

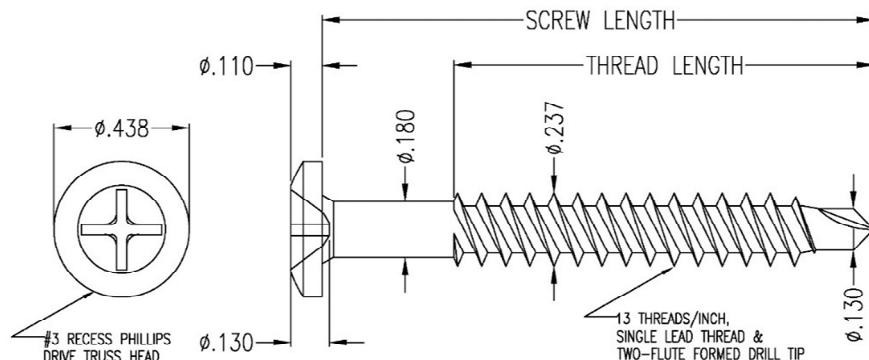
TIP-TOP® #14 HEAVY-DUTY SCREW

DESCRIPTION

TIP-TOP® Screw Manufacturing, Inc. #14 Heavy-Duty (#14 HD) Screws are #14 diameter, equipped with a P-3 truss head and are available with either a drill point or a spade point.

The #14 HD Screw can be used in most types of roofing applications. The #14 HD Screws are E-Coated and must pass twice the FM 4470 standard for corrosion resistance, totaling 30 cycles in a Kesternich cabinet. The #14 HD Screws are also required to pass 20° and 40° bend tests (hardness) and be able to penetrate a 20-gauge deck in under 3 seconds with a 50 lb. (222 N) load.

PRODUCT SPECIFICATIONS



PRODUCT INFORMATION

Item Numbers		Screw Length		Thread Length		QTY per Bucket
Drill Point	Spade Point	Inches	(Millimeters)	Inches	(Millimeters)	
90150PD	9D0150PD	1-1/2	(38.1)	1-1/2 (Full)	(38.1)	1,000
90200PD	9D0200PD	2	(50.8)	2 (Full)	(50.8)	1,000
90250PD	9D0250PD	2-1/2	(63.5)	2-1/2 (Full)	(63.5)	1,000
90300PD	9D0300PD	3	(76.2)	3 (Full)	(76.2)	1,000
90350PD	9D0350PD	3-1/2	(88.9)	3-1/2 (Full)	(88.9)	1,000
90400PD	9D0400PD	4	(101.6)	3-7/8	(76.2)	1,000
90450PD	9D0450PD	4-1/2	(114.3)	3-7/8	(76.2)	1,000
90500PD	9D0500PD	5	(127)	3-7/8	(76.2)	1,000
90550PD	9D0550PD	5-1/2	(139.7)	3-7/8	(76.2)	1,000
90600PD	9D0600PD	6	(152.4)	3-7/8	(76.2)	1,000
90700PD	9D0700PD	7	(177.8)	3-7/8	(76.2)	500
90800PD	9D0800PD	8	(203.2)	3-7/8	(76.2)	500
90900PD	9D0900PD	9	(228.6)	3-7/8	(76.2)	500
91000PD	9D1000PD	10	(254)	3-7/8	(76.2)	500
91100PD	9D1100PD	11	(279.4)	3-7/8	(76.2)	500
91200PD	9D1200PD	12	(304.8)	3-7/8	(76.2)	500

INSTALLATION GUIDELINES

For Steel and Wood Decks: Using the #3 Phillips drive bit provided and a 0 – 2500 RPM screw gun, install the #14 HD Screw into the deck. The #14 HD Screw must penetrate the deck a minimum of 1 inch, as measured from the underside of the deck to the screw tip. The #14 HD Screw must be installed perpendicular to the deck. Do not overdrive or underdrive the screw to prevent damage to roofing materials.

For Concrete Decks: Pre-drill a 3/16 inch diameter hole using a drill bit that meets the requirement of ANSI Standard B212.15. The hole must be a minimum of 1/2 inch deeper than the screw embedment. Using the #3 Phillips drive bit provided and a 0 – 2500 RPM screw gun, install the #14 HD Screw into the deck. The #14 HD Screw must penetrate the deck a minimum of 1 inch, as measured from the underside of the deck to the screw tip. The #14 HD Screw must be installed perpendicular to the deck. Do not overdrive or underdrive the screw to prevent damage to roofing materials.

PERFORMANCE DATA

MATERIAL STRENGTH (lbs)

Property	Standard	Value
Tensile Strength:	ASTM F606-10	2,827
Shear Strength:	NASM 1312-20	2,556
Corrosion Resistance:	FM 4470, ASTM D6294, DIN 50018	<15% red rust after 30 Kesternich cycles

AVERAGE SHEAR (lbs)

Property	Value
Threads:	2,558
Shank:	2,935

AVERAGE PULLOUT STRENGTH IN STEEL AND WOOD (lbf)

Thickness/Type	B-Deck 22ga. Ksi 33	19/32 OSB APA Rated	15/32 Plywood APA Rated	Structural Concrete
Spade Point:	648	315	320	740
Drill Point:	668	298	343	740

CODE APPROVALS AND LISTINGS



DISCLAIMER

Pullout values are reported as an average ultimate value based on tests performed in a controlled laboratory environment. They are intended to be used as a guideline only and are not guaranteed in any way by TIP-TOP Screw Manufacturing, Inc. Pullout values may vary greatly by substrate conditions. Pullout values must be conducted to verify that the substrate provides adequate pullout resistance required for each application.