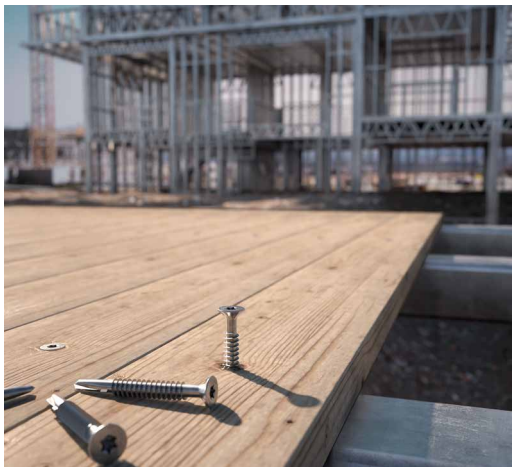
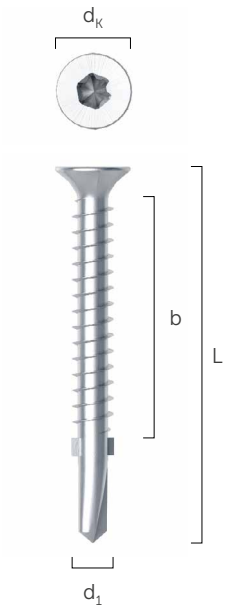
BSS

CE EN 14592

TIMBER-TO-METAL SELF-DRILLING SCREW

- CE Certified in accordance with 14592
- Self-perforating, chip-clearing tip for drilling up to 8 mm on aluminium and 6 mm on steel
- Thread protection fins: maximum threading efficiency and timber-to-metal bonding
- Very sharp under-head ribs for a perfect surface finish on the wooden element
- Ideal for timber-to-metal structural applications requiring quality, safety and consistent performance



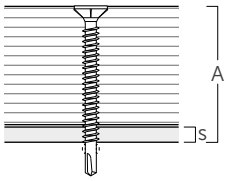


INCLUDED

ENVIRONMENT	SC2 C2 T2
MATERIAL	Zn ELECTRO PLATED

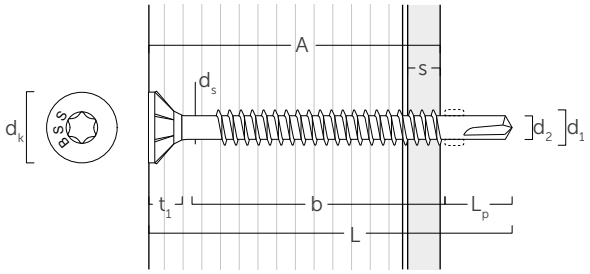
d_1 [mm] *[in]*	d_K [mm] *[in]*	CODE	L [mm]	L *[in]*	b [mm]	b *[in]*	A [mm]	A *[in]*	s_S [mm]	s_S *[in]*	s_A [mm]	s_A *[in]*	pcs
4,2 *0.17* TX 20	8,00 *0.315*	**BSS4238**	38	*1 1/2*	19	*3/4*	23	*7/8*	1 ÷ 3	*1/32 ÷ 1/8*	2 ÷ 4	*1/16 ÷ 3/16*	500
4,8 *0.19* TX 25	9,25 *0.364*	**BSS4845**	45	*1 3/4*	25	*1*	29	*1 1/8*	2 ÷ 4	*1/16 ÷ 3/16*	3 ÷ 5	*1/8 ÷ 3/16*	200
5,5 *0.22* TX 30	10,50 *0.413*	**BSS5545**	45	*1 3/4*	29	*1 1/8*	28	*1 1/8*	3 ÷ 5	*1/8 ÷ 3/16*	4 ÷ 6	*3/16 ÷ 1/4*	200
		BSS5550	50	*1 15/16*	29	*1 1/8*	33	*1 5/16*	3 ÷ 5	*1/8 ÷ 3/16*	4 ÷ 6	*3/16 ÷ 1/4*	200
6,3 *0.25* TX 30	12,00 *0.472*	**BSS6360**	60	*2 3/8*	35	*1 3/8*	39	*1 9/16*	4 ÷ 6	*3/16 ÷ 1/4*	6 ÷ 8	*1/4 ÷ 5/16*	100
		BSS6370	70	*2 3/4*	45	*1 3/4*	49	*1 15/16*	4 ÷ 6	*3/16 ÷ 1/4*	6 ÷ 8	*1/4 ÷ 5/16*	100
		BSS6385	85	*3 3/8*	55	*2 3/16*	64	*2 1/2*	4 ÷ 6	*3/16 ÷ 1/4*	6 ÷ 8	*1/4 ÷ 5/16*	100
		BSS63100	100	*4*	55	*2 3/16*	79	*3 1/8*	4 ÷ 6	*3/16 ÷ 1/4*	6 ÷ 8	*1/4 ÷ 5/16*	100

A maximum fastening thickness



s_S thickness, steel plate S235/St37
s_A thickness, aluminium plate

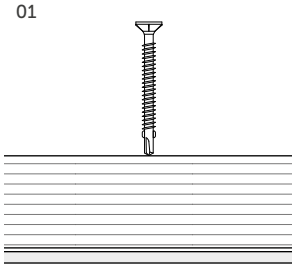
GEOMETRY AND MECHANICAL CHARACTERISTICS



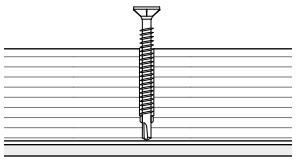
nominal diameter	**d_1**	**[mm]**	**4,2**	**4,8**	**5,5**	**6,3**
head diameter	d_K	[mm]	8,00	9,25	10,50	12,00
internal thread diameter	d_2	[mm]	3,30	3,50	4,15	4,85
shank diameter	d_S	[mm]	3,40	3,85	4,45	5,20
head thickness	t_1	[mm]	3,50	4,20	4,80	5,30
tip length	L_P	[mm]	10,0	10,5	11,5	15,0
characteristic yield moment	$M_{y,k}$	[Nm]	3,4	7,6	10,5	18,0
withdrawal resistance parameter	$f_{ax,k}$	[N/mm^2]	-	-	-	-
associated density	ρ_a	[kg/m^3]	-	-	-	-
head-pull-through parameter	$f_{head,k}$	[N/mm^2]	10,0	10,0	13,0	14,0
associated density	ρ_a	[kg/m^3]	350	350	350	350
characteristic tensile strength	$f_{tens,k}$	[kN]	7,5	9,5	10,5	16,5

INSTALLATION

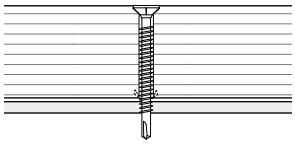
01



02



03



RECOMMENDATIONS FOR SCREWING:
steel: $v_S \approx 1000 - 1500$ rpm
aluminium: $v_A \approx 600$-1000 rpm