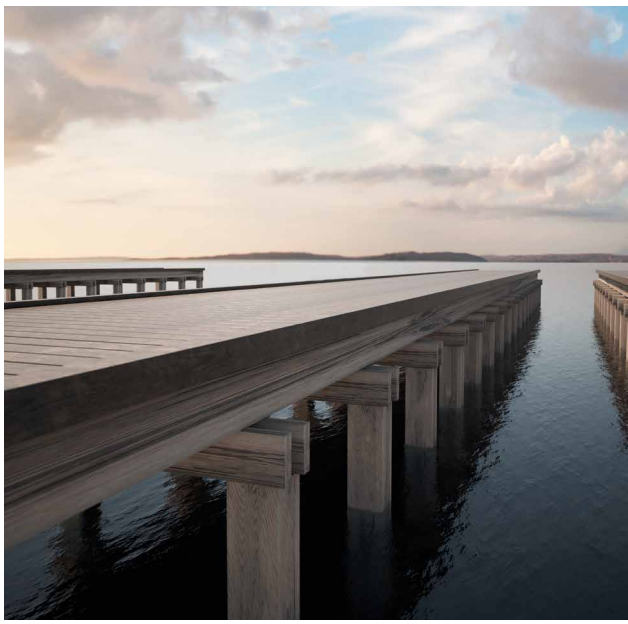
SCI A4 | AISI316

COUNTERSUNK SCREW



SUPERIOR STRENGTH

Special asymmetrical umbrella thread, elongated reamer cutter and under-head cutting ribs provide the screw with higher torsional strength and safer screwing.

A4 | AISI316

A4 | AISI316 austenitic stainless steel for high corrosion resistance. Ideal for environments adjacent to the sea in corrosivity class C5 and for insertion on the most aggressive timbers in class T5.

T5 TIMBER CORROSIVITY

Suitable for use in applications on agressive woods with an acidity (pH) level below 4 such as oak, Douglas fir and chestnut, and in wood moisture conditions above 20%.

BIT INCLUDED

DIAMETER [mm]

3,5 — **5** — 8

LENGTH [mm]

20 — **50** **100** — 320

SERVICE CLASS

SC1 SC2 SC3 SC4

ATMOSPHERIC CORROSIVITY

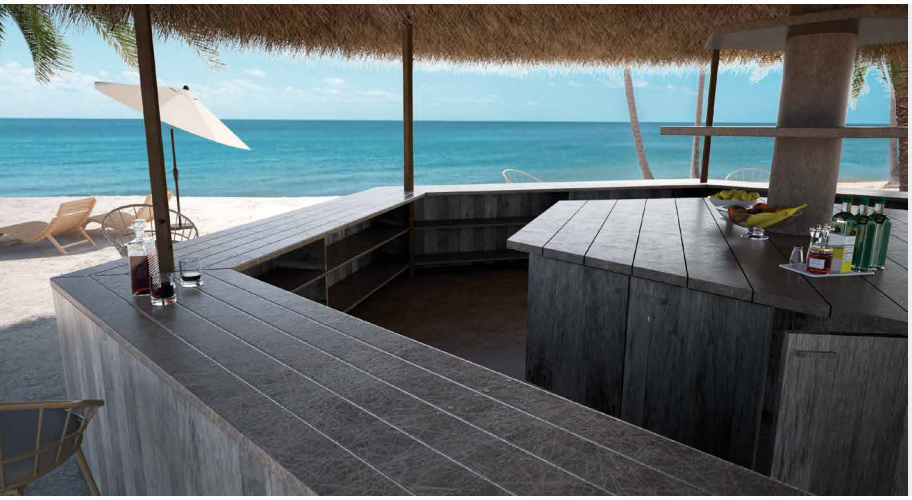
C1 C2 C3 C4 C5

WOOD CORROSIVITY

T1 T2 T3 T4 T5

MATERIAL

A4 AISI 316 — A4 | AISI316 austenitic stainless steel (CRC III)



FIELDS OF USE

Outdoor use in highly aggressive environments. Wooden boards with density of < 470 kg/m³ (without pre-drill) and < 620 kg/m³ (with pre-drill).

CODES AND DIMENSIONS

SCI A4 | AISI316

d_1 [mm]	CODE	L [mm]	b [mm]	A [mm]	pcs
5 TX 25	**SCI5050A4**	50	24	26	200
	SCI5060A4	60	30	30	200
	SCI5070A4	70	35	35	100
	SCI5080A4	80	40	40	100
	SCI5090A4	90	45	45	100
	SCI50100A4	100	50	50	100

HBS EVO C5

COUNTERSUNK SCREW

C5 EVO COATING

SC3

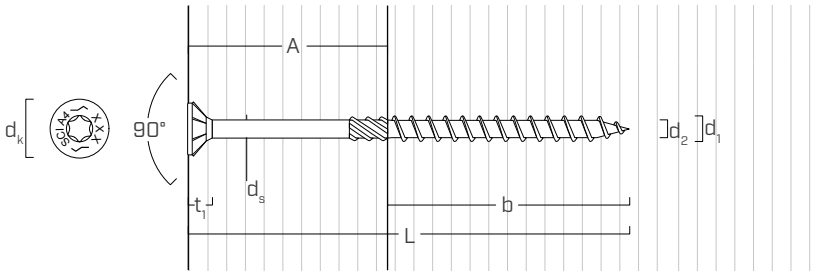
C5

T4

It is the screw of choice when high mechanical performance is required under very adverse environmental and wood corrosive conditions.

Find out more on page 58.

GEOMETRY AND MECHANICAL CHARACTERISTICS



GEOMETRY

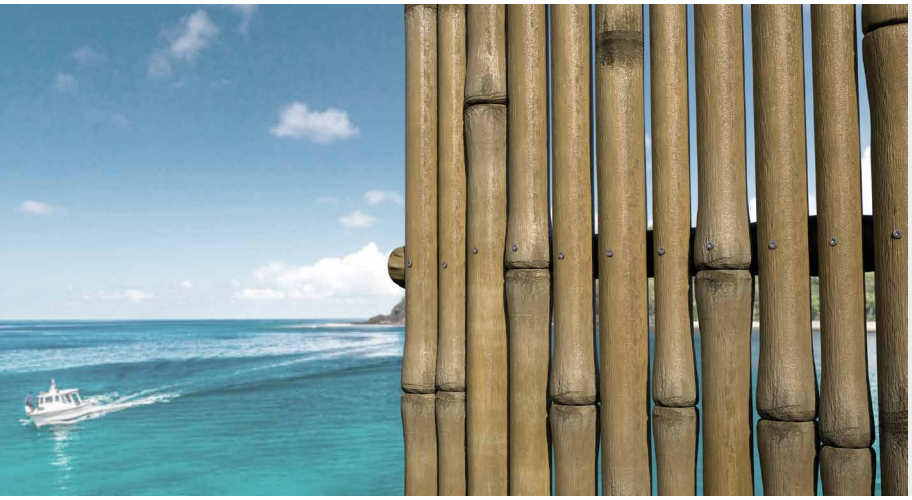
Nominal diameter	d_1	[mm]	5
Head diameter	d_K	[mm]	10,00
Thread diameter	d_2	[mm]	3,40
Shank diameter	d_S	[mm]	3,65
Head thickness	t_1	[mm]	4,65
Pre-drilling hole diameter(1)	d_V	[mm]	3,0

(1) For high density materials, pre-drilled holes are recommended based on the wood specie.

CHARACTERISTIC MECHANICAL PARAMETERS

Nominal diameter	d_1	[mm]	5
Tensile strength	$f_{tens,k}$	[kN]	4,3
Yield moment	$M_{y,k}$	[Nm]	3,9
Withdrawal resistance parameter	$f_{ax,k}$	[N/mm^2]	17,9
Associated density	ρ_a	[kg/m^3]	440
Head-pull-through parameter	$f_{head,k}$	[N/mm^2]	17,6
Associated density	ρ_a	[kg/m^3]	440

Mechanical parameters from experimental tests



MARINE ENVIRONMENTS

Can be used in aggressive environments and in areas near the sea thanks to the A4 | AISI316 stainless steel.