

SELF-DRILLING TIMBER-TO-METAL SCREW

CERTIFIED

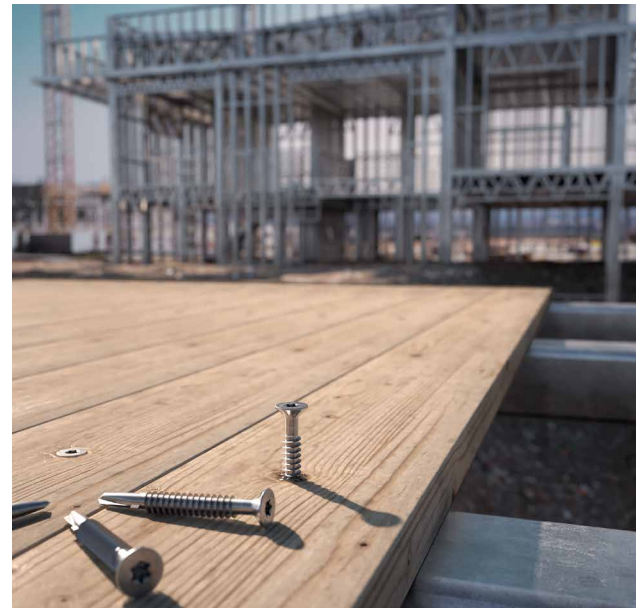
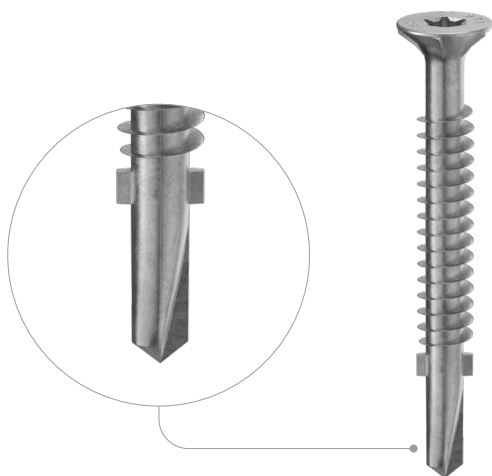
The SBS self-drilling screw is CE marked according to EN 14592. It is the ideal choice for professionals who demand quality, safety and reliable performance in structural timber-to-metal applications.

TIMBER-TO-METAL TIP

Special self-perforating tip with bleeder geometry for excellent drilling capacity both in aluminium (thickness: up to 5/16") and steel (thickness: up to 1/4").

CUTTING FINS

The fins protect the screw thread during timber pull-through. They guarantee maximum threading efficiency in metal and perfect adhesion between the thickness of the wood and the metal.



DIAMETER [in]

0.14 0.17 0.25 0.48

LENGTH [in]

1 1 1/4 4 9 1/2

EXPOSURE CONDITION

EC1 DRY

ATMOSPHERIC CORROSIVITY

C1 C2

WOOD CORROSIVITY

T1 T2

MATERIAL

Zn
ELECTRO
PLATED

electrogalvanized carbon steel



FIELDS OF USE

Direct fastening, without pre-drilling hole, of timber elements to steel substructures:

- in S235 steel with a maximum thickness of 1/4"
- in aluminium with a maximum thickness of 5/16"

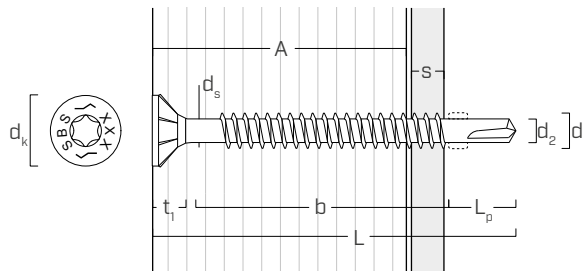
CODES AND DIMENSIONS

d ₁ [mm] [in]	CODE	L		b		A	s _S	s _A	pcs
		[mm]	[in]	[mm]	[in]	[in]	[in]	[in]	
4,2 0.17 #8 TX 20	SBS4232	32	1 1/4	18	11/16	11/16	1/32 - 1/8	1/16 - 3/16	500
	SBS4238	38	1 1/2	19	3/4	7/8	1/32 - 1/8	1/16 - 3/16	500
4,8 0.19 #10 TX 25	SBS4838	38	1 1/2	23	7/8	7/8	1/16 - 3/16	1/8 - 3/16	200
	SBS4845	45	1 3/4	25	1	1 1/8	1/16 - 3/16	1/8 - 3/16	200
5,5 0.22 #12 TX 25	SBS5545	45	1 3/4	29	1 1/8	1 1/8	1/8 - 3/16	3/16 - 1/4	200
	SBS5550	50	2	29	1 1/8	1 5/16	1/8 - 3/16	3/16 - 1/4	200
6,3 0.25 #14 TX 30	SBS6360	60	2 3/8	35	1 3/8	1 9/16	3/16 - 1/4	1/4 - 5/16	100
	SBS6370	70	2 3/4	45	1 3/4	1 15/16	3/16 - 1/4	1/4 - 5/16	100
	SBS6385	85	3 3/8	55	2 3/16	2 1/2	3/16 - 1/4	1/4 - 5/16	100
	SBS63100	100	4	55	2 3/16	3 1/8	3/16 - 1/4	1/4 - 5/16	100

s_s thickness that can be drilled, steel plate S235/St37

s_A thickness that can be drilled, aluminium plate

GEOMETRY

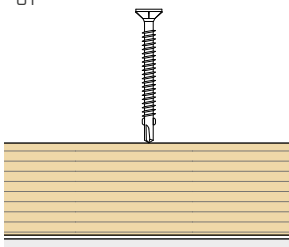


Nominal diameter	d ₁	[in] ⁽¹⁾	0.17	0.19	0.22	0.25
		[mm]	4,2	4,8	5,5	6,3
Outer thread diameter	d ₁	[in]	0.165	0.189	0.217	0.248
Head diameter	d _k	[in]	0.315	0.364	0.413	0.472
Root diameter	d ₂	[in]	0.130	0.138	0.163	0.191
Shank diameter	d _s	[in]	0.134	0.152	0.175	0.205
Head thickness	t ₁	[in]	0.138	0.165	0.189	0.209
Tip length	L _p	[in]	0.394	0.413	0.453	0.591

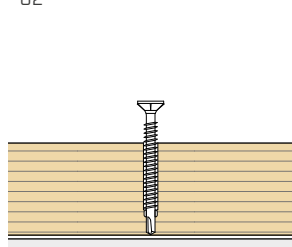
⁽¹⁾The nominal diameter of the screw is converted into imperial units and rounded up to the nearest decimal point.

INSTALLATION

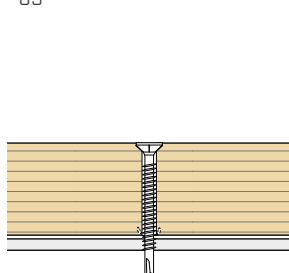
01



02



03



RECOMMENDATIONS FOR SCREWING:

steel: v_s ≈ 1000 - 1500 rpm

aluminium: v_A ≈ 600 - 1000 rpm