

# LEXCOR™

## #12 Drill Point Insulation Screws (Phillips Head)

### DESCRIPTION & USE

- #12 Drill Point Insulation Screws are designed to secure insulation coverboards and base sheets to 16-22 gauge steel roof decks. Allow for a minimum of 19 mm (3/4") penetration through the underside of the deck. Also, FM Approved for wood decks.

This product is also available pre-assembled with Lexgrip's 3" Galvanized Steel Insulation Plates. Pre-assembled insulation screws and plates are fast to install and increase productivity in the mechanical attachment of roof insulation boards.

### FEATURES & BENEFITS

- #3 Phillips truss head
- Double flute drill point speeds penetration through steel deck
- Exclusive tapered entry threads wedges fastener tightly into the deck for superior back-out resistance
- Black coating offers excellent corrosion resistance

### TECHNICAL DATA

#12 DP INSULATION SCREW - PHYSICAL PROPERTIES				
Part No.	Screw Length	Thread Length	Pieces / Pail	Weight / Pail
SCREW-158	1-5/8"	Full	1000	12 lbs
SCREW-214	2-1/4"	Full	1000	16 lbs
SCREW-278	2-7/8"	Full	1000	19 lbs
SCREW-314	3-1/4"	2-7/8"	1000	22 lbs
SCREW-334	3-3/4"	2-7/8"	1000	25 lbs
SCREW-412	4-1/2"	4"	1000	29 lbs
SCREW-5	5"	4"	1000	32 lbs
SCREW-6	6"	4"	1000	37 lbs
SCREW-7	7"	4"	500	21 lbs
SCREW-8	8"	4"	500	24 lbs

Refer to the back of Data Sheet for the Performance Data



### INSTALLATION

Lexgrip Insulation Screws must penetrate steel decks a minimum of 19 mm (3/4"). Using a screw gun, drive the screw until a slight depression is seen around the plate, or with very rigid boards, watch for the plate to dimple. Note: Care must be taken not to overdrive the fastener and fracture the skin of the insulation. The fastener must be tight enough so that the plate does not turn. Factory Mutual requires that the fastener penetrate the steel deck at the top flute. For best results, use a variable speed 0 - 2500 rpm screw gun. Special stand-up installation tools are available to help speed up production and relieve physical stress.

### SPECIFICATION

Insulation (Generic) - Insulation screws shall be Factory Mutual approved #12 self-tapping screws with a #3 Phillips Truss Head [pre-assembled; complete with] 76 mm (3") diameter galvalume stress plates. Screws shall be coated with a corrosion resistant coating that passes 30 cycles of the Kesternich test with a maximum 15% red rust.

Accepted Product: Lexgrip™ #12 Drill Point Insulation Screws (Phillips Head) [PA] by Lexcor (www.lexcor.net, Tel: 1.800.268.2889). Install in accordance with manufacturer's directions

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#### COMMERCIAL BUILDING PRODUCTS

Ontario & Western Canada  
1.800.268.2889

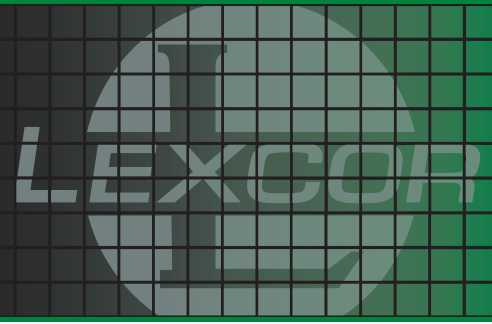


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1.800.363.2307

lexcor.net

# LEXGRIP™

## #12 Drill Point Insulation Screws (Phillips Head)



### PERFORMANCE DATA

Property	Standard	Average Ultimate Value
Tensile Strength:	ASTM F606-10	2500 lb.
Shear Strength:	NASM 1312-20	1900 lbf. (thread zone)
Corrosion Resistance:	FM 4470, ASTM D6294, DIN 50018	< 15% Red Rust after 30 cycles

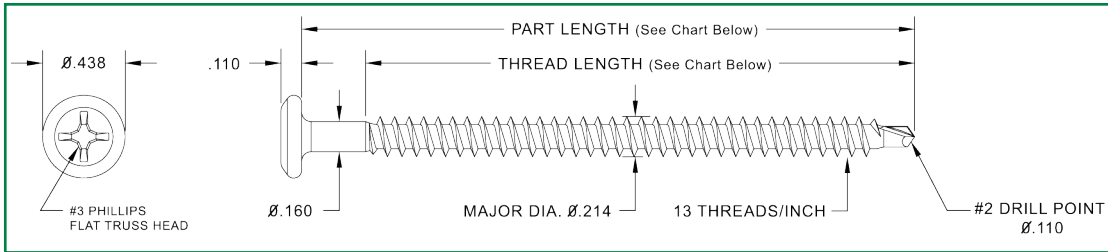
### Average Ultimate Pullout Values in Corrugated Steel Deck Substrates

Thickness	24 ga.			22 ga.			20 ga.			18 ga.			16 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	33.0 ksi	80.0 ksi	102.0 ksi		
Pullout (lbf.)	230	285	410	465	355	505	580	540	715	800	710	1000	1145		

### Average Ultimate Pullout Values in Wood Substrates

Thickness	APA Rated OSB				APA Rated Plywood			SPF #2
	7/16"	15/32"	19/32"	23/32"	15/32"	19/32"	23/32"	
Pullout (lbf.)	295	300	325	440	365	475	720	700*

\* lbf./in. of thread penetration, including tip.



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