

INSULATION ATTACHMENT TABLE FOR FULLY ADHERED SYSTEMS

NUMBER OF FASTENERS								
Insulation Type	Board Size	Thickness	Standard Attachment Fasteners/Board			FM Attachment Fasteners/Board		
			Field	Perimeter	Corner	Field	Perimeter	Corner
Isocyanurate	4x4	1" – 1.4"	8	12	15			
	4x4	1.5" – 1.9"	6	8	10	6 (8)	8 (12)	10 (14)
	4x4	2" minimum	4	6	8	4 (4)	6 (6)	8 (8)
	4x8	1" – 1.4"	16	24	28			
	4x8	1.5" – 1.9"	11	16	20	11 (16)	16 (24)	20 (28)
	4x8	2" minimum	8	12	15	8 (8)	12 (12)	15 (15)
EPS/XEPS ¹	4x4	1" – 1.4"	8	12	15			
	4x4	1.5" – 1.9"	6	8	10			
	4x4	2" minimum	4	6	8			
	4x8	1" – 1.4"	16	24	28			
	4x8	1.5" – 1.9"	11	16	20			
	4x8	2" minimum	8	12	15			
Gypsum Board	4x8	1/4" – 5/8"	16	24	28			
	4x8	1/2" minimum				16 (21)	24 (32)	28 (36)
Wood Fiber	4x4	1/2" minimum	6	8	10			
	4x4	1" minimum	4	6	8			
	4x8	1/2" minimum	8	12	10			
TYPE OF INSULATION FASTENERS								
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
- Numbers in FM section indicate I-60 attachment and numbers in () indicate FM I-90 fastener attachment patterns
- ¹Water based adhesive only fully adhering to EPS/XEPS insulation boards; no smooth PVC membrane direct to EPS/XEPS