

Drill-Tec™ Standard #12 Roofing Fastener

Data Sheet

Updated: 1/10



*Quality You Can Trust Since 1886...
From North America's Largest Roofing Manufacturer™*



DRILL-TEC™ STANDARD #12 ROOFING FASTENER

Use
With:
**Steel
And
Wood
Decks**

Description

The Drill-Tec™ Standard #12 Roofing Fastener is designed to secure insulation to steel (18 ga. – 24 ga.) and wood. It is available in lengths from 1-5/8" – 8". The Drill-Tec™ Standard #12 Roofing Fastener is Factory Mutual and Dade County approved.

Application

The Drill-Tec™ Standard #12 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 screw gun, drive the fastener until the screw head is seated securely; with very rigid insulation boards, watch for the plate to dimple.

Note: Be careful 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 penetrate the deck at the top flute.

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

Code Approvals



Advantages

- Heavier shank & thread diameters than most "standard" roofing fasteners.
- Deep buttress thread for high pull-out resistance.
- Extra sharp spade point for quick installation in new or reroof applications.
- Available with Hex Head or #3 Phillips Truss Head.

Plates & Accessories

- Use 3" steel or plastic plates, depending upon the application.
- For best installation results, use a variable speed 0-2500 rpm screw gun.

Specifications

The fastener will be a Drill-Tec™ Standard #12 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 Drill-Tec™ Standard Roofing Fastener will be used with a Factory Mutual approved, Drill-Tec™ round pressure plate or pressure bar. The fastener must be Factory Mutual approved and made in the U.S.A.

Coating Requirement

The fastener will be coated with the Drill-Tec™ 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.

Product Data

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.

SKU #	Length	Thread Length	Packaging	Weight
4500	1 5/8"	Full	1000	13 lbs
4501	2 1/4"	Full	1000	17 lbs
4502	2 7/8"	Full	1000	20 lbs
4503	3 1/4"	3"	1000	22 lbs
4504	3 3/4"	3"	1000	25 lbs
4505	4 1/2"	3"	1000	30 lbs
4506	5"	3"	1000	36 lbs
4507	6"	4"	1000	43 lbs
4508	7"	4"	1000	46 lbs
4509	8"	4"	1000	56 lbs

Drill-Tec™
Standard #12
Roofing Fastener



Example: Drill-Tec™ 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 below.

Example

Existing Roofing: 1 3/4"
New Insulation: + 1/2"
Min. Embedment: + 3/4"
Total Fastening Range: = 3"

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

Use this format to calculate correct fastener size:

Existing Roof:
New Insulation: +
Min. Embedment: + 3/4"
Total Fastening Range: =

The proper Standard Roofing Fastener is: