

# HEAVY STEEL AND WOOD



## Thermoplastic Single Ply and Multi-Ply Roofing Systems

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### PRODUCT DESCRIPTION

The Flex Heavy Duty Roofing Fastener is designed to secure insulation to heavy steel (18 ga. – 22 ga.). It is available in lengths from 1 1/4" – 24".

### APPLICATION

The Flex Heavy Duty Roofing Fastener must penetrate the deck 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.

## HEAVY DUTY ROOFING FASTENER



### Fast Facts

The Flex Heavy Duty Roofing Fastener is designed to secure insulation to heavy steel and wood decks.

### FEATURES & BENEFITS

- Heavier shank & thread diameters than most "heavy duty" roofing fasteners.
- Deep thread for high pullout resistance.
- Extra sharp spade point for quick installation in new or reroof applications.

### 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 results 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 Heavy Duty Roofing Fastener. | CR114  | 1 1/4"  | Full          | 1000      | 12 lb  |
|   | CR134  | 1 3/4"  | Full          | 1000      | 16 lb  |
|   | CRHD2  | 2"      | Full          | 1000      | 18 lb  |
|   | CRHD3  | 3"      | Full          | 1000      | 26 lb  |
|   | CRHD4  | 4"      | 3"            | 1000      | 34 lb  |
|   | CRHD5  | 5"      | 4"            | 500       | 22 lb  |
|   | CRHD6  | 6"      | 4"            | 500       | 26 lb  |
|   | CRHD7  | 7"      | 4"            | 500       | 30 lb  |
|   | CRHD8  | 8"      | 4"            | 500       | 34 lb  |
|   | CRHD9  | 9"      | 4"            | 500       | 37 lb  |
|   | CRH10  | 10"     | 4"            | 500       | 40 lb  |
|   | CRH11  | 11"     | 4"            | 500       | 44 lb  |
|   | CRH12  | 12"     | 4"            | 250       | 25 lb  |
|   | CRH14  | 14"     | 4"            | 250       | 29 lb  |
|   | CRH16  | 16"     | 4"            | 250       | 37 lb  |
|   | LONGER LENGTHS AVAILABLE UPON REQUEST.<br>CALL FLEX FOR INFORMATION. |         |               |           |        |

**Thread Diameter:** .245

**Shank Diameter:** .190

**Head Diameter:** .435

**Head Style:** #3 Phillips Truss Head\*

**Coating:** CR-10

\*#3 Phillips bit included in each carton.

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## HEAVY DUTY ROOFING FASTENER

### SPECIFICATION

The fastener will be a Flex Heavy Duty Roofing Fastener with a shank diameter of .190 and a thread diameter of .245. The fastener must have 10 threads per inch and have a 30° spade point. Also, the fastener must be heat treated per specification OMG-1. The Flex Heavy Duty Roofing Fastener will be used with a Factory Mutual approved, Flex round pressure plate. 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 Heavy Duty Roofing Fastener must penetrate the 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 penetrates the steel deck at the top flute.

### PHYSICAL DATA

Head Diameter: .435 Head Style: #3 Phillips Truss Thread Diameter: .245 Shank Diameter: .190  
Packaging: 250, 500, 1000/carton

### HEAVY DUTY 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 Heavy Duty Roofing Fastener for this example is 3".

|                   |             |
|-------------------|-------------|
| 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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