

isofast® Product Data Sheet for JohnsManville Roof Systems



#12 Belted Fastener:

Collated fastener for insulation and membrane attachment

isofast belted fasteners are designed for use with the IF-160 or IF-240 automatic installation system.

For insulation attachment:

IF-L-70x70 Galvalume plate



Phillips Head Fastener

Material: Case hardened carbon steel
 Thread Diameter: 0.222"
 Shank Diameter: 0.167"
 Head Diameter: 0.448"
 Head Style: #3 Phillips
 Point Type: Drill point
 Coating: SFS intec e-coat
 Meets FM 4770 corrosion protection

Pull-out Values

Steel Deck:	18 ga.	787 lbs.
	22 ga.	513 lbs.
	20 ga.	695 lbs.
Plywood:	3/4"	575 lbs.
2X Dim Lumbs:	1" pen.	462 lbs.

Pull-out values obtained from laboratory testing.
 Field testing should be conducted to obtain exact results for each specific application.

JM UPC #	Size	SFS Part #	Thread Length	Pieces/Ctn	Weight/Ctn
126211201	#12 x 2-1/4"	785705	Full	750	13
1274893	#12 x 2-7/8"	785724	Full	750	15
1274844	#12 x 3-1/4"	785746	Full	750	17
1274810	#12 x 3-3/4"	785770	Full	750	20
1274851	#12 x 4-1/2"	785787	4"	750	23
1274869	#12 x 5"	785804	4"	750	25
1274877	#12 x 6"	785813	4"	750	30
TBD	#12 x 7"	1296243	4"	750	36
TBD	#12 x 8"	1296248	4"	500	40
1135813	IF-L-70x70 insul. plate	735650	N/A	750	61
126253401	82x40 domed plates	792763	N/A	750	41

Application

Fasteners are designed for the attachment of insulation to steel (18-24 ga.) and wood. To meet FM requirements, the fastener must penetrate the high rib of the steel deck 3/4". Minimum penetration in wood is 1". The #12 belted fasteners and plates **must** be installed using the IF-160 or IF-240 automatic installation tool available from SFS intec. Use of the IF-160 and IF-240 installation tool ensures reliable and consistent fastener and plate setting. Use the IF-160 to install belted fasteners up to 6" in length, and use the IF-240 for belted fasteners 7" or greater in length.

Technical Services

For assistance with design, testing or applications, contact SFS intec's Technical Services Department.

SFS intec, Inc.
 Wyomissing, PA 19610
 Phone: 800-DEKFAST
 fax: 610-376-8551
 www.sfsintecusa.com



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HighLoad Plus™:

Collated fastener for membrane attachment utilizing high performance fastening patterns

The HighLoad Plus™ belted fastener is designed for automatic installation and is engineered to provide exceptional membrane system performance. The HighLoad Plus™ belted fastener offers these technical advantages:

- Superior pull-out performance.
- Specially designed buttress thread for increased back-out resistance.
- Expanded Factory Mutual Ratings
- Approved for steel and wood decks



#15-13 Phillips Head Fastener

Material: Case hardened carbon steel
 Thread Diameter: 0.260"
 Shank Diameter: 0.205"
 Head Diameter: 0.435"
 Head Style: #3 Phillips recess
 Point Type: Reduced drill point
 Coating: SFS intec e-coat
 Meets FM 4770 corrosion protection

Pull-out Values

Steel Deck:	18 ga.	1140 lbs.
	20 ga.	898 lbs.
	22 ga.	706 lbs.
Plywood:	3/4"	703 lbs.

Seam Barbed Plate

Diameter: 2-3/8"
 Material: AZ 50
 Thickness: 0.040"

JM UPC#	Size	SFS Part #	Thread Length	Pieces/Ctn	Weight/Ctn
1257690	#15 x 2"	1297395	Full	1000	20
1257708	#15 x 3"	1297401	Full	1000	31
1257716	#15 x 4"	1060285	Full	500	20
1257724	#15 x 5"	1297411	4"	500	30
1257732	#15 x 6"	1297420	4"	500	32
TBD	#15 x 7"	1297427	4"	500	35
TBD	#15 x 8"	1297433	4"	500	38
TBD	#15 X 9"	1297438	4"	500	44
1257740	2-3/8" Barbed Plates	792759	N/A	500	24

Application

Fasteners are designed for the attachment of membrane to steel (18-24 ga.) and wood. To meet FM requirements, the fastener must penetrate the high rib of the steel deck 3/4". Minimum penetration in wood is 1". HighLoad Plus belted fasteners and plates **must** be installed using the IF-160 or IF-240 automatic installation tool available from SFS intec. Use of the IF-160 and IF-240 installation tool ensures reliable and consistent fastener and plate setting. Use the IF-160 to install belted fasteners up to 6" in length, and use the IF-240 for belted fasteners 7" or greater in length.

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