

INSULATION ATTACHMENT

SCREWS

Product Name	UltraFast® Fastener	All Purpose Fastener	UltraFast Pre-Assembled Fasteners	
Options	<p>#3 Phillips Head with Drill Point</p> <p>1/4" Hex Head with Spade Point</p>	<p>#3 Phillips Head</p>	<p>UltraFast Phillips with UltraFast Plastic Locking Plate</p>	<p>UltraFast Phillips or Hex* head with UltraFast Metal Plate</p> <p>*Hex head are special order only</p>
Color / Diameter	Phillips head – blue / #12 Hex head – black / #12	Gray / #14	#12 blue fastener with 3" blue plate	#12 blue fastener with 3" Galvalume® plate Hex head – black only
Deck Type	18–26 ga. metal & wood	18–26 ga. metal, wood & concrete	18–26 ga. metal & wood	
Available Lengths	1 5/8", 2 1/4", 3"–8" Phillips 1 5/8", 2 1/4", 2 7/8", 3 1/4", 3 3/4", 4 1/2", 5"–8" Hex	1 1/4"–24"	1 5/8", 2 1/4", 3"–8" Phillips 1 5/8", 2 1/4", 2 7/8", 3 1/4", 3 3/4", 4 1/2", 5"–8" Hex	

PLATES

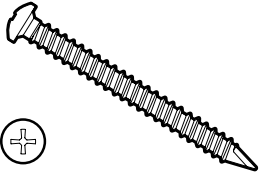
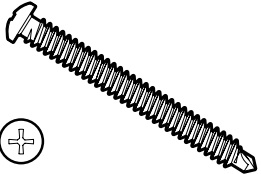
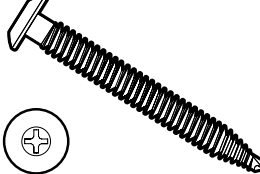
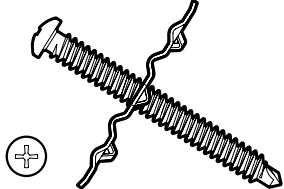
Product Name	UltraFast Metal Plates		UltraFast Plus Plate	UltraFast Plastic Locking Plate
Options	<p>Recessed</p>	<p>Flat bottom</p>	<p>Flat bottom</p>	<p>Low profile</p>
Color / Diameter	Galvalume / 3" round	Galvalume / 3" square	Galvalume / 3" square	Blue / 3" round
Typically Used With	Hex or Phillips head fasteners (standard plate)	Phillips Head fasteners when directly over hard board substrates (i.e., plywood, OSB)		Hex or Phillips head fasteners

Product Name	UltraFast AccuTrac® Plate		Heavy-Duty Low Profile Plate
Options	<p>Recessed</p>	<p>Flat bottom</p>	<p>Flat surface</p>
Color / Diameter	Galvalume / 3" square		Galvalume / 2 1/4" square
Typically Used With	AccuTrac automated system and Hex head fasteners	AccuTrac automated system and Phillips head fasteners	Used where a flat plate (no ribs) helps performance or aesthetics (Equivalent approvals to the UltraFast Plate)

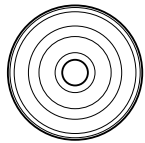
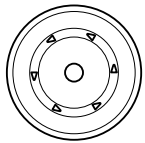
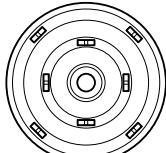
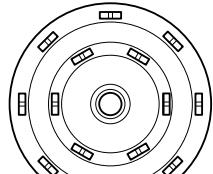
MEMBRANE ATTACHMENT

SCREWS

PRE-ASSEMBLED

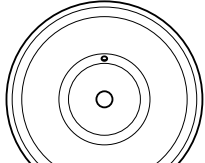
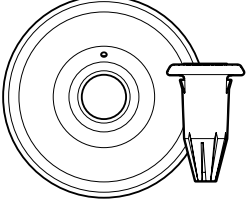

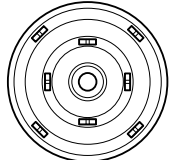
Product Name	All Purpose Fastener	High Load Fastener	Extra High Load Fastener	High Load Pre-Assembled
Options	 #3 Phillips Head	 #3 Phillips Head	 Oversize #3 Phillips Head	 #3 Phillips Head
Product Color / Diameter	Gray / #14	Blue / #15	Blue / #21	#15 blue screw with 2 3/8" Galvalume Eyehook plate
Deck Type	18–26 ga. metal, wood & concrete	18–26 ga. metal, wood	20–26 ga. metal & wood	18–26 ga. metal, wood
Available Lengths	1 1/4"–24"	1 1/4"–8", 10", 12" Blue 9", 11", 14"–20" Black	2"–8"	2"–8"

PLATES

Product Name	Anchor Disc	APB Plate	High Load Plate	Extra High Load Plate
Material	 Galvalume	 Galvalume	 Galvalume	 Galvalume
Dimensions	2" round	2" round with barbs	2 3/8" round with Eyehooks™	3" round with Eyehooks

Examples of Popular Mechanically Attached Constructions Over Steel Deck (80 ksi)

Membrane	Typically used with High Load Fastener for terminating single-ply membranes	7' or 10' EPDM	7' or 10' EPDM	6' or 8' TPO	78" PVC	6' or 8' TPO	78" PVC	10' TPO	10' TPO
Fastener Type		All Purpose	High Load					Extra High Load	
Fastener Spacing		6" o.c.	6" o.c.	12" o.c.	18" o.c.	12" o.c.	12" o.c.		

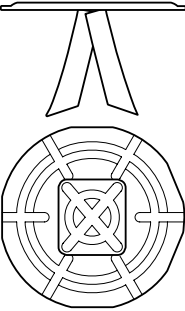
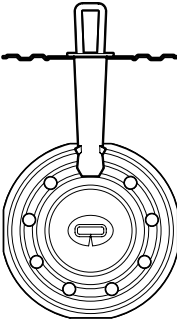
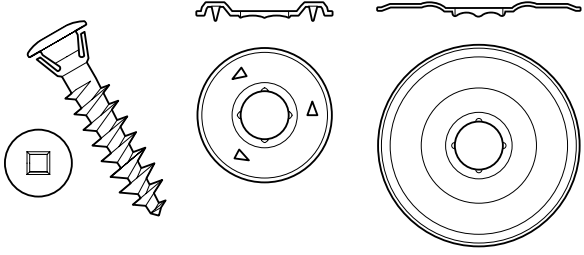
Product Name	PVC or TPO RhinoPlate®	TreadSafe™	Polymer Batten Strip	High Load AccuSeam™ Plate
Material	 Specially coated Galvalume	 PVC or TPO coated Galvalume plates & polymer tubes	 Proprietary Polymer	 Galvalume
Dimensions	3" round	3" round plate, 1 1/2" long tube	1" wide x 250 ft.	2 3/8" round with Eyehooks

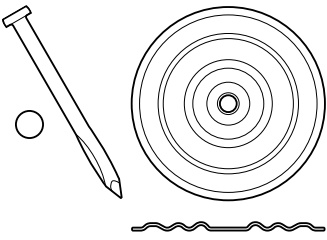
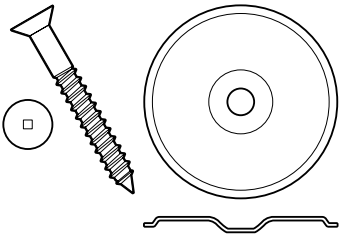
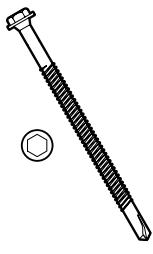
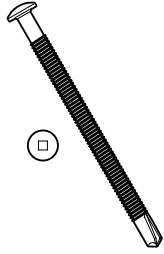
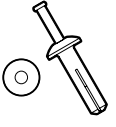
Examples of Popular Mechanically Attached Constructions Over Steel Deck (80 ksi)

Membrane	PVC or TPO	PVC or TPO	10' EPDM	These are standard High Load Plates specially stacked for use with the AccuSeam automated system. They have equivalent approvals to the High Load Plate.
Fastener Type	High Load or Extra High Load Fastener	High Load or RetroDriller Fastener	All Purpose	
Fastener Spacing	Contact JM technical	Contact JM technical	6" o.c.	

*The same approvals exist using a High Load Screw and High Load Plate.

SPECIALTY DECK ATTACHMENT

Product Name	Lightweight Concrete (LWC) Base Sheet Fastener	UltraLok® Fastener	Polymer Auger Fastener	Polymer Auger Plates
Product Features	 Twin leg fastener design with integral plate	 Impact fastener with tube, disk, and locking staple	 Plate and screw are designed to lock together to minimize back-out and pop-up	
Product Material	G-90 painted steel fastener with Galvalume plate	G-90 steel fastener with Galvalume plate	Solid glass reinforced nylon	Galvalume
Dimensions	2.7" dia. plate assembled to fastener	2.7" dia. plate assembled to fastener	.675" dia. screw with 1" dia. head	2" round (membrane) and 3" round (insulation)
Deck Type	Lightweight insulating concrete & gypsum	Gypsum & cementitious wood fiber	Gypsum & cementitious wood fiber	Gypsum & cementitious wood fiber
Available Lengths	1.2", 1.7"	1.4", 1.8", 2.8", 3.8", 4.8"	2½"–12"	NA
Installation Requirements	Impact perpendicular to roof deck using a magnetic driver	2-step process: Drive fastener perpendicular to roof deck, then drive locking staple through tube/disk	¼" square drive	NA
Pre-Drill Required	No	No	In gypsum, 7/16" dia. (may vary based on substrate hardness)	NA

Product Name	Structural Concrete Fastener	UltraFast Metal Plate	Lite-Deck Fastener	Lite-Deck Plate	Purlin Fastener	RetroDriller Fastener	Zinc Nail-in Anchor
Product Features	 Nail-in anchor / Use flat bottom plate		 3" square drive		 ¼" hex head	 #3 square drive ½" drill point	 One-piece expansion body and expander drive pin
Dimensions	NA	3" round	NA	3"	NA	NA	¼" dia.
Deck Type	Structural concrete		Lightweight insulating concrete, gypsum, cementitious wood fiber		Structural steel purlins (12–18 gauge)	Structural steel purlins (up to ¾")	Termination fastening into concrete and masonry walls
Available Lengths	2", 2½", 3", 3½", 4"–12"	NA	2⅝", 3"–10", 12"	NA	3¾", 4¾", 5¾", 7", 8"	5", 6", 8", 10"	1¼"
Installation Requirements	Drill pilot hole and install with a 3 lb. hammer	NA	Drill pilot hole for gypsum and lightweight decks	NA	Use high torque, low RPM screw gun (0–1800 RPM)	Use high torque, low RPM screw gun (0–1800 RPM)	Drill pilot hole and hammer in anchor
Pre-Drill Required	Yes 7/32" dia.	NA	Yes	NA	No	No	Yes ¼" dia.

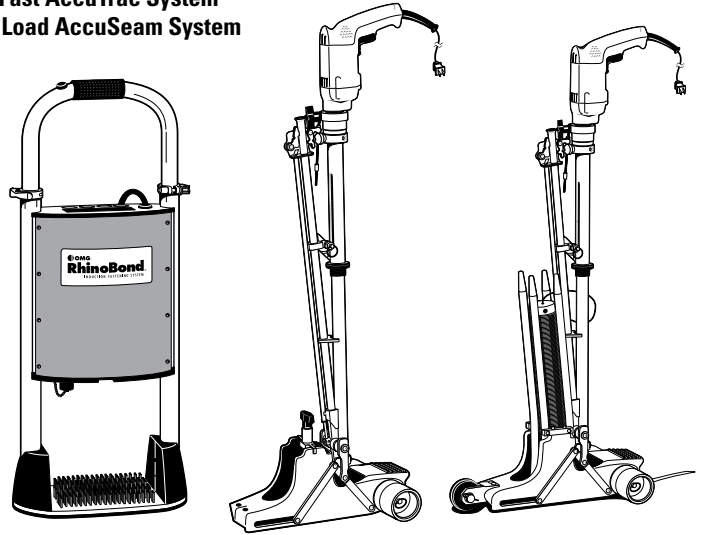
INSULATION ADHESIVE

JM Two-Part Urethane Insulation Adhesive



INSTALLATION SYSTEMS

JM RhinoPlate™ System
UltraFast AccuTrac System
High Load AccuSeam System



TYPICAL PULLOUT VALUES

Fastener	UltraFast (#12)	All Purpose (#14)	High Load (#15)	Extra High Load (#21)	Structural Concrete Fastener
18 ga. Steel (80 ksi)	894 lbs.	918 lbs.	1323 lbs.	NA	NA
20 ga. Steel (80 ksi)	656 lbs.	693 lbs.	928 lbs.	1140 lbs.	NA
22 ga. Steel (80 ksi)	488 lbs.	534 lbs.	690 lbs.	977 lbs.	NA
24 ga. Steel (80 ksi)	425 lbs.	419 lbs.	586 lbs.	685 lbs.	NA
26 ga. Steel (80 ksi)	294 lbs.	277 lbs.	403 lbs.	495 lbs.	NA
½" Plywood*	326 lbs.	410 lbs.	499 lbs.	725 lbs.	NA
1" Wood Plank*	734 lbs.	820 lbs.	747 lbs.	NA	NA
Structural Concrete (1" embed. depth)	NA	844 lbs. (3000 psi with ⅜" pilot hole)	NA	NA	955 lbs. (3000 psi with ⅜" pilot hole)

*Pullout values for wood decks are subject to variation due to wood species, wood grade and, for plywood, the number of plies. Always perform pull tests to determine deck suitability.



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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