#15 EHD SCREWS

DESCRIPTION:

Duro-Last® #15 EHD (Extra Heavy-Duty) Screws are used for mechanically fastening the Duro-Last Roofing System and underlying boards. EHD Screws are #15 diameter fasteners equipped with a P-3 truss head and a drill point.

When greater fastener pullout resistance is needed, the EHD Screw should be used.

EHD Screws can be used in most types of roofing applications. They pass the standard for corrosion resistance and bend tests (hardness), and are able to penetrate a 20-gauge (1.0 mm) deck in under 3 seconds with 50 pound-force (222 N).

Testing results are listed in Table 1.

Average pullout values can be found in Table 3.

ORDERING:

EHD Screws are available in the sizes and quantities noted in Table 2. Additional sizes are available on a drop ship basis. Allow adequate time for ordering and delivery of special orders.

INSTALLATION:

Penetration into all deck types is a minimum of 1 in. (25 mm) from the top surface of the deck.

- Take care to orient the fastener perpendicular to the deck and not to overdrive the fastener.

TABLE 1. PERFORMANCE DATA

Property	Standard	Average Value
Tensile Strength	ASTM F606-10	4,200 lbf (18,682.5 N)
Shear Strength	NASM 1312-20	2,400 lbf (thread zone) (10,675.7 N)
Corrosion Resistance	FM 4470, DIN 60018	< 15% Red Rust after 30 cycles

PRECAUTIONS:

1. Read Safety Data Sheets (SDS) prior to using.
2. Wear proper personal protective equipment, such as gloves and eye protection, per the SDS.

TABLE 2. DIMENSIONS AND PACKAGING

Overall Length	Thread Length	Quantity per Pail
2 in. (51 mm)	2 in. (51 mm)	1,000
3 in. (76 mm)	2.875 in. (73 mm)	1,000
4 in. (102 mm)	2.875 in. (73 mm)	1,000
5 in. (127 mm)	3.875 in. (98 mm)	1,000
6 in. (152 mm)	3.875 in. (98 mm)	500
7 in. (178 mm)	3.875 in. (98 mm)	500
8 in. (203 mm)	3.875 in. (98 mm)	500
9 in. (229 mm)	3.875 in. (98 mm)	250
10 in. (254 mm)	3.875 in. (98 mm)	250
11 in. (279 mm)	3.875 in. (98 mm)	250
12 in. (305 mm)	3.875 in. (98 mm)	250
14 in. (356 mm)	3.875 in. (98 mm)	250
16 in. (406 mm)	3.875 in. (98 mm)	250
18 in. (457 mm)	3.875 in. (98 mm)	250
20 in. (508 mm)	3.875 in. (98 mm)	250

TABLE 3. AVERAGE PULLOUT DATA

	APA OSB inch (mm)				APA Plywood inch (mm)			Steel gauge (mm)												
Thickness	7/16 (11.1)	15/32 (11.9)	19/32 (15.1)	23/32 (18.3)	15/32 (11.9)	19/32 (15.1)	23/32 (18.3)	24 (0.6)	22 (0.8)			20 (1.0)			18 (1.2)			16 (1.5)		
Steel Yield Strength ksi MPa								36.5 251.7	33 227.5	80 551.6	102 703.3	33 227.5	80 551.6	102 703.3	33 227.5	80 551.6	102 703.3	33 227.5	80 551.6	102 703.3
Pullout Values lbf* N	295 1,312	300 1,334	310 1,379	515 2,291	400 1,779	525 2,335	685 3,047	390 1,735	465 2,068	695 3,092	805 3,581	605 2,691	855 3,803	970 4,315	925 4,115	1,125 5,004	1,215 5,405	1,175 5,227	1,370 6,094	1,460 6,494

***Note:** **Listed average pullout values are for project estimation ONLY. Actual project pullout values must be determined before ordering.**