

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

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

SIDE ANGLE OPTION SHOWN HEREIN. FOR TUBE-MOUNT OPTION, HOST ANCHOR WILL BE PLACED INSIDE TUBE.

3
2 4" = 1'-0" HORIZ SECTION

4
2 4" = 1'-0" HORIZ SECTION

5
2 4" = 1'-0" HORIZ SECTION

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

Wayne Dalton
FABRIC-SHIELD™ PULL-DOWN SHUTTER
IBC 2018 EDITION & IRC 2018 EDITION
TEXAS DEPARTMENT OF INSURANCE (TDI)


REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CSL	TSB	05/23/13
DRAWING NO. 13-WDF-02	RWN	CSL	02/06/15
(SHU-112) REV. TO 2018 IBC/IRC	EPR	RWN	06/03/22

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22-51549

SCALE: NTS UNLESS NOTED
2 OF **7**

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ANCHOR NOTES:



























- 1) ALL TAPCONS UTILIZED HEREIN SHALL BE STAINLESS STEEL BY ITW. ALL ULTRACONS SHALL BE BY DEWALT AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- 2) ENSURE MINIMUM EDGE DISTANCE FOR ALL ANCHORS PER RESPECTIVE ANCHOR SCHEDULE.
- 3) MINIMUM EMBEDMENT & EDGE DISTANCE SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES. EXISTING FINISHES SHALL NOT EXCEED 1/2" IN THICKNESS OR LOADS SHALL BE TRANSFERRED TO THE HOST STRUCTURE BY OTHERS.
- 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 355.2.
- 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) ALL FASTENERS TO BE SAE GRADE 5 UNLESS NOTED OTHERWISE. FASTENERS 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.
- 8) FOR ALUMINUM MEMBERS ALL ANCHORS SHALL BE SPACED WITH 2xDIAMETER END DISTANCE AND 2.5xDIAMETER MIN. SPACING TO ADJACENT ANCHORS, UNLESS NOTED OTHERWISE. PROVIDE (5) PINCHES MINIMUM PAST THREAD PLANE FOR ALL SHEET METAL SCREWS.
- 9) 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 1/4" ANCHORS ONLY TO WOOD FRAMING). WOOD STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55.
- 10) 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.
- 11)  INDICATES VALUES NOT INTENDED FOR USE.

EMBEDMENT & EDGE DISTANCE SCHEDULE: SEE SHEET 2 DETAILS

ANCHOR	SUBSTRATE	EMBEDMENT	EDGE DISTANCE
1/4" SIMPSON TITEN ANCHOR	3000 PSI CONCRETE	1 1/2"	2 1/2"
	HOLLOW BLOCK	1 1/4"	1 1/2"
1/4" ITW TAPCON	3192 PSI CONCRETE	1 3/4"	2 1/2"
	HOLLOW BLOCK	1 1/4"	2 1/2"
#14 WOOD SCREW & 1/4" LAG SCREW	WOOD G=0.55	1 3/4"	3/4"
5/16" DEWALT ULTRACON	3515 PSI CONCRETE	2"	3 3/8"
	GROUT FILLED BLOCK	2 1/4"	2 1/2"
	WOOD G=0.55	2 3/4"	1 1/4"
5/16" ITW TAPCON	2899 PSI CONCRETE	2 1/4"	3 3/8"
	GROUT FILLED BLOCK	1 3/4"	4"
5/16" WOOD SCREW & LAG SCREW	WOOD G=0.55	2 3/4"	1 1/4"

DIRECT MOUNT ANCHOR SCHEDULES: SEE DETAILS 1/1, 1/2, AND 3/2

TRACK TO TRACK SPAN	DIRECT MOUNT CONDITION (IN O.C.)													
	1/4" SIMPSON TITEN ANCHOR						1/4" ITW TAPCON							
	3000 PSI MIN CONCRETE													
	DESIGN PRESURE (+/-PSF)						DESIGN PRESURE (+/-PSF)							
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	11.0"	11.0"	11.0"	10.4"	9.6"	8.9"	8.2"	11.0"	11.0"	11.0"	11.0"	10.3"	9.6"	8.9"
40"	11.0"	11.0"	10.4"	9.5"	8.8"	8.2"	7.5"	11.0"	11.0"	11.0"	10.2"	9.5"	8.8"	8.2"
44"	11.0"	10.5"	9.6"	8.8"	8.1"	7.5"	7.0"	11.0"	11.0"	10.3"	9.5"	8.8"	8.2"	7.6"
48"	10.9"	9.8"	8.9"	8.2"	7.5"	7.0"	6.5"	11.0"	10.5"	9.6"	8.8"	8.2"	7.6"	7.1"
52"	10.3"	9.2"	8.3"	7.6"	7.1"	6.6"	6.1"	11.0"	9.9"	9.0"	8.3"	7.7"	7.2"	6.6"
56"	9.7"	8.7"	7.8"	7.2"	6.6"	6.2"	5.7"	10.4"	9.3"	8.5"	7.8"	7.2"	6.7"	6.2"
60"	9.1"	8.2"	7.4"	6.8"	6.3"	5.8"	5.4"	9.8"	8.8"	8.0"	7.4"	6.8"	6.4"	5.9"
64"	8.7"	7.7"	7.0"	6.4"	5.9"	5.5"	5.1"	9.3"	8.4"	7.6"	7.0"	6.5"	6.1"	5.6"
68"	8.2"	7.4"	6.7"	6.1"	5.6"	5.2"	4.8"	8.9"	8.0"	7.3"	6.7"	6.2"	5.8"	5.3"
72"	7.8"	7.0"	6.4"	5.8"	5.4"	5.0"	4.6"	8.5"	7.6"	6.9"	6.4"	5.9"	5.5"	5.1"
76"	7.5"	6.7"	6.1"	5.6"	5.1"	4.8"	4.4"	8.1"	7.3"	6.7"	6.1"	5.7"	5.3"	4.9"
81"	7.1"	6.4"	5.7"	5.3"	4.8"	4.5"	4.1"	7.7"	6.9"	6.3"	5.8"	5.4"	5.0"	4.6"

TRACK TO TRACK SPAN	DIRECT MOUNT CONDITION (IN O.C.)													
	1/4" SIMPSON TITEN ANCHOR						1/4" ITW TAPCON							
	HOLLOW OR GROUT FILLED BLOCK (ASTM C90 MIN)													
	DESIGN PRESURE (+/-PSF)						DESIGN PRESURE (+/-PSF)							
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	6.4"	5.7"	5.1"	4.6"	4.3"	3.9"	3.6"	5.4"	4.8"	4.3"	3.9"	3.6"	3.3"	3.1"
40"	5.8"	5.1"	4.6"	4.2"	3.9"	3.6"	3.3"	4.9"	4.4"	3.9"	3.6"	3.3"	3.0"	
44"	5.3"	4.7"	4.3"	3.9"	3.5"	3.3"	3.0"	4.5"	4.0"	3.6"	3.3"	3.0"		
48"	4.9"	4.4"	3.9"	3.6"	3.3"	3.0"		4.2"	3.7"	3.3"	3.0"			
52"	4.6"	4.1"	3.7"	3.3"	3.0"			3.9"	3.5"	3.1"				
56"	4.3"	3.8"	3.4"	3.1"				3.7"	3.2"					
60"	4.0"	3.6"	3.2"					3.4"	3.0"					
64"	3.8"	3.4"	3.0"					3.2"						
68"	3.6"	3.2"						3.1"						
72"	3.4"	3.0"												
76"	3.3"													
81"	3.1"													

TRACK TO TRACK SPAN	DIRECT MOUNT CONDITION (IN O.C.)													
	#14 WOOD SCREW ANCHOR SCHEDULE						1/4" ITW TAPCON							
	WOOD MEMBER (G=0.55 MIN)													
	DESIGN PRESURE (+/-PSF)						DESIGN PRESURE (+/-PSF)							
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	9.3"	8.4"	7.6"	7.0"	6.5"	6.1"	5.7"	7.0"	6.4"	5.8"	5.4"	5.0"	4.7"	4.4"
40"	8.5"	7.7"	7.0"	6.5"	6.0"	5.6"	5.2"	6.5"	5.9"	5.4"	5.0"	4.6"	4.4"	4.1"
44"	7.9"	7.2"	6.5"	6.0"	5.6"	5.2"	4.9"	6.0"	5.5"	5.0"	4.6"	4.3"	4.1"	3.8"
48"	7.4"	6.7"	6.1"	5.6"	5.2"	4.9"	4.5"	5.7"	5.1"	4.7"	4.4"	4.1"	3.8"	3.5"
52"	7.0"	6.3"	5.8"	5.3"	4.9"	4.6"	4.3"	5.3"	4.8"	4.4"	4.1"	3.8"	3.6"	3.3"
56"	6.6"	5.9"	5.4"	5.0"	4.6"	4.3"	4.0"	5.1"	4.6"	4.2"	3.9"	3.6"	3.4"	3.2"
60"	6.3"	5.6"	5.1"	4.7"	4.4"	4.1"	3.8"	4.8"	4.4"	4.0"	3.7"	3.4"	3.2"	3.0"
64"	5.9"	5.4"	4.9"	4.5"	4.2"	3.9"	3.6"	4.6"	4.2"	3.8"	3.5"	3.3"	3.1"	2.9"
68"	5.7"	5.1"	4.7"	4.3"	4.0"	3.7"	3.4"	4.4"	4.0"	3.6"	3.4"	3.1"	2.9"	2.7"
72"	5.4"	4.9"	4.5"	4.1"	3.8"	3.6"	3.3"	4.2"	3.8"	3.5"	3.2"	3.0"	2.8"	2.6"
76"	5.2"	4.7"	4.3"	3.9"	3.6"	3.4"	3.2"	4.0"	3.7"	3.3"	3.1"	2.9"	2.7"	2.5"
81"	4.9"	4.5"	4.1"	3.7"	3.5"	3.2"	3.0"	3.8"	3.5"	3.2"	2.9"	2.7"	2.6"	2.4"



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 3395 ADDISON DRIVE
 PENSACOLA, FL 32514

Wayne Dalton
 FABRIC-SHIELD™ PULL-DOWN SHUTTER
 IBC 2018 EDITION & IRC 2018 EDITION
 TEXAS DEPARTMENT OF INSURANCE (TDI)

REMARKS	DATE	DRWN	CHKD
INIT ISSUE	05/23/13	CSL	TSB
DRAWING NO. 13-WDF-02	02/06/15	RWN	CSL
(SHU-12) REV. TO 2018 IBC/IRC	06/03/22	EPR	RWN

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DIRECT MOUNT ANCHOR SCHEDULES: SEE DETAILS 1/1, 1/2, AND 3/2

TRACK TO TRACK SPAN	DIRECT MOUNT CONDITION (IN O.C.)													
	5/16" DEWALT ULTRACON							5/16" ITW TAPCON						
	3515 PSI MIN CONCRETE							2899 PSI MIN CONCRETE						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"
40"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"
44"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"
48"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"
52"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"
56"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"
60"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	10.8"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	10.4"
64"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	10.2"	11.0"	11.0"	11.0"	11.0"	11.0"	10.7"	9.9"
68"	11.0"	11.0"	11.0"	11.0"	11.0"	10.5"	9.7"	11.0"	11.0"	11.0"	11.0"	11.0"	10.2"	9.3"
72"	11.0"	11.0"	11.0"	11.0"	10.8"	10.0"	9.2"	11.0"	11.0"	11.0"	11.0"	10.4"	9.7"	8.9"
76"	11.0"	11.0"	11.0"	11.0"	10.3"	9.5"	8.8"	11.0"	11.0"	11.0"	10.8"	9.9"	9.2"	8.5"
81"	11.0"	11.0"	11.0"	10.6"	9.7"	9.0"	8.3"	11.0"	11.0"	11.0"	10.2"	9.4"	8.7"	8.0"

TRACK TO TRACK SPAN	DIRECT MOUNT CONDITION (IN O.C.)													
	5/16" DEWALT ULTRACON							5/16" WOOD SCREW						
	WOOD MEMBER (G=0.55 MIN)							WOOD MEMBER (G=0.55 MIN)						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	11.0"	10.2"	9.4"	8.7"	8.1"	7.6"	7.1"	11.0"	10.6"	9.8"	9.0"	8.4"	7.9"	7.4"
40"	10.4"	9.5"	8.7"	8.0"	7.5"	7.0"	6.5"	10.9"	9.9"	9.0"	8.4"	7.8"	7.3"	6.8"
44"	9.7"	8.8"	8.1"	7.5"	7.0"	6.5"	6.1"	10.1"	9.2"	8.4"	7.8"	7.3"	6.8"	6.4"
48"	9.1"	8.3"	7.6"	7.0"	6.5"	6.1"	5.7"	9.5"	8.6"	7.9"	7.3"	6.8"	6.4"	6.0"
52"	8.6"	7.8"	7.1"	6.6"	6.2"	5.8"	5.4"	9.0"	8.1"	7.5"	6.9"	6.4"	6.0"	5.6"
56"	8.2"	7.4"	6.8"	6.3"	5.8"	5.5"	5.1"	8.5"	7.7"	7.1"	6.5"	6.1"	5.7"	5.3"
60"	7.7"	7.0"	6.4"	5.9"	5.5"	5.2"	4.8"	8.1"	7.3"	6.7"	6.2"	5.8"	5.4"	5.1"
64"	7.4"	6.7"	6.1"	5.7"	5.3"	4.9"	4.6"	7.7"	7.0"	6.4"	5.9"	5.5"	5.2"	4.8"
68"	7.1"	6.4"	5.9"	5.4"	5.0"	4.7"	4.4"	7.4"	6.7"	6.1"	5.7"	5.3"	5.0"	4.6"
72"	6.8"	6.1"	5.6"	5.2"	4.8"	4.5"	4.2"	7.1"	6.4"	5.9"	5.4"	5.1"	4.7"	4.4"
76"	6.5"	5.9"	5.4"	5.0"	4.6"	4.3"	4.0"	6.8"	6.2"	5.6"	5.2"	4.9"	4.6"	4.2"
81"	6.2"	5.6"	5.1"	4.7"	4.4"	4.1"	3.8"	6.5"	5.9"	5.4"	5.0"	4.6"	4.3"	4.0"

TRACK TO TRACK SPAN	DIRECT MOUNT CONDITION (IN O.C.)													
	5/16" DEWALT ULTRACON							5/16" ITW TAPCON						
	GROUT FILLED BLOCK (ASTM C90 MIN)							GROUT FILLED BLOCK (ASTM C90 MIN)						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	11.0"	9.9"	8.9"	8.2"	7.5"	7.0"	6.4"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"
40"	10.1"	9.0"	8.2"	7.5"	6.9"	6.4"	5.9"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"
44"	9.3"	8.3"	7.5"	6.9"	6.3"	5.9"	5.4"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"
48"	8.7"	7.7"	7.0"	6.4"	5.9"	5.4"	5.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	10.7"
52"	8.1"	7.2"	6.5"	5.9"	5.5"	5.0"	4.6"	11.0"	11.0"	11.0"	11.0"	11.0"	10.9"	10.0"
56"	7.6"	6.8"	6.1"	5.6"	5.1"	4.7"	4.3"	11.0"	11.0"	11.0"	11.0"	11.0"	10.2"	9.4"
60"	7.1"	6.4"	5.7"	5.2"	4.8"	4.4"	4.0"	11.0"	11.0"	11.0"	11.0"	10.4"	9.6"	8.9"
64"	6.8"	6.0"	5.4"	4.9"	4.5"	4.1"	3.7"	11.0"	11.0"	11.0"	10.6"	9.8"	9.1"	8.4"
68"	6.4"	5.7"	5.1"	4.6"	4.2"	3.8"	3.4"	11.0"	11.0"	11.0"	10.1"	9.3"	8.7"	8.0"
72"	6.1"	5.4"	4.8"	4.3"	3.9"	3.5"	3.1"	11.0"	11.0"	10.5"	9.6"	8.9"	8.3"	7.6"
76"	5.8"	5.2"	4.6"	4.1"	3.7"	3.3"	2.9"	11.0"	11.0"	10.1"	9.2"	8.5"	7.9"	7.3"
81"	5.5"	4.9"	4.3"	3.8"	3.4"	3.0"	2.6"	11.0"	10.5"	9.5"	8.7"	8.1"	7.5"	6.9"

BUILD-OUT MOUNT w/ SIDE ANGLE ANCHOR SCHEDULES: SEE DETAILS 2/2, 5/2, AND 2/7

TRACK TO TRACK SPAN	BUILD-OUT ANGLE CONDITION (IN O.C.)													
	1/4" SIMPSON TITEN ANCHOR							1/4" ITW TAPCON						
	3000 PSI MIN CONCRETE							3192 PSI MIN CONCRETE						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	9.3"	8.4"	7.8"	7.2"	6.7"	6.3"	5.9"	10.6"	9.7"	8.9"	8.2"	7.7"	7.2"	6.7"
40"	8.6"	7.8"	7.2"	6.7"	6.2"	5.8"	5.4"	9.9"	9.0"	8.2"	7.6"	7.1"	6.7"	6.3"
44"	8.0"	7.3"	6.7"	6.2"	5.8"	5.4"	5.1"	9.2"	8.4"	7.7"	7.1"	6.7"	6.3"	5.8"
48"	7.6"	6.9"	6.3"	5.8"	5.4"	5.1"	4.7"	8.7"	7.9"	7.2"	6.7"	6.3"	5.9"	5.5"
52"	7.1"	6.5"	5.9"	5.5"	5.1"	4.8"	4.5"	8.2"	7.4"	6.8"	6.3"	5.9"	5.5"	5.2"
56"	6.8"	6.1"	5.6"	5.2"	4.8"	4.5"	4.2"	7.8"	7.0"	6.5"	6.0"	5.6"	5.2"	4.9"
60"	6.4"	5.8"	5.3"	4.9"	4.6"	4.3"	4.0"	7.4"	6.7"	6.2"	5.7"	5.3"	5.0"	4.7"
64"	6.1"	5.6"	5.1"	4.7"	4.4"	4.1"	3.8"	7.0"	6.4"	5.9"	5.4"	5.1"	4.8"	4.4"
68"	5.9"	5.3"	4.9"	4.5"	4.2"	3.9"	3.7"	6.7"	6.1"	5.6"	5.2"	4.9"	4.6"	4.2"
72"	5.6"	5.1"	4.7"	4.3"	4.0"	3.8"	3.5"	6.5"	5.9"	5.4"	5.0"	4.7"	4.4"	4.1"
76"	5.4"	4.9"	4.5"	4.2"	3.9"	3.6"	3.4"	6.2"	5.6"	5.2"	4.8"	4.5"	4.2"	3.9"
81"	5.1"	4.7"	4.3"	4.0"	3.7"	3.5"	3.2"	5.9"	5.4"	4.9"	4.6"	4.3"	4.0"	3.7"

TRACK TO TRACK SPAN	BUILD-OUT ANGLE CONDITION (IN O.C.)													
	#14 WOOD SCREW ANCHOR SCHEDULE							1/4" ITW TAPCON						
	WOOD MEMBER (G=0.55 MIN)							WOOD MEMBER (G=0.55 MIN)						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	7.1"	6.5"	5.9"	5.5"	5.2"	4.9"	4.5"	5.8"	5.3"	4.9"	4.5"	4.3"	4.0"	3.7"
40"	6.6"	6.0"	5.5"	5.1"	4.8"	4.5"	4.2"	5.4"	4.9"	4.5"	4.2"	4.0"	3.7"	3.5"
44"	6.2"	5.6"	5.2"	4.8"	4.5"	4.2"	3.9"	5.1"	4.6"	4.3"	4.0"	3.7"	3.5"	3.3"
48"	5.8"	5.3"	4.9"	4.5"	4.2"	4.0"	3.7"	4.8"	4.3"	4.0"	3.7"	3.5"	3.3"	3.1"
52"	5.5"	5.0"	4.6"	4.3"	4.0"	3.7"	3.5"	4.5"	4.1"	3.8"	3.5"	3.3"	3.1"	2.9"
56"	5.2"	4.7"	4.4"	4.0"	3.8"	3.5"	3.3"	4.3"	3.9"	3.6"	3.3"	3.1"	2.9"	2.8"
60"	5.0"	4.5"	4.1"	3.8"	3.6"	3.4"	3.2"	4.1"	3.7"	3.4"	3.2"	3.0"	2.8"	2.6"
64"	4.7"	4.3"	4.0"	3.7"	3.4"	3.2"	3.0"	3.9"	3.6"	3.3"	3.0"	2.8"	2.7"	2.5"
68"	4.5"	4.1"	3.8"	3.5"	3.3"	3.1"	2.9"	3.7"	3.4"	3.1"	2.9"	2.7"	2.6"	2.4"
72"	4.4"	4.0"	3.6"	3.4"	3.2"	3.0"	2.8"	3.6"	3.3"	3.0"	2.8"	2.6"	2.5"	2.3"
76"	4.2"	3.8"	3.5"	3.2"	3.0"	2.8"	2.7"	3.5"	3.2"	2.9"	2.7"	2.5"	2.4"	2.2"
81"	4.0"	3.6"	3.3"	3.1"	2.9"	2.7"	2.5"	3.3"	3.0"	2.8"	2.6"	2.4"	2.3"	2.1"

SEE ANCHOR NOTES ON SHEET 3

ENGINEERING EXPRESS
POSTAL ADDRESS:
401 W. ATLANTIC AVE R10 #219
DELRAY BEACH, FL 33444
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WAYNE-DALTON
A DIVISION OF OVERHEAD DOOR CORP.
3395 ADDISON DRIVE
PENSACOLA, FL 32514
FABRIC-SHIELD™ PULL-DOWN SHUTTER
IBC 2018 EDITION & IRC 2018 EDITION
TEXAS DEPARTMENT OF INSURANCE (TDI)

Wayne Dalton

REMARKS	DATE	DRWN	CHKD
INIT ISSUE	05/23/13	CSL	TSB
DRAWING NO. 13-WDF-02	02/06/15	RWN	CSL
(SHU-12) REV. TO 2018 IBC/IRC	06/03/22	EPR	RWN

22-51549

SCALE: NTS UNLESS NOTED

c:\users\eric\engineering\express\production - documents\projects\22-51549 fabric-shield pull-down shutter - shu 112\work\drawings & cad\1 tdi-22-51549e.dwg.dwg

BUILD-OUT MOUNT w/ SIDE ANGLE ANCHOR SCHEDULES: SEE DETAILS 2/2, 5/2, AND 2/7

FRANK BENNARDO, P.E.
PE# 96064 CA# F-11383

JUNE 3, 2022



TRACK TO TRACK SPAN	BUILD-OUT ANGLE CONDITION (IN O.C.)													
	5/16" DEWALT ULTRACON							5/16" ITW TAPCON						
	3515 PSI MIN CONCRETE							2899 PSI MIN CONCRETE						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"
40"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	10.8"	11.0"	11.0"	11.0"	11.0"	11.0"	11.0"	10.3"
44"	11.0"	11.0"	11.0"	11.0"	11.0"	10.8"	10.0"	11.0"	11.0"	11.0"	11.0"	11.0"	10.3"	9.6"
48"	11.0"	11.0"	11.0"	11.0"	10.8"	10.1"	9.4"	11.0"	11.0"	11.0"	11.0"	10.3"	9.7"	9.0"
52"	11.0"	11.0"	11.0"	10.9"	10.1"	9.5"	8.9"	11.0"	11.0"	11.0"	10.4"	9.7"	9.1"	8.5"
56"	11.0"	11.0"	11.0"	10.3"	9.6"	9.0"	8.4"	11.0"	11.0"	10.7"	9.9"	9.2"	8.6"	8.0"
60"	11.0"	11.0"	10.6"	9.8"	9.1"	8.6"	8.0"	11.0"	11.0"	10.1"	9.4"	8.7"	8.2"	7.6"
64"	11.0"	11.0"	10.1"	9.3"	8.7"	8.2"	7.6"	11.0"	10.5"	9.7"	8.9"	8.3"	7.8"	7.3"
68"	11.0"	10.5"	9.7"	8.9"	8.3"	7.8"	7.3"	11.0"	10.1"	9.2"	8.5"	8.0"	7.5"	6.9"
72"	11.0"	10.1"	9.3"	8.6"	8.0"	7.5"	7.0"	10.7"	9.7"	8.9"	8.2"	7.6"	7.1"	6.7"
76"	10.7"	9.7"	8.9"	8.2"	7.7"	7.2"	6.7"	10.3"	9.3"	8.5"	7.9"	7.3"	6.9"	6.4"
81"	10.2"	9.2"	8.5"	7.8"	7.3"	6.8"	6.4"	9.8"	8.8"	8.1"	7.5"	7.0"	6.5"	6.1"

TRACK TO TRACK SPAN	BUILD-OUT ANGLE CONDITION (IN O.C.)													
	5/16" DEWALT ULTRACON							5/16" WOOD SCREW						
	WOOD MEMBER (G=0.55 MIN)							WOOD MEMBER (G=0.55 MIN)						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	9.4"	8.5"	7.9"	7.3"	6.8"	6.4"	6.0"	9.9"	9.1"	8.4"	7.8"	7.3"	6.8"	6.4"
40"	8.7"	7.9"	7.3"	6.8"	6.4"	6.0"	5.6"	9.2"	8.4"	7.8"	7.2"	6.8"	6.4"	6.0"
44"	8.1"	7.4"	6.8"	6.4"	5.9"	5.6"	5.2"	8.7"	7.9"	7.3"	6.8"	6.3"	6.0"	5.6"
48"	7.7"	7.0"	6.4"	6.0"	5.6"	5.3"	4.9"	8.2"	7.4"	6.8"	6.4"	6.0"	5.6"	5.2"
52"	7.2"	6.6"	6.1"	5.7"	5.3"	5.0"	4.7"	7.7"	7.0"	6.5"	6.0"	5.6"	5.3"	5.0"
56"	6.9"	6.3"	5.8"	5.4"	5.0"	4.7"	4.4"	7.3"	6.7"	6.2"	5.7"	5.4"	5.0"	4.7"
60"	6.6"	6.0"	5.5"	5.1"	4.8"	4.5"	4.2"	7.0"	6.4"	5.9"	5.4"	5.1"	4.8"	4.5"
64"	6.3"	5.7"	5.3"	4.9"	4.6"	4.3"	4.0"	6.7"	6.1"	5.6"	5.2"	4.9"	4.6"	4.3"
68"	6.0"	5.5"	5.0"	4.7"	4.4"	4.1"	3.9"	6.4"	5.8"	5.4"	5.0"	4.7"	4.4"	4.1"
72"	5.8"	5.3"	4.8"	4.5"	4.2"	4.0"	3.7"	6.2"	5.6"	5.2"	4.8"	4.5"	4.2"	4.0"
76"	5.6"	5.1"	4.7"	4.3"	4.1"	3.8"	3.6"	5.9"	5.4"	5.0"	4.6"	4.3"	4.1"	3.8"
81"	5.3"	4.8"	4.5"	4.1"	3.9"	3.6"	3.4"	5.7"	5.2"	4.8"	4.4"	4.1"	3.9"	3.6"

TRACK TO TRACK SPAN	BUILD-OUT ANGLE CONDITION (IN O.C.)													
	5/16" DEWALT ULTRACON							5/16" ITW TAPCON						
	GROUT FILLED BLOCK (ASTM C90 MIN)							GROUT FILLED BLOCK (ASTM C90 MIN)						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	6.8"	6.2"	5.7"	5.2"	/	/	/	11.0"	11.0"	11.0"	11.0"	11.0"	10.6"	9.9"
40"	6.3"	5.7"	5.2"	/	/	/	/	11.0"	11.0"	11.0"	11.0"	10.5"	9.8"	9.2"
44"	5.9"	5.3"	/	/	/	/	/	11.0"	11.0"	11.0"	10.5"	9.8"	9.2"	8.5"
48"	5.5"	/	/	/	/	/	/	11.0"	11.0"	10.6"	9.8"	9.2"	8.6"	8.0"
52"	5.2"	/	/	/	/	/	/	11.0"	10.9"	10.0"	9.3"	8.6"	8.1"	7.6"
56"	/	/	/	/	/	/	/	11.0"	10.3"	9.5"	8.8"	8.2"	7.7"	7.2"
60"	/	/	/	/	/	/	/	10.8"	9.8"	9.0"	8.3"	7.8"	7.3"	6.8"
64"	/	/	/	/	/	/	/	10.3"	9.4"	8.6"	8.0"	7.4"	7.0"	6.5"
68"	/	/	/	/	/	/	/	9.9"	9.0"	8.2"	7.6"	7.1"	6.7"	6.2"
72"	/	/	/	/	/	/	/	9.5"	8.6"	7.9"	7.3"	6.8"	6.4"	5.9"
76"	/	/	/	/	/	/	/	9.1"	8.3"	7.6"	7.0"	6.5"	6.1"	5.7"
81"	/	/	/	/	/	/	/	8.7"	7.9"	7.2"	6.7"	6.2"	5.8"	5.4"

BUILD-OUT MOUNT ANCHOR SCHEDULES (HOST ANCHOR INSIDE TUBE): SEE DETAILS 2/2 AND 4/2

TRACK TO TRACK SPAN	TUBE MOUNT CONDITION (IN O.C.)													
	1/4" SIMPSON TITEN ANCHOR							1/4" ITW TAPCON						
	3000 PSI MIN CONCRETE							3192 PSI MIN CONCRETE						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	4.3"	4.0"	3.6"	3.4"	3.2"	/	/	5.3"	4.9"	4.5"	4.2"	3.9"	3.7"	3.4"
40"	4.0"	3.7"	3.4"	3.1"	/	/	/	5.0"	4.5"	4.2"	3.9"	3.6"	3.4"	3.2"
44"	3.8"	3.4"	3.2"	/	/	/	/	4.6"	4.2"	3.9"	3.6"	3.4"	3.2"	/
48"	3.6"	3.2"	/	/	/	/	/	4.4"	4.0"	3.7"	3.4"	3.2"	/	/
52"	3.4"	3.1"	/	/	/	/	/	4.1"	3.8"	3.5"	3.2"	3.0"	/	/
56"	3.2"	/	/	/	/	/	/	3.9"	3.6"	3.3"	3.1"	/	/	/
60"	3.0"	/	/	/	/	/	/	3.7"	3.4"	3.1"	/	/	/	/
64"	/	/	/	/	/	/	/	3.6"	3.3"	/	/	/	/	/
68"	/	/	/	/	/	/	/	3.4"	3.1"	/	/	/	/	/
72"	/	/	/	/	/	/	/	3.3"	/	/	/	/	/	/
76"	/	/	/	/	/	/	/	3.2"	/	/	/	/	/	/
81"	/	/	/	/	/	/	/	3.0"	/	/	/	/	/	/

TRACK TO TRACK SPAN	TUBE MOUNT CONDITION (IN O.C.)													
	#14 WOOD SCREW ANCHOR SCHEDULE							1/4" ITW TAPCON						
	WOOD MEMBER (G=0.55 MIN)							WOOD MEMBER (G=0.55 MIN)						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	4.2"	3.8"	3.5"	3.3"	3.1"	2.9"	2.7"	3.9"	3.5"	3.3"	3.0"	2.8"	2.7"	2.5"
40"	3.9"	3.6"	3.3"	3.0"	2.9"	2.7"	2.5"	3.6"	3.3"	3.0"	2.8"	2.6"	2.5"	2.3"
44"	3.7"	3.3"	3.1"	2.9"	2.7"	2.5"	2.4"	3.4"	3.1"	2.8"	2.6"	2.5"	2.3"	2.2"
48"	3.4"	3.1"	2.9"	2.7"	2.5"	2.4"	2.2"	3.2"	2.9"	2.7"	2.5"	2.3"	2.2"	2.1"
52"	3.3"	3.0"	2.7"	2.5"	2.4"	2.2"	2.1"	3.0"	2.7"	2.5"	2.4"	2.2"	2.1"	1.9"
56"	3.1"	2.8"	2.6"	2.4"	2.3"	2.1"	2.0"	2.9"	2.6"	2.4"	2.2"	2.1"	2.0"	1.9"
60"	2.9"	2.7"	2.5"	2.3"	2.2"	2.0"	1.9"	2.7"	2.5"	2.3"	2.1"	2.0"	1.9"	1.8"
64"	2.8"	2.6"	2.4"	2.2"	2.1"	1.9"	1.8"	2.6"	2.4"	2.2"	2.0"	1.9"	1.8"	1.7"
68"	2.7"	2.5"	2.3"	2.1"	2.0"	1.9"	1.7"	2.5"	2.3"	2.1"	2.0"	1.8"	1.7"	1.6"
72"	2.6"	2.4"	2.2"	2.0"	1.9"	1.8"	1.7"	2.4"	2.2"	2.0"	1.9"	1.8"	1.7"	1.6"
76"	2.5"	2.3"	2.1"	2.0"	1.8"	1.7"	1.6"	2.3"	2.1"	2.0"	1.8"	1.7"	1.6"	/
81"	2.4"	2.2"	2.0"	1.9"	1.7"	1.6"	1.5"	2.2"	2.0"	1.9"	1.7"	1.6"	1.5"	/

SEE ANCHOR NOTES ON SHEET 3

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WAYNE-DALTON
A DIVISION OF OVERHEAD DOOR CORP.
3395 ADDISON DRIVE
PENSACOLA, FL 32514
FABRIC-SHIELD™ PULL-DOWN SHUTTER
IBC 2018 EDITION & IRC 2018 EDITION
TEXAS DEPARTMENT OF INSURANCE (TDI)



REMARKS	DATE	DRWN	CHKD
INIT ISSUE	05/23/13	CSL	TSB
DRAWING NO. 13-WDF-02	02/06/15	RWN	CSL
(SHU-12) REV. TO 2018 IBC/IRC	06/03/22	EPR	RWN

22-51549

SCALE: NTS UNLESS NOTED

c:\users\eric\engineering\express\production - documents\projects\22-51549 fabric-shield pull-down shutter - shu 12\work\drawings & cad\1\tdi-22-51549e.dwg.dwg



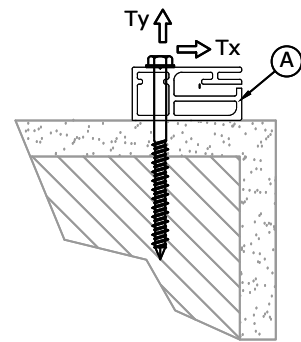
BUILD-OUT MOUNT ANCHOR SCHEDULES (HOST ANCHOR INSIDE TUBE): SEE DETAILS 2/2 AND 4/2

TRACK TO TRACK SPAN	TUBE MOUNT CONDITION (IN O.C.)													
	5/16" DEWALT ULTRACON							5/16" ITW TAPCON						
	3515 PSI MIN CONCRETE							2899 PSI MIN CONCRETE						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	8.4"	7.7"	7.1"	6.6"	6.2"	5.8"	5.4"	8.0"	7.3"	6.7"	6.2"	5.8"	5.5"	5.1"
40"	7.9"	7.2"	6.6"	6.1"	5.7"	5.4"	5.0"	7.4"	6.8"	6.2"	5.8"	5.4"	5.1"	4.8"
44"	7.3"	6.7"	6.2"	5.7"	5.4"	5.0"		7.0"	6.3"	5.8"	5.4"	5.1"	4.8"	4.5"
48"	6.9"	6.3"	5.8"	5.4"	5.0"			6.6"	6.0"	5.5"	5.1"	4.8"	4.5"	4.2"
52"	6.5"	6.0"	5.5"	5.1"				6.2"	5.6"	5.2"	4.8"	4.5"	4.2"	4.0"
56"	6.2"	5.7"	5.2"					5.9"	5.4"	4.9"	4.6"	4.3"	4.0"	3.8"
60"	5.9"	5.4"						5.6"	5.1"	4.7"	4.4"	4.1"	3.8"	
64"	5.7"	5.1"						5.4"	4.9"	4.5"	4.2"	3.9"		
68"	5.4"							5.1"	4.7"	4.3"	4.0"			
72"	5.2"							4.9"	4.5"	4.1"	3.8"			
76"	5.0"							4.8"	4.3"	4.0"				
81"								4.5"	4.1"	3.8"				

TRACK TO TRACK SPAN	TUBE MOUNT CONDITION (IN O.C.)													
	5/16" ITW TAPCON													
	GROUT FILLED BLOCK (ASTM C90 MIN)													
	DESIGN PRESURE (+/-PSF)													
	35	40	45	50	55	60	66							
36"	7.5"	6.8"	6.3"	5.8"	5.5"	5.1"	4.8"							
40"	7.0"	6.3"	5.8"	5.4"	5.1"	4.8"	4.5"							
44"	6.5"	5.9"	5.5"	5.1"	4.8"	4.5"	4.2"							
48"	6.1"	5.6"	5.1"	4.8"	4.5"	4.2"	3.9"							
52"	5.8"	5.3"	4.9"	4.5"	4.2"	4.0"								
56"	5.5"	5.0"	4.6"	4.3"	4.0"	3.8"								
60"	5.2"	4.8"	4.4"	4.1"	3.8"									
64"	5.0"	4.6"	4.2"	3.9"										
68"	4.8"	4.4"	4.0"											
72"	4.6"	4.2"	3.9"											
76"	4.4"	4.0"												
81"	4.2"	3.9"												

TRACK TO TRACK SPAN	TUBE MOUNT CONDITION (IN O.C.)													
	5/16" DEWALT ULTRACON							5/16" WOOD SCREW						
	WOOD MEMBER (G=0.55 MIN)							WOOD MEMBER (G=0.55 MIN)						
	DESIGN PRESURE (+/-PSF)							DESIGN PRESURE (+/-PSF)						
	35	40	45	50	55	60	66	35	40	45	50	55	60	66
36"	6.2"	5.7"	5.2"	4.9"	4.6"	4.3"	4.0"	6.9"	6.3"	5.8"	5.4"	5.0"	4.7"	4.4"
40"	5.8"	5.3"	4.9"	4.5"	4.2"	4.0"	3.7"	6.4"	5.8"	5.4"	5.0"	4.7"	4.4"	4.1"
44"	5.4"	4.9"	4.6"	4.2"	4.0"	3.7"	3.5"	6.0"	5.5"	5.0"	4.7"	4.4"	4.1"	3.9"
48"	5.1"	4.6"	4.3"	4.0"	3.7"	3.5"	3.3"	5.6"	5.1"	4.7"	4.4"	4.1"	3.9"	3.6"
52"	4.8"	4.4"	4.1"	3.8"	3.5"	3.3"	3.1"	5.3"	4.9"	4.5"	4.2"	3.9"	3.7"	3.4"
56"	4.6"	4.2"	3.9"	3.6"	3.4"	3.2"	3.0"	5.1"	4.6"	4.3"	4.0"	3.7"	3.5"	3.3"
60"	4.4"	4.0"	3.7"	3.4"	3.2"	3.0"	2.8"	4.8"	4.4"	4.1"	3.8"	3.5"	3.3"	3.1"
64"	4.2"	3.8"	3.5"	3.3"	3.1"	2.9"	2.7"	4.6"	4.2"	3.9"	3.6"	3.4"	3.2"	3.0"
68"	4.0"	3.7"	3.4"	3.1"	2.9"	2.8"	2.6"	4.4"	4.0"	3.7"	3.5"	3.2"	3.1"	2.9"
72"	3.9"	3.5"	3.2"	3.0"	2.8"	2.7"	2.5"	4.3"	3.9"	3.6"	3.3"	3.1"	2.9"	2.8"
76"	3.7"	3.4"	3.1"	2.9"	2.7"	2.6"	2.4"	4.1"	3.7"	3.5"	3.2"	3.0"	2.8"	2.7"
81"	3.6"	3.2"	3.0"	2.8"	2.6"	2.4"	2.3"	3.9"	3.6"	3.3"	3.1"	2.9"	2.7"	2.5"

SYSTEM REACTION DESIGN SCHEDULES: SEE SHEET 2 DETAILS



LOAD ON EXISTING STRUCTURE FROM SCREEN SYSTEM Tx = SHEAR REACTION (PLF)								
TRACK TO TRACK SPACING	DESIGN PRESURE (+/- PSF)							
	35	40	45	50	55	60	66	
36"	257	280	303	325	347	367	392	
40"	275	301	325	349	372	394	420	
44"	293	321	347	372	396	420	448	
48"	311	340	367	394	420	445	474	
52"	328	358	388	416	443	470	500	
56"	344	376	407	437	466	493	526	
60"	361	394	426	457	487	517	550	
64"	376	412	445	478	509	539	575	
68"	392	428	463	497	530	561	598	
72"	407	445	481	517	550	583	622	
76"	422	461	499	535	571	605	644	
81"	441	482	521	559	596	632	673	

LOAD ON EXISTING STRUCTURE FROM SCREEN SYSTEM Ty = TENSION REACTION (PLF)								
TRACK TO TRACK SPACING	DESIGN PRESURE (+/- PSF)							
	35	40	45	50	55	60	66	
36"	53	60	68	75	83	90	99	
40"	58	67	75	83	92	100	110	
44"	64	73	83	92	101	110	121	
48"	70	80	90	100	110	120	132	
52"	76	87	98	108	119	130	143	
56"	82	93	105	117	128	140	154	
60"	88	100	113	125	138	150	165	
64"	93	107	120	133	147	160	176	
68"	99	113	128	142	156	170	187	
72"	105	120	135	150	165	180	198	
76"	111	127	143	158	174	190	209	
81"	118	135	152	169	186	203	223	

SEE ANCHOR NOTES ON SHEET 3

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PENSACOLA, FL 32514
FABRIC-SHIELD™ PULL-DOWN SHUTTER
IBC 2018 EDITION & IRC 2018 EDITION
TEXAS DEPARTMENT OF INSURANCE (TDI)



REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CSL	TSB	05/23/13
DRAWING NO. 13-WDF-02	RWN	CSL	02/06/15
(SHU-12) REV. TO 2018 IBC/IRC	EPR	RWN	06/03/22

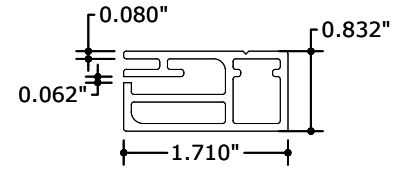
22-51549

SCALE: NTS UNLESS NOTED

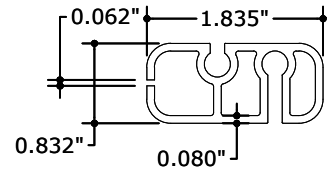
c:\users\eric\engineering\express\production - documents\projects\22-51549 fabric-shield pull-down shutter - shu 112\work\drawings & cad\1 tdi-22-51549e.dwg.dwg



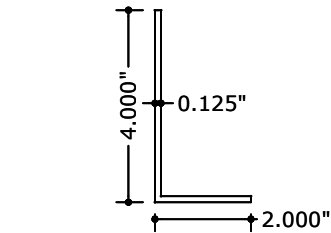
SYSTEM COMPONENTS:



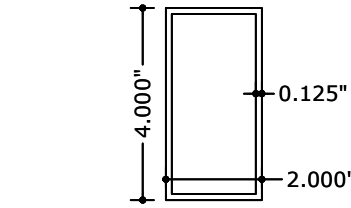
A SIDE GUIDE
6" = 1'-0"



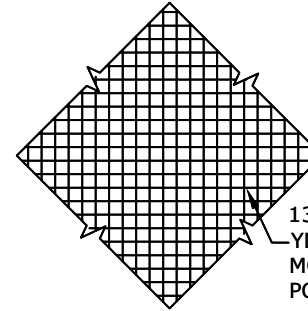
B CURTAIN BAR
6" = 1'-0"



C ANGLE MOUNT
6" = 1'-0"

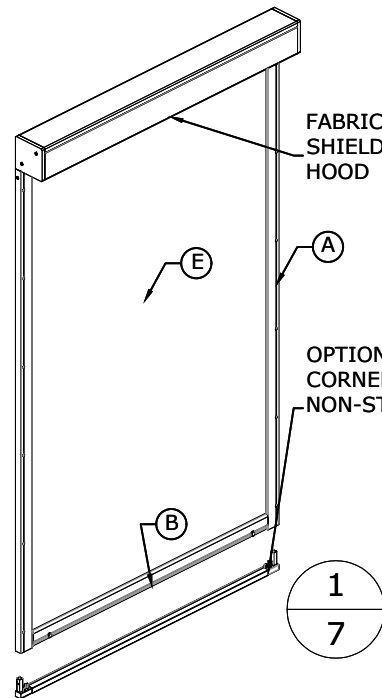


D SUPPORT TUBE
6" = 1'-0"

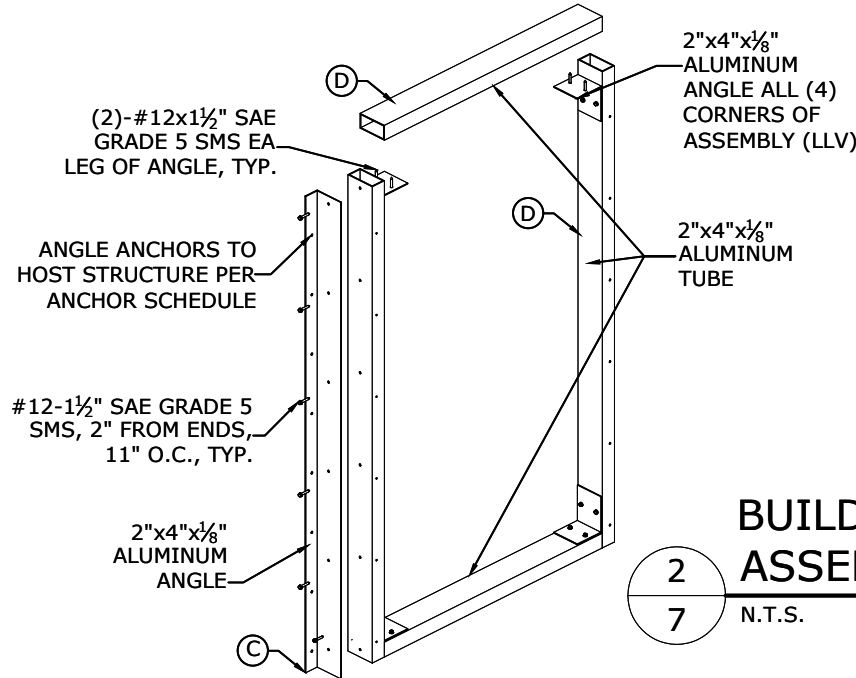


1350 DENIER (3300 YDS/LB) ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE

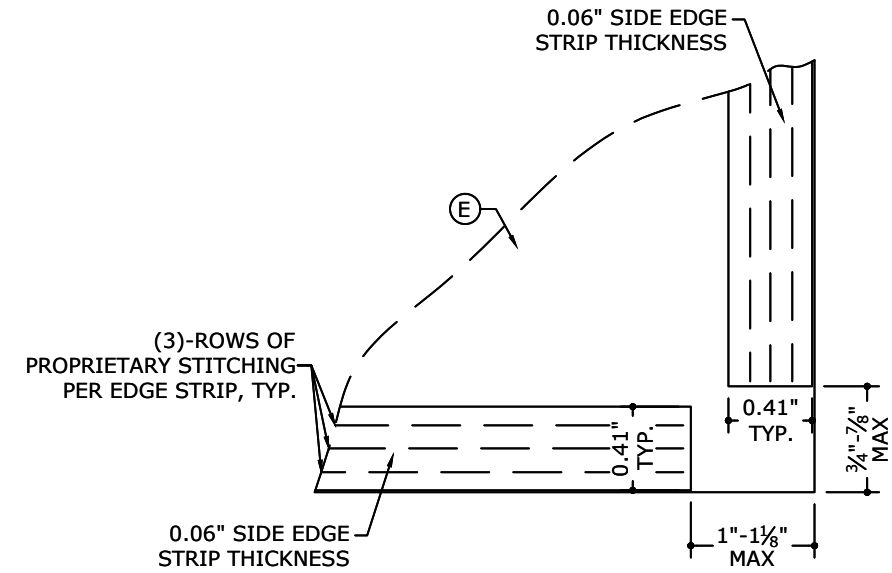
E FABRIC SHIELD
6" = 1'-0" POLYETHYLENE



1 FABRIC-SHIELD FRAME ASSEMBLY
7 N.T.S. ISOMETRIC



2 BUILD OUT TUBE ASSEMBLY
7 N.T.S. ISOMETRIC



3 FABRIC SHIELD THICKENED EDGE
7 N.T.S. ISOMETRIC



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FABRIC-SHIELD™ PULL-DOWN SHUTTER
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REMARKS	DRWN	CHKD	DATE
INIT ISSUE	CSL	TSB	05/23/13
DRAWING NO. 13-WDF-02	RWN	CSL	02/06/15
(SHU-112) REV. TO 2018 IBC/IRC	EPR	RWN	06/03/22

22-51549

SCALE: NTS UNLESS NOTED