FM Approvals Standard 4881

SPANS BASED ON RATINGS[1] OF VARIOUS PANEL MANUFACTURERS[11]

Manufacturer	Panel Width	Thickness	Fastening Pattern[10]	Class Rating, Zone H[2]																				Class Rating, Zone HM-LM[2]						
				+30/-42	+35/-49	+40/-56	+45/-63	+50/-70	+55/-77	+60/-84	+65/-91	+70/-98	+75/-105	+80/-112	+85/-119	+90/-126	+95/-133	+100/140	+105/-147	+110/-154	+115/-161	+120/-168	+130/-182	+30/-42	+60/-84	+75/-105	+85/-119	+100/-140	+110/-154	+125/-175
Metl-Span[3]	CF-24	2"	FP1			8'-0"	7'-0"	6'-0"		5'-0"				4'-0"																
		2.5"	FP1			8'-0"	7'-0"	6'-0"		5'-0"					4'-0"															
		3"	FP1				8'-0"	7'-0"		6'-0"		5'-0"				4'-0"														
		4", 5", 6"	FP1						8'-0"	7'-0"		6'-0"		5'-0"					4'-0"											
	CF-30	2"	FP1	6'-0"	5'-0"					4'-0"																				
		2.5"	FP1	8'-0"		6'-0"	5'-0"			4'-0"																				
		3"	FP1	8'-0"		6'-0"	5'-0"					4'-0"																		
		4", 5", 6"	FP1	8'-0"		6'-0"	5'-0"							4'-0"																
	CF-36	2"	FP1	6'-0"	5'-0"			4'-0"																						
		2.5"	FP1	8'-0"		5'-0"		4'-0"																						
		3"	FP1	8'-0"	6'-0"	5'-0"			4'-0"																					
		4", 5", 6"	FP1	8'-0"		6'-0"	5'-0"					4'-0"																		
	CF-24 to CF-42 Panels	2"	FP1	6'-0"	5'-0"		4'-0"																							
			FP2	9'-3"	7'-0"		6'-0"		5'-0"			4'-0"																		
			FP4	12'-0"	10'-0"	9'-0"	8'-0"	7'-0"		6'-0"		5'-0"				4'-0"					3'-0"			12'-0"			4'-0"		3'-0"	
			FP10		12'-9"	11'-0"	10'-0"	9'-0"	8'-0"	7'-0"			6'-0"																	
		2.5"	FP1	6'-0"	5'-0"		4'-0"																							
			FP2	9'-0"	7'-0"		6'-0"		5'-0"			4'-0"																		
			FP4	12'-0"	10'-0"	9'-0"	8'-0"	7'-0"		6'-0"		5'-0"				4'-0"					3'-0"			12'-0"			4'-0"		3'-0"	
			FP10		12'-9"	11'-0"	10'-0"	9'-0"	8'-0"		7'-0"			6'-0"																
		3"	FP1		6'-0"	5'-0"		4'-0"																						
			FP2	9'-0"	8'-0"	7'-0"	6'-0"	5'-0"					4'-0"																	
			FP4	12'-0"	10'-0"	9'-0"		8'-0"	7'-0"		6'-0"		5'-0"				4'-0"					3'-0"		12'-0"			4'-0"		3'-0"	
			FP10		12'-9"	12'-0"	11'-0"	10'-0"	9'-0"	8'-0"		7'-0"			6'-0"															
		4", 5", 6"	FP1	8'-0"		6'-0"	5'-0"			4'-0"																				
			FP2	11'-10"	9'-0"	8'-0"	7'-0"	6'-0"		5'-0"				4'-0"																
			FP4	14'-6"	12'-0"	10'-0"	9'-0"		8'-0"	7'-0"			6'-0"	5'-0"					4'-0"				3'-0"	14'-6"						3'-0"
			FP10		15'-9"	14'-0"	12'-0"	11'-0"	10'-0"	9'-0"		8'-0"		7'-0"			6'-0"													
	CF-36 Insul-Rib	2.5"	FP1	6'-0"	5'-0"		4'-0"																							
			FP11		12'-9"	11'-0"	10'-0"	9'-0"	8'-0"		7'-0"			6'-0"																
		3"	FP1		6'-0"	5'-0"		4'-0"																						
			FP11		12'-9"	12'-0"	11'-0"	10'-0"	9'-0"	8'-0"		7'-0"			6'-0"															
		4", 5", 6"	FP1	8'-0"		6'-0"	5'-0"			4'-0"																				
			FP11		15'-9"	14'-0"	12'-0"	11'-0"	10'-0"	9'-0"		8'-0"		7'-0"			6'-0"													
Competitor A[4]	40"	2.5" to 6"	System A[4]	7'-3"	5'-0"		4'-0"	3'-0"																						
			System B[4]	9'-0"	7'-0"		6'-0"		5'-0"			4'-0"																		
		4" to 6"	System C[4]	14'-0"	12'-0"	10'-0"	9'-0"	8'-0"		7'-0"		6'-0"		5'-0"					4'-0"											
Competitor B[5]	12"	2" to 3"	FP1							6'-0"																				
	12" to 36"	2" to 3"	FP1					6'-0"		5'-0"			4'-0"		3'-0"			2'-0"												
	30" to 36"	2" to 4"	FP1			6'-0"																								
		2.75"	FP1										5'-0"																	
		4"	FP1													5'-0"														
Competitor C[6]	42"	2" to 6"	FP1	7'-3"	6'-0"	5'-0"	4'-0"		3'-0"																					
Competitor D[7]	24" to 42"	2" to 8"	FP5																	4'-0"					6'-0"	5'-0"		4'-0"		
	38.9"	1.6" to 4"	SPCL																	4'-0"					6'-0"	5'-0"		4'-0"		
Competitor E[8]	42"	1.6" to 4"	FP1	7'-0"																										
		2" to 6"	FP1	8'-0"		6'-0"	5'-0"			4'-0"																				
Competitor F[9]	24" to 36"	2" Option A	FP1	3'-0"																										
		2" Option B	FP1								3'-0"																			

1. Ratings are two times the design pressures established in FM Global Property Loss Prevention Data Sheet 1-28
2. Zone H covers Hurricane and Non-Hurricane zones. Zone HM-LM covers Hurricane zones with Large Missile Impact
3. Metl-Span side joint clip requires two self-drilling or self-tapping screws in minimum 14 gage steel
4. Competitor A side joint clip requires three self-drilling or self-tapping screws in minimum 14 gage steel. System A = Side Joint Clip Only. System B = Side Joint Clip + One Fab-Lok. System C = Side Joint Clip + Three Fab-Loks
5. Competitor B side joint clip requires one self-drilling or self-tapping screw in minimum 3/16" steel
6. Competitor C side joint clip requires two self-drilling screws in minimum 14 gage steel
7. Competitor D side joint clip requires two self-tapping screws in minimum 1/4" steel
8. Competitor E side joint clip requires two self-drilling or self-tapping screws in minimum 14 gage steel
9. Competitor F side joint clip requires two self-tapping Type A or Type B in minimum 14 gage steel
10. FP1 = Side Joint Clip Only. FP2 = Side Joint Clip + One Fab-Lok. FP3 = Side Joint Clip + Two Fab-Loks FP4 = Side Joint Clip + Three Fab-Loks. FP5 = Side Joint Clip + Four Fab-loks. FP10 = Five self-drilling or self-tapping screws with neoprene bonded washer through entire panel thickness. FP11 = Five self-drilling or self-tapping screws with neoprene bonded washer through the low cell of the panels
11. Every attempt has been make to present accurate data. Refer to fmapprovals.com website to confirm data. Manufacturers' data was obatined from FM Website on July 01, 2014