

# SCI A4 | AISI316

## COUNTERSUNK SCREW

### SUPERIOR STRENGTH

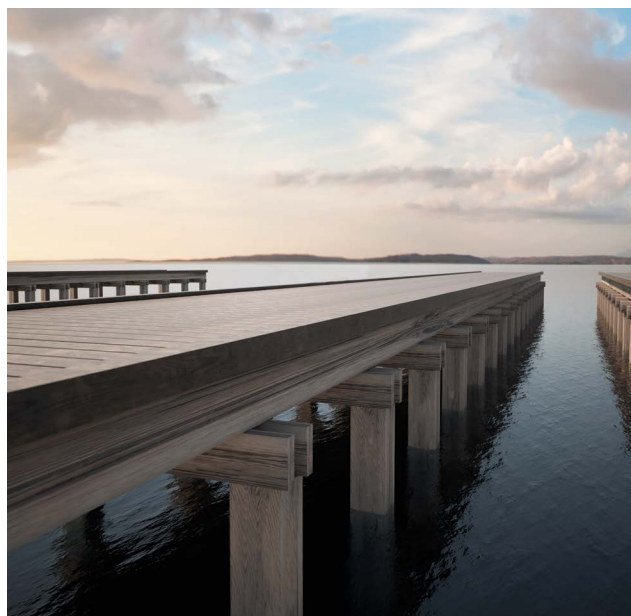
Special asymmetrical umbrella thread, elongated reamer cutter and under-head cutting ribs provide the screw with higher torsional strength and safer screwing.

### 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 aggressive 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  $< 470 \text{ kg/m}^3$  (without pre-drill) and  $< 620 \text{ kg/m}^3$  (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

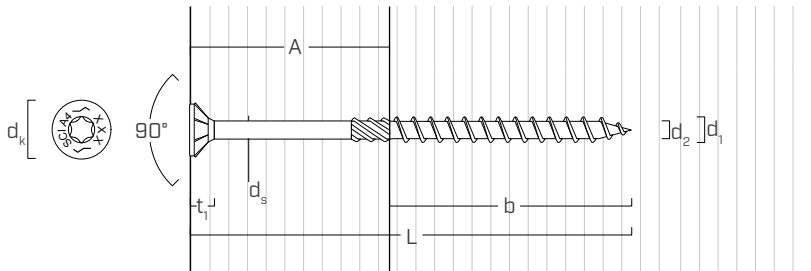
C5

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 <sup>(1)</sup>	$d_v$	[mm]	3,0

<sup>(1)</sup> 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 <sup>2</sup> ]	17,9
Associated density	$\rho_a$	[kg/m <sup>3</sup> ]	440
Head-pull-through parameter	$f_{head,k}$	[N/mm <sup>2</sup> ]	17,6
Associated density	$\rho_a$	[kg/m <sup>3</sup> ]	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.