

LBS HARDWOOD EVO

ROUND HEAD SCREW FOR PLATES ON HARDWOODS

C4 EVO COATING

The atmospheric corrosion resistance class (C4) of the C4 EVO coating was tested by the Research Institutes of Sweden - RISE. Coating suitable for use in applications on wood with an acidity level (pH) greater than 4, such as spruce, larch and pine (see page 354).

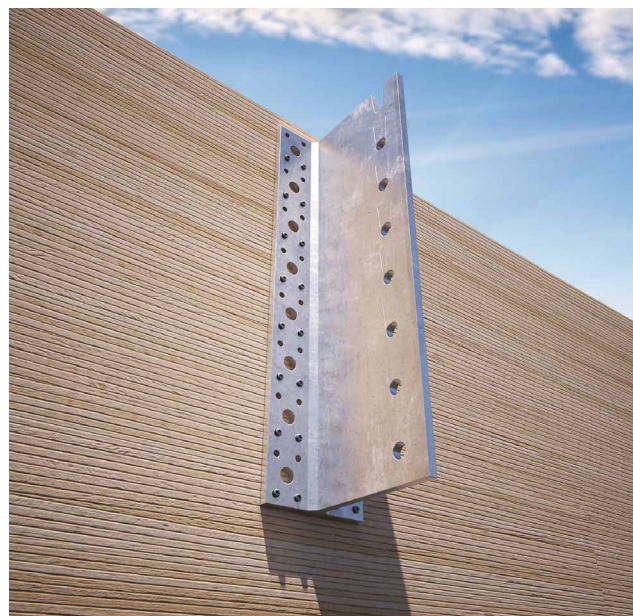
HARDWOOD CERTIFICATION

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 of the grain.

ROBUSTNESS

The inner core diameter of the screw has been enlarged compared to the LBS version to ensure safe installation in higher density woods. The cylindrical under head is designed for fastening mechanical elements and producing an interlocking effect with the plate hole that provides excellent static performances.



DIAMETER [in]

0.14 **0.20 0.28** 0.48

LENGTH [in]

1 **2 3/8** 8 8

EXPOSURE CONDITION



ATMOSPHERIC CORROSIVITY



WOOD CORROSIVITY



MATERIAL



carbon steel with C4 EVO coating



FIELDS OF USE

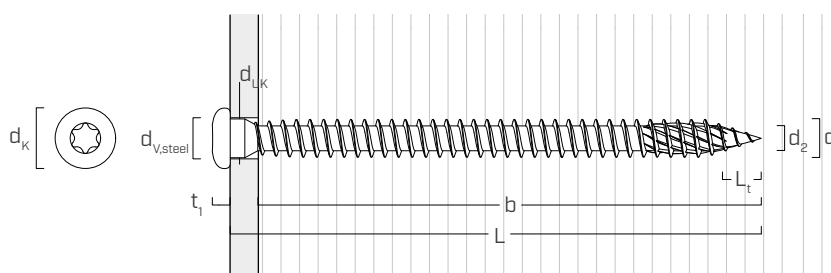
- timber based panels
- solid timber and glulam
- CLT and LVL
- high density woods
- ACQ, CCA treated timber

CODES AND DIMENSIONS

d ₁	CODE	L		b		pcs
[mm]		[mm]	[in]	[mm]	[in]	
5	LBSHEVO580	80	3 1/8	76	3	200
0.20	LBSHEVO5100	100	4	96	3 3/4	200
#11	LBSHEVO5120	120	4 3/4	116	4 9/16	200
TX 20						

d ₁	CODE	L		b		pcs
[mm]		[mm]	[in]	[mm]	[in]	
7	LBSHEVO760	60	2 3/8	55	2 3/16	100
0.28	LBSHEVO780	80	3 1/8	75	2 15/16	100
#11	LBSHEVO7100	100	4	95	3 3/4	100
TX 30	LBSHEVO7120	120	4 3/4	115	4 1/2	100
	LBSHEVO7160	160	6 1/4	155	6 1/8	100
	LBSHEVO7200	200	8	195	7 11/16	100

GEOMETRY



Nominal diameter	d ₁	[in] ⁽¹⁾	0.20	0.28
		[mm]	5	7
Outer thread diameter	d ₁	[in]	0.197	0.276
Head diameter	d _K	[in]	0.307	0.433
Head thickness	t ₁	[in]	0.096	0.138
Root diameter	d ₂	[in]	0.118	0.191
Underhead diameter	d _{UK}	[in]	0.193	0.276
Tip length	L _t	[in]	0.197	0.276
Recommended hole diameter on steel plate	d _{V,steel}	[in]	0.20 - 0.22	0.30 - 0.32
Pre-drilling hole diameter ⁽²⁾	d _{V,G≤0.55}	[in]	1/8	5/32
Pre-drilling hole diameter ⁽³⁾	d _{V,G>0.55}	[in]	9/64	13/64

⁽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≤0.55 (optional).

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



HYBRID STEEL-TIMBER STRUCTURES

The LBSHEVO Ø7 mm (0.28 inch) screws are suitable for custom-designed connections, which are characteristic of steel structures. Maximum performance in hardwoods combined with the strengths of steel plates.

T3 TIMBER CORROSIVITY

Coating suitable for use in applications on wood with an acidity level (pH) greater than 4, such as spruce, larch, pine, ash and birch (see page 354).