







FASTENER SELECTOR GUIDE

SEAM ATTACHMENT








Screws

Product Name	Product Options	Product Color	Product Diameter	Deck Type	Available Lengths	FM Approval
All Purpose Fasteners	#3 Phillips Head 	Gray	#14	18 - 26 ga. metal, wood, & concrete	1 1/2", 2", 3", 4", 5", 6", 7", 8"	Yes
High Load Fasteners	#3 Phillips Head 	Blue	#15	18 - 26 ga. metal, wood, & concrete	1 1/4", 2", 3", 4", 5", 6", 7", 8", 9", 10", 12", 14", 16", 18", 20" (14" - 20" are Gray)	Yes
Extra High Load Fasteners	Oversized #3 Phillips Head 	Blue	#21	20 - 26 ga. metal & wood	2", 3", 4", 5", 6", 7", 8"	Yes

Pre-Assembled







Product Name	Product Options	Product Color	Product Diameter	Deck Type	Available Lengths	FM Approval
High Load Pre-Assembled	#3 Phillips Head 	Blue Screw with Galvalume Plate	#15 with 2 3/8" Eyehook™ Plate	18 - 26 ga. metal, wood, & concrete	2", 3", 4", 5", 6", 7", 8"	Yes

Plates

			Examples of Popular Mechanically Attached Constructions Over Steel Deck (80 ksi)			
Product Name	Material	Product Dimensions	Membrane	Fastener Type	Fastener Spacing	
Anchor Discs	Galvalume 	2" Round	Typically used with High Load Fastener for Termination of Single-Ply Membranes			
APB Plates	Galvalume 	2" Round with Barbs	7' or 10' EPDM	All Purpose	6" o.c.	1 - 90
<i>The same approvals exist using a High Load Screw and a High Load Plate</i>						
High Load Plates	Galvalume 	2 3/8" Round with Eyehooks	7' or 10' EPDM	High Load	6" o.c.	1 - 90
			6' or 8' TPO	High Load	12" o.c.	1 - 90
			78" PVC			
			6' or 8' TPO	High Load	18" o.c.	1 - 60
			78" PVC			
10' TPO	High Load	12" o.c.	1 - 60			
Extra High Load Plates	Galvalume 	3" Round with Eyehooks	10' TPO	Extra High Load	12" o.c.	1 - 90
Polymer Batten Strips	Proprietary Polymer 	1" wide x 250 ft.	10' EPDM	All Purpose	6" o.c.	1 - 105
High Load AccuSeam™ Plates	Galvalume 	2 3/8" Round with Eyehooks	These are standard High Load Plates specially stacked for use with the AccuSeam Automated System. They have equivalent approvals to the High Load Plate shown above.			
High Load Reel-Fast Plates	Galvalume 	2 3/8" Round with Eyehooks	These are standard High Load Plates collated on a plastic strip at 6" or 12" o.c. They have equivalent approvals to the High Load Plate shown above.			

For a complete listing of FM approvals, please contact Johns Manville.

SPECIALTY DECK ATTACHMENT




Product Name	Product Features	Product Material	Product Dimension	Deck Type	Available Lengths	Installation Requirements	Pre-Drill Required	FM Approval
Lightweight Concrete (LWC) Base Sheet Fasteners	Twin leg fastener design with integral plate 	G-90 painted steel fastener with Galvalume plate	2.7" dia. plate assembled to fastener	Lightweight Concrete	1.2" & 1.7"	Impact perpendicular to the roof deck using a magnetic driver	No	Yes
UltraLok® Fasteners	Impact fastener with tube, disk, and a locking staple 	G-90 steel fastener with Galvalume plate	2.7" dia. plate assembled to fastener	Gypsum & Cementous Wood Fiber	1.4", 1.8", 2.8", 3.8", 4.8"	2-step process: Drive fastener perpendicular to roof deck, then drive locking staple through tube/disk	No	Yes
Polymer Auger Fasteners	Plate and screw are designed to lock together to minimize backout and pop-up 	Solid Glass Reinforced Nylon	1 ¹ / ₁₆ " dia. screw with 1" dia. head	Gypsum & Cementous Wood Fiber	2 ³ / ₄ ", 3", 3 ¹ / ₂ ", 4", 4 ¹ / ₂ ", 5", 5 ¹ / ₂ ", 6", 6 ¹ / ₂ ", 7", 7 ¹ / ₂ "	Internal 1/4" square drive	In Gypsum 7/16" dia. (may vary based on substrate hardness)	Yes
Polymer Auger Plates		Galvalume	3" Square	Gypsum & Cementous Wood Fiber	-			
Structural Concrete Fasteners	Nail-In anchor with knurled thread 	Carbon Steel	#14 Knurl dia.	Structural Concrete	2", 2 ¹ / ₂ ", 3", 3 ¹ / ₂ ", 4", 5", 6", 7", 8", 9", 10"	Drill pilot hole and install with a 3 lb. hammer	Yes 7/32" dia.	Yes
UltraFast Metal Plates	Use Flat Bottom Product 	Galvalume	3" Round	Structural Concrete	-	-	-	Yes
Zinc Nail-In Anchors	One piece expansion body and expander drive pin 	Steel pin with zinc aluminum alloy sleeve	1/4" dia.	Termination fastening into concrete and masonry walls	1 1/4"	Drill pilot hole and hammer in anchor	Yes 1/4" dia.	No






FASTENER SELECTOR GUIDE

INSULATION ATTACHMENT




Screws


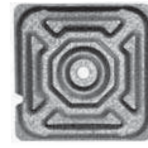

Product Name	Product Options	Product Color	Product Diameter	Deck Type	Available Lengths	FM Approval
UltraFast® Fasteners	#3 Phillips Head 	Blue	#12	18 - 26 ga. metal & wood	1 ⁵ / ₈ " , 2 ¹ / ₄ " , 2 ⁷ / ₈ " , 3 ¹ / ₄ " , 3 ³ / ₄ " , 4 ³ / ₈ " , 5" , 6" , 7" , 8"	Yes
	1/4" Hex Head 	Blue				
All Purpose Fasteners	#3 Phillips Head 	Gray	#14	18 - 26 ga. metal, wood, & concrete	1 ¹ / ₂ " , 2" , 3" , 4" , 5" , 6" , 7" , 8"	Yes

Pre-Assembled

Product Name	Product Options	Product Color	Product Diameter	Deck Type	Available Lengths	FM Approval
UltraFast Pre-Assembled Fasteners	UltraFast Phillips with UltraFast Plastic Plate 	Blue Fastener with Blue Plate	#12 Screw with 3" Plate	18 - 26 ga. metal & wood	2 ¹ / ₄ " , 2 ⁷ / ₈ " , 3 ¹ / ₄ " , 3 ³ / ₄ " , 4 ³ / ₈ " , 5" , 6" , 7" , 8"	Yes
	UltraFast Phillips with UltraFast Metal Plate 	Gray Fastener with Galvalume Plate				
	UltraFast Hex with UltraFast Metal Plate (Special order only) 	Gray Fastener with Galvalume Plate				

Plates

Product Name	Product Options	Product Color	Product Diameter	Typically Used With
UltraFast Metal Plates	Recessed 	Galvalume®	3" Round	Hex or Phillips Head Fasteners (Standard Plate)
	Flat Bottom 			Phillips Head Fasteners when directly over hard board substrates (i.e. plywood, OSB)
UltraFast Plastic Plates	Low Profile 	Blue	3" Round	Hex or Phillips Head Fasteners

Product Name	Product Options	Product Color	Product Diameter	Typically Used With
UltraFast AccuTrac™ Plates	Recessed 	Galvalume	3" Square	The AccuTrac automated system and Hex head fasteners
	Flat Bottom 			The AccuTrac automated system and Phillips head fasteners
Heavy-Duty Low Profile Plate	Flat Surface 	Galvalume	2 ³ / ₄ " Square	Used where a flat plate (no ribs) helps performance or aesthetics (Equivalent approvals to the UltraFast Plate)

Typical Pullout Values

Fastener	18 ga. Steel (80 ksi)	20 ga. Steel (80 ksi)	22 ga. Steel (80 ksi)	24 ga. Steel (80 ksi)	26 ga. Steel (80 ksi)	1/2" Plywood	1" Wood Plank	Structural Concrete (1" embedment depth)
UltraFast (#12)	894 lbs.	656 lbs.	488 lbs.	425 lbs.	294 lbs.	326 lbs.	784 lbs.	N/A
All Purpose (#14)	918 lbs.	693 lbs.	534 lbs.	419 lbs.	277 lbs.	436 lbs.	595 lbs.	844 lbs. (3000 psi with 3/16" pilot hole)
High Load (#15)	1323 lbs.	928 lbs.	690 lbs.	586 lbs.	403 lbs.	499 lbs.	747 lbs.	1009 lbs. (3750 psi with 7/32" pilot hole)
Extra High Load (#21)	N/A	1140 lbs.	977 lbs.	685 lbs.	495 lbs.	725 lbs.	N/A	N/A
Structural Concrete Fastener	N/A	N/A	N/A	N/A	N/A	N/A	N/A	955 lbs. (3000 psi with 7/32" pilot hole)



Please call 800-922-5922 for technical information.

Johns Manville
Roofing Systems Group
717 17th Street
Denver, CO 80202
www.jm.com

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