FM Approvals Standard 4881

SPANS BASED ON RATINGS OF VARIOUS PANEL MANUFACTURERS

Manufacturer	Panel Width	Thickness	Fastening Pattern	Class Rating, Zone H																		Class Rating, Zone HM-LM						
				+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	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	10'-8"	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"													
	24" to 36"	2" to 3"	FP1											4'-0"																
	24" to 36"	4" to 6"	FP1																4'-0"											
Competitor A	24" to 42"	2" to 8"	FP5																	4'-0"										
	38.9"	1.6" to 4"	SPCL																	4'-0"										
	24" to 36"	2" to 4"	FP5																	4'-0"										
	24" to 42"	2" to 8"	FP5																									4'-0"		
	38.9"	1.6" to 4"	SPCL																									4'-0"		
	24" to 36"	2" to 4"	FP5																									4'-0"		
	24" to 42"	2" to 8"	FP5																								5'-0"			
	38.9"	1.6" to 4"	SPCL																								5'-0"			
	24" to 36"	2" to 4"	FP5																								5'-0"			
	24" to 42"	2" to 8"	FP5																							6'-0"				
	38.9"	1.6" to 4"	SPCL																							6'-0"				
	24" to 36"	2" to 4"	FP5																							6'-0"				
Competitor B	42"	2" to 6"	FP1	8'-0"		6'-0"	5'-0"			4'-0"																				
Competitor C	40" Wide Panels	2.5" to 6"	FP1	7'-3"	5'-0"		4'-0"	3'-0"																						
			FP2	9'-0"	7'-0"		6'-0"		5'-0"			4'-0"																		
		4", 5", 6"	FP4	14'-0"	12'-0"	10'-0"	9'-0"	8'-0"		7'-0"		6'-0"		5'-0"					4'-0"											
Competitor D	12" to 36"	2", 3"	FP1					6'-0"		5'-0"			4'-0"		3'-0"			2'-0"												
	30" to 36"	2" to 4"	FP1			6'-0"																								
	30" to 36"	2.75"	FP1										5'-0"																	
	30" to 36"	4"	FP1													5'-0"														
Competitor E	24" to 42"	2" to 6"	FP1	7'-0"	6'-0"	5'-0"	4'-8"																							
Competitor F	24" or 30"	2" to 6"	FP1	7'-0"			4'-0"																							
	36" or 42"	2" to 6"	FP1	6'-0"	5'-0"				3'-0"																					
			FP3	7'-0"	6'-0"	5'-0"		4'-0"				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's side joint clip requires two self-drilling or self-tapping screws in minimum 14 gage steel
4. Competitor A's side joint clip requires two self-tapping screws in minimum 1/4" steel
5. Competitor B's side joint clip requires two self-drilling or self-tapping screws in minimum 14 gage steel
6. Competitor C's side joint clip requires three self-drilling or self-tapping screws in minimum 14 gage steel
7. Competitor D's side joint clip requires one self-drilling or self-tapping screw in minimum 3/16" steel
8. Competitor E's side joint clip requires two self-tapping screws in minimum 14 gage steel
9. Competitor F's side joint clip requires two self-drilling or self-tapping screws in mimimum 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. Metl-Span and Competitor C's data is from published FM 4881 reports. Other manufactures data is obatined from FM Website on June 14, 2011