

SBS A2 | AISI304

SELF-DRILLING TIMBER-TO-METAL SCREW

BIMETAL SCREW

The head and body are made of A2 | AISI304 stainless steel, thus providing high resistant to corrosion. The tip is made of carbon steel for excellent drilling performance.

TIMBER-TO-METAL TIP

Special self-perforating tip with bleeder geometry for excellent drilling capacity both in aluminium and steel. The fins protect the screw thread during timber pull-through.

STAINLESS STEEL

The A2 | AISI304 stainless steel head and body make it ideal for outdoor applications. Very sharp under-head ribs for a perfect surface finish on the wooden element.



DIAMETER [in]

0.14 0.19 0.25 0.48

LENGTH [in]

1 1 3/4 4 3/4 9 1/2

EXPOSURE CONDITION

☐ EC1 ☐ EC2 ☐ EC3 ☒ WET

ATMOSPHERIC CORROSIVITY

☐ C1 ☐ C2 ☐ C3 ☐ C4

WOOD CORROSIVITY

☐ T1 ☐ T2 ☐ T3 ☐ T4

MATERIAL

A2
AISI 304 A2 | AISI304 austenitic stainless steel (CRC II)



FIELDS OF USE

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

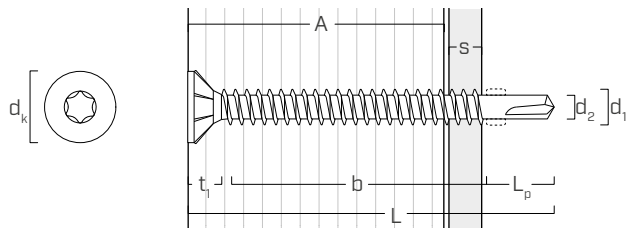
- in S235 steel with a maximum thickness of 1/4"
- in aluminium with a maximum thickness of 5/16"

CODES AND DIMENSIONS

d ₁	CODE	L		b		A	s _s	s _A	pcs
[mm] [in]		[mm]	[in]	[mm]	[in]	[in]	[in]	[in]	
4,8 0.19 #10 TX 25	SBSA24845	45	1 3/4	31	1 1/4	1 3/16	1/32 - 1/8	1/16 - 1/8	200
5,5 0.22 #12 TX 25	SBSA25555	55	2 1/5	39	1 9/16	1 7/16	1/16 - 3/16	1/8 - 3/16	200
6,3 0.25 #14 TX 30	SBSA26370	70	2 3/4	53	2 1/16	1 15/16	1/8 - 1/4	3/16 - 5/16	100
	SBSA263120	120	4 3/4	103	4 1/16	3 7/8	1/8 - 1/4	3/16 - 5/16	100

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

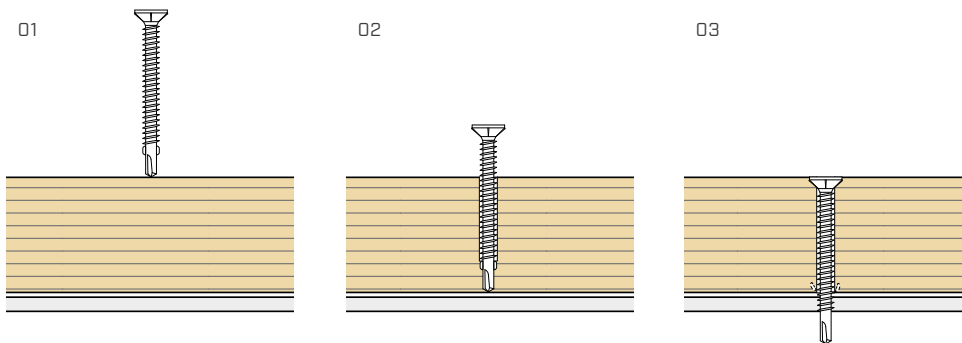
GEOMETRY



Nominal diameter	d_1	[in] ⁽¹⁾	0.19	0.22	0.25
		[mm]	4,8	5,5	6,3
Outer thread diameter	d_1	[in]	0.189	0.217	0.248
		[mm]	4,8	5,5	6,3
Head diameter	d_k	[in]	0.364	0.413	0.413
Root diameter	d_2	[in]	0.138	0.163	0.189
Head thickness	t_1	[in]	0.167	0.191	0.177
Tip length	L_p	[in]	0.406	0.394	0.472

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

INSTALLATION



RECOMMENDATIONS FOR SCREWING:

steel: $v_s \approx 1000 - 1500$ rpm
aluminium: $v_A \approx 600 - 1000$ rpm



OUTDOOR ENVIRONMENT

Austenitic A2 stainless steel offers higher corrosion resistance.
Suitable for outdoor applications up to 1 km [0.62 mi] from the sea and on class T4 acid wood.