spans Up To 4'-0"			Spans Up To 6'-0"			Spans Up To 9'-0"				
			CONN TYPE	C1	C2	C3	CONN TYPE	C1	C2	C3	CONN TYPE	C1	C2
ALUMINUM	#14 SMS TO 6063-T6 ALUMINUM (1/8" MIN)	38	12"	12"	7"	12"	12"	5"	10"	10"	3"		
		47	12"	12"	6"	12"	12"	4"	8"	8"	3"		
		66	12"	12"	4"	9"	9"	3"	6"	6"			
		96	10"	10"	3"	7"	7"		6"	6"			
128	8"	8"	3"	7"	7"								



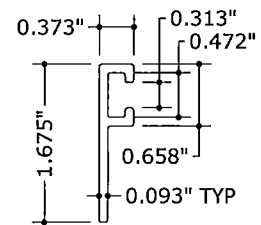
1 STUDDED ANGLE

4 6" = 1'-0"



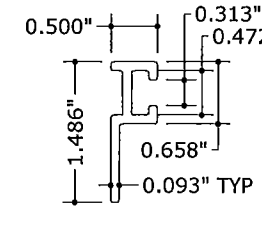
2 "F" ANGLE

4 6" = 1'-0"



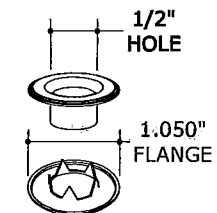
3 "F" TRACK

4 6" = 1'-0"



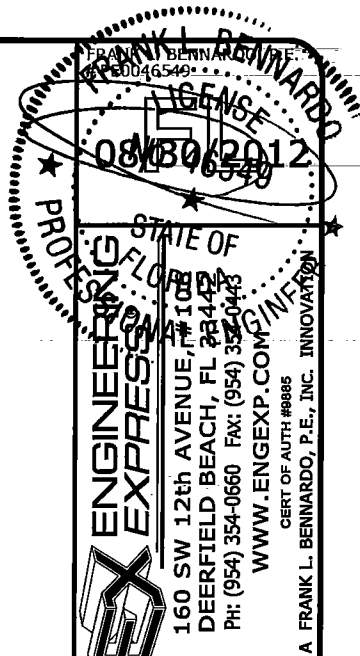
4 "BF" TRACK

4 6" = 1'-0"



5 #4 GROMMET

4 6" = 1'-0" ISOMETRIC



**WAYNE-DALTON**  
A DIVISION OF OVERHEAD DOOR CORP.  
3395 ADDISON DRIVE  
PENSACOLA, FL 32514



DRWN	CHKD	DATE
KL	FLB	12/10/09
KL	FLB	12/15/11
CSL	TSB	08/29/12

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SCALE: **04**  
PAGE DESCRIPTION:  
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