

SELF-DRILLING TIMBER-TO-METAL SCREW

TIMBER-TO-METAL TIP

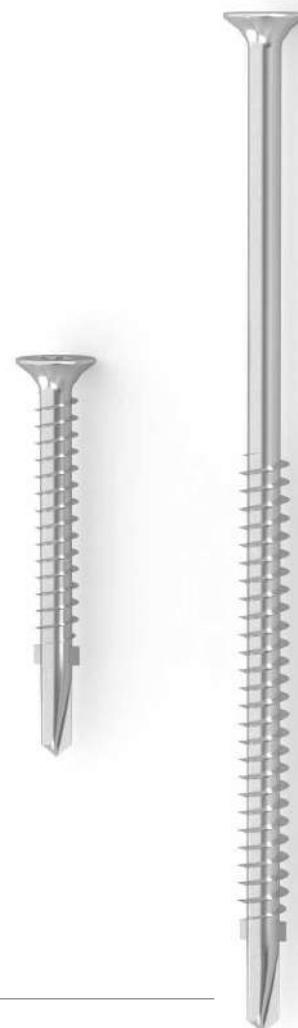
Special self-perforating tip with bleeder geometry for excellent drilling capacity both in aluminium (thickness: up to 3/8 in | 10 mm) and steel (thickness: up to 5/16 in | 8 mm).

CUTTING FINS

The fins protect the screw thread during penetration into the wood. They guarantee maximum threading efficiency in metal and perfect adhesion between the thickness of the wood and the metal.

WIDE RANGE

The SPP version, with partial thread, is ideal for fastening sandwich panels, even thick ones, to metal. Very sharp under-head ribs for a perfect surface finish on the wooden element.



CHARACTERISTICS

FOCUS	self-perforating tip with protective fins	
HEAD	countersunk with under-head ribs	
DIAMETER	from 4,2 to 6,3 mm	0.17 to 0.25 inches
LENGTH	from 32 to 240 mm	1 1/4 to 9 1/2 inches



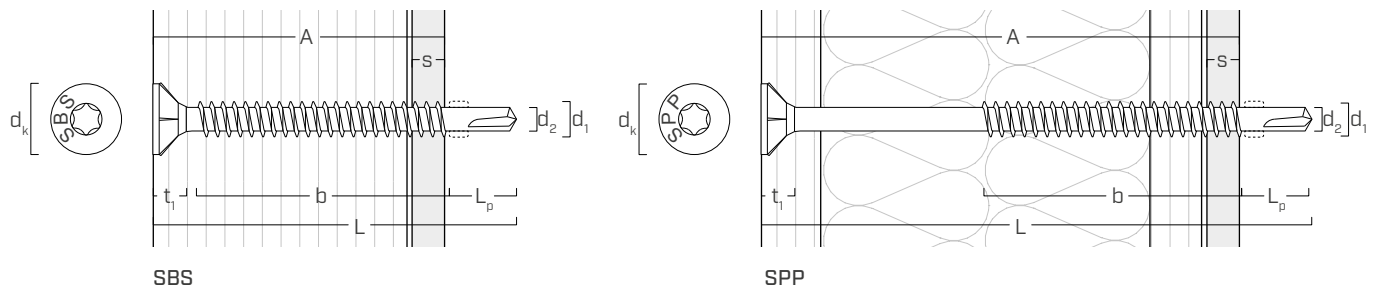
MATERIAL

Bright zinc plated carbon steel.

FIELDS OF USE

Direct fastening, without pre-drill, of wooden elements to steel (maximum thickness 5/16 in | 8,0 mm) or aluminium (maximum thickness 3/8 in | 10,0 mm) substructures.

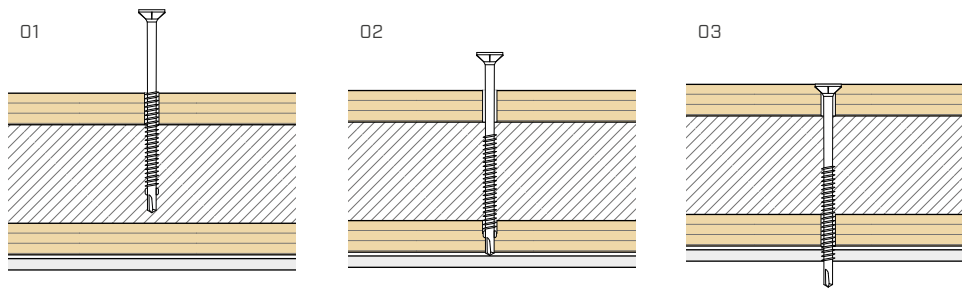
GEOMETRY



			SBS				SPP
Nominal diameter	d ₁	[mm]	4,2	4,8	5,5	6,3	6,3
		[in] ⁽¹⁾	0.17	0.19	0.22	0.25	0.25
Outer thread diameter	d ₁	[in]	0.165	0.189	0.217	0.248	0.248
Head diameter	d _K	[in]	0.315	0.364	0.413	0.472	0.492
Tip diameter	d ₂	[in]	0.130	0.138	0.163	0.191	0.191
Head thickness	t ₁	[in]	0.138	0.165	0.189	0.209	0.209
Tip length	L _p	[in]	0.394	0.413	0.453	0.591	0.787

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

INSTALLATION



Recommended screwing:
 ≈ 1000 - 1500 rpm (steel plate)
 ≈ 600 - 1000 rpm (aluminium plate)

CODES AND DIMENSIONS

SBS

d ₁	CODE	L	b	A	s _{1 max}	s _{2 max}	pcs
[in]		[in]	[in]	[in]	[in]	[in]	
0.17	SBS4232	1 1/4	3/4	11/16	1/16	1/8	500
TX 20	SBS4238	1 1/2	1	15/16	1/16	1/8	500
0.19	SBS4838	1 1/2	15/16	13/16	1/8	3/16	200
TX 25	SBS4845	1 3/4	1 3/16	1 1/8	1/8	3/16	200
0.22	SBS5545	1 3/4	1 1/8	1	3/16	1/4	200
TX 30	SBS5550	2	1 5/16	1 3/16	3/16	1/4	200
	SBS6360	2 3/8	1 5/8	1 7/16	1/4	5/16	100
0.25	SBS6370	2 3/4	2	1 13/16	1/4	5/16	100
TX 30	SBS6385	3 3/8	2 9/16	2 3/8	1/4	5/16	100
	SBS63100	4	3 1/8	3	1/4	5/16	100

SPP

d ₁	CODE	L	b	A	s ₁	s ₂	pcs
[in]		[in]	[in]	[in]	[in]	[in]	
	SPP63125	4 15/16	2 3/8	3 3/4	5/16	3/8	100
	SPP63145	5 11/16	2 3/8	4 9/16	5/16	3/8	100
0.25	SPP63165	6 1/2	2 3/8	5 5/16	5/16	3/8	100
TX 30	SPP63180	7 1/8	2 3/8	5 15/16	5/16	3/8	100
	SPP63200	7 7/8	2 3/8	6 11/16	5/16	3/8	100
	SPP63220	8 5/8	2 3/8	7 1/2	5/16	3/8	100
	SPP63240	9 1/2	2 3/8	8 5/16	5/16	3/8	100

s₁ maximum thickness, steel plate A36 | S235/St37

s₂ maximum thickness, aluminium plate

Minimum steel and aluminum thicknesses should be respected to ensure fins are sheared off during installation

	SBS42XX	SBS48XX	SBS55XX	SBS63XX	SPP63XX
s _{1 min} [in]	1/32	1/16	1/8	3/16	1/4
s _{2 min} [in]	1/16	1/8	3/16	1/4	5/16



SIP PANELS

The SPP version is ideal for fastening SIP panels and sandwich panels thanks to the complete range of lengths (up to 9 1/2 in | 240 mm).