

#14 HD SCREWS

DESCRIPTION

Duro-Last® approves #14 HD Screws ("HD Screws") for mechanical fastening of the Duro-Last Roofing System. HD Screws are #14 diameter, have a P-3 truss head, and are available with either a spade point or a drill point.

HD Screws can be used with wood, structural concrete (2,500 psi (17.2 MPa) min.), and steel decks, and are able to penetrate a 20-gauge deck in under 3 seconds with a 50 lbf (222.41 N) load.

- **Spade point:** Recommended for wood decks.
- **Drill point:** Recommended for steel decks.

Either style can be used for concrete decks.

STORAGE AND HANDLING

Always store in a dry location protected from the elements.

INSTALLATION

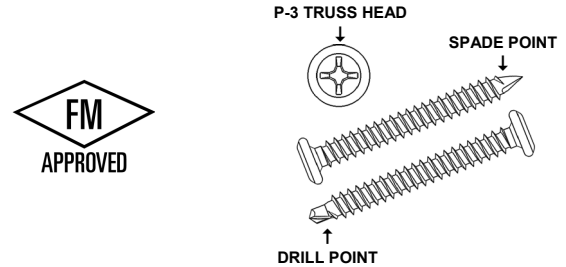
Fasteners must penetrate at least 1 inch (25 mm) into all decks.

Pre-drill concrete decks, 1/2 (13-mm) past required screw depth, using a 3/16-inch (5-mm) to 7/32-inch (5.5-mm) bit, based on concrete density and pullout tests.

PERFORMANCE DATA		
Property	Standard	Value Lbf (N)
Tensile Strength	ASTM F606-10	3,200 (14,234.31)
Shear Strength	NASM 1312-20	2,200 (9,786.09)
Corrosion Resistance	FM 4470, ASTM D6294, DIN 50018	<15% red rust

HD SCREW ORDERING				
Total Length Inch (mm)	Thread Length Inch (mm)	Quantity (Per Pail)	Spade Point Item Number (Per pail)	Drill Point Item Number
1.5 (38)	1.5 (38)	2,000	1442-2	1361-2
2 (51)	2 (51)	2,000	1446-2	1362-2
2.5 (64)	2.5 (64)	1,000	1456	1363
3 (76)	3 (76)	1,000	1447	1364
3.5 (89)	3 (76)	1,000	1457	1365
4 (102)	3 (76)	1,000	1448	1366
4.5 (114)	3 (76)	1,000	1458	1367
5 (127)	3.875 (98)	1,000	1449	1368
5.5 (140)	3.875 (98)	1,000	1459	1369
6 (152)	3.875 (98)	1,000	1450	1370
7 (178)	3.875 (98)	500	1451	1371
8 (203)	3.875 (98)	500	1452	1372
9 (229)	3.875 (98)	500	1253	1373
10 (254)	3.875 (98)	500	1254	1374
11 (279)	3.875 (98)	500	1255	1375
12 (305)	3.875 (98)	500	1256	1376
14 (356)*	3.875 (98)	250	N/A	1377
16 (406)*	3.875 (98)	250	N/A	13770
18 (457)*	3.975 (98)	250	N/A	13771

*Drop-ship only. Contact Duro-Last sales for lead times.



AVERAGE PULLOUT VALUE BY DECK TYPE NEW CONSTRUCTION			
Deck Type	Deck Thickness	Yield Strength Ksi (MPa)	Avg Pullout Value Lbf (N)
Steel	16 gauge	33 (227.53)	850 (3,780.99)
		80 (551.58)	1,000 (4,444.82)
		102 (703.27)	1,240 (5,515.8)
	18 gauge	33 (227.53)	675 (3,002.55)
		80 (551.58)	885 (3,936.68)
		102 (703.27)	985 (4,381.5)
	20 gauge	33 (227.53)	420 (1,868.25)
		80 (551.58)	615 (2,735.66)
		102 (703.27)	710 (3,158.24)
	22 gauge	33 (227.53)	315 (1,401.19)
		80 (551.58)	480 (2,135.15)
		102 (703.27)	560 (2,491)
	24 gauge	36.5 (251.66)	255 (1,134.3)
Plywood	15/32 in. (12 mm)		360 (1,601.36)
	19/32 in. (15 mm)		410 (1,823.77)
	23/32 in. (18 mm)		730 (3,247.2)
OSB	7/16 in. (12 mm)		270 (1,201.02)
	15/32 in. (12 mm)		290 (1,289.98)
	19/32 in. (15 mm)		310 (1,378.95)
	23/32 in. (18 mm)		410 (1,823.77)
Wood Plank	SPF #2		795 (3,536.34)
Structural Concrete	2,500 psi min. (17.2 MPa)		740 (3,291.68)