S + P®

Schäfer + Peters GmbH

Competence in Stainless Steel

EDELSTAHL Rostfrei®
INOX
STAINLESS STEEL

OUR APPROVALS
GIVE YOU PEACE OF MIND

Schäfer + Peters GmbH
Zeilbaumweg 32
DE-74613 Öhringen

Tel. +49 (0) 7941 6094-0
Fax +49 (0) 7941 6094-700

info@schaefer-peters.com
www.schaefer-peters.com

We cannot assume liability for the texts, information or translations provided being up-to-date, correct or complete.

Our approvals give you peace of mind

To ensure the correct use and implementation of a general building-authority approval and correct use of the mark of conformity together with a fully functioning quality management system, we have provided explanations of the individual elements for you. The products listed below satisfy all these requirements.

Explanation of building-authority approval

Approvals for construction products and types of construction

The Deutsches Institut für Bautechnik (DIBt) is the German licensing office responsible for issuing general building-authority approvals (abZ) for construction products and types of construction and European technical approvals (ETA) for construction products and assemblies.

Around 2000 national approvals are issued annually. At European level, the DIBt competes with other European licensing offices and is a leader in issuing European technical approvals. The institute works on behalf of companies selling their products in Germany, Europe and the rest of the world.

General building-authority approvals are issued within the scope of application of state building codes for those construction products and types of construction for which there is no generally-accepted, good engineering practice, in particular if the products or types of construction have no DIN standards, or if they deviate significantly from these. They are reliable proof of usability for construction products and types of construction in terms of structural engineering requirements of buildings.

European technical approvals are issued for construction products within the scope of application of the German Construction Products Act; they reliably document the usability of a construction product.

What is a general building-authority approval?

A general building-authority approval is evidence of the usability of a non-regulated construction product or type of construction in accordance with the state building codes (Section 18 para.1 and Section 21 para. 1 of the German Model Building Regulations [MBO]).

Building works should be arranged, set up, modified and maintained such that public health and safety is not put at risk, especially risks of death, harm to health and livelihood (Section 3 para.1 MBO).

Explanation of mark of conformity

What is the mark of conformity and when can or must I use it for labelling?

Once approval has been granted, the construction products still need confirmation that they comply with the general building-authority approval. Depending on the clauses in the approval, this takes the form of a declaration of compliance from the manufacturer or a compliance certificate issued by a certification body.
In the latter case, external monitoring must also be established and undertaken by a monitoring body. External monitoring regularly checks whether the construction product corresponds to the general building-authority approval.

The manufacturer must show that a declaration of compliance or a certificate of compliance has been issued by labelling the construction products with the mark of conformity and stating the purpose of use. The product may only be used as stated in the approval once the mark of conformity is in place.

In accordance with Section 24, para. 4 of the MBO, the mark of conformity consists of the German letter "Ü" and the following details

1. Name of manufacturer; plus manufacturing plant if the manufacturer's name does not allow the construction product to be clearly assigned to a manufacturing plant; instead of the manufacturer's name, the name of the construction product's distributor may be stated along with details of the manufacturing plant; details of the manufacturing plant may be encoded if the plant can be clearly established at any time from the manufacturer and distributor and, if a certificate of conformity is required, from the certification body and monitoring body.

2. The name of the general building-authority approval as "Z" and its number

3. The name or symbol of the certification body if the involvement of a certification body is prescribed.

The details stated in para. 1 should be provided in the area within the letter "Ü" or immediately adjacent to it.

European technical approval (ETA)

What is a European technical approval (ETA)?

The European technical approval is evidence of the usability of a construction product as laid down in the Construction Products Directive, implemented in Germany through the Construction Products Law.

The ETA is based on tests, analyses and a technical assessment by bodies that have been appointed for this purpose by the EU member states. It covers all product features which may be significant to meeting statutory requirements in the member states. The level of performance required may differ between countries and depending on intended use. European technical approval can be issued for construction products for which there are (as yet) no harmonised standards according to the Construction Products Directive or which deviate greatly from a harmonised standard.

The assessment of usability is based either on approval guidelines (European Technical Approval Guidelines - ETAGs), which were written by the EOTA for the relevant product areas, or assessment criteria agreed on with other EOTA bodies especially for an application for approval. In the interests of manufacturers, evidence already provided to the DIBt in the national approval process is also used for the European process as far as possible.

The European technical approval allows the manufacturer to use the CE mark on the construction product and therefore provides access to the European market. By using the CE mark, the manufacturer confirms that it has undertaken the process prescribed to demonstrate that the product complies with the approval.

CE mark

General information about the CE mark
The CE mark was created to ensure the free movement of goods within the EU with safe products. A product may only be marketed and operated once it has gone through a conformity assessment process in accordance with the applicable EC Directives. CE marking is based on the ZA appendix of a harmonised European standard (hEN) or a European technical approval (ETA).

What products require a CE mark?
Manufacturers of products which fall under one of the 23 EC Directives requiring mandatory CE marking must provide their products with the CE mark. The EU does not require CE marking for some product groups. The requirements can be found in the relevant EC Directive for the product. All EC Directives are listed in the Appendix.

Who is responsible for CE marking?
The manufacturer of the product is responsible for this marking. Should a manufacturer from outside the EU fail to label the product, this obligation passes to its agent in the EU or the importer or ultimately the party marketing or selling the product.

Where must the CE mark be placed?
The CE mark should be permanently placed somewhere where it is clearly visible and legible on the product or, if there isn't enough space, on a sticker stuck on it. If the type of product does not permit this, it is placed on the packaging (if used) and accompanying documents, if the relevant Directive stipulates such documents.

Do all ISO 4014 compliant screws have CE marking?
No. For example, if screw connections not prestressed as designed are needed for metal construction in accordance with DIN EN 15048-1, this should be stated when ordering. These items are then tested according to the requirements of the standard and if the test is passed are delivered with the corresponding certificates.

Is the CE mark a quality seal?
The CE mark is not a quality symbol or seal. The manufacturer simply uses the mark to assure customers that the product complies with the safety requirements of the relevant CE guidelines. The process does not, however, involve independent testing on behalf of an EU authority to establish whether the product is free from dangerous substances or meets the current safety requirements.

Key terms

Construction products
Construction products are
1. construction materials, components and systems manufactured to be permanently installed in structures above or below ground,
2. systems pre-assembled out of construction materials and components to be joined with the soil, such as prefabricated houses, prefabricated garages, silos, etc.

Construction Products Law (BauPG)
The Construction Products Law (BauPG) is the implementation of the European Construction Products Directive into national law by the Federal Republic of Germany. It governs the marketing, the free movement of goods and the use of construction products and defines the construction product's usability depending on how it is used in a structure.

Construction Products Directive 89/106/EEC (CPD)
The aim of the CPD is to define essential requirements (ER) of the structure in which construction products are used. These requirements must be met over an appropriate period of time according to the Appendix of the CPD with normal maintenance. These requirements include:
- mechanical strength and stability
- fire protection
- hygiene, health and environmental protection
- safety in use
- sound insulation
- energy saving and thermal protection

Fulfilment of these requirements is the basis for CE marking, with which the manufacturer demonstrates that the product satisfies all the essential requirements of the Directive and that the relevant EU Directives are observed.

Construction Products Regulation 305/2011EU (CPR)
The Construction Products Regulation (305/2011/EU – CPR) stipulates harmonised conditions for the marketing of construction products. It came into force on 24 April 2011 and supersedes the Construction Products Directive (89/106/EEC - CPD). The transition period ended on 1 July 2013.

Building Regulation List
The Building Regulation Lists published once a year by the Deutsches Institut für Bautechnik (DIBt) provide an up-to-date and comprehensive indication of the building-authority requirements relating to the use of construction products. The lists include construction products and types of construction for which building-authority requirements exist. The Building Regulation List has three sections covering different domains:
- List A: Construction products and types of construction according to state building codes
- List B: Construction products according to EU Directives with CE marking
- List C: Construction products of minor importance to building authorities

Harmonised European standards (hEN)
Standards for which the European Commission has issued a mandate. These standards must satisfy the safety levels defined by the member states in the mandate. Once published in the EU's Official Journal and after the coexistence period, these standards are binding for all member states.

Declaration of conformity
Through the declaration of conformity, the manufacturer confirms that the specified conformity assessment procedures have been undertaken and that the product corresponds to the applicable Directives. The declaration of conformity forms the basis for use of the CE mark as prescribed by law.

S+P quality management

Our DIN EN ISO 9001:2008 quality management system guarantees our implementation of the necessary quality objectives. This includes traditional quality assurance as well as the planning and execution of operational procedures throughout the company.

Quality assurance

Many of our products are already checked by a neutral test institute and regularly inspected according to the requirements of external monitoring. For various products this has been confirmed by way of a building-authority approval from the DIBt.

In our quality assurance, using a multitude of measurement and test devices we can perform tests of, for example, dimensional uniformity, torques, screw-in times, strength and even material analyses in our own test laboratory.

Hitec
measuring microscope

→ This test device allows distances, angles, areas, circles, radii and diameters to be measured with great accuracy. The measurements can be documented in a digital format at any time.

Schatz
torque testing device

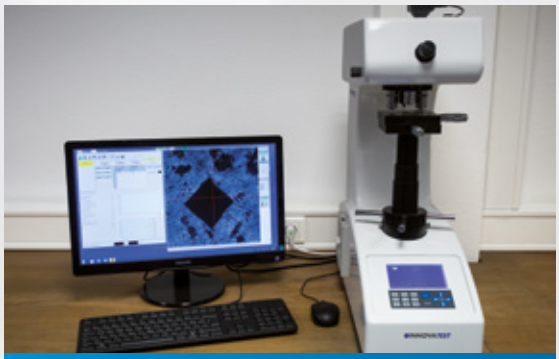
→ The Schatz torque analysis device allows ultimate torques, screw-in torques or even rotary angles to be checked.

Urban
screw unit

→ This screw unit can be used to measure screw-in times under the influence of different weights. It is particularly useful for self-drilling screws and timber construction screws. Perfect fastener analyses are possible when combined with the Schatz transmitter.

X-ray
analysis device

→ The optimum way of analysing the material components of the stainless steel fasteners and establishing their composition, regardless of whether they contain chrome, nickel or molybdenum.



Nexus
premium hardness testing device

→ This hardness testing device can be used for high-precision hardness testing according to Vickers (and Knopp / Brinell). Its measurement range is 0.2 to 30 kp.

Dark chamber with integrated UV light sources and white light

→ It can be used to provide optical evidence of the smooth coating applied on the fastening elements.

Product classification for approval

	ETA-11/0283	ETA-12/0086	ETA-13/0178	ETA-11/0196	ETA-06/0124	Z-14.4-602	Z-14.4-638	Z-14.4-706	Z-30.3-6	Z-14.4-426	EN 14592 CE
931 - Ø 6 to Ø 24									x		
933 - Ø 6 to Ø 24									x		
934 - Ø 6 to Ø 24									x		
4014 - Ø 10 to Ø 24									x		
4017 - Ø 6 to Ø 24									x		
4032 - Ø 6 to Ø 24									x		
9001 - Ø 8/10/12					x						
9004 - Ø 8/10/12/16				x							
9032 - type 1								x			
9040 - Ø 4/4.5/5.0/6.0	x										
9041 - Ø 3.2											x
9042											x
9043											x
9044 - Ø 4/4.5/5.0/6.0	x										
9045 - Ø 4/4.5/5.0/6.0/8.0/10	x										
9046 - Ø 4/4.5/5.0/6.0/8.0/10	x										
9047 - Ø 4/4.5/5.0/6.0/8.0/10	x										
9047_0- Ø 4/4.5/5.0/6.0/8.0/10	x										
9047_1 - Ø 4/4.5/5.0/6.0/8.0/10	x										
9048 - Ø 4/4.5/5.0/6.0/8.0/10	x										
9049 - Ø 4/4.5/5.0/6.0/8.0/10	x										
9050 - Ø 4/4.5/5.0/6.0/8.0/10	x										
9057 - Ø 6.3/6.5 up to L 64		x									
9057 - Ø 6.3/6.5 as of L 75		x	x								
9059 - Ø 6.3/6.5 up to L 64		x									
9059 - Ø 6.3/6.5 as of L 75		x	x								
9098 - Ø 6.3/6.5 up to L 64		x									
9098 - Ø 6.3/6.5 as of L 75		x	x								
9142 - Ø 4.2/4.8											x
9143 - Ø 5.3											x
9082 - Ø 6/8/10/12						x					
9182...84 - Ø 8/10							x				
9182...80 - Ø 8/10							x				
9241 - Ø 3.2/4.0/4.5/5.0	x										
9242 - Ø 4.0/4.5/5.0	x										
9243 - Ø 5.5											x
9244 - Ø 3.5/4.0/4.5/5.0/6.0	x										
9245 - Ø 4.0/4.5/5.0											x
9246 - Ø 4.0/4.5/5.0/6.0	x										
9504 - SP-B2-2-4.8		x									
9504 - SP-B2-2-5.5		x									
9504 - SP-B2-2-6.3		x									
9504 - SP-B2-2-6.0		x								x	
9504 - SP-B2-3-5.5		x									
9504 - SP-B2-6-5.5 up to L60		x									
9504 - SP-B2-6-5.5 as of L70		x	x								
9504 - SP-B2-12-5.5 up to L 60		x									
9504 - SP-B2-12-5.5 as of L 70		x	x								
9504 - SP-B2-2H-5.5		x									
9504 - SP-B2-6-6.3 up to L 60		x									
9504 - SP-B2-6-6.3 as of L 70		x	x								
9505 - SP-B2-60 25		x									
9604 - SP-A2-6-5.5		x									

European technical approval building-authority approval / monitored CE mark

TIMBER CONSTRUCTION SCREWS TX

Ideal for screw connections in wood and solar.
The optimal thread geometry assures maximum hold in many different wood materials. Optimum screw strength is achieved through the reinforced head.

TX:
Item no. 9045
Item no. 9046
Item no. 9047

Material: A2/A4

ETA - 11/0283

TX INTERNAL DRIVE

TIMBER CONSTRUCTION SCREW ITEM NO. 9047 PARTIAL THREAD

Countersunk head with TX internal drive

TIMBER CONSTRUCTION SCREW ITEM NO. 9047 FULL THREAD

Countersunk head with TX internal drive

TIMBER CONSTRUCTION SCREW ITEM NO. 9045 PARTIAL THREAD

Round head with TX internal drive

TIMBER CONSTRUCTION SCREW ITEM NO. 9045 FULL THREAD

Round head with TX internal drive

TIMBER CONSTRUCTION SCREW ITEM NO. 9046 FULL THREAD

Raised countersunk head with TX internal drive

TIMBER CONSTRUCTION SCREWS PZ

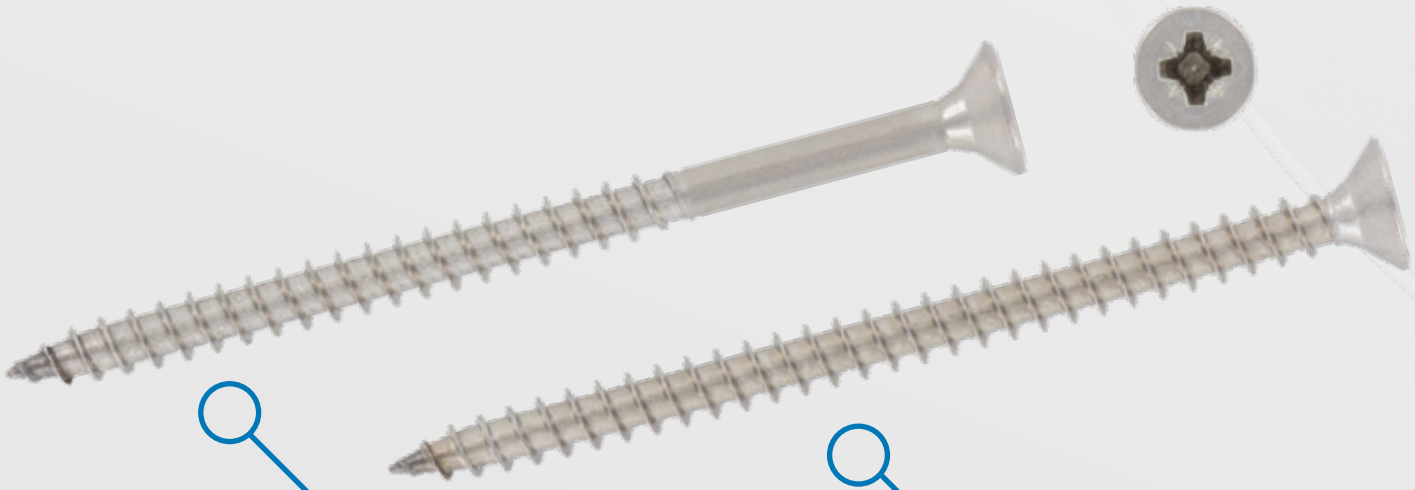
Ideal for screw connections in wood and solar.
The optimal thread geometry assures maximum hold in many different wood materials. Optimum screw strength is achieved through the reinforced head.

PZ:
Item no. 9048
Item no. 9049
Item no. 9050

Material: A2/A4

ETA - 11/0283

POZIDRIVE



TIMBER CONSTRUCTION SCREW ITEM NO. 9050 PARTIAL THREAD

Countersunk head with Pozidrive

TIMBER CONSTRUCTION SCREW ITEM NO. 9050 FULL THREAD

Countersunk head with Pozidrive

TIMBER CONSTRUCTION SCREW ITEM NO. 9048 PARTIAL THREAD

Round head with Pozidrive

TIMBER CONSTRUCTION SCREW ITEM NO. 9048 FULL THREAD

Round head with Pozidrive

TIMBER CONSTRUCTION SCREW ITEM NO. 9049 PARTIAL THREAD

Raised countersunk head with Pozidrive

TIMBER CONSTRUCTION SCREW ITEM NO. 9049 FULL THREAD

Raised countersunk head with Pozidrive

SP-SUPER DRILL

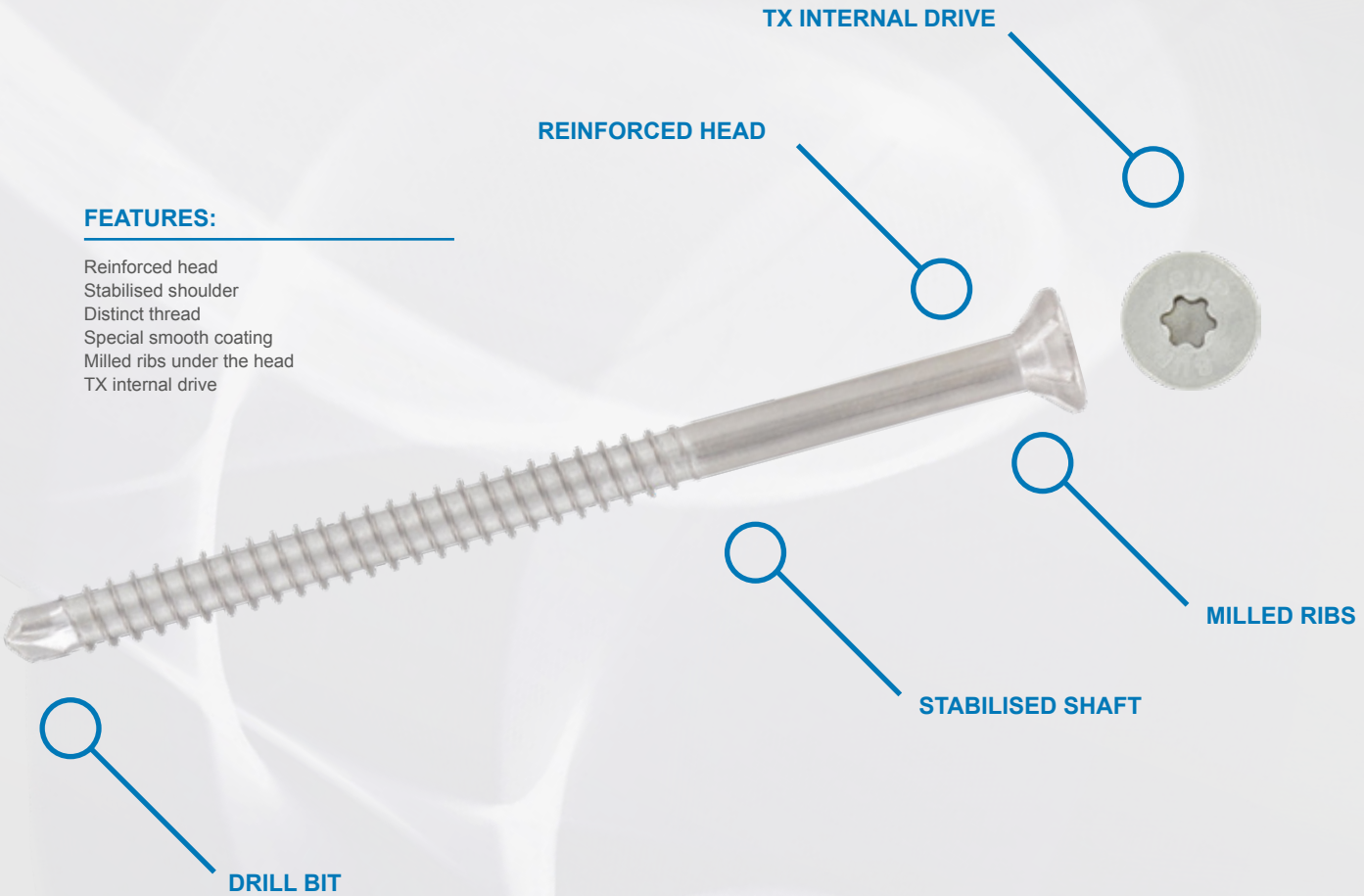
Ideal for outdoor screw connections such as those in boarding, fences, balconies, steps, playground equipment, façades and terraces. The extra-tough screw, in terms of both withdrawal force and strength.
Can also drill through thin-walled, soft metal sheets, e.g. aluminium up to a thickness of 2 mm.

Item no. 9040
Material: A2

ETA - 11/0283

FEATURES:

Reinforced head
Stabilised shoulder
Distinct thread
Special smooth coating
Milled ribs under the head
TX internal drive



BENEFITS:

No predrilling
Predrilling is not needed in most hardwoods. But given the many different properties of hardwoods we always recommend testing before use.

No tearing out
The drill bit relieves stress in the timber, thereby preventing cracks from forming.

No splitting
The stabilised shaft and distinct thread geometry practically eliminate screw breakage, even in hardwoods.

Spec. smooth coating
Guarantees low screw-in torques, thus requiring less effort.

Perfect looks
Six milled ribs under the head ensure that the Super Drill timber construction screw is easily and cleanly countersunk.

Wobble-free drive
The TX driving feature allows the screw to be driven easily and securely from setting to countersinking without the bit "jumping out".

SP-DRILL

Ideal for conventional outdoor screw connections such as those in boarding, fences, balconies, jetties, and façades.

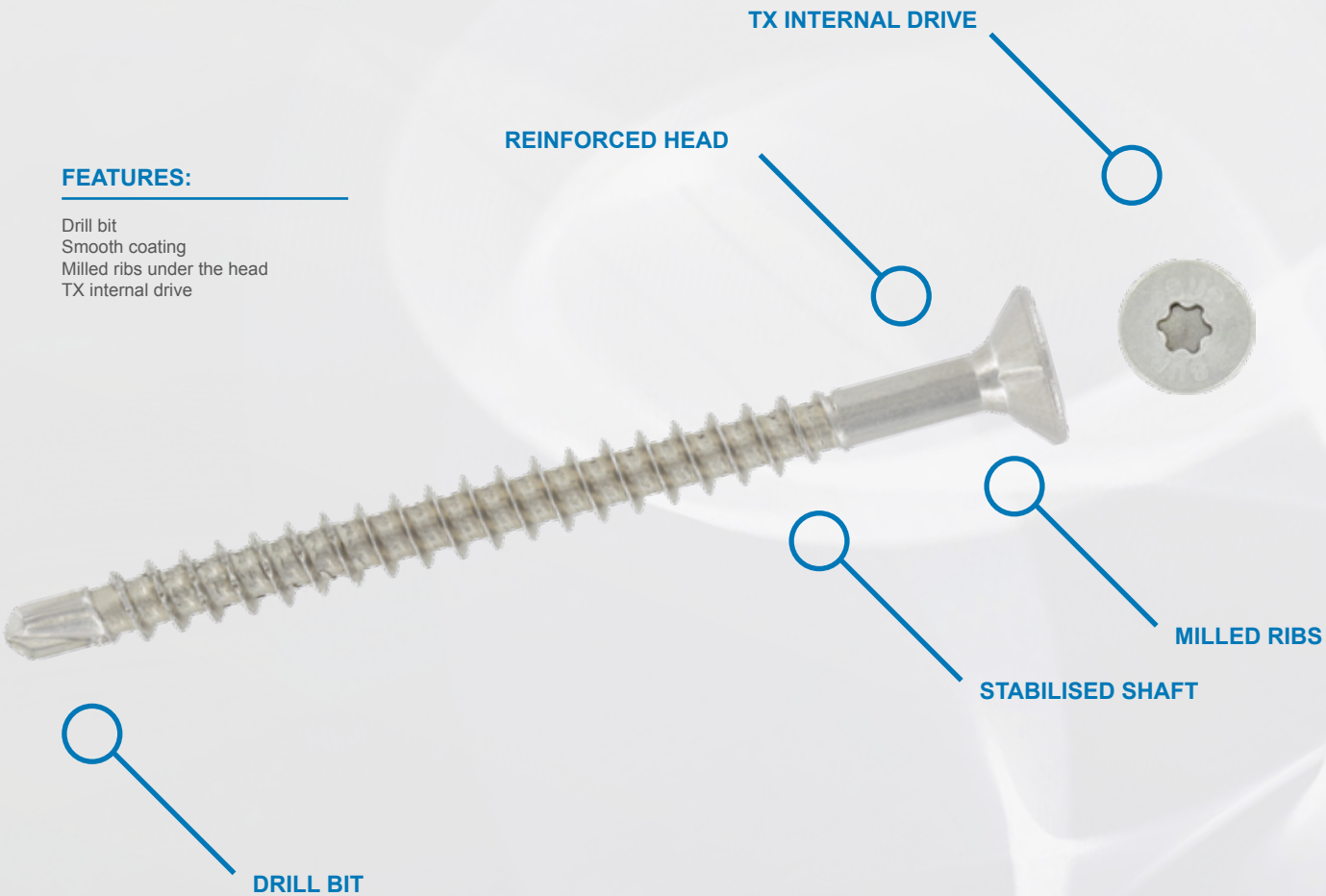
Ideal for screw connections in softwoods without predrilling.

Item no. 9044
Material: A2

ETA - 11/0283

FEATURES:

Drill bit
Smooth coating
Milled ribs under the head
TX internal drive



BENEFITS:

Wobble-free drive
The TX internal, multi-tooth drive allows the screw to be driven easily and securely from setting to countersinking.

No tearing out
The drill bit relieves stress in the timber, thereby preventing cracks from forming.

No predrilling
Predrilling is not needed in most cases. We do, however, recommend always testing the application.

TCS FLAT HEAD SCREW

Ideal for outdoor screw connections such as solar equipment, car ports, balconies, jetties, playground equipment, prefabricated houses and all load-bearing components.
A reliable and visually attractive screw connection - The timber construction screw with reinforced flat head, cutting score and TX internal drive

Item no. 904720
Material: A2

ETA - 11/0283

FEATURES:

Partial thread
Flat head - timber construction screw
Flat head Ø 15 mm / Ø 20 mm
CUT tip
Special smooth coating
TX internal drive

FLAT HEAD WITH TX DRIVE

CUTTING SCORE

BENEFITS:

Secure
Up to 50% fewer screws are needed because the head pull-through values are considerably greater than those of a countersunk screw.

No tearing out
The cutting score in the thread chamfer relieves stress in the timber, thereby preventing cracks from forming.

Spec. smooth coating
Guarantees low screw-in torques, thus requiring less effort

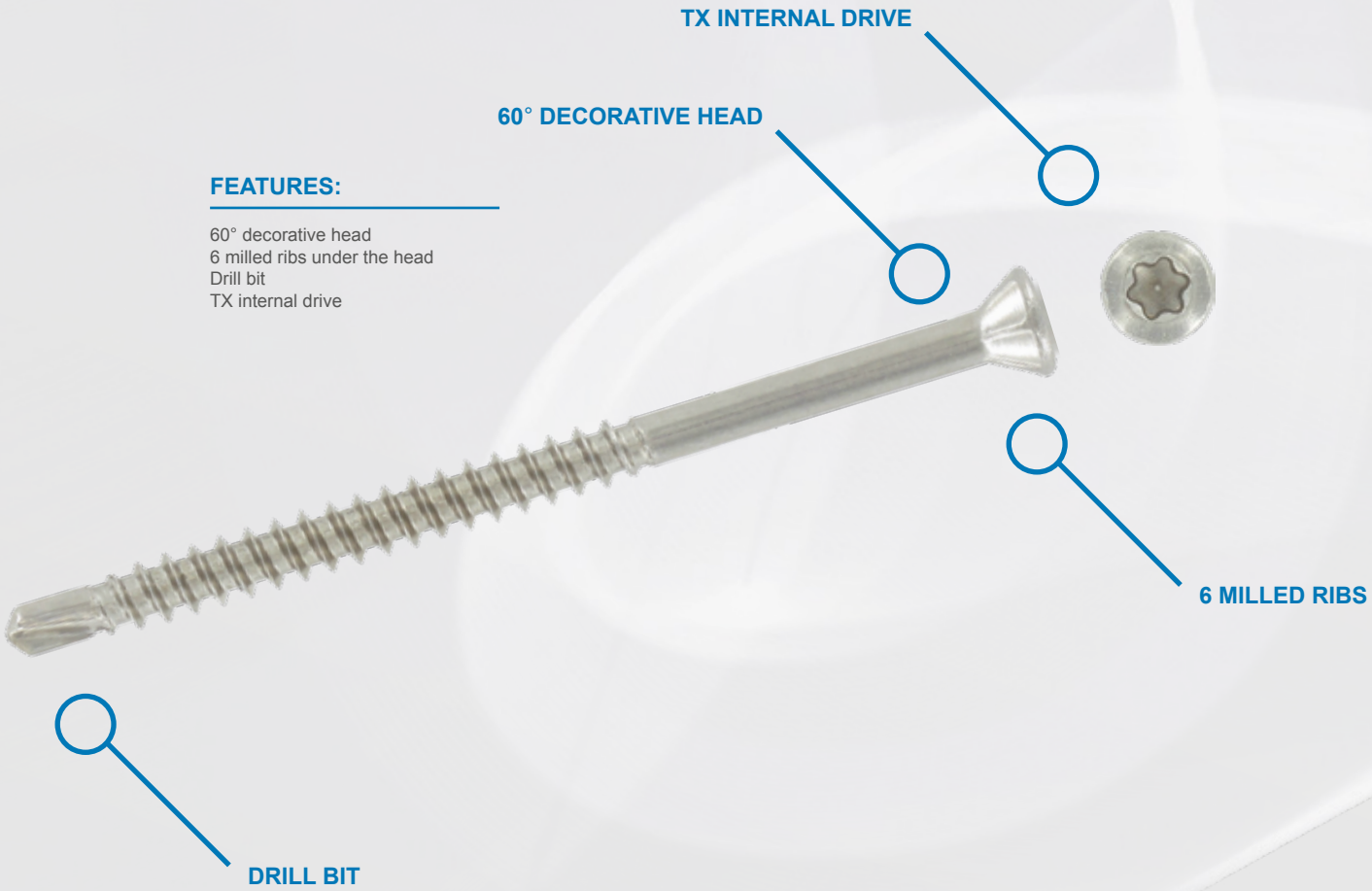
EXAMPLE OF USE

FLOORING SCREWS TX

Optimum diameter for flooring screw connections around the edges.
Attaching boarding and floor coverings.
For screw connections for decorative and connecting strips.

Item no. 904120
Material: A2

CE 13
EN 14592:2008



FEATURES:

60° decorative head
6 milled ribs under the head
Drill bit
TX internal drive

BENEFITS:

No predrilling
Predrilling is not needed even in most hardwoods. But given the many different properties of hardwoods we always recommend testing before use.

No tearing out
The drill bit relieves stress in the timber, thereby preventing cracks from forming.

Fantastic look
A very good look is ensured by the decorative head and milled ribs.

Wobble-free drive
The TX driving feature allows the screw to be driven easily and securely from setting to countersinking.

QUADRA-SPEED TX

Quadra-Speed timber construction screws with countersunk head and cutting score

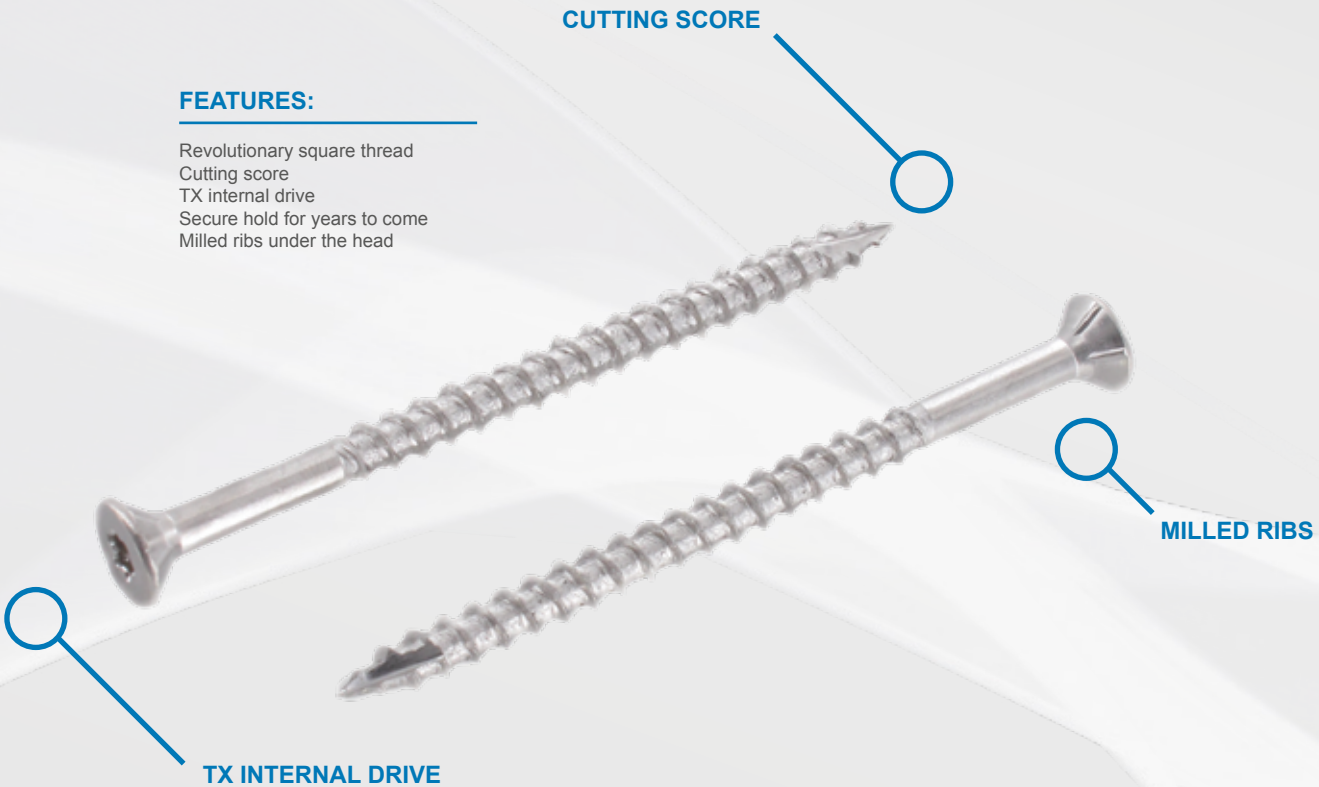
Ideal for all companies involved in wood processing (carpenters, timber construction, façade construction), in all areas in which professional woodworkers are employed.
For chipboard, MDF and solid wood corner joins, for screw connections with short edge distances.
Fastening fittings in the construction of wooden windows, cladding and balcony boards.

CE 13
EN 14592:2008

Item no. 9042
Material: A4

FEATURES:

Revolutionary square thread
Cutting score
TX internal drive
Secure hold for years to come
Milled ribs under the head



BENEFITS:

No predrilling
Predrilling is not needed in most cases. We do, however, recommend always testing the application.

No tearing out
The Cut tip ensures accurate attachment without tearing out.

No discolouring
The acid-resistant special-grade steel prevents the timber and screw heads from discolouring.

Rapid attachment
Optimum screw-in torques are achieved by the revolutionary square thread. Façades are therefore fastened reliably and at speed.

No corrosion of the screw
Stainless steel A4 prevents the screw being attacked by the wood bleeding (tannic acid).

Fantastic look
A very good look is ensured by the decorative head and milled ribs.

Wobble-free drive
The TX driving feature allows the screw to be driven easily and securely from setting to countersinking.

T-DRILL TX

Martensitic class C1 stainless steel **1.4006**

T-Drill, raised countersunk head terrace construction screws, cutting score

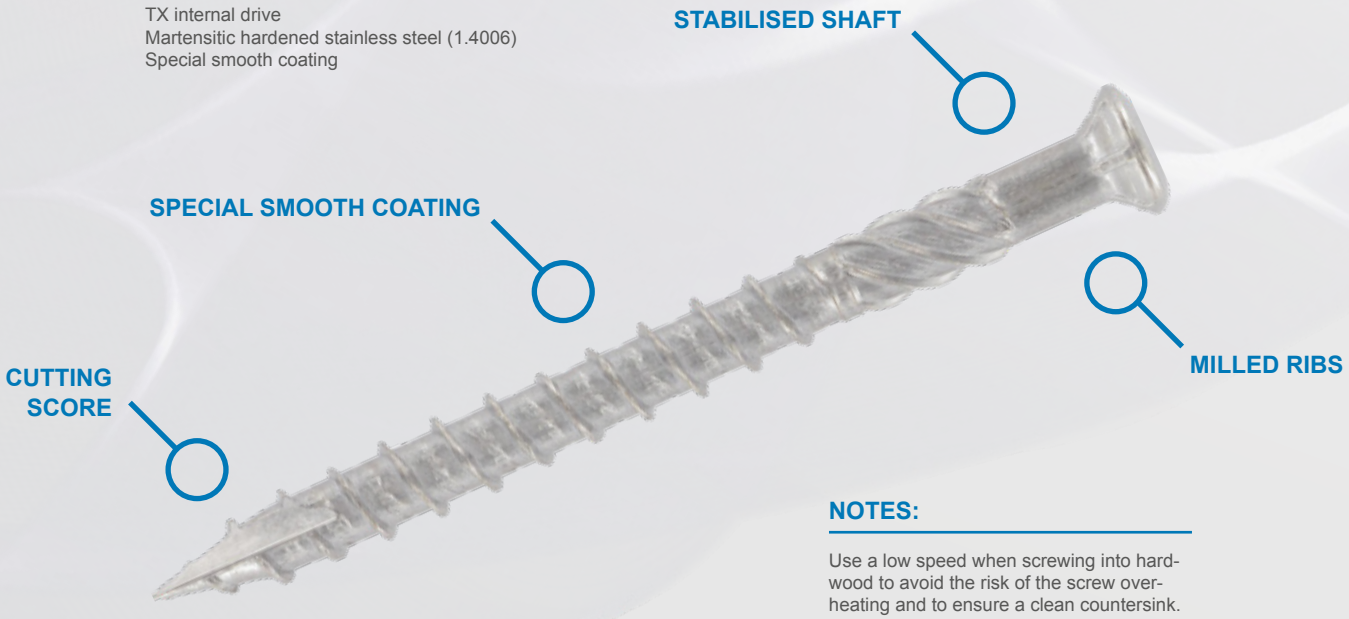
Ideal for all companies involved in wood processing (carpenters, timber construction) and all horticulturists and landscapers for fastening timbers and landing stages. Also the ideal solution for hardwoods such as Bangkirai, Massaranduba, and many more.

Item no. 9043
Material: 1.4006/C1

CE 13
EN 14592:2008

FEATURES:

Reinforced head
Stripping ribs
Stabilised shaft
New kind of threaded flank arrangement
Cutting score
Milled ribs under the head
TX internal drive
Martensitic hardened stainless steel (1.4006)
Special smooth coating



NOTES:

Use a low speed when screwing into hard-wood to avoid the risk of the screw over-heating and to ensure a clean countersink.

If working with problematic timbers, we recommend predrilling the component to be fastened (Ø of screw =Ø drill diameter).

BENEFITS:

Stripping ribs
The stripping ribs ensure low screw-in torques even with high attachment parts.

No predrilling
Predrilling is not needed in most cases. We do, however, recommend always testing the application.

No tearing out
The Cut tip ensures accurate attachment without tearing out, even on hardwood.

Wobble-free drive
The TX driving feature allows the screw to be driven easily and securely from setting to countersinking. New kind of threaded flanks. The screw that can feel

Great look
The milled ribs under the head ensure that the T-Drill timber construction screw is easily and cleanly countersunk.

SK-DRILL TX

SK-DRILL CSK head terrace screws, cutting point

Ideal for screw connections in terrace timbers on timber substructures, primarily in Scandinavia.

Item no. 9142
Material: A2/A4

CE 13
EN 14592:2008

FEATURES:

80° countersunk head
Milled ribs under the head
Cutting score
Coarse thread
Shortened thread

BENEFITS:

No tearing out
The cutting score in the thread chamfer relieves stress in the timber, thereby preventing cracks from forming.

No predrilling
Predrilling is not needed in most cases. We do, however, recommend always testing the application.

No discolouring
The acid-resistant special-grade steel prevents the timber and screw heads from discolouring.

Wobble-free drive
The TX internal, multi-tooth drive allows the screw to be driven easily and securely from setting to countersinking.

Great look
The four milled ribs under the head ensure that the SK-Drill is easily and cleanly countersunk.

TBS-DRILL COUNTERSUNK HEAD TX

The terrace construction screw with cutting score, small countersunk head and additional retaining thread under the head.

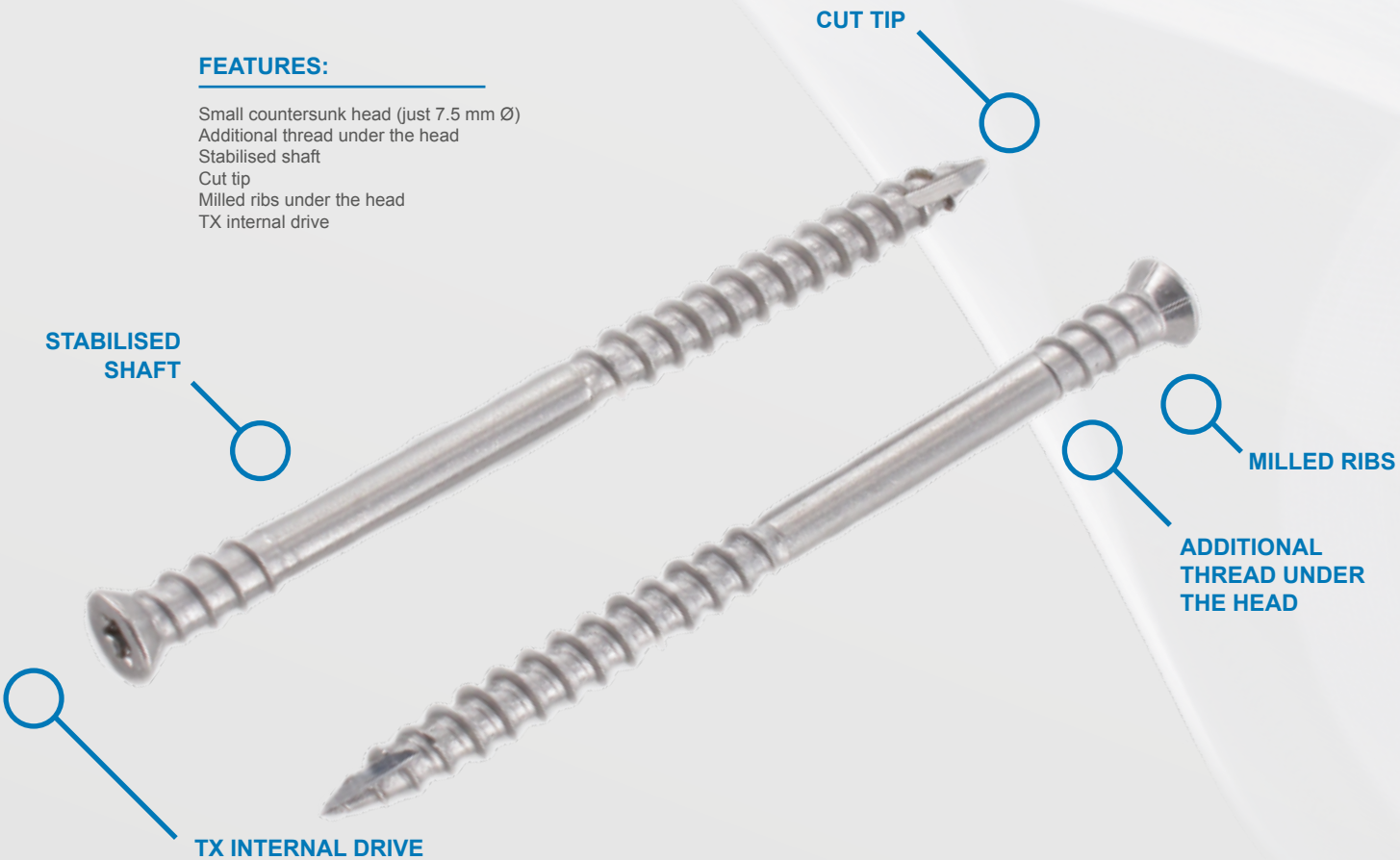
Ideal for all companies involved in wood processing (carpenters, timber construction) and all horticulturists and landscapers for fastening timbers and landing stages. Also the ideal solution for hardwoods such as Bangkirai, Massaranduba, and many more.

Item no. 9143
Material: A2

CE 13
EN 14592:2008

FEATURES:

Small countersunk head (just 7.5 mm Ø)
Additional thread under the head
Stabilised shaft
Cut tip
Milled ribs under the head
TX internal drive



BENEFITS:

No predrilling
Predrilling is not needed in most cases. We do, however, recommend always testing the application.

No tearing out
The Cut tip ensures accurate attachment without tearing out, even on hardwood.

Wobble-free drive
The TX internal, multi-tooth drive allows the screw to be driven easily and securely from setting to countersinking.

Great look
The additional retaining thread under the head and the milled ribs ensure that the TBS-Drill timber construction screw is easily and cleanly countersunk

DECORATIVE HEAD TIMBER CONSTRUCTION SCREWS

Martensitic class C1 stainless steel **1.4006**

Decorative head timber construction screws with drill bit and stripping ribs

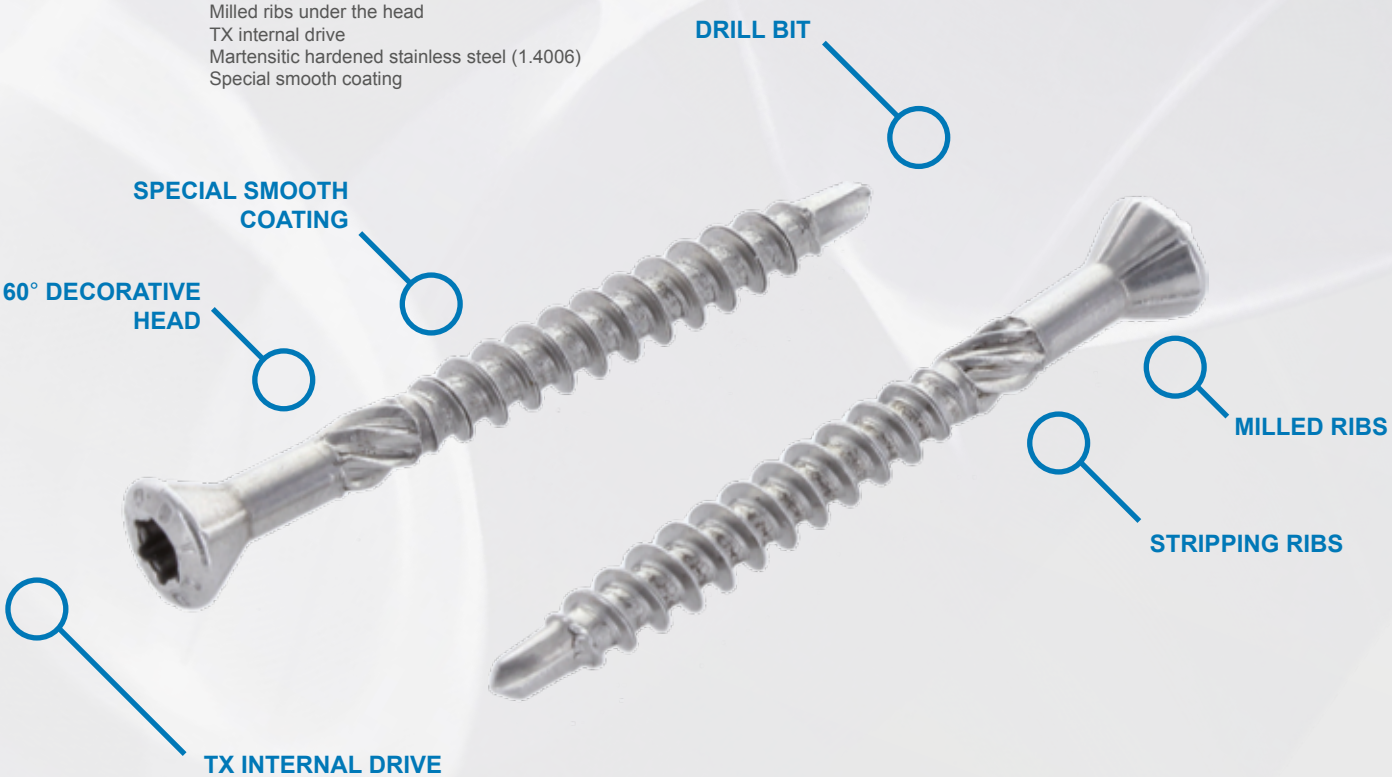
Ideal for all companies involved in wood processing (carpenters, timber construction) and all horticulturists and landscapers for fastening timbers and landing stages. Also the ideal solution for hardwoods such as Bangkirai, Massaranduba, and many more.

ETA - 11/0283

Item no. 9241
Material: 1.4006/C1

FEATURES:

60° decorative head
Drill bit
Stripping ribs
Milled ribs under the head
TX internal drive
Martensitic hardened stainless steel (1.4006)
Special smooth coating



BENEFITS:

Stripping ribs
The stripping ribs ensure low screw-in torques even with high attachment parts.

No predrilling
Predrilling is not needed in most cases. We do, however, recommend always testing the application.

Wobble-free drive
The TX driving feature allows the screw to be driven easily and securely from setting to countersinking.

DECORATIVE HEAD TIMBER CONSTRUCTION SCREWS

Martensitic class C1 stainless steel **1.4006**

Decorative head timber construction screws with cutting score and stripping ribs

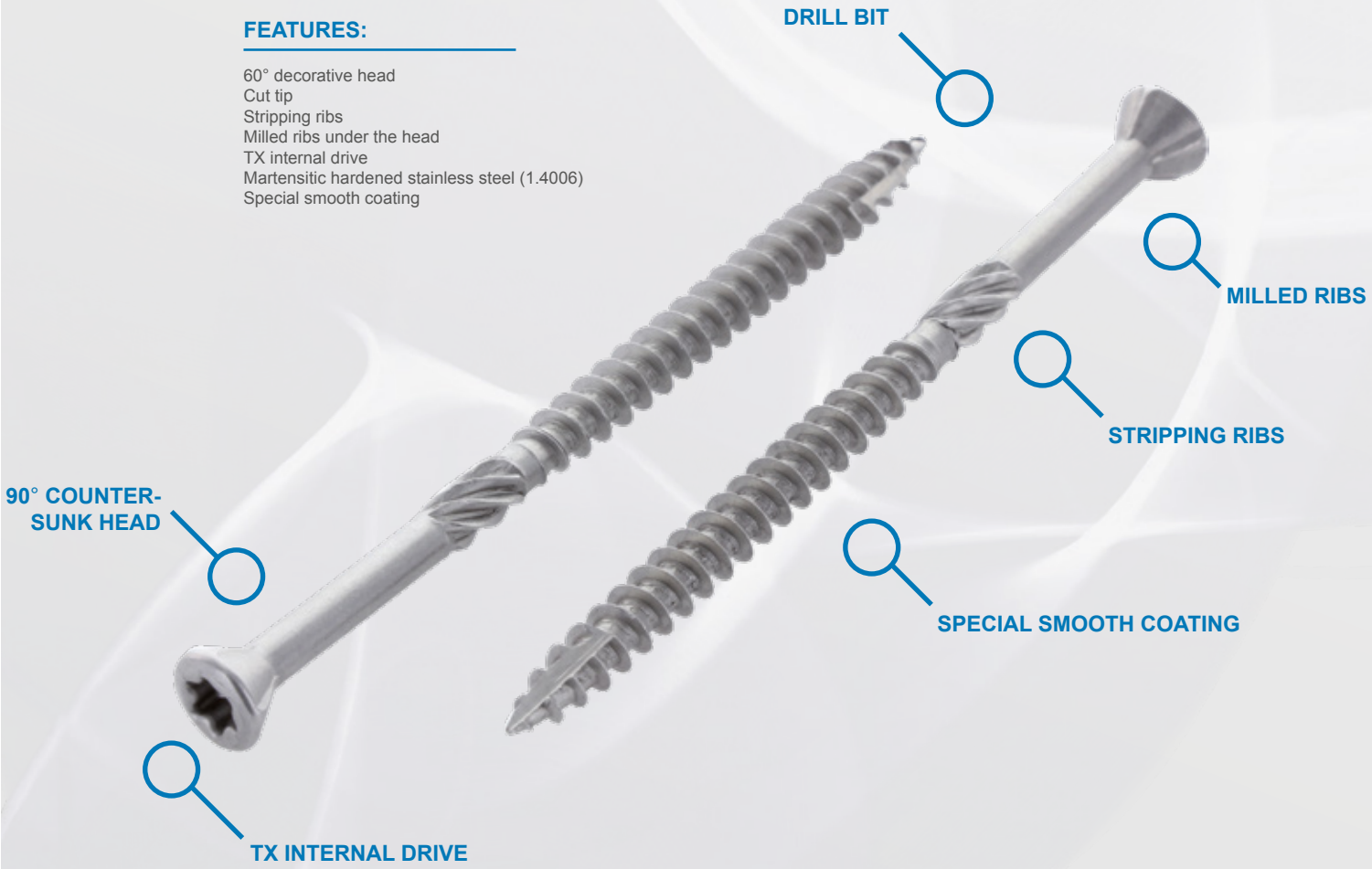
Ideal for all companies involved in wood processing (carpenters, timber construction) and all horticulturists and landscapers for fastening timbers and landing stages. Also the ideal solution for hardwoods such as Bangkirai, Massaranduba, and many more.

ETA - 11/0283

Item no. 9242
Material: 1.4006/C1

FEATURES:

60° decorative head
Cut tip
Stripping ribs
Milled ribs under the head
TX internal drive
Martensitic hardened stainless steel (1.4006)
Special smooth coating



BENEFITS:

Stripping ribs
The stripping ribs ensure low screw-in torques even with high attachment parts.

No predrilling
Predrilling is not needed in most cases. We do, however, recommend always testing the application.

Wobble-free drive
The TX driving feature allows the screw to be driven easily and securely from setting to countersinking.

No tearing out
The Cut tip ensures accurate attachment on hardwood without tearing out.

TBS-DRILL CYLINDER HEAD X

TBS-Drill, terrace construction screws, cyl. head with thread under the head

Ideal for all companies involved in wood processing (carpenters, timber construction) and all horticulturists and landscapers for fastening timbers and landing stages. Also the ideal solution for hardwoods such as Bangkirai, Massaranduba, and many more.

Item no. 9243
Material: A4

CE 13
EN 14592:2008

FEATURES:

Cylinder head
Thread under the head
Standard tip
TX internal drive
Special smooth coating

BENEFITS:

Wobble-free drive
The TX driving feature allows the screw to be driven easily and securely from setting to countersinking.

Cylinder head
The timber fibres are pulled into the material by the cylinder head with small countersunk head. This produces an optimum surface for bare feet.

Thread under the head
This terrace construction screw fixes the timber using the thread under the head and thereby prevents any movement.

SP-DRILL TX

Martensitic class C1 stainless steel **1.4006**

CSK head timber screws, drilling-point

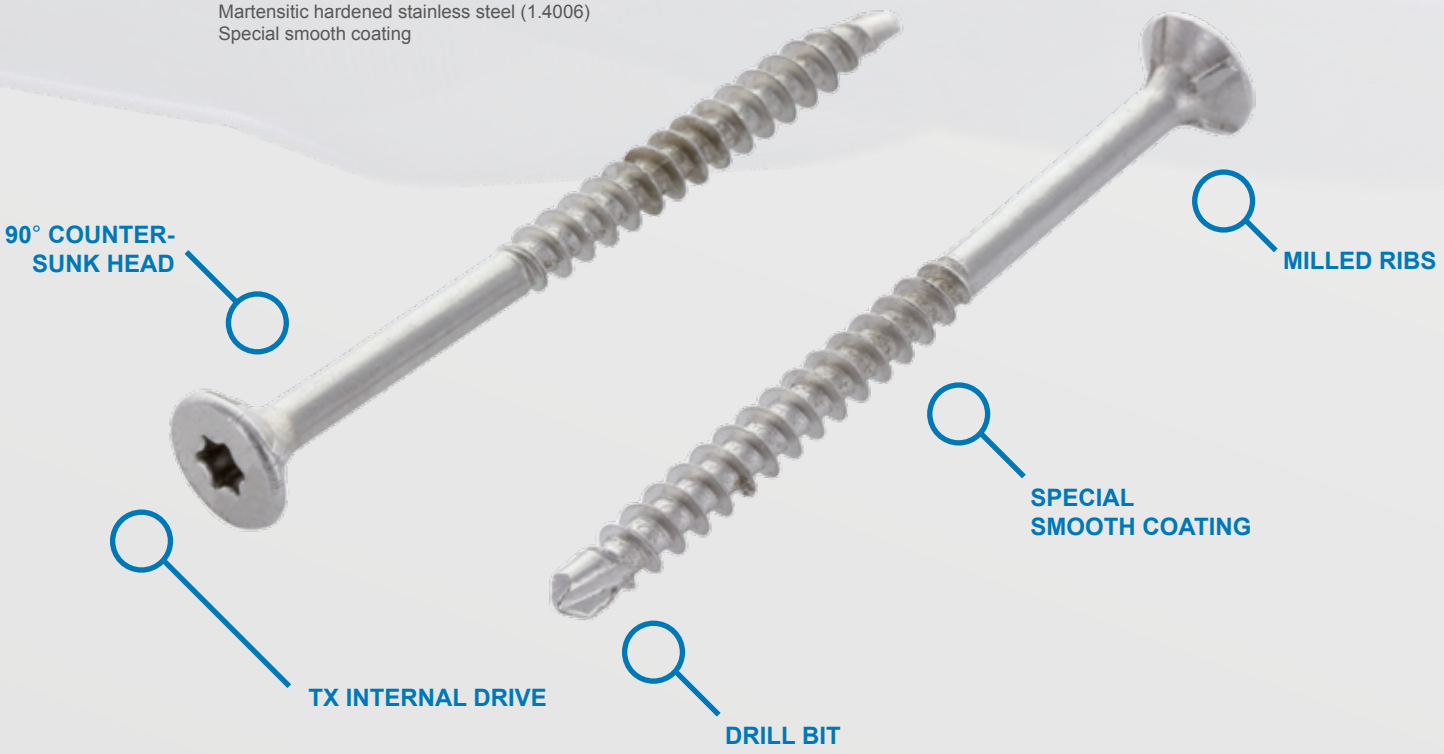
Ideal for all companies involved in wood processing (carpenters, timber construction) and all horticulturists and landscapers for connecting timber constructions. Also ideally suited to façade construction, e.g. for wall coverings and cladding.

ETA - 11/0283

Item no. 9244
Material: 1.4006/C1

FEATURES:

90° countersunk head
Drill bit
Milled ribs under the head
TX internal drive
Martensitic hardened stainless steel (1.4006)
Special smooth coating



BENEFITS:

No predrilling
Predrilling is not needed in most cases. We do, however, recommend always testing the application.

Wobble-free drive
The TX driving feature allows the screw to be driven easily and securely from setting to countersinking.

TBS-DRILL TX

Martensitic class C1 stainless steel **1.4006**

TBS - Drill, terrace construction screw with cylinder head and cutting score

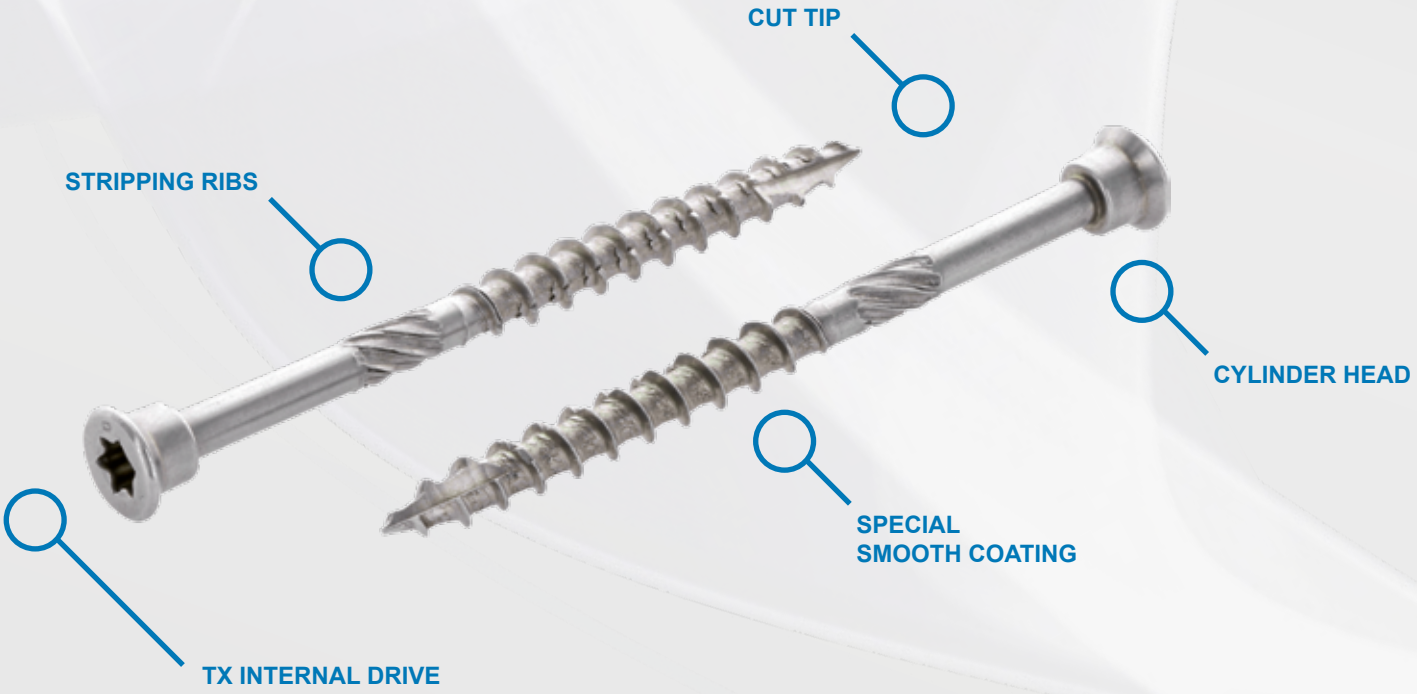
Ideal for all companies involved in wood processing (carpenters, timber construction) and all horticulturists and landscapers for fastening timbers and landing stages. Also the ideal solution for hardwoods such as Bangkirai, Massaranduba, and many more.

Item no. 9245
Material: 1.4006/C1

CE 13
EN 14592:2008

FEATURES:

Cylinder head
Stripping ribs
Cut tip
TX internal drive
Martensitic hardened stainless steel (1.4006)
Special smooth coating



BENEFITS:

Stripping ribs
The stripping ribs ensure low screw-in torques even with high attachment parts.

No predrilling
Predrilling is not needed in most cases. We do, however, recommend always testing the application.

No tearing out
The Cut tip ensures accurate attachment without tearing out, even on hardwood.

Wobble-free drive
The TX driving feature allows the screw to be driven easily and securely from setting to countersinking.

Cylinder head
The timber fibres are pulled into the material by the cylinder head with small countersunk head. This produces an optimum surface for bare feet.

OUR APPROVALS GIVE YOU **PEACE OF MIND**

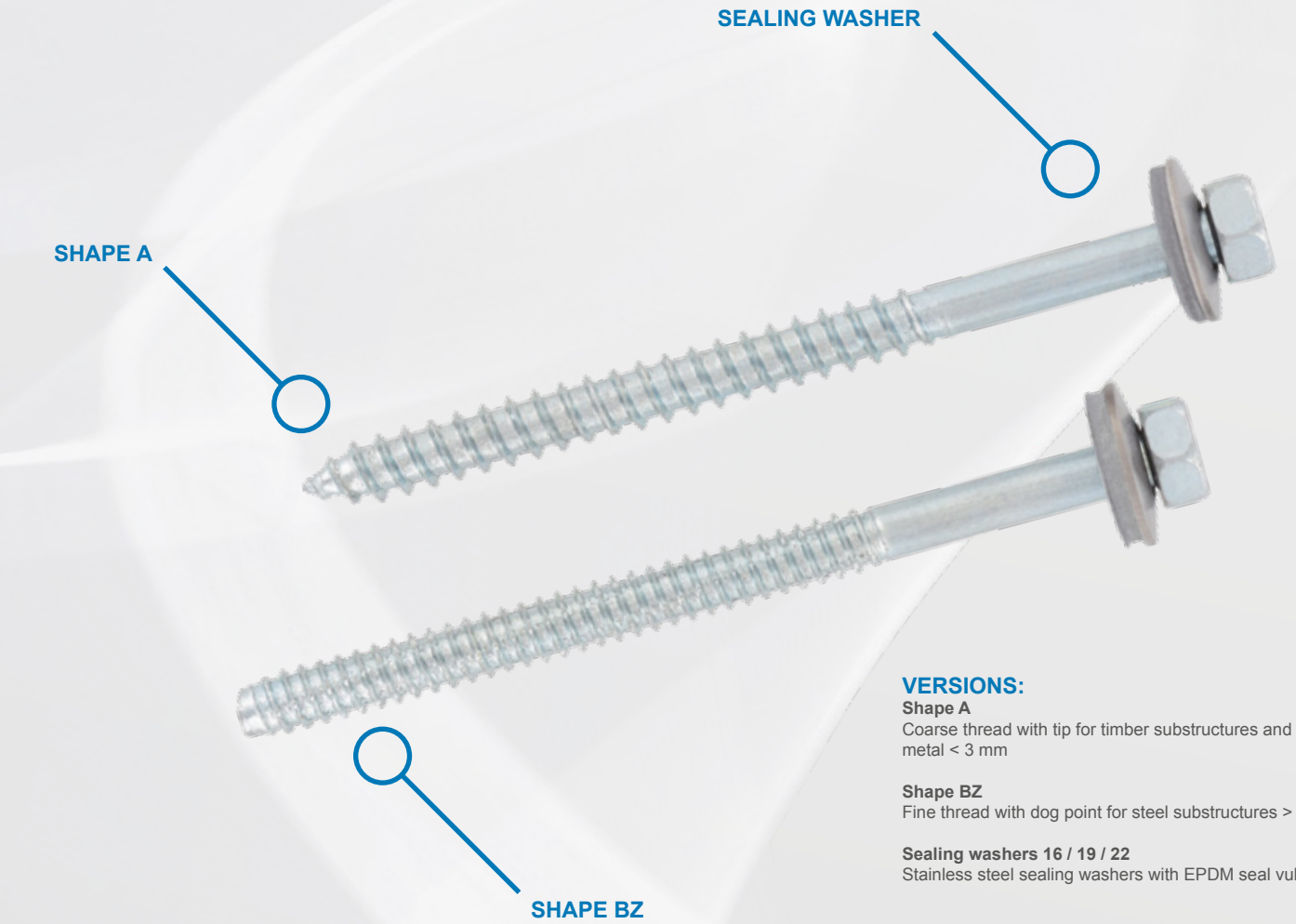
FAÇADE CONSTRUCTION SCREW

For securing profile sheets and fibre cement slabs to timber, steel and aluminium substructures

Shape A (with tip) / Shape BZ (with dog point)

Item no. 9057 (Ø 16 mm sealing washer)
Item no. 9059 (Ø 19 mm sealing washer)
Item no. 9098 (Ø 22 mm sealing washer)
Material: A2

ETA - 12/0086
ETA - 13/0178



VERSIONS:

Shape A
Coarse thread with tip for timber substructures and thin sheet metal < 3 mm

Shape BZ
Fine thread with dog point for steel substructures > 3 mm

Sealing washers 16 / 19 / 22
Stainless steel sealing washers with EPDM seal vulcanised on

BENEFITS:

European technical approval ETA 12/0086
Fastener for connecting components in lightweight metal construction

European technical approval ETA 13/0178
Thread-cutting screws for connecting sandwich elements to timber or steel substructures

DIN 931 / DIN 933 / DIN 934

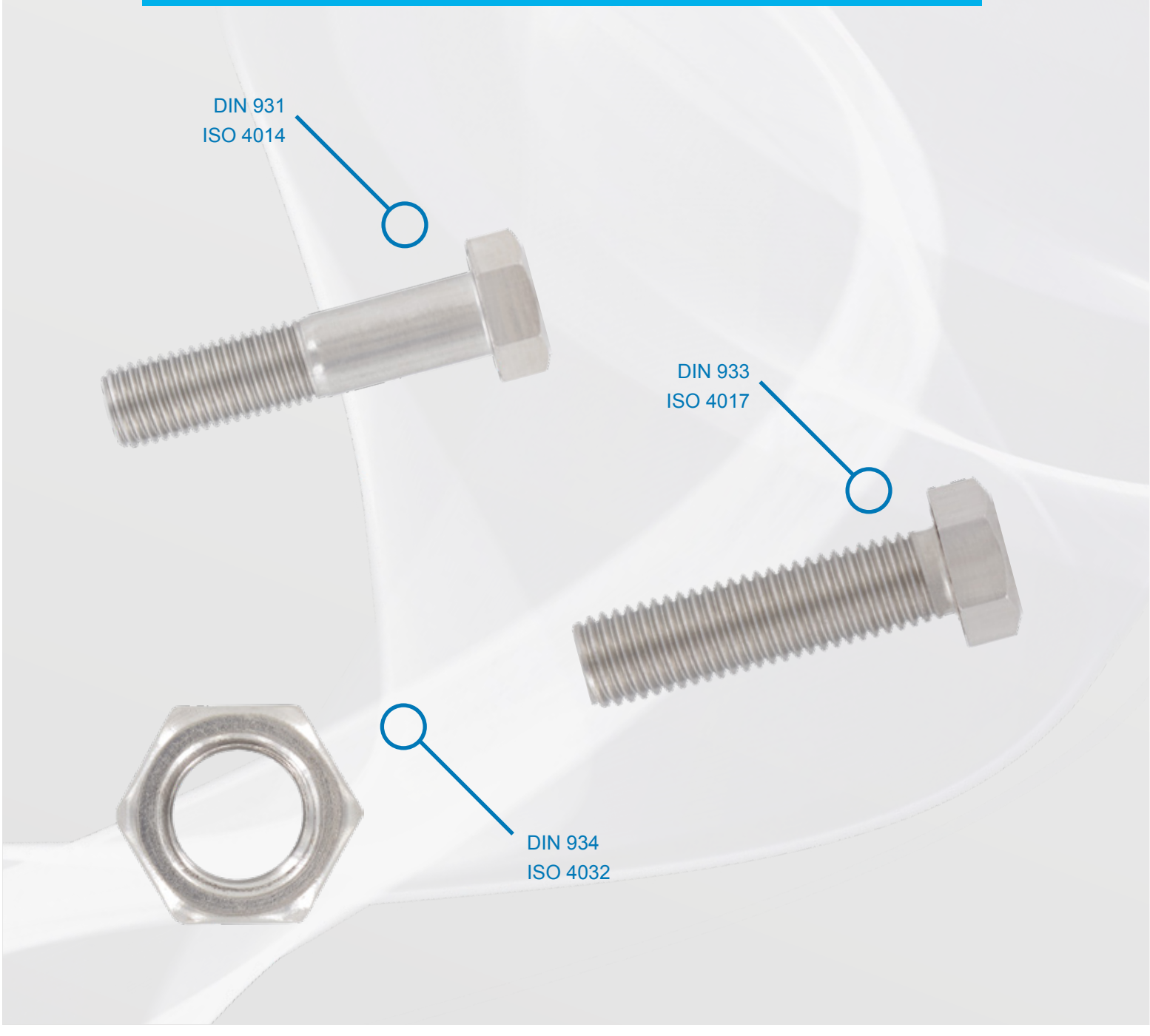
ISO 4014 / ISO 4017 / ISO 4032

The classic nuts and bolts for steel and metal construction.
Usable anywhere. Also available with ADW certification

Item no. 0931	ISO 4014
Item no. 0933	ISO 4017
Item no. 0934	ISO 4032

Material: A2/A4/special material

Schäfer + Peters GmbH
74613 Öhringen
Z - 30.3 - 6
VERSUCHSANSTALT



BI-METAL SELF-DRILLING SCREWS

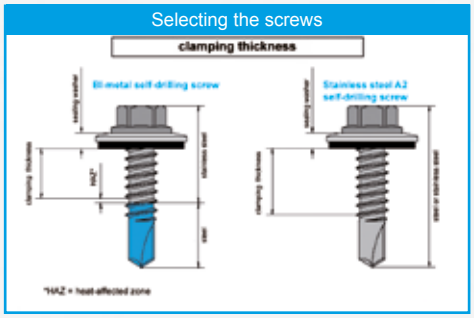
For screw connection of steel profile sheets to steel substructures, and aluminium profile sheets and sandwich elements to aluminium or steel substructures

For connecting profile sheets and
sandwich elements in lightweight construction

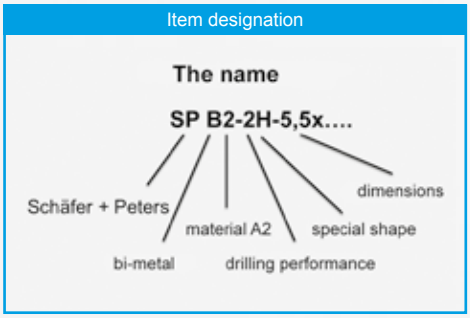
Item no. 9504 / 9604
Material: A2/A4

ETA - 12/0086
ETA - 13/0178

Selecting the screws



Item designation



INDIVIDUAL PRODUCT DESCRIPTIONS ON PAGES 30 - 33

BI-METAL SELF-DRILLING SCREWS

- SP-B2-2-6.0
- SP-B2-2H-5.5
- SP-B2-2-4.8
- SP-B2-2-6.3
- SP-B2-3-5.5
- SP-B2-6-5.5
- SP-B2-6-6.3
- SP-A2-6-5.5

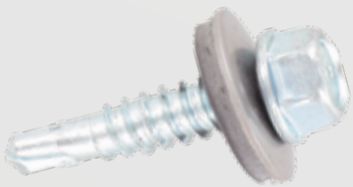
ETA - 12/0086

ETA - 13/0178

BI-METAL SELF-DRILLING SCREW SP-B2-2-6,3

With reduced drill bit for steel plate connections

USE:
With reduced drill bit for steel plate connections
PROPERTIES:
Bi-metal - stainless steel A2 with hardened drill bit
Stainless steel sealing washer with EPDM seal vulcanised on
Captive sealing washer
Drilling performance:
Component I - 0.63 mm - 2.0 mm
Component II - steel substructure 0.63 mm - 2.0 mm



BI-METAL SELF-DRILLING SCREW SP-B2-2H-5.5

For longitudinal joint screw connections on steel or aluminium profile sheets

USE:
For longitudinal joint screw connections on steel or aluminium profile sheets
PROPERTIES:
Bi-metal - stainless steel A2 with hardened drill bit
With undercut beneath the screw head for longitudinal joint screw connections
Stainless steel sealing washer with EPDM seal vulcanised on
Captive sealing washer
Drilling performance TI + TII ….1.25 mm + 1.25 mm

STAINLESS STEEL A2 - SELF-DRILLING SCREW SP-A2-6-5.5

For screw connection of aluminium profiles on aluminium substructures

USE:
For aluminium profile screw connections on aluminium substructures ≤ 4mm
PROPERTIES:
Stainless steel A2
Stainless steel sealing washer with EPDM seal vulcanised on Captive sealing washer
Drilling performance TI + TII ….2.0 mm + 4.0 mm

BI-METAL SELF-DRILLING SCREW SP-B2-2-6.0

For profile sheets, with and without intermediate insulation, on thin-walled steel, aluminium and timber substructures

USE:
For profile sheets, with and without intermediate insulation, on thin-walled steel, aluminium and timber substructures
PROPERTIES:
Bi-metal - stainless steel A2 with hardened drill bit
Stainless steel sealing washer with EPDM seal vulcanised on Captive sealing washer
Drilling performance TI + TII ….1.0 mm + 1.0 mm

BI-METAL SELF-DRILLING SCREW SP-B2-3-5.5

For screw connection of steel profile sheets on steel substructures

USE:
For steel profile sheet screw connections on steel substructures, and aluminium profile sheets on aluminium or steel substructures
PROPERTIES:
Bi-metal - stainless steel A2 with hardened drill bit
Stainless steel sealing washer with EPDM seal vulcanised on Captive sealing washer
Drilling performance TI + TII ….1.0 mm + 2.5 mm

BI-METAL SELF-DRILLING SCREWS

- SP-B2-2-6.0
- SP-B2-2H-5.5
- SP-B2-2-4.8
- SP-B2-2-6.3
- SP-B2-3-5.5
- SP-B2-6-5.5
- SP-B2-6-6.3
- SP-B2-12-5.5
- SP-A2-6-5.5

ETA - 12/0086

ETA - 13/0178

BI-METAL SELF-DRILLING SCREW SP-B2-6-6.3

For screw connection of aluminium or steel profile sheets on steel substructures

USE:
For steel profile sheet screw connections on steel substructures 2.0 mm - 5.0 mm and aluminium profile sheets on aluminium or steel substructures 2.0 mm - 5.0 mm

PROPERTIES:
Bi-metal - stainless steel A2 / A4 with hardened drill bit
Stainless steel sealing washer with EPDM seal vulcanised on
Captive sealing washer
Drilling performance TI + TII ….1.0 + 5.0

BI-METAL SELF-DRILLING SCREW SP-B2-2-4.8

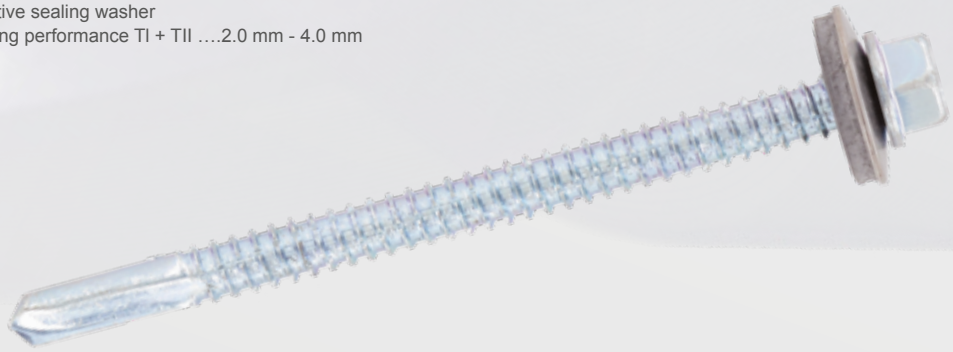
With reduced drill bit for steel plate connections

USE:
With reduced drill bit for steel plate connections
PROPERTIES:
Bi-metal - stainless steel A2 with hardened drill bit
Stainless steel sealing washer with EPDM seal vulcanised on
Captive sealing washer
Drilling performance:
Component I - 0.63 mm - 2.0 mm
Component II - steel substructure 0.63 mm - 1.5 mm

BI-METAL SELF-DRILLING SCREW SP-B2-6-5.5

For screw connection of aluminium or steel profile sheets on steel substructures

USE:
For screw connection of steel profile sheets on steel substructures and aluminium profile sheets and sandwich elements on aluminium or steel substructures
PROPERTIES:
Bi-metal - stainless steel A2 with hardened drill bit
Stainless steel sealing washer with EPDM seal vulcanised on
Captive sealing washer
Drilling performance TI + TII ….2.0 mm - 4.0 mm



BI-METAL SELF-DRILLING SCREW SP-B2-12-5.5

For screw connection of aluminium or steel profile sheets on steel substructures

USE:
For screw connection of steel profile sheets on steel substructures 4.0 mm - 12.0 mm
and aluminium profile sheets and sandwich elements on aluminium or steel substructures 4.0 mm - 12.0 mm
PROPERTIES:
Bi-metal - stainless steel A2 with hardened drill bit
Stainless steel sealing washer with EPDM seal vulcanised on
Captive sealing washer
Drilling performance TI + TII ….2.0 mm + 10.0 mm

WEDGE ANCHORS BOZ

Ideal for outdoor screw connection of consoles, railings, shelves, façades, raceways, steel girders and window grilles.

For cracked and non-cracked concrete

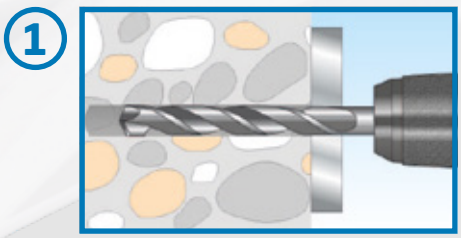
Item no. 9004
Material: A4

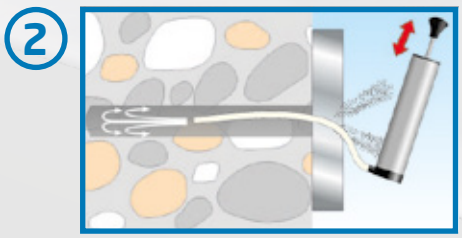
Feuerwider-
standsklasse
-geprüft-

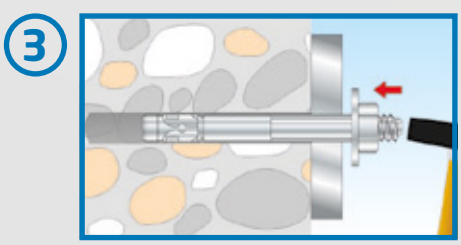
ETA - 11/0196
Option 1

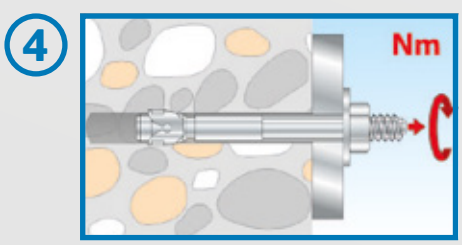
BENEFITS:

- Variable clamping ranges
- Maximum load bearing capacity at extremely low centre and edge distances
- Can be loaded immediately
- Time-saving push-through assembly









CONCRETE BOLT BS

Ideal for outdoor screw connections such as substructures, construction of railings, bridges, fences, signs, cabinets and solar systems.

For cracked and non-cracked concrete
Carbide-tipped, available in hex, countersunk head and anchor bolt versions

Item no. 9001
Material: A4

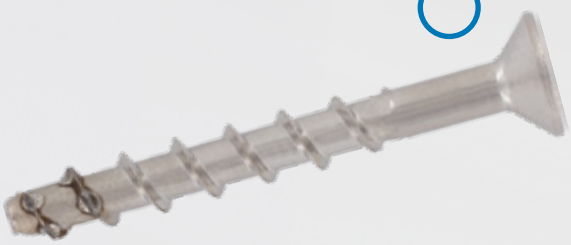
Brandschutz-geprüft

Europäische Technische Zulassung - Option 1 für gerissenen Beton

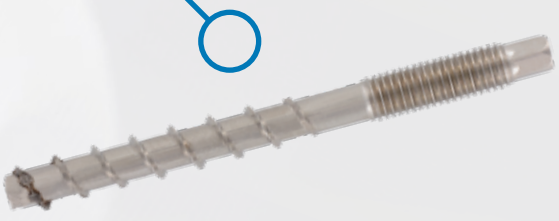
ETA - 06/0124

CONCRETE BOLT, HEX HEAD
Good looking and offers all the familiar spanner sizes

CONCRETE BOLT, COUNTERSUNK HEAD
Can be cleanly countersunk flush with the material



CONCRETE BOLT, ANCHOR BOLT
Ideal for processing due to M12 metric connection thread



FEATURES:

Tested for fire protection
Hex drive / TX drive
Stainless steel A4 / carbide-tipped

BENEFITS:

Excellent workmanship
Optimum thread geometry guarantees low screw-in torques and less force is therefore needed.

Cuts the thread into the concrete - No need for dowels

Low centre to centre and edge clearances

Low cost
Thanks to direct fitting, working times are cut by up to half.

HANGER BOLTS

To secure photovoltaic and solar systems to timber substructures
Different versions and final setups

Item no. 9082
Material: A2

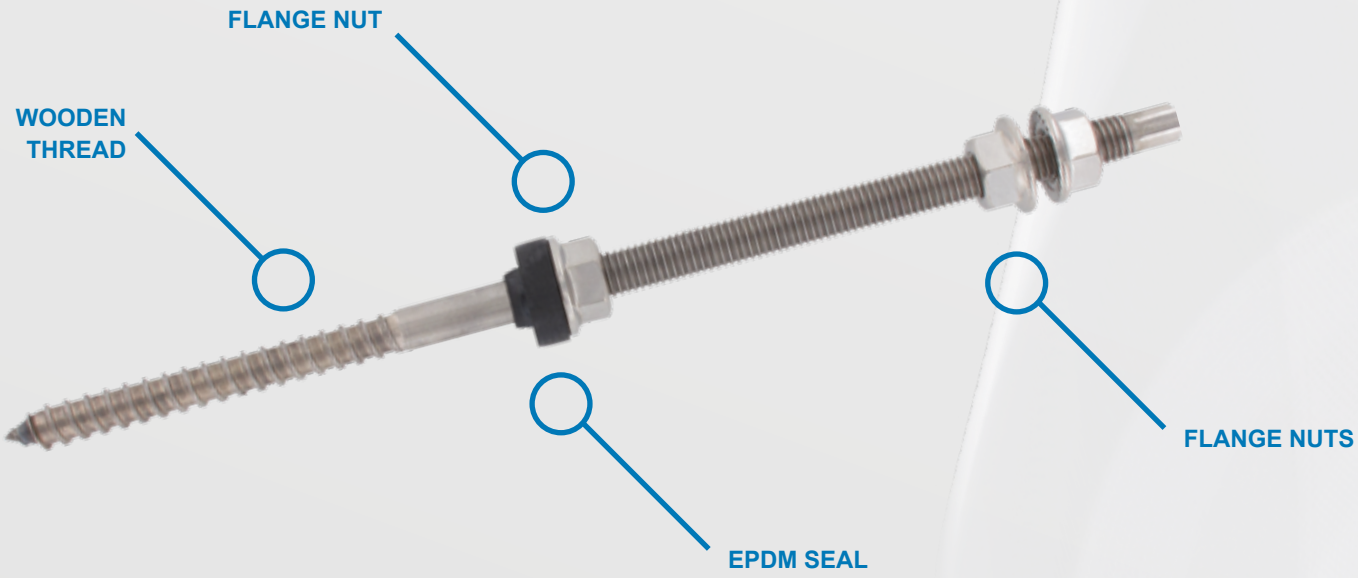
Schäfer + Peters GmbH
74613 Öhringen

Z - 14.4 - 602

VERSUCHSANSTALT FÜR STAHL, HOLZ & STEINE

HANGER BOLTS WITH FLANGE NUTS & EPDM SEAL

With hex drive WAF 7 (M10) and hex drive WAF 9 (M12),
Completely assembled with DIN 6923, EPDM seal
Material: Stainless steel A2

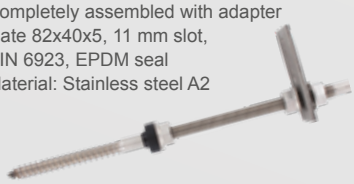


HANGER BOLTS WITH FLANGE NUTS & EPDM SEAL & WASHERS

With hex drive WAF 7 (M10) and hex drive WAF 9 (M12),
Completely assembled with DIN 125, DIN 9021 (M10),
DIN 934, EPDM seal
Material: Stainless steel A2

HANGER BOLTS WITH NUTS & EPDM SEAL & ADAPTER PLATE

With hex drive WAF 7 (M10) and hex drive WAF 9 (M12),
Completely assembled with adapter plate 82x40x5, 11 mm slot,
DIN 6923, EPDM seal
Material: Stainless steel A2



HANGER BOLTS WITH HEXAGON HEAD

With hex drive WAF 7 (M10) and hex drive WAF 9 (M12)
Material: Stainless steel A2

SOLAR FASTENER TYPE A

For timber substructures

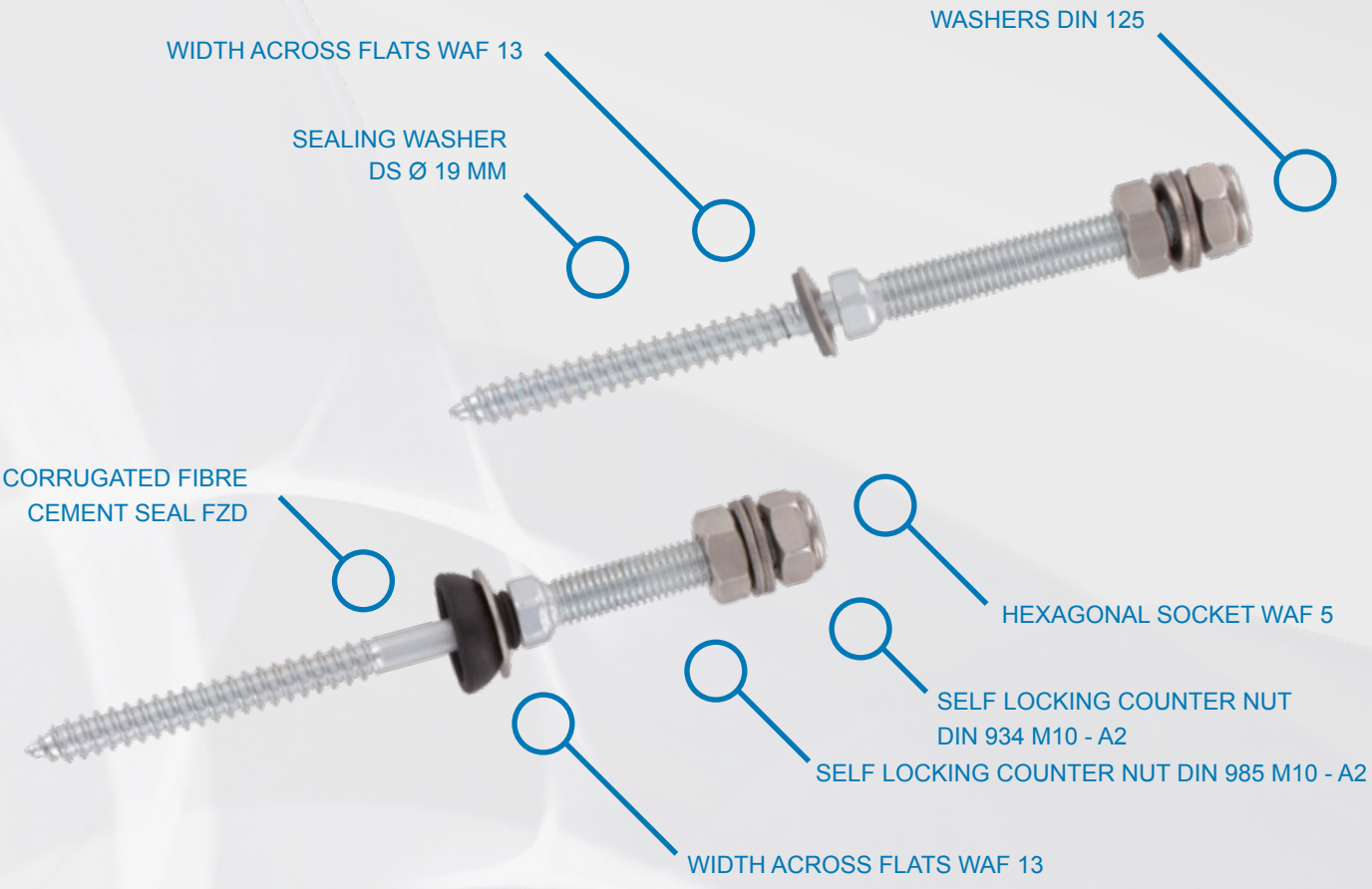
Type: Shape A (with tip)
Material: Stainless steel A2
Drive: Hexagonal socket
Surface: special anti-friction coating
Use: to secure photovoltaic and solar systems

Item no. 9182...84
Material: A2

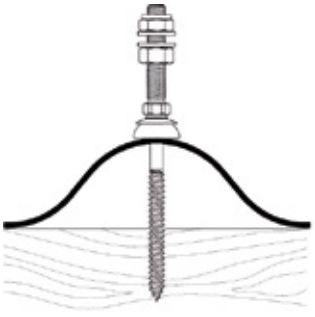
Schäfer + Peters GmbH
74613 Öhringen

Z - 14.4 - 638

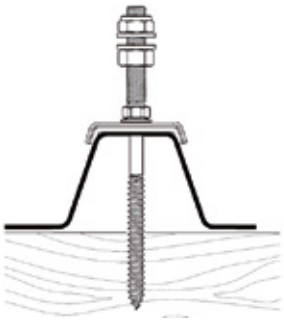
VERSUCHSANSTALT



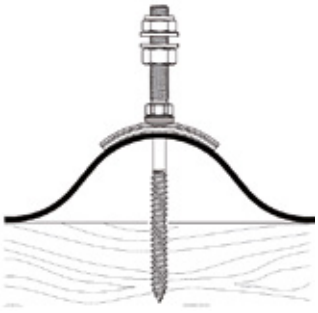
Corrugated fibre cement



Trapeze profile and sandwich element



Corrugated profile and sandwich element



SOLAR FASTENER TYPE BZ

For steel substructures

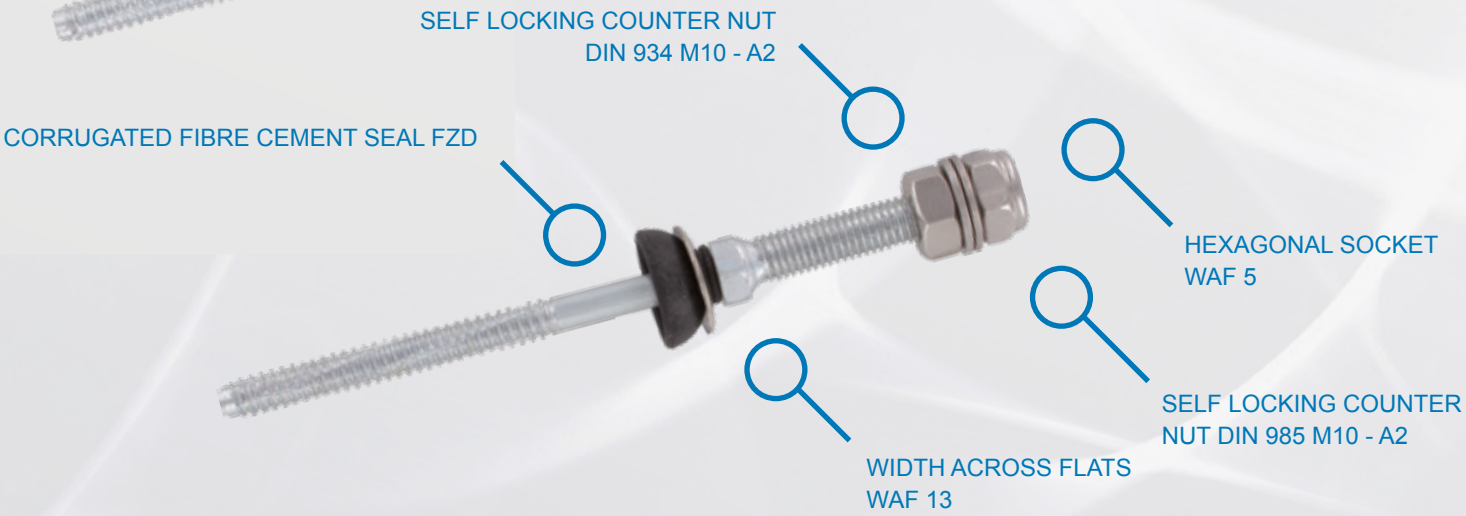
Type: Shape BZ (with dog point)
Material: Stainless steel A2
Drive: Hexagonal socket
Surface: special anti-friction coating
Use: to secure photovoltaic and solar systems

Item no. 9182...80
Material: A2

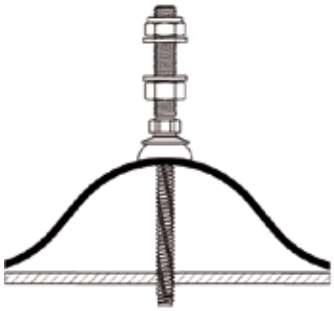
Schäfer + Peters GmbH
74613 Öhringen

Z - 14.4 - 638

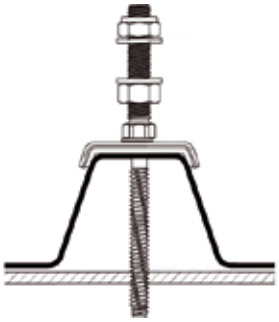
VERSUCHSANSTALT



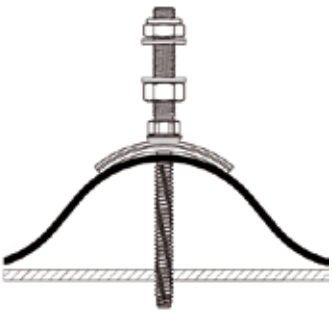
Corrugated fibre cement



Trapeze profile and sandwich element



Corrugated profile and sandwich element



UNIVERSAL BRACKETS FOR METAL SHEET ROOFS

For various trapezoidal sheets with and without intermediate insulation.
Perfect for use with thin tapping screw.

Area of use: Solar

Item no. 9032
Material: A2

Schäfer + Peters GmbH
74613 Öhringen

Z - 14.4 - 706

VERSUCHSANSTALT
FÜR STAHL, HOLZ & STEINE

FEATURES:

Variable for all sizes of trapezoidal sheets
Fixed by self-adhesive strips
Adjustable height

BENEFITS:

Optimum seal integrity
thanks to self-adhesive strips on connection sheets

Just 4 points of attachment using bi-metal self-drilling screws for thin-walled sheets

DIN 603 - M8x25 just 1 tool needed

DIN 6923
Flange nut with locking teeth

The perfect fit for any trapezoidal sheet shape

We set standards in quality, scope of delivery and service

- A trusted and innovative partner since 1982.
- With over 30 000 high-quality fastening products, we are a market leader in stainless steel fasteners.
- Constant product range expansion – in response to market developments and customer requirements.
- We set new standards in the areas of quality management and state of the art logistics.
- Our motivation, warehouse capacity and an experienced team are at your service.
- Fast delivery is a matter of course with us.
- Our company is DIN EN ISO 9001: 2008 certified.
- We combine quality and service – for connections that are made to last.

44
44
43
45
46

General terms of supply and payment for Schäfer + Peters GmbH

(hereinafter also named „S+P“, Öhringen, Version dated September 2011

I. Scope of application

1. The following sales terms and conditions apply to all the contracts concluded between the purchaser and S + P for the supply of goods, insofar as the purchaser is a company, a legal entity under public law or a special fund under public law. Orders will be fulfilled on the basis of the following terms and conditions only. The offer, the acceptance of the offer, the order confirmation and the sale of any products are subject to the present conditions. We do not recognise any contrary or different terms of the purchaser, unless we have accepted explicitly that they are valid. The following terms and conditions also apply if we carry out the order without reservation in the awareness of the purchaser's contrary or different terms.
2. All the agreements between the purchaser and S + P regarding performance of the purchase contracts up to the point when the contract in question was concluded have been recorded in writing in the contracts. This does not affect the effectiveness of any agreements concluded separately.
3. Where S + P and the purchaser have concluded a framework agreement, these General Terms and Conditions shall apply to this framework agreement and to the individual supply or purchase contract.
4. The General Terms and Conditions shall also apply to all future business dealings even if they are not explicitly agreed again.

II. Offer and conclusion of contract

1. We can choose to accept an order from the purchaser which qualifies as a legally binding offer to conclude a purchase contract within two weeks, either by sending confirmation of the order or by providing the services or goods ordered without reservation.
2. Our offers are subject to change without notice and non-binding, unless we have explicitly designated them as binding. Information about our goods (including, but not limited to data, dimensions, performance and consumption data and the descriptions in the product information sheets or advertising material etc) are only approximate; they are not a guarantee of quality, unless the guarantee has been given explicitly and in writing.
3. We retain title, copyright and other proprietary rights to all illustrations, calculations, drawings and other documents. The purchaser may only pass these on to third parties with our written permission, irrespective of whether we have designated them as confidential.

III. Payment conditions

1. Our prices are ex works Öhringen, and do not include packaging, duty, insurance and any other fees applying in individual cases, if not specified otherwise. Statutory VAT is not included in our prices. We will state the statutory amount separately on the invoice on the day the invoice is issued.
2. If not otherwise agreed, invoices shall be due for payment with no discount within 30 days of the date of the invoice and delivery. Payments within 10 days of the invoice date shall attract a discount of 2% unless the purchaser is in default of other payments to us. A payment shall not be considered complete until the amount is available to us. Payments by cheque shall not be considered complete until the cheque has been honoured.
3. If the purchaser does not pay within the specified period, he or she will be in default without a further demand for payment having been issued. Should the purchaser be in default of payment, the statutory late payment interest rate for companies shall be applied to the purchase price. Rights shall be reserved to make further claims. If the purchaser fails to make payment following another demand, we shall be entitled to accelerate immediately all the purchaser's debts, including, but not limited to, deferred payments or payments to be made in instalments, and to refuse to supply any more goods.
4. The purchaser shall only be authorised to offset payments and/or retain the goods if the counterclaims are derived from the same contractual relationship. If the delivery is based on an outline agreement or other long-term contractual relationship, the possibility to offset payments applies only to debts from the actual legal relationship from which the principle claim and counterclaim result. If the counterclaim is not based on the same contractual relationship, the purchaser can only offset the payment if the counterclaims have been legally established, are acknowledged by us or are uncontested.
5. If S + P have permitted the purchaser to pay by instalments, the total amount remaining will be due for payment if the buyer delays payment of one instalment for longer than 8 days.
6. Price changes shall be permissible if more than 4 months pass between conclusion of the contract and the agreed delivery date and the price change is due to a current increase in costs for which we are not responsible. Costs are deemed to have increased if wages, material costs or sales costs have risen before the delivery. The same applies if duty is increased or a duty is introduced or our suppliers increase their prices or there are exchange rate fluctuations. In these instances, S + P are justified in increasing the price commensurately with the rise in costs.

IV. Delivery and performance time, liability if delivery delayed.

1. Delivery times or periods which have not been explicitly agreed as binding are non-binding statements only. They are only approximate and describe the time and date when delivery can be expected. Any different agreements regarding a binding delivery date and time must be made explicitly and in writing. The delivery time will start when the purchaser has properly completed the actions incumbent on him or her to help bring about the delivery.
2. If we do not receive deliveries or services from our suppliers or subcontractors through no fault of our own despite having made the appropriate provisions, or do not receive them at the appropriate time or there are instances of force majeure, we will inform our customers in good time in writing. In this event, we are entitled to postpone the delivery or the service for the duration of the impediment, or to withdraw partially or in full from the contract on account of the unfulfilled part of the contract, provided we have fulfilled our obligation to provide information as described above and have not accepted the risks associated with procurement or manufacture. Instances of force majeure are strikes, lock-out, intervention by authorities, lack of power or raw materials, transport bottlenecks through no fault of ours, operational impediments through no fault of ours such as fire, water, damage to machinery and all other impediments which from an objective point of view are not our fault. If the delivery or the service is delayed by more than a month, then both we and the customer – to the exclusion of all claims for damages – shall be entitled to withdraw from the contract where the quantity affected by the delivery problems is concerned. The customer shall be entitled to withdraw fully from the contract if it is unreasonable to expect him or her to accept a part delivery.
3. In any case we will not be deemed to be delaying delivery until a subsequent reasonable period set by the customer has expired, unless the transaction includes delivery by a fixed date within the meaning of Section 286 para. 2 no. 4 German Civil Code (BGB) or Section 376 German Commercial Code.
4. Claims for damages arising from delayed delivery shall be excluded, provided they are not the result of intentional or gross negligence on our part or that of our agents or of a culpable infringement of substantive contractual obligations. Those contractual obligations are substantive which protect the customer's legal position which the content and purpose of the contract must provide; also substantive are those contractual obligations the fulfilment of which is only made possible by the correct performance of the contract and on which as a general rule, the contractual partner relies and may rely.
Exclusion of liability for ordinary negligence shall not apply to damages resulting from injury to life, body or health or from the infringement of substantive contractual obligations or which affect warranties.
However, where a substantive contractual obligation has been infringed as the result of ordinary negligence, we shall only be liable for average damages that are foreseeable, typical and immediate, given the type of contract concluded.
5. Should we be responsible for delaying the delivery, the purchaser shall be able to claim flatrate compensation amounting to 0.5% of the value of the delivery for every full week of the delay, up to a maximum of 5% of the value of the delivery, unless we show that he or she has suffered less or no damage.
6. We shall be entitled to make part deliveries or deliver only some services at any time if the customer can be reasonably expected to accept this.
7. If the purchaser delays accepting the goods, we shall be entitled to request compensation for the losses this causes and for any extra expenditure. The same applies if the purchaser culpably fails to fulfil his or her duty to cooperate.

V. Place of performance, transfer of risk, despatch and packing

1. Where no other agreement has been made, the place of performance shall be our registered company offices in Öhringen.
2. Where no other agreement has been made, the risk of accidental damage or loss of the goods shall pass to the purchaser as follows: as soon as the goods are not despatched from our warehouse in Öhringen, at the time when the goods are made available to the first transport person, or, if the purchaser is delaying acceptance, at the time at which we offer the transfer in such a way as to constitute a delay, provided the goods are despatched from our warehouse in Öhringen at the time at which we inform the customer the goods are available for collection. Loading and despatch shall not be insured and shall be at the risk of the purchaser.
3. We shall endeavour to take account of the purchaser's wishes and interests regarding the method and route of despatch; any extra costs arising as a result – even when carriage paid has been agreed – will be charged to the purchaser.
4. We do not take back any transport or other packaging in accordance with the packaging directive, with the exception of pallets. The purchaser must dispose of the packaging which becomes his or her property at his or her own cost.
5. If the despatch is delayed at the wish or due to the fault of the purchaser, we shall store the goods at the cost and risk of the purchaser. In this case, notification that we are ready to dispatch shall be equivalent to the despatch.
6. We shall insure the delivery through a transport insurance company if the purchaser wishes and at his or her cost. Explicit instructions in writing from the purchaser are required to effect this.

VI. Warranty / limits of liability / compensation for wasted expenditure

1. Warranty claims by the purchaser are valid only if the purchaser has correctly fulfilled the statutory obligations in examining the goods and making a complaint. We must be notified in writing of detectable defects within a week of receipt of the goods. If this is not done, the goods shall be deemed approved. S + P must be notified of latent defects as soon as they have been found.
2. If the defect in the goods is our fault, we are initially obliged to rectify the defect unless legislation entitles us to refuse rectification. The purchaser's rights to withdraw from the contract or reduce the selling price are excluded. The purchaser must allow us a reasonable period to rectify the defect. The purchaser can choose to have the defect rectified through elimination (correction) or through delivery of new goods. Where the defect is eliminated, we shall bear the necessary expenses, provided these are not increased because the object of the contract is at a location different from the place of performance. If the rectification to which the purchaser is entitled fails or it is unreasonable to expect the purchaser to accept it, or the rectification is refused under the provisions of Section 439 para. 3 German Civil Code, or, the interests of both parties having been weighed up, the circumstances are such that require immediate claim for compensation for damages or withdrawal, the purchaser can request that the purchase price be reduced or announce withdrawal from the contract.
The purchaser can only assert claims for compensation for damages due to the defect under the following conditions if the rectification has failed. The right of the purchaser to assert further claims for damages under the following conditions shall not be affected.
3. Claims in accordance with Section 478 German Civil Code (Recourse of the entrepreneur) asserted by the purchaser against S + P shall exist only in so far as the purchaser has not entered into any agreements with his or her customer which contain provisions which extend beyond statutory warranty claims (see point 4). A claim is excluded if the purchaser has not correctly fulfilled the statutory obligations to examine the goods and to make a complaint in respect of a defect.
4. The obligation stated in item VI, point 3 is excluded if the defect is based on advertising statements or other contractual agreements which did not originate with us or if the purchaser has given the end consumer a special warranty. The obligation is similarly excluded if the purchaser him/herself was under no obligation towards the end consumer under the statutory regulations governing the exercise of warranty rights or did not give notice of this defect in respect of a claim made upon it. This also applies if the purchaser has given the end consumer warranties which extend beyond the statutory requirements.
5. Claims for damages arising from defects in the title or quality shall be excluded provided they are not the result of intentional or gross negligence on our part or that of our agents or a culpable infringement of substantive contractual obligations. Those contractual obligations are substantive which protect the customer's legal position which the content and purpose of the contract must provide; also substantive are those contractual obligations the fulfilment of which is only made possible by the correct performance of the contract and on which as a general rule, the contractual partner relies and may rely.
Exclusion of liability for ordinary negligence shall not apply to damages resulting from injury to life, body or health or from the infringement of substantive contractual obligations or from warranties or claims based on product liability legislation.
However, where a substantive contractual obligation has been infringed as the result of ordinary negligence, we shall only be liable for average damages that are foreseeable, typical and immediate, given the type of contract concluded.
6. Claims for compensation for wasted expenditure in accordance with Section 284 German Civil Code shall be waived if in accordance with the above, a claim for compensation for damage in the place of effective performance has been excluded in the contract.

VII. Liability

Claims for damages resulting from infringement of a non-contractual obligation (tortious liability) or from culpability on or previous to concluding the contract (culpa in contrahendo) and for other legal reasons, including, but not limited to infringement of the general obligation to be considerate (section 241 para. 2 German Civil Code) or other contractual obligations (Section 280 Section
1 German Civil Code) provided these are not already claims against warranty shall be excluded, provided they are not the result of intentional or gross negligence on our part or that of our agents or of the culpable infringement of substantive contractual obligations.
This includes but is not limited to, our liability where a substantive contractual obligation has been infringed as the result of ordinary negligence, for average damages that given the type of contract concluded are foreseeable, typical and immediate.
Exclusion of liability for ordinary negligence shall not apply to damages resulting from injury to life, body or health or the infringement of substantive contractual obligations or from warranties or claims based on product liability legislation.

VIII. Statute of limitations

Claims of the purchaser for warranty and compensation for damages (items IV, VI, VII) shall fall under the statute of limitations one year after the goods have been delivered. This shall not apply where we are liable for damages which result from injury to life, body or health and the infringement of substantive contractual obligations, are based on fraudulently concealed defects, or affect warranties and claims under product liability legislation. The shortening of the period of the statute of limitations shall not apply in the event of recourse of the entrepreneur (Sections 478 and 479 of the German Civil Code) or the object purchased is a building or has been as a building in accordance with customary use and caused its defectiveness (Section 438 para. 1 no. 2 German Civil Code).

IX. Reservation of title

1. The goods supplied by us shall remain our property until all the existing claims or claims arising in the future which are due to us for any legal reason from the ongoing business relationship and/or the actual purchase contract with the purchaser are fulfilled. If the purchaser is in breach of the contract, in default of payment, for example, we shall be entitled after setting an appropriate interval to take back the goods subject to retention of title. Our taking back the goods subject to retention of title shall represent withdrawal from the contract. Our seizing the goods subject to retention of title shall constitute withdrawal from the contract. We shall be entitled to resell the goods subject to retention of title after taking them back. After subtracting an appropriate amount for the costs of reselling, the proceeds of the resale will be used to offset the monies owed to us by the purchaser.
2. The purchaser must handle the goods subject to retention carefully and insure them at their as-new value against damage from fire, water and theft. The purchaser must carry out any maintenance and service work required at his or her cost. The purchaser shall also be obliged, at S + P's request, to inform us at any time about the condition of the goods and to tell us where they are stored.
3. The purchaser shall be entitled to sell and/or use the goods subject to retention of title in a proper business transaction as long as he or she is not in default of payment. Pledging or assignment as collateral is not permitted. The purchaser shall assign all claims arising from a sale or other legal basis (insurance, non-permitted activity) of the goods subject to retention of title (including all current account balance claims) now for reasons of safety; we hereby accept the assignment. We authorise the purchaser to call in the debts assigned for the purchaser's account in his or her own name. The authorisation to call in the debts can be revoked at any time if the purchaser does not fulfil his or her payment obligations correctly. The purchaser is not authorised to assign this debt for the purposes of calling in the debt via factoring, unless at the same time, the factor is obliged to give us immediate consideration in the amount still owed to us by the purchaser. The purchaser shall furthermore be obliged to inform us immediately of any seizure of the goods or other impairment by third parties.
4. The goods subject to retention will in any case be processed or converted for us by the purchaser. If the goods subject to retention of title are processed with objects which do not belong to us, we shall acquire joint ownership of the new object to the value of the goods subject to retention (final invoice amount, including VAT) relative to the other processed objects at the time of processing. If the goods subject to retention of title are inseparably combined with objects which do not belong to us, we shall acquire joint ownership of the new object to the value of the goods subject to retention (final invoice amount, including the VAT) relative to the other combined objects at the time of combining. If the purchaser's object is to be deemed a primary object as the result of the combining, and if the purchaser and we agree that the purchaser shall transfer to us proportionate joint ownership in this object, we herewith accept the transfer. The purchaser shall keep our exclusive or joint ownership thus created in safe custody. The same applies to the new object created from the processing or conversion as for the goods subject to retention of title, with the restriction however that the purchaser assigns claims from third parties to us in the amount of joint ownership we acquired as stated above.
5. If third parties access the goods subject to retention, including but not limited to seizures, the purchaser shall make them aware of our title and inform us immediately so that we can assert our right to title. If the third party is unable to reimburse us for any legal or non-legal costs arising in this respect, the purchaser shall be liable for them.
6. We shall be obliged to release the collateral owed to us in so far as the realisable value of our collateral exceeds the claims to be collateralised by more than 10%; we shall be able to choose which collateral to release.

X. Place of performance, choice of forum, applicable legislation

1. The place of performance and choice of forum for deliveries and payments (including complaints regarding cheques or bills) and for all disputes arising between us and the purchaser from the purchase contracts concluded between us and him or her shall be Öhringen. However we shall be entitled to file a complaint against the purchaser at his or her residence or registered business address.
2. The legal relationship between us and our customers or between us and third parties shall be governed exclusively by the legislation of the Federal Republic of Germany.

XI. Miscellaneous

1. In the event that one or more of the provisions in this agreement is or becomes partly invalid or incomplete, or is excluded by a special agreement, this shall not affect the validity of the remaining provisions.
2. We would like to point out that we hold our customers' data as part of our mutual business relationships in accordance with the Federal Data Protection Act.

Schäfer + Peters GmbH

Schäfer + Peters GmbH
Zeilbaumweg 32
DE-74613 Öhringen

Tel. +49 (0) 7941 6094-0
Fax +49 (0) 7941 6094-700

info@schaefer-peters.com
www.schaefer-peters.com