



PLYFAST® #12 ASAP FASTENER

Description: PLYFAST® #12 ASAP Fasteners are pre-assembled fastener and plate for faster installation. The #12 fasteners are formed from corrosion resistant steel and are designed to secure insulation to standard steel (18 ga.–24 ga.) and wood decks. It is available in lengths from 1-5/8-in. to 8-in. PlyFast #12 ASAP Fastener is also Factory Mutual approved. Head Style: Two head styles available - #3 deep recess Phillips drive or 1/4" Hex washer head.

Features & Benefits:

- Choice of pre-assembled #12 Fastener and compatible 3" metal plate with either #3 Phillips or 1/4" Hex head style.
- Heavier shank and thread diameters than most "standard" roofing fasteners for high pullout resistance.
- 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 #12 ASAP Fasteners must penetrate steel decks a minimum of 3/4-in., wood plank decks a minimum of 1-in. and 1/2-in. through the underside for plywood 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.

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® #12 ASAP 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® #12 ASAP Fastener Phillips (typical)

| Property | #12 Fastener D | #12 Fastener T |
|----------------------------|--------------------------------|--------------------------------|
| Head Type | #3 Phillips | #3 Phillips |
| Head Height | .118" | .110" |
| Head Dia. Max | .448" | .438" |
| Thread Major Dia. | .222" | .214" |
| Shank Dia. | .167" | .160" |
| Tensile Strength (lbs ult) | 2410 | 2500 |
| Shear Strength | 1815 | 1900 |
| Corrosion Resistance | < 15% Red Rust after 30 cycles | < 15% Red Rust after 30 cycles |

Product Data: PLYFAST® #12 ASAP Fastener Hex (typical)

| Property | #12 Fastener Hex D | #12 Fastener Hex T |
|----------------------------|--------------------------------|--------------------------------|
| Head Type | 1/4" Hex | 1/4" Hex |
| Head Height | .118" | .128" |
| Head Dia. Max | .448" | .385" |
| Thread Major Dia. | .222" | .214" |
| Shank Dia. | .167" | .160" |
| Tensile Strength (lbs ult) | 2410 | 2500 |
| Shear Strength | 1815 | 1900 |
| Corrosion Resistance | < 15% Red Rust after 30 cycles | < 15% Red Rust after 30 cycles |

CORPORATE HEADQUARTERS: P.O. BOX 11740, FORT WORTH, TEXAS 76110

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Average Ultimate Pullout Values in Corrugated Steel Deck Substrates

| Fastener | Thickness | 24 ga. | 22 ga. | | 20 ga. | | | 18 ga. | | | |
|----------------|----------------|----------|----------|----------|-----------|----------|----------|-----------|----------|----------|-----------|
| | Yield Strength | 36.5 ksi | 33.0 ksi | 80.0 ksi | 102.0 ksi | 33.0 ksi | 80.0 ksi | 102.0 ksi | 33.0 ksi | 80.0 ksi | 102.0 ksi |
| #12 Fastener D | Pullout (lbf) | | 403 | 539 | | | 695 | | | 787 | |
| #12 Fastener T | Pullout (lbf) | 230 | 285 | 410 | 465 | 355 | 505 | 580 | 540 | 715 | 800 |

Average Ultimate Pullout Values in Wood Deck Substrates

| Fastener | Thickness | Plywood | | | OSB | | |
|----------------|----------------|---------|--------|--------|--------|--------|--------|
| | Yield Strength | 15/32" | 19/32" | 23/32" | 15/32" | 19/32" | 23/32" |
| #12 Fastener D | Pullout (lbf) | 419 | 409 | 544 | 216 | 420 | 248 |
| #12 Fastener T | Pullout (lbf) | 365 | 475 | 720 | 300 | 325 | 440 |

Product Data: PLYFAST® Ordering Information (typical):

| Product | Screw Length* | Pieces/Box | Weight/Box # 12 - D | Pieces/Box | Weight/Box # 12 - T |
|--|---------------|------------|---------------------|------------|---------------------|
| #12 ASAP Fastener-D #12 ASAP Fastener-T | 1-5/8" | 500 | 27 lbs | 250 | 11.4 lbs |
| #12 ASAP Fastener-D #12 ASAP Fastener-T | 2-1/4" | 250 | 14 lbs | 250 | 12.3 lbs |
| #12 ASAP Fastener-D #12 ASAP Fastener-T | 2-7/8" | 250 | 15 lbs | 250 | 13.1 lbs |
| #12 ASAP Fastener-D #12 ASAP Fastener-T | 3-1/4" | 250 | 16 lbs | 250 | 13.6 lbs |
| #12 ASAP Fastener-D #12 ASAP Fastener-T | 3-3/4" | 250 | 17 lbs | 250 | 14.4 lbs |
| #12 ASAP Fastener-D #12 ASAP Fastener-T | 4-1/2" | 250 | 18 lbs | 250 | 15.4 lbs |
| #12 ASAP Fastener-D #12 ASAP Fastener-T | 5 | 250 | 19 lbs | 250 | 16.1 lbs |
| #12 ASAP Fastener-D #12 ASAP Fastener-T | 6 | 250 | 20 lbs | 250 | 17.5 lbs |
| #12 ASAP Fastener-D #12 ASAP Fastener-T | 7 | 200 | 17 lbs | 250 | 19.1 lbs |
| #12 ASAP Fastener-D #12 ASAP Fastener-T | 8 | 200 | 19 lbs | 250 | 20.2 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.