



PLYFAST® #21 FASTENER

Description: PLYFAST® #21 Fasteners are formed from heavy corrosion resistant steel and are designed to secure insulation and/or single ply membranes to standard steel (16 ga.–22 ga.) decks. It is available in lengths from 2-in. to 12-in. The PlyFast #21 Fastener is also Factory Mutual approved. Head Style: Available - #3 Phillips Truss Head.

Features & Benefits:

- Available with #3 Phillips truss head.
- Heavier shank and thread diameters for maximum strength and pullout resistance.
- For insulation/membrane attachment to steel.
- FM approved.

Corrosion Coating: Corrosion resistant coating exhibits less than 15% red rust which meets or exceeds FM 4470 corrosion standards and withstands 30 cycles of the Kesternich DIN 50018 SFW 2.0 test.

Application: PlyFast #21 Fasteners must penetrate steel decks a minimum of 3/4-in. decks. Using a screw gun, drive the fastener until a slight depression is seen around the plate, or with very rigid insulation boards, watch for the plate to dimple. **Note: Care must be taken not to overdrive the fastener and fracture the insulation facer.** Fastener must be tight enough so that the plate does not turn. For steel decks, Factory Mutual requires that the fastener penetrate the deck at the top flute.

Plate: Uses PlyFast® 3” Metal Stress Plate (sold separately).

Tools: For best installation result, use a variable speed 0–2500 RPM screw gun. Always use appropriate drive bit for fastener head. To speed installation, appropriate fastener parts are available pre-assembled or can be used with matching insulation plates, belted systems, or auto-feed installation tools. See PlyFast® Fastener Information Guide for specific details.

Approvals: PlyFast® #21 Fastener is listed or approved with Factory Mutual (FM). Contact U.S. Ply, Inc. for specific/applicable codes.

Fastening Pattern: Consult U.S. Ply Technical Department and/or Factory Mutual requirements for recommended patterns in normal, exposed, and high wind velocity areas.

Product Data: PLYFAST® #21 Fastener Phillips (typical)

Property	#21 Fastener F	#21 Fastener O
Head Type	#3 Phillips	#3 Phillips
Head Height	.130"	.130"
Head Dia. Max	.500"	.500"
Thread Major Dia.	.325"	.325"
Shank Dia.	.260"	.260"
Tensile Strength (lbs ult)	5000	5000
Shear Strength	4100	4100
Corrosion Resistance	< 15% Red Rust after 30 cycles	< 15% Red Rust after 30 cycles



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Product Data: PLYFAST® Ordering Information (typical):

Product	Screw Length*	Pieces/Box	Weight/Box # 21 - F	Pieces/Box	Weight/Box # 21 - O
#21 Fastener-F #21 Fastener-O	2"	500	18 lbs	500	18 lbs
#21 Fastener-F #21 Fastener-O	3"	500	24 lbs	500	24 lbs
#21 Fastener-F #21 Fastener-O	4"	500	28 lbs	500	28 lbs
#21 Fastener-F #21 Fastener-O	5"	500	35 lbs	500	35 lbs
#21 Fastener-F #21 Fastener-O	6	500	42 lbs	500	42 lbs
#21 Fastener-F #21 Fastener-O	7	250	26 lbs	250	26 lbs
#21 Fastener-F #21 Fastener-O	8	250	29 lbs	250	29 lbs
#21 Fastener-F #21 Fastener-O	10	250	35 lbs	250	35 lbs
#21 Fastener-F #21 Fastener-O	12	250	42 lbs	250	42 lbs

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY U.S. PLY, INC. EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.