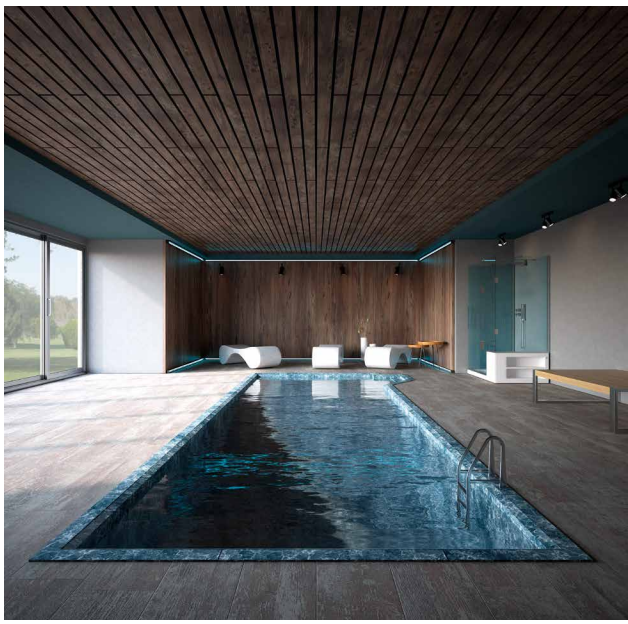
SCI HCR

COUNTERSUNK SCREW



MAXIMUM CORROSION PERFORMANCE

Rated in the highest corrosion resistance class by EN 1993-1-1:2006/A1:2015 (CRC V), it offers the highest atmospheric corrosion (C5) and wood (T5) resistance.

HCR: HIGH CORROSION RESISTANCE

Austenitic stainless steel. It is characterised by its high molybdenum and nickel content for maximum corrosion resistance, while the presence of nitrogen ensures excellent mechanical performance.

INDOOR POOLS

The chemical composition, in particular the high nickel and molybdenum content, confers strength to chloride pitting and, hence, stress corrosion cracking. This is the reason why it is the only category of stainless steel suitable for use in indoor swimming pools according to Eurocode 3.

BIT INCLUDED

DIAMETER [mm]

3,5 — **5** — 8

LENGTH [mm]

20 — **50** **70** — 320

SERVICE CLASS

SC1 SC2 SC3 SC4

ATMOSPHERIC CORROSIVITY

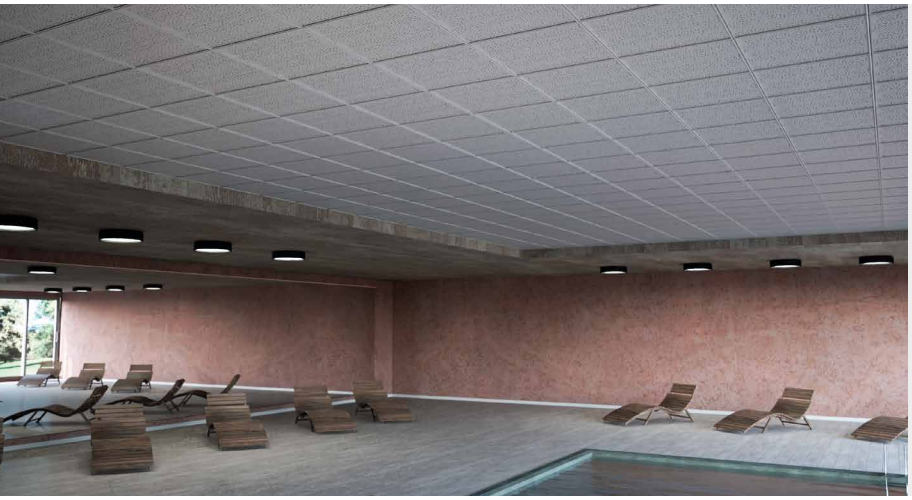
C1 C2 C3 C4 C5

WOOD CORROSIVITY

T1 T2 T3 T4 T5

MATERIAL

HCR | HCR | AL-6XN (CRC V) super-austenitic stainless steel



FIELDS OF USE

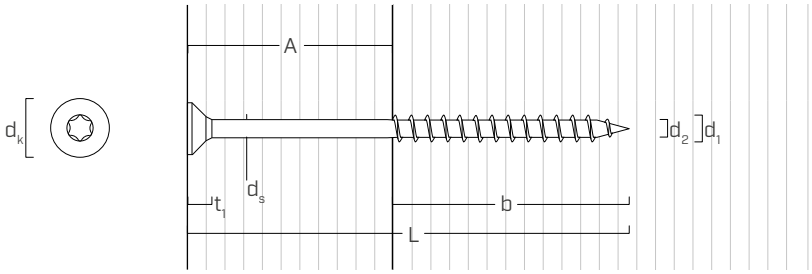
Outdoor and indoor use in extremely aggressive environments.

- indoor pools
- façade
- very wet areas
- oceanic climate

CODES AND DIMENSIONS

d_1 [mm]	CODE	L [mm]	b [mm]	A [mm]	pcs
5 TX 20	**SCIHCR550**	50	30	20	200
	SCIHCR560	60	35	25	200
	SCIHCR570	70	42	28	100

GEOMETRY AND MECHANICAL CHARACTERISTICS



GEOMETRY

Nominal diameter	d_1	[mm]	5
Head diameter	d_K	[mm]	9,80
Thread diameter	d_2	[mm]	3,20
Shank diameter	d_S	[mm]	3,60
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]	4,9
Yield moment	$M_{y,k}$	[Nm]	3,4
Withdrawal resistance parameter	$f_{ax,k}$	[N/mm^2]	12,5
Associated density	ρ_a	[kg/m^3]	350
Head-pull-through parameter	$f_{head,k}$	[N/mm^2]	9,4
Associated density	ρ_a	[kg/m^3]	350

Mechanical parameters from experimental tests.

SAUNAS AND WELLNESS CENTRES

Ideal in environments with very high moisture and the presence of salts and chlorides.