

Membrane + Insulation Attachment

Fastener Substrates

TABLE 1.05-1
ALLOWABLE FASTENER AND SUBSTRATE CONFIGURATIONS

Firestone Fastener		ADHERED MEMBRANE SYSTEMS	Mechanically Attached Membrane Systems		Acceptable for 20-year warranty	Steel Decks	Structural Concrete Decks	Plywood or OSB Decks	Cementitious Wood Fiber Decks	Gypsum Decks	Lightweight Insulating Concrete Decks	
TIS Sheet No.	Fastener										(See Section 1.06 F for additional requirements)	
		Insulation Attachment	Insulation Attachment	Membrane Batten Strips or Seam Plates							Steel Pan	Concrete
1001	All-Purpose Fastener	✓	✓	✓		✓		✓				
1002	Heavy-Duty Fastener	✓	✓	✓	✓	✓	✓	✓			✓	✓
1005	Concrete Drive Fastener	✓	✓	✓	✓		✓					✓
1006	Polymer Fastener	✓	✓	✓	✓				✓	✓		
1007	Firestone AccuTrac Kit	✓	✓			✓		✓				
1009	HD Plus Fastener	✓	✓	✓	✓	✓						
1011	Purlin Fastener			✓								
1012	LWC Base Ply Fastener				✓					✓	✓	✓
For the attachment of base sheets: Insulation may not be attached with LWC Base Ply Fastener												
1013	#12 Belted Fastener	✓	✓			✓		✓				
1014	#15 Belted Fastener	✓	✓		✓	✓		✓				
1015	Nail Driver							✓				
For the attachment of base sheets: Insulation may not be attached with nails of any kind												
1019	HailGuard Fastener	✓	✓		✓	✓	✓	✓			✓	✓

✓ = Acceptable for use

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TABLE 1.08-3
CHART OF INSULATION ATTACHMENT OPTIONS
(MECHANICAL ATTACHMENT)

Structural Deck To Which Insulation/ Cover Board Will Be Mechanically Attached	Attachment Method							
	Firestone All Purpose (AP) and Plates	Firestone Heavy Duty (HD) and Plates	Firestone Polymer Fasteners and Plates	Firestone Concrete Drives and Plates	Firestone Belted Fastener and Plates	Firestone Hail/Gard	Minimum penetration of fastener into/ through deck	
Steel	✓	✓	N/A	N/A	✓	✓	¾" (19mm) through deck	
Structural Concrete	N/A	✓	N/A	✓	N/A	✓	Heavy Duty(HD) or HailGard	1" (25.4mm) into deck
							Concrete Drives	1¼" (31.7mm) into deck
Plywood or OSB	✓	✓	N/A	N/A	✓	✓	1" (25.4mm) into or through deck	
Wood Plank	✓	✓	N/A	N/A	✓	✓	1" (25.4mm) into or through deck	
Gypsum	N/A	N/A	✓	N/A	N/A	N/A	1½" (38.1mm) into deck.	
Cementitious Wood Fiber	N/A	N/A	✓	N/A	N/A	N/A	1½" (38.1mm) into deck.	
Lightweight insulating concrete over steel deck (See Section 1.06 H for additional requirements)	N/A	✓	N/A	N/A	N/A	✓	Heavy Duty (HD) or HailGard ¾" (19mm) through steel pan	
Lightweight insulating concrete over concrete deck (See Section 1.06 H for additional requirements)	N/A	✓	N/A	✓	N/A	✓	Heavy Duty (HD) or HailGard 1" (25.4mm) into the structural concrete deck.	
							Concrete Drives 1¼" (31.7mm) into the structural concrete deck.	
✓ = Acceptable for use N/A = Not Applicable								

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N/A = Not Applicable

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