

Insulation Attachment Table For Mechanically Attached Systems
(Meets FM attachment requirements*)

NUMBER OF FASTENERS					
Insulation Type	Board Size	Thickness	Fasteners/Board		
			Field	Perimeter	Corner
Isocyanurate	4x4	any	4	4	4
	4x8	1/2" - 1.2"	6	6	6
	4x8	≥1.3"	5	5	5
Perlite	4x4	any	4	4	4
Wood fiber	4x4	any	4	4	4
	4x8	any	6	6	6
Extruded Polystyrene***	4x4	any	4	4	4
	4x8	1/2" – 1.2"	6	6	6
	4x8	≥1.3"	5	5	5
Expanded Polystyrene***	4x4	any	4	4	4
	4x8	1/2" – 1.2"	6	6	6
	4x8	≥1.3"	5	5	5
XEPS Fanfold – TPO or Fleece backed PVC only	Fanfold**	3/8" min.	2-1-2-1-2	2-1-2-1-2	2-1-2-1-2
Gypsum Board	4x8	1/4" – 5/8"	6	6	6
TYPE OF INSULATION FASTENER					
Deck	Fastener	Plate	Penetration (minimum)		
Steel – all gauges	Drill*Tec HD (#14) or Standard (#12)	3" Galvalume	3/4" through the deck		
Wood – plank and sheathing	Drill*Tec HD (#14) or Standard (#12)	3" Galvalume	1" thread into/through the deck		
Structural Concrete	Drill*Tec HD (#14) or Drill*Tec Spike	3" Galvalume	1" thread/shank into the deck		
Insulating Concrete	Drill*Tec HD (#14)	3" Galvalume	3/4" thread through steel form		
Gypsum Concrete	Drill*Tec Polymer screw	3" Galvalume	1 1/2" thread into the deck		
Cementitious Wood Fiber	Drill*Tec Polymer screw	3" Galvalume	1 1/2" thread into the deck		

*Attachment requirements to meet determined uplift resistance are dependent on deck type, specific fastener, etc. Refer to FM Loss Prevention Data Sheet 1-28.

**Fanfold attachment spacing is for each 2'x4' section.

***Smooth PVC must have 3/6 oz. polymat separator sheet.