

LBS HARDWOOD

ROUND HEAD SCREW FOR PLATES ON HARDWOODS

HARDWOOD CERTIFICATION

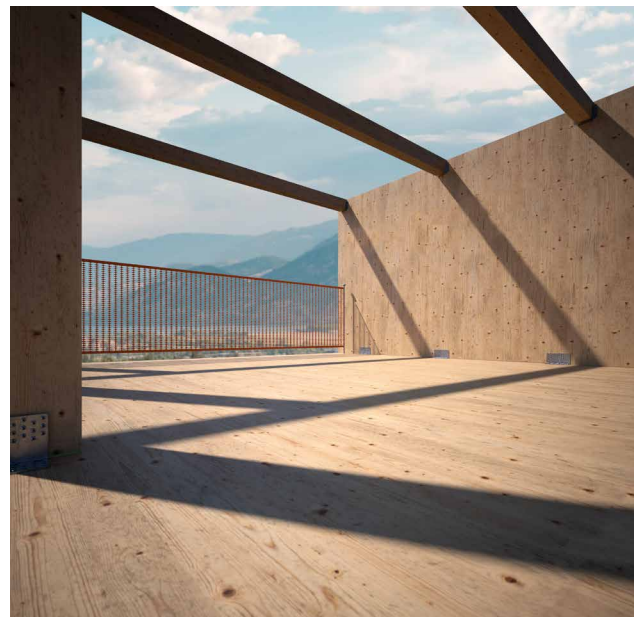
Special tip with embossed slit elements. ETA-11/0030 certification allows for use with high density timber without any pre-drill. Approved for structural applications subject to stresses in any direction vs the grain.

LARGER DIAMETER

Root diameter increased compared to the LBS version to ensure tightening in the highest density woods. In steel-timber connections, an increase in strength of more than 15% can be achieved.

SCREW FOR PERFORATED PLATES

Cylindrical shoulder designed for fastening metal elements. Achieves an interlocking effect with the hole in the plate, thus guaranteeing excellent static performance.



DIAMETER [in]

0.14 0.20 0.48

LENGTH [in]

1 1 9/16 2 3/4 8

EXPOSURE CONDITION



ATMOSPHERIC CORROSIVITY



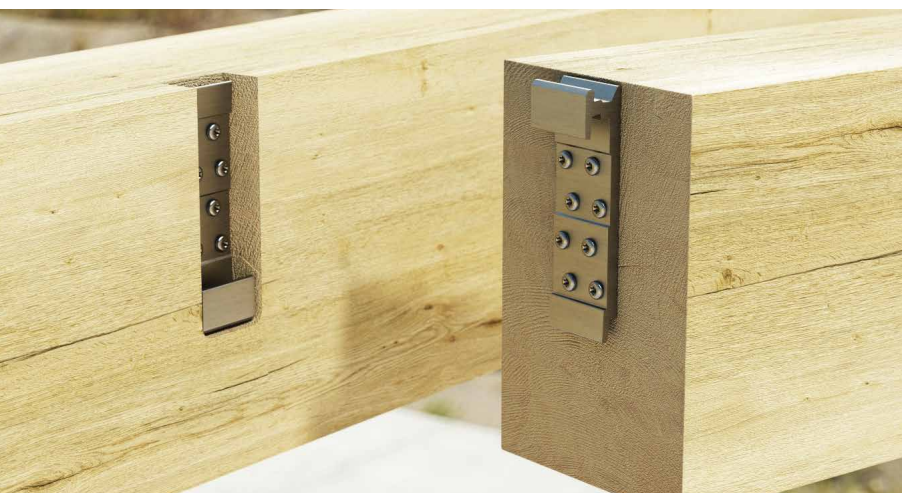
WOOD CORROSIVITY



MATERIAL



electrogalvanized carbon steel



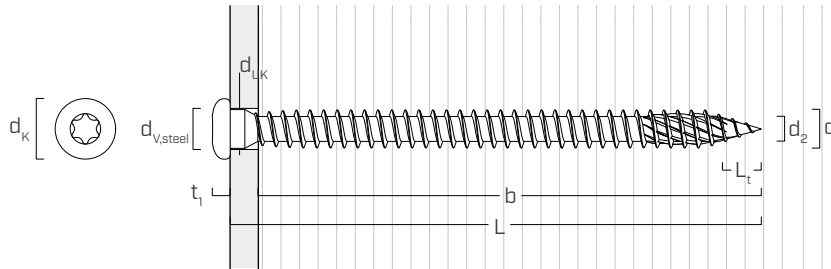
FIELDS OF USE

- timber based panels
- solid timber and glulam
- CLT and LVL
- high density woods
- beech, oak, cypress, ash, eucalyptus, bamboo

CODES AND DIMENSIONS

d_1 [mm] [in]	CODE	L		b		pcs
		[mm]	[in]	[mm]	[in]	
5 0.20 #11 TX 20	LBSH540	40	1 9/16	36	1 7/16	500
	LBSH550	50	1 15/16	46	1 13/16	200
	LBSH560	60	2 3/8	56	2 3/16	200
	LBSH570	70	2 3/4	66	2 5/8	200

GEOMETRY



Nominal diameter	d_1	[in] ⁽¹⁾	0.20
		[mm]	5
Outer thread diameter	d_1	[in]	0.197
Head diameter	d_K	[in]	0.307
Head thickness	t_1	[in]	0.096
Root diameter	d_2	[in]	0.137
Underhead diameter	d_{UK}	[in]	0.193
Tip length	L_t	[in]	0.197
Recommended hole diameter on steel plate	$d_{V,steel}$	[in]	3/16 - 7/32
Pre-drilling hole diameter ⁽²⁾	$d_{V,G \leq 0.55}$	[in]	1/8
Pre-drilling hole diameter ⁽³⁾	$d_{V,G > 0.55}$	[in]	9/64

⁽¹⁾The nominal diameter of the screw is converted into imperial units and rounded up to the nearest decimal point.

⁽²⁾Pre-drilling applies to timber with $G \leq 0.55$ (optional).

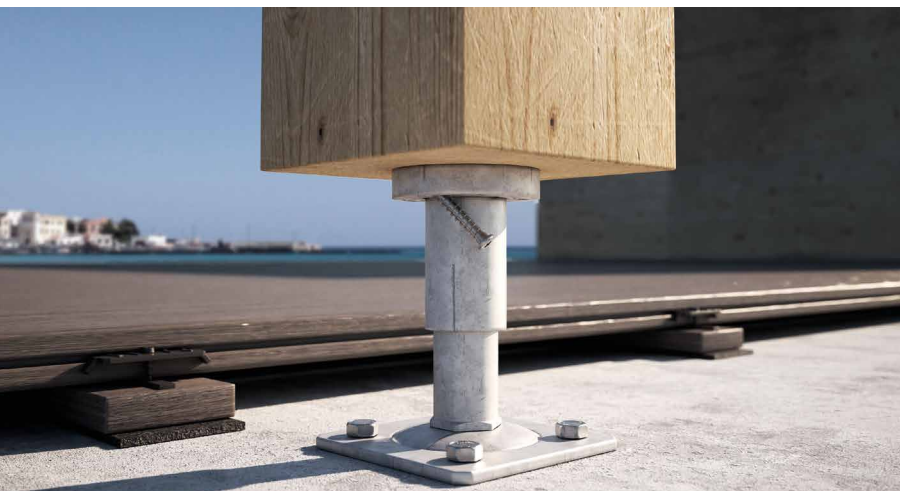
⁽³⁾Pre-drilling applies to timber with $G > 0.55$ (required).

LBS HARDWOOD EVO

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DIAMETER [in]	0.14	0.20	0.28	0.48
LENGTH [in]	1	2 3/8	8	8

Also available in the LBS HARDWOOD EVO version, L from 2 3/8" to 8", diameter Ø5 and Ø7 mm (diameter 0.20 and 0.28 inch), see page 286.



HARDWOOD PERFORMANCE

Geometry developed for high performance and use without pre-drill hole on structural woods such as beech, oak, cypress, ash, eucalyptus, bamboo.

BEECH LVL

Values also tested, certified and calculated for high density woods such as beech laminated veneer lumber. Certified for use without pre-drilling, for densities of up to 800 kg/m³ [$G = 0.94$].