

STEEL AND WOOD



Thermoplastic Single Ply and Multi-Ply Roofing Systems

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PRODUCT DESCRIPTION

The Flex Standard Roofing Fastener is designed to secure insulation to standard steel (18 ga. – 24 ga.) and wood. It is available in lengths from 1 5/8" – 8".

APPLICATION

The Flex Standard Roofing Fastener must penetrate steel decks a minimum of 3/4", wood plank decks a minimum of 1" and 1/2" through the underside for plywood decks. Using a screwshooter, 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 skin of the insulation. Fastener must be tight enough so that the plate doesn't turn.

For steel decks, Factory Mutual requires that the fastener penetrates the deck at the top flute.

To speed installation, this fastener is also available as a labor-saving screw and plate. See ASAP®.

STANDARD ROOFING FASTENER



Fast Facts

The Flex Standard Roofing Fastener is designed to secure insulation to steel and wood decks.

FEATURES & BENEFITS

- Heavier shank & thread diameters than most "standard" roofing fasteners.
- Deep buttress thread for high pullout resistance.
- Extra sharp spade point for quick installation in new or reroof applications.
- Available with hex head or #3 Phillips truss head.

COATING

Flex CR-10 corrosion resistant coating exhibits less than 15% red rust after 30 Kesternich cycles. CR-10 coating exceeds F.M. Approval Standard 4470.

PLATES & ACCESSORIES

Use appropriate steel or plastic plates, depending upon the application. See Plates section.

For best installation result, use a variable speed 0-2500 rpm screw gun. See Accessories section.

| PHYSICAL DATA | Cat. No. | Length | Thread Length | Packaging | Weight |
|---|----------|--------|---------------|-----------|--------|
| The data below is constant for each Flex Standard Roofing Fastener. Thread Diameter: .220 Head Diameter: Truss Head: .435 Hex Head: .390 Head Style: #3 Phillips Truss Head* 1/4" Hex Head* Coating: CR-10 *#3 Phillips bit or hex head drive included in each carton. | CR158 | 1 5/8" | Full | 1000 | 12 lb |
| | CR214 | 2 1/4" | Full | 1000 | 16 lb |
| | CR278 | 2 7/8" | Full | 1000 | 19 lb |
| | CR314 | 3 1/4" | 3" | 1000 | 22 lb |
| | CR334 | 3 3/4" | 3" | 1000 | 25 lb |
| | CR412 | 4 1/2" | 3" | 1000 | 29 lb |
| | CRST5 | 5" | 3" | 1000 | 35 lb |
| | CRST6 | 6" | 4" | 1000 | 42 lb |
| | CRST7 | 7" | 4" | 1000 | 48 lb |
| | CRST8 | 8" | 4" | 500 | 27 lb |

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STANDARD ROOFING FASTENER

SPECIFICATION

The fastener will be a Flex Standard Roofing Fastener with a thread diameter of .220. The fastener must have 12.5 buttress threads per inch and a 30° spade point. Also, the fastener must be heat treated per specification OMG-1. The Flex Standard Roofing Fastener will be used with a Factory Mutual approved, Flex round pressure plate or pressure bar. The fastener must be Factory Mutual approved and made in America.

COATING REQUIREMENT

The fastener will be coated with the Flex CR-10 corrosion resistant coating. When subjected to 30 Kesternich cycles (DIN 50018), the fastener must show less than 15% red rust and surpass Factory Mutual Approval Standard 4470.

APPLICATION

The Flex Standard Roofing Fastener must penetrate steel decks a minimum of 3/4". Using a screwshooter, 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 skin of the insulation. Fastener must be tight enough so that the plate doesn't turn. Factory Mutual requires that the fastener penetrate the steel deck at the top flute.

PHYSICAL DATA

Head Diameter: .435 & .390 Head Style: #3 Phillips Truss or 1/4" Hex Head
Thread Diameter: .220 Packaging: 1000/carton

STANDARD ROOFING FASTENER LENGTH SELECTION PROCEDURE

1. If applicable, determine thickness of existing roofing material.
2. Add thickness of new insulation.
3. Add 3/4" minimum fastener penetration.
4. If odd size requirement, always size up in length, not down. See example.

Example

| | |
|-------------------|---------------|
| Existing Roofing: | <u>1 3/4"</u> |
| New Insulation: | <u>1/2"</u> |
| Min. Embedment: | <u>3/4"</u> |
| Total Fastening | <u>3"</u> |
| Range: | |

The proper Standard Roofing Fastener for this example is 3 1/4".

| | |
|--|-------------|
| Existing Roofing: | _____ |
| New Insulation: | _____ |
| Min. Embedment: | <u>3/4"</u> |
| Total Fastening | _____ |
| Range: | |
| Use this format to calculate your correct fastener size. | |



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