

OUTDOOR

Solutions for designing and building in outdoor environments



SERVICE CLASSES - SC

Defined according to the new generation of Eurocode 5 (prEN 1995-1-1:2025)

EXPOSURE most common cases

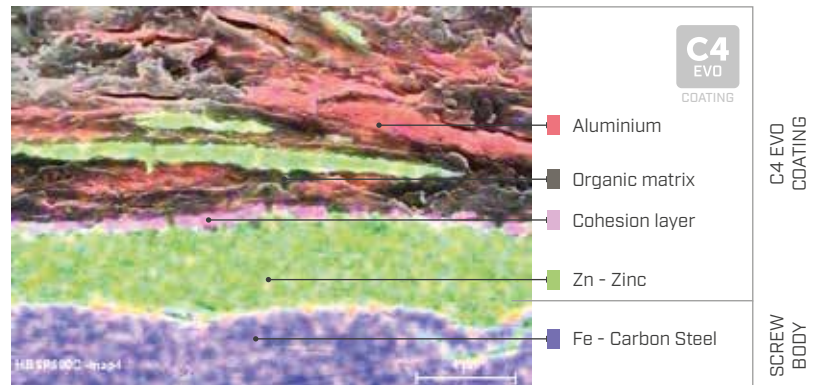


The installation environment determines the installation configuration and is a key factor in selecting the appropriate fastening solution to ensure long-term performance.

C4 EVO COATING

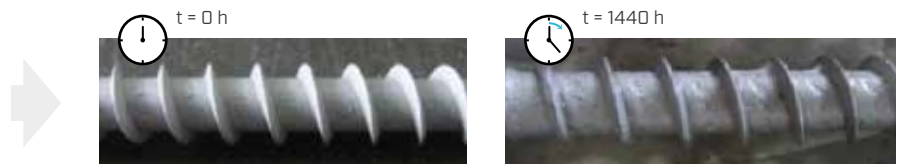
is a multilayer coating composed of:

- An external functional layer of epoxy matrix with aluminium flakes of around 15-20 μm , which gives the coating optimum resistance to mechanical and thermal stresses. Where required, the aluminium flakes serve as sacrificial cathodes for the metal base of the screw.
- Intermediate bonding layer supporting the outer functional layer.
- A internal layer of around 4 μm zinc microns which acts as an additional layer of corrosion resistance.



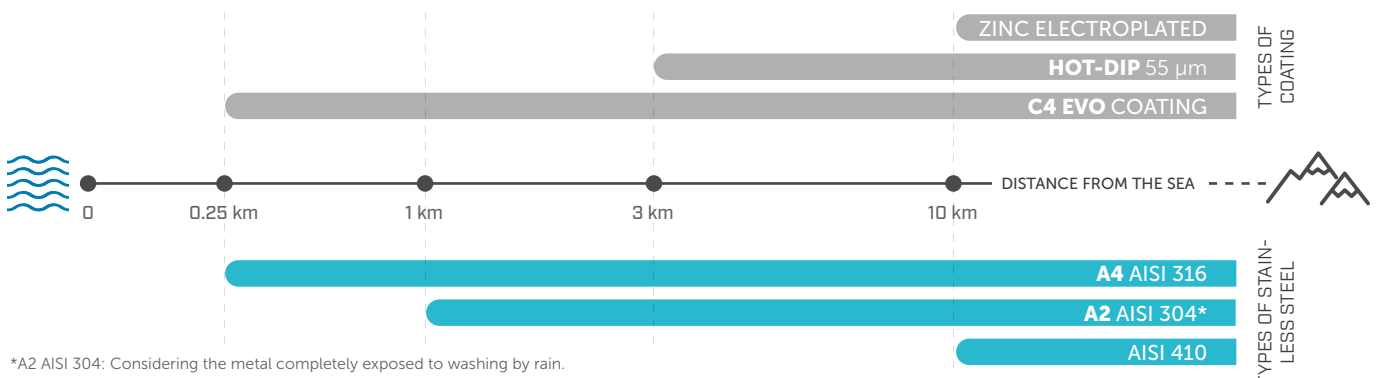
SALT SPRAY UNI EN ISO 9227:2012

Corrosion tests in artificial atmospheres
Salt spray tests



COATINGS vs STAINLESS STEELS

Comparison of atmospheric corrosion resistance between different types of zinc-based coating and different types of stainless steel used in timber screws. Considering only the influence of chlorides (salt) and without a cleaning regime.



*A2 AISI 304: Considering the metal completely exposed to washing by rain.

TERRACES SUBSTRUCTURE



GROUND COVER

ANTI-VEGETATION TARP FOR SUBSTRATES

The anti-vegetation tarp prevents the growth of grasses and roots, protecting the patio substructure from the ground. Permeable to water, allowing it to flow off.



NAG

LEVELING PAD

The EPDM material guarantees excellent durability, is not subject to sagging in time and does not suffer from exposure to sunlight. Available in 3 thicknesses (2,0, 3,0 and 5,0 mm), the pads can also be overlapped to effectively level the patio substructure.



GRANULO

GRANULAR RUBBER SUBSTRATE

The thermal-bonded rubber granules dampen vibrations, thus insulating the noise produced by footsteps. Resistant to chemical interactions, maintains its characteristics in time and is 100% recyclable. Extremely versatile thanks to the variety of formats.



TERRACES SPREADSHEET

Rapid calculation of all Rothoblaas components required for the construction of a rectangular or "L"-shaped terrace: supports, substructure, fasteners and connectors for the boards.

Possibility of dimensioning the type of support for timber or aluminium substructures and the type of connector for visible or concealed fasteners.



DOWNLOAD
DECK
DESIGNER



✓ RELATED PRODUCTS

PROFID

SPACER PROFILE



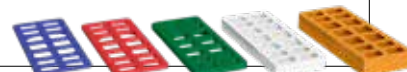
STAR

STAR FOR DISTANCES



SHIM/SHIM LARGE

COMPENSATION AND
SHIMMING SPACERS



TERRACES SUBSTRUCTURE



JFA

ADJUSTABLE SUPPORT FOR DECKS

The height-adjustable support can easily adapt to variations in substrate level. The rise also allows for ventilation under the joists. The ball-joint can adapt to uneven surfaces. Fast, convenient, versatile system.



CALCULATION
TOOL



SUPPORT

ADJUSTABLE SUPPORT FOR DECKS

Sturdy system suitable for heavy loads. All versions can be combined with a special head to facilitate lateral or upper fastening to the batten, which may be made of either timber or aluminium. All versions are adjustable in height. A tile adapter is also available on request.



CALCULATION
TOOL



ALU TERRACE

ALUMINIUM PROFILE FOR DECKS

The substructure made of aluminium profiles ensures excellent deck durability. The drainage channel allows water to run off and generates effective micro-ventilation. All versions are adjustable in height. A tile adapter is also available on request.



CALCULATION
TOOL



TERRA BAND UV

BUTYL ADHESIVE TAPE

Ideal for protecting battens from water and UV rays. Can be used for both patios and façades, protecting and extending the life of the wooden joists. Excellent even when subjected to thermal stress and continuous UV exposure.



NAIL
SEALING



DURABILITY



100% UV
RESISTANCE



STRONG

✓ RELATED PRODUCTS

CRAB MINI

ONE-HANDED TERRACE CLAMP



CRAB MAXI

BOARD CLAMP, LARGE MODEL



KKA AISI410

SELF-DRILLING SCREW
TIMBER-TO-TIMBER | TIMBER-
TO-ALUMINIUM



TERRACES CLIPS



FLAT | FLIP CONNECTOR FOR DECKING

Fast, easy installation thanks to the single-screw fastening and the integrated spacer-tab for precise spacing. Completely hidden. High mechanical strength.



CALCULATION
TOOL



SNAP CONNECTOR AND SPACER FOR DECKS

It can be used both as a concealed connector for boards and as a spacer between boards and battens. SNAP is developed to be used individually but also in combination. In this case, SNAPs have dual functionality as connectors and spacers.



CALCULATION
TOOL



GAP CONNECTOR FOR DECKING

Ideal for creating floors with narrow gaps between the boards (from 3.0 mm). Fastening is performed before the board is positioned. Suitable for symmetrically grooved boards such as those in WPC or high-density timber.



CALCULATION
TOOL

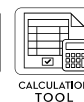


TERRALOCK CONNECTOR FOR DECKING

The micro-ventilation under the boards prevents water stagnation, ensuring excellent durability. The larger bearing surface ensures that the sub-structure is not crushed. Completely hidden. Allows replacement of individual boards.



VIDEO



CALCULATION
TOOL

✓ RELATED PRODUCTS

TVM CONNECTOR FOR DECKING



BROAD COUNTERBORE CUTTER FOR KKT, KKZ, KKA SCREWS



KKA COLOR SELF-DRILLING SCREW FOR ALUMINIUM



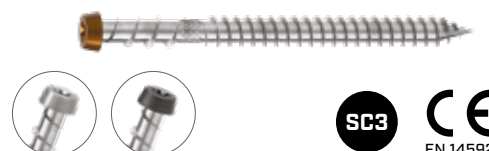
TERRACES FASTENING



KKT COLOR A4 | AISI316

CONE-SHAPED CONCEALED HEAD SCREW

Excellent camouflaging with wood. Ideal for very aggressive environments, for acidic, chemically treated wood and very high internal moisture (T5). Exceptional pull-through capacity.



SCI A4 | AISI316

COUNTERSUNK SCREW

The SCI A4 | AISI316 timber screw in stainless steel is the fastener that resists corrosion in particularly aggressive environments, such as by the sea.



KKZ A2 | AISI304

COUNTERSUNK CYLINDRICAL HEAD SCREW

Special tip with sword-shaped geometry specially designed to efficiently drill very high-density woods without pre-drill. Ensures an effective grip and good coupling of the timber elements.



EWS AISI410 | EWS A2

CONVEX HEAD SCREW

Countersunk teardrop shaped head with curved surface for a pleasant look and firm grip with the bit. The increased shank diameter with high torsional strength for a strong, safe screwing even in high density woods.



✓ RELATED PRODUCTS

KKT COLOR

CONE-SHAPED
CONCEALED HEAD
SCREW



DRILL STOP

SET OF DRILL BITS
AND COUNTERBORE CUTTER
WITH SWIVEL DEPTH STOP



FAS A4 | AISI316

SCREW FOR FAÇADES



TERRACES FASTENING



410
AISI

KKF AISI410

PAN HEAD SCREW

The flat under-head accompanies absorption of the shavings, preventing the wood from cracking and thus ensuring excellent surface finish. Special asymmetric "umbrella" thread with increased length (60%) for higher grip.



SC3

CE
ETA-11/0030



410
AISI

SHS AISI410

SMALL HEAD SCREW

SHS AISI410 is the small-headed timber screw designed for use on low-profile timber elements. The properties of AISI 410 martensitic stainless steel make it ideal for outdoor applications.



SC3

CE
ETA-11/0030



A2
AISI 304

SBS A2 | AISI304

SELF-DRILLING TIMBER-TO-METAL SCREW

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. The head and body are made of stainless steel, thus providing high resistance to corrosion.



SC3



410
AISI

KKA AISI410 | KKA COLOR

SELF-DRILLING SCREW TIMBER-TO-TIMBER | TIMBER-TO-ALUMINIUM

Self-perforating timber-to-metal tip with special chip-clearing tip. Ideal for fastening timber or WPC boards to aluminium substructures. Short version is suitable for fastening clips, plates and angle brackets.



SC3

Discover the complete range **OF SCREWS FOR TIMBER** on our website or request the catalogue from your local sales representative.
www.rothoblaas.com



PERGOLAS AND GAZEBOS

JOINTS FOR BEAMS



LOCK T MINI

CONCEALED TIMBER-TO-TIMBER CONNECTOR

LOCK T MINI is the hook plate for completely concealed timber-to-timber joints. It can be easily disassembled, is ideal for the construction of small and medium temporary structures and can be used concealed even with elements of reduced section.



LOCK T MINI EVO

CONCEALED TIMBER-TO-TIMBER CONNECTOR

LOCK T MINI EVO is suitable for aggressive outdoor environments and for timber containing tannin, such as chestnut and oak. The graphite black coating ensures service class 3.



LOCK C

CONCEALED TIMBER-TO-CONCRETE CONNECTOR

LOCK C is the easy-to-install aluminium alloy concealed connector for the construction of timber-to-concrete joints. The hooking system is ideal for quick removal of timber beams for seasonal requirements.



DISC FLAT

REMOVABLE CONCEALED CONNECTOR

DISC FLAT is the ideal removable concealed connector for shear joints and tensile connections between timber elements.

It withstands both shear and tensile loads due to the elements tightening provided by the pass-through rod.



✓ RELATED PRODUCTS

LBS

ROUND HEAD SCREW
FOR PLATES



KKF AISI410

PAN HEAD SCREW



VGS A4

FULL THREAD CONNECTOR
WITH COUNTERSUNK HEAD



PERGOLAS AND GAZEBOS

JOINTS FOR BEAMS



VGZ EVO

FULLY THREADED SCREW
WITH CYLINDRICAL HEAD

VGZ EVO is the timber screw with total thread for structural uses.



ALUMINI

CONCEALED BRACKET WITHOUT HOLES

ALUMINI is the steel-aluminium alloy bracket designed for the construction of concealed joints in slender structures. The small dimensions of the side allows to connect secondary beams with limited width (starting from only 45 mm). Produced by extrusion, it is without welds.



ALUMIDI

CONCEALED BRACKET WITH AND WITHOUT HOLES

ALUMIDI is the timber beam bracket manufactured by extrusion from EN AW-6005A aluminium alloy, with no welds. Designed for concealed timber-to-timber and timber-to-concrete joints, it is suitable for solid softwood and hardwood timber, glulam, LVL and CLT.



BSA | BSI

METAL HANGERS WITH EXTERNAL/INTERNAL WINGS

Standardized, certified, fast and inexpensive system. Suitable for the fastening of joints in mixed mode bending. It can be used on both timber and concrete.



✓ RELATED PRODUCTS

JIG ALU STA

DRILLING TEMPLATE FOR
ALUMIDI AND ALUMAXI



STA A2 | AISI304

SMOOTH DOWEL



SBD

SELF-DRILLING
DOWEL



POST BASES



S235
DAC COAT

R10-R20

ADJUSTABLE POST BASE

The adjustable post base is an indispensable support for raising the structure off the ground and protecting it from water splashing and stagnation, ensuring great durability.

The R10 and R20 adjustable post bases for outdoor joints also offer the advantage that they can be adjusted in height after assembly, to correct any possible unevenness.



S235
DAC COAT

S235
HDG55

P10-P20

EMBEDDED TUBULAR POST BASE

The P10 and P20 post bases can be embedded in concrete, allowing the column to be spaced more than 300 mm from the ground, in accordance with DIN 68800, ensuring high durability of the timber.



S235
HDG55

S50

HIGHLY-RESISTANT POST BASE

S50 is the powerful and certified concealed post base designed for the construction of large structures. Thanks to the compression strength above 300 kN, it is ideal for post and beam construction systems of large dimensions and large spans.



✓ RELATED PRODUCTS

HBS PLATE EVO

PAN HEAD SCREW



SKR

HEX-HEAD SCREW ANCHOR
WITH MOCK WASHER FOR
CONCRETE CE1



VIN-FIX

VINYL ESTER
CHEMICAL ANCHOR
WITHOUT STYRENE



POST BASES

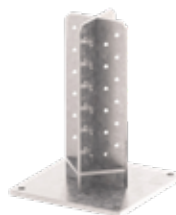


S235
HDG55

X10

CROSS-SHAPED POST BASE

The X10 model is a totally concealed post base that offers different strength levels according to the fastening configuration used. Ideal for building pergolas or gazebos which do not require bracings and are open on all sides.



VIDEO



S235
HDG55

A2
AISI 304

R40

ADJUSTABLE POST BASE

The height can also be adjusted after assembly is completed, according to functional or aesthetic requirements. Outdistanced from the ground to prevent water splash and stagnation and ensure high durability. Concealed fastening on the timber element. Available in both DAC COAT and AISI 304 stainless steel to ensure durability in all situations.



S235
HDG55

S355
HDG55

S235
HDG

F70

"T" SHAPED POST BASE

F70 is a concealed post base designed to accommodate columns of all sizes. It is available in two versions: without holes, to be used with SBD self-drilling dowels; with holes, to be used with smooth dowels or bolts.



DESIGN
REGISTERED



VIDEO



✓ RELATED PRODUCTS

XEPOX

TWO-COMPONENT
EPOXY ADHESIVE



STA

SMOOTH DOWEL



SBD

SELF-DRILLING
DOWEL



PERGOLAS AND VERANDAS FASTENING



PERGOFAST

MODULAR SYSTEM FOR GAZEBOS, PERGOLAS
AND OUTDOOR FURNITURE

For the construction of pergolas and furniture in any shape or size. Only square-section timber components are required, with no machining needed. Dimensions 90 x 90 mm, 100 x 100 mm, 120 x 120 mm, 140 x 140 mm. Galvanising and paint (black RAL9005FT and white RAL 9016) ensure optimal durability and visual appeal. The included screws are colour-matched.



available colours:



PERGOLA OR GAZEBO?

With PERGOFAST, assembly is simple and fast.
Watch the video on YouTube.



MGS AI 975

THREADED ROD

Threaded rod in A2-70 (A2 | AISI304) DIN 975 stainless steel, available in sizes from M8 to M20.



A2
AISI 304

SC3

KOT A2 | AISI304

ROUND HEAD BOLT

Round head bolt supplied with an incorporated nut (for the carbon steel version). Available also in A2 | AISI 304 stainless steel for outdoor applications (service class 3).



A2
AISI 304

SC3



JELLY

PAINTING MACHINE

JELLY is the worksite painting machine for boards and wooden elements that will reduce application time and guarantee uniform and impeccable application.



PERGOLAS AND VERANDAS FASTENING



HBS EVO

COUNTERSUNK SCREW

HBS EVO is one of the strongest timber screws in outdoor environments. Thanks to its special surface treatment, it can be used in service class 3 and atmospheric corrosion class C4.



HBS PLATE EVO

PAN HEAD SCREW

The HBS PLATE EVO timber screw is designed for outdoor steel-to-timber joints. The special coating makes it perfect for applications in service class 3.



TBS EVO

FLANGE HEAD SCREW

The TBS EVO timber screw is the structural screw for outdoor use in service class 3 and atmospheric corrosion class C4. The flange head serves as washer and ensures high tensile strength.



SKR EVO | SKS EVO

SCREW ANCHOR FOR CONCRETE

The special threading requires a small pre-drill and guarantees fastening on concrete without creating expansion stresses in the concrete. Sturdy and easy to install.



SC3

✓ RELATED PRODUCTS

INA

THREADED ROD FOR
CHEMICAL ANCHORS



VIN-FIX

VINYL ESTER
CHEMICAL ANCHOR
WITHOUT STYRENE



HBS PLATE A4

PAN HEAD SCREW
FOR PLATES





TRASPIR EVO UV 210

HIGHLY BREATHABLE MONOLITHIC MEMBRANE
RESISTANT TO UV RAYS

Highly breathable monolithic membrane characterised by exceptional UV resistance and excellent flame-retardant properties. It consists of a monolithic acrylic-blend film coated onto a polyester reinforcing layer.



BARRIER ALU NET SD1500

REFLECTIVE VAPOUR BARRIER $S_d > 1500$ m

Thanks to its ability to reflect up to 70% of the heat, the membrane improves the thermal performance of the construction panels. Self-extinguishing membrane which does not spread the flame in case of fire contributing to the protection of the structure.



BYTUM SLATE 3500

SELF-ADHESIVE SLATED BITUMINOUS
MEMBRANE

BYTUM SLATE 3500 is the reinforced bituminous membrane that guarantees effective waterproofing of timber structures and, thanks to its slated surface, ensures permanent UV stability.



SHINGLE

BITUMINOUS TILE

SHINGLE is the bituminous tile CE marked according to ETA, serving as a final waterproof layer on the roof. Weatherproof and acoustically insulated against heavy rain and, thanks to its grit top layer, ensures permanent UV stability.



ON SITE, WATER CHANGES THE RULES

Rain, standing water and unprotected details can alter the conditions defined at the design stage. With this Smartbook, we have translated on-site experience into technical criteria and workable solutions. Our experience is in your hands.



DOWNLOAD
SMART BOOK

FALL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

HERO

HELMET FOR WORK AT HEIGHT, ON CONSTRUCTION SITES OR IN INDUSTRIAL AREAS

Lightweight, with a sporty design, featuring wheel ratchet size adjustment. Ventilation ensures comfort even on the hottest days.



YOUR HELMET

Customise the helmet by adding a sticker with your logo. Ask your local sales representative for more information.



SCAFFOLD BASE KIT

BASE KIT FOR WORKING ON SCAFFOLDING



FAST LINK

ENERGY

POP

IRIS

RSBAG

ROOF MID KIT

INTERMEDIATE KIT FOR WORKING ON ROOF



FAST LINK

LINDSTOP

DOUBLE SICUROPE

METIS

RSBAG

The **FALL PROTECTION SYSTEMS AND PROTECTIVE EQUIPMENT** catalogue is the comprehensive guide for working at height in complete safety, in the construction and industrial sectors.
rothoblaas.com/safe



- FASTENING
- AIRTIGHTNESS AND WATERPROOFING
- SOUNDPROOFING
- FALL PROTECTION
- TOOLS AND MACHINES

rothoschool



Thanks to partnerships with universities, research centres and specialised companies worldwide, Rothoblaas courses bring speakers with practical experience and proven expertise in technical consultancy into the classroom. The training combines theoretical knowledge with practical application and is aimed at engineers, architects, carpenters, safety specialists and other professionals in the construction sector.

ROTHOSCHOOL ON TOUR

We bring training directly to local areas, with hands-on sessions for industry professionals.

FIND THE COURSE THAT SUITS YOU

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