



Mass timber construction fasteners



Code
approved

SFS environmental impact focus

Being a worldwide leading supplier of mechanical fastening systems, assemblies, precision molded parts and logistics solutions, sustainable business practices are part of our DNA. Together with our customers we develop and supply customized solutions for the most varied of industries and markets that offer sustained added value.

The SFS Group has a microsite which describes the varied activities, posts statistics and shares success stories.






To find out more about the SFS Group sustainable activities, visit: sustainability.sfs.com

SFS Division Construction North America

New initiative

Our North America Construction Division has undertaken initiatives to achieve sustainable success with improvements in production, facility infrastructure and logistics. Now we have expanded our commitment to activities in our marketing efforts. Utilizing FSC certified and 100% recycleable paper, LED-UV inks and participating in the PrintReleaf program will help SFS reduce our paper footprint in measurable ways.

Based on 2021-2022 print activities, these initiatives had the following environmental impact:

-  **102.5 US Short tons less, a difference of 615.2 trees**
Wood use: measures the amount of wood required to produce a given amount of paper.
-  **262.8 million BTUs less, a difference of 311.9 residential refrigerators operated/year**
Total energy: measures all energy required over the paper's life cycle, including all renewable and nonrenewable resource use, including black liquor and all wood sources.
-  **GHG 299,700 pounds CO₂ equivalent less, a difference of 27.3 cars/year**
Greenhouse gases/climate change impacts: measures carbon dioxide or CO₂ from burning fossil fuels, methane from paper decomposing in landfills and short-lived climate pollutants (such as black carbon and organic carbon) which contribute to climate change by trapping energy from the sun in the earth's atmosphere.
-  **70,000 gallons less, a difference of 51.4 clothes washers operated/year**
Water usage: measures the amount of process and cooling water that is consumed or degraded throughout the life cycle of the paper product.
-  **2,160 pounds less, a difference of 487 people generating solid waste/day**
Solid waste: measures sludge and other wastes generated during pulp and paper manufacturing and used paper disposed of in landfills and incinerators.

We make. You build. They plant.



We believe that as the use of mass timber grows, so does our responsibility to our planet. We're looking for partners to build a sustainable future together.

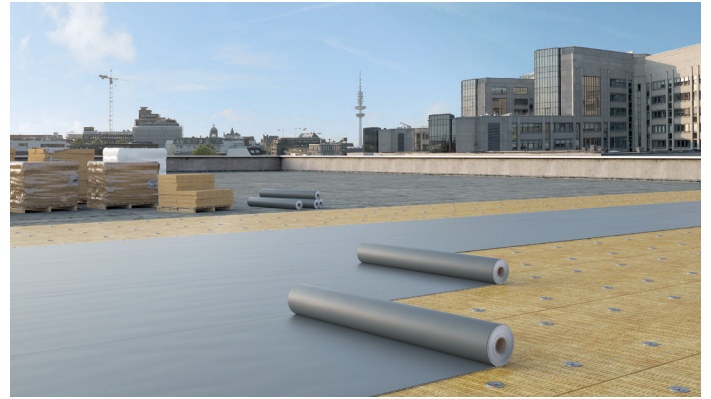
Every project built with our mass timber hardware supports the National Forest Foundation to plant trees and regenerate our forests. Join us in ensuring our industry and planet thrive.

Mass timber construction



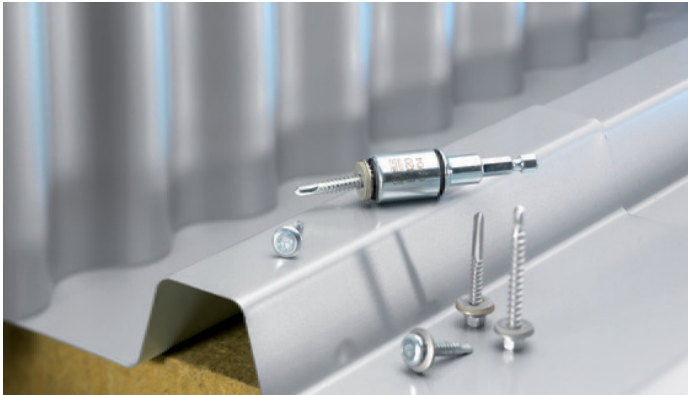
SFS manufactures customized fastening solutions for timber construction, providing robust designs that meet the latest standards.

Low slope roofing



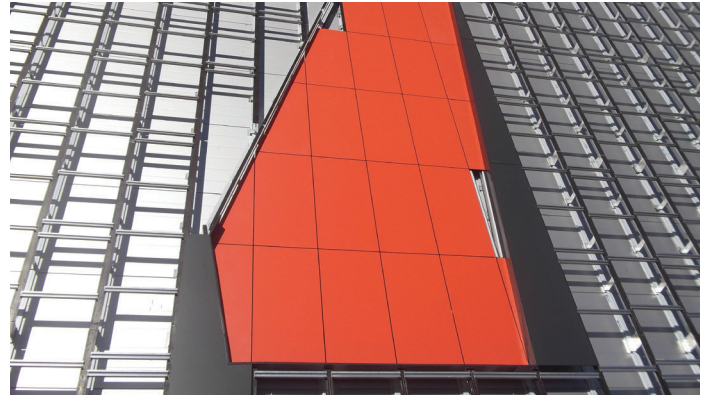
SFS has been at the forefront for setting standards in the mechanical fastening of membranes and insulation on low slope roofs for over 50 years.

Roofing and cladding



SFS is a pioneer in self-drilling and threading fasteners for roofing and cladding, offering a wide spectrum of products, backed up by comprehensive technical expertise.

Rainscreen support systems



SFS manufactures rainscreen support systems that are safe, economic and effective for use across a wide range of building types.

Rainscreen attachment systems



SFS offers a wide range of fasteners for secure installation of building facade materials, including HPL, fiber cement, ACM systems, curtain walls and insulated metal panels. All fasteners are designed to meet aesthetic, strength and sustainability requirements.

Post frame



SFS has a broad line of fasteners specifically designed for metal to wood applications that will meet budgetary, environment or unique project needs. Our first-rate engineering is accompanied by collaborative customer service.



Contents

Product geometry	6
Fastener matrix	8
Connection matrix	9
Fastener overview	10
HTP partial thread	14
Countersunk head	15
Combination hexagon head	18
Flange head	19
HTP full thread	22
Countersunk head	23
Cylinder head	25
HTP stainless	28
Partial thread countersunk head, stainless	29
Flange head, stainless	31
CC	32
Double thread cylinder head	33
WR	34
Full thread countersunk head	35
WS	36
Self-drilling dowel cylinder head	37
WB	38
Special threaded rod	39
VB	40
Timber-concrete composite with external T-drive	41
Accessories	42
Bits	43
HTP washers	44
WB bits and insertion sleeves	44
Tools	45

Product geometry

HTP-T-CS-PT-8,0x220



1 Product family

CC: Combination connect: double thread
WR: Wood reinforcement: special large diameter, full thread
WB: Wood bar: threaded rod
WS: Wood through steel: self-drilling dowel
VB: Verbundwerkstoff beton: (timber) concrete composite
HTP: Heavy timber: core products for variety of timber connections

2 Material

T: Tempered carbon steel
S: Stainless steel

3 Head style

CS: Countersunk
FH: Flange head
CH: Cylindrical head
H: Combination hexagon head

4 Thread

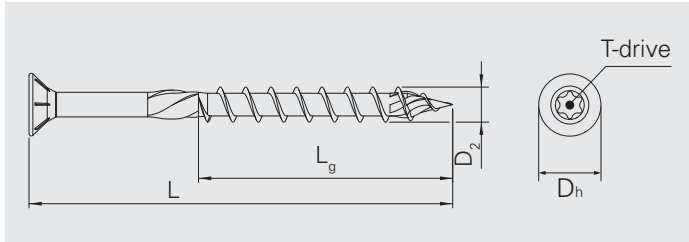
PT: Partial thread
FT: Full thread
DT: Double thread
VFT: Variable full thread with "magic close effect"

5 Diameter (D₂)

Outer thread, mm

6 Length (L)

Nominal length, mm






D₂: Diameter
 L: Nominal length
 L_g: Thread length
 D_h: Head diameter

Coatings

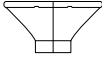

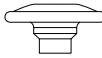

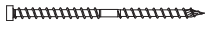
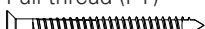
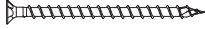

Code	Treatment
A2K	Fe/Zn5B per ASTM F1941
A3K	Fe/Zn8B per ASTM F1941
Durocoat®	Zinc rich organic multi-coat process for optimum corrosion resistance

Material

-  Carbon steel with zinc*
-  304 Stainless (1.4567)*
-  Carbon steel with Duracoat®

*All HTP and CC fasteners are treated with a proprietary dry film torque modification system, providing for effortless installation.

Fastener matrix

Screw type	Thread type	Diameter, in (mm)	Length range available, in (mm)			
			Countersunk (CS) ¹	CombiHexagon (HH) ²	Flange head (FH) ³	Cylinder head (CH)
Head type	—	—				
CC	Double thread (DT) 	1/4" (6.5) 5/16" (8.5)	—	—	—	3-7/8" to 8-1/2" (100–215) 3-7/8" to 15-3/4" (100–400)
WR	Full thread (FT) 	1/2" (13)	15-3/4" to 39-3/8" (400–10000)	—	—	—
HTP	Partial thread (PT) 	1/4" (6)	2" to 11-3/4" (50–300)	—	3-7/8" to 11-3/4" (100–300)	—
		5/16" (8)	3-1/8" to 19-5/8" (80–500)	4-3/4" to 5-1/2" (120–140)	4-3/4" to 19-5/8" (120–500)	—
		3/8" (10)	3-1/8" to 19-5/8" (80–500)	4-3/4" to 5-1/2" (120–140)	5-1/2" to 15-3/4" (140–400)	—
	Full thread (FT) 	1/4" (6)	1-5/8" to 6-1/4" (40–160)	—	—	4-3/4" to 7-7/8" (120–200)
		5/16" (8)	2-3/8" to 15" (60–380)	2" to 3-7/8" (50–100)	3-1/8" to 4-3/4" (80–120)	4-3/4" to 15" (120–380)
		3/8" (10)	4-3/4" to 15" (120–380)	2-3/8" to 3-7/8" (60–100)	3-1/8" to 4-3/4" (80–120)	4-3/4" to 15" (120–380)

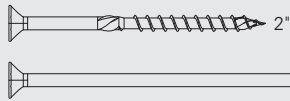
¹ HTP with milling pockets; WR without milling pockets

² Internal T-drive

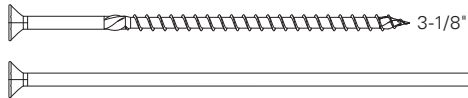
³ Raised flange

Fastener overview

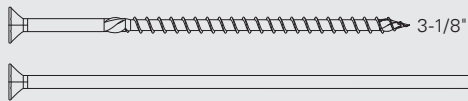
HTP-T-CS-PT-6xL
1/4" countersunk,
partial thread



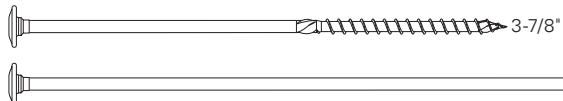
HTP-T-CS-PT-8xL
5/16" countersunk,
partial thread



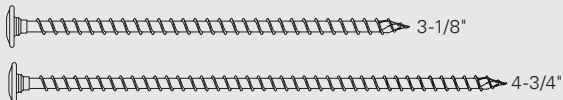
HTP-T-CS-PT-10xL
3/8" countersunk,
partial thread



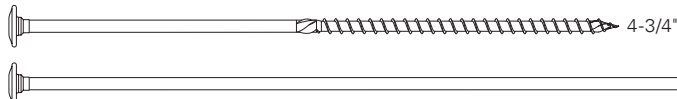
HTP-T-FH-PT-6xL
1/4" flange head,
partial thread



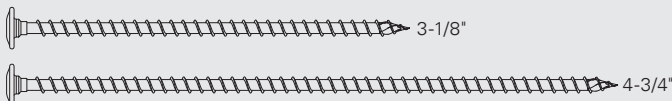
HTP-T-FH-FT-8xL
5/16" flange head,
full thread



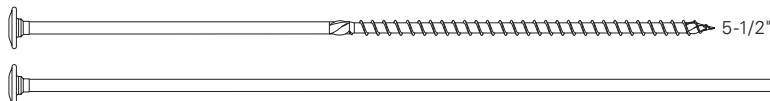
HTP-T-FH-PT-8xL
5/16" flange head,
partial thread



HTP-T-FH-FT-10xL
3/8" flange head,
full thread



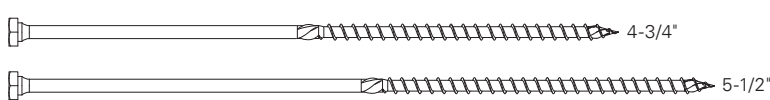
HTP-T-FH-PT-10xL
3/8" flange head,
partial thread



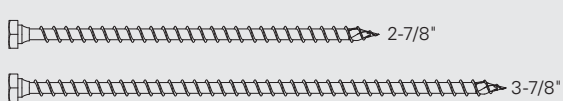
HTP-T-H-FT-8xL
5/16" hex head,
full thread



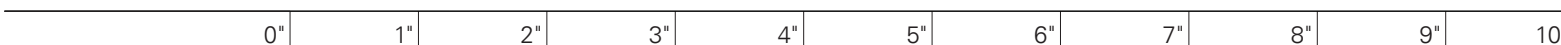
HTP-T-H-PT-8xL
5/16" hex head,
partial thread



HTP-T-H-FT-10xL
3/8" hex head,
full thread



HTP-T-H-PT-10xL
3/8" hex head,
partial thread



11-3/4"

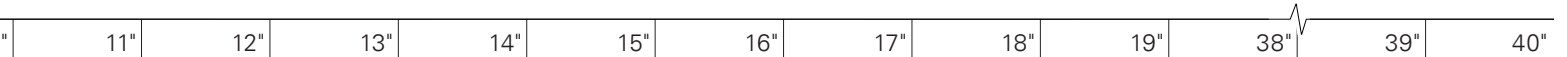
19-5/8"

19-5/8"

11-3/4"

19-5/8"

15-3/4"

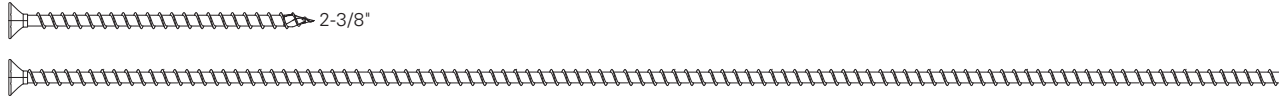


Fastener overview continued

HTP-T-CS-VFT-6xL
1/4" countersunk,
full thread



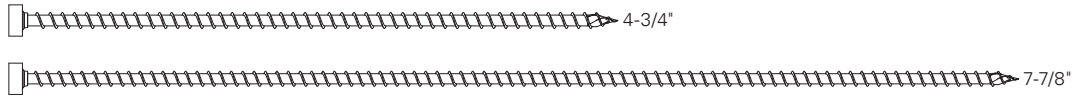
HTP-T-CS-FT-8xL
5/16" countersunk,
full thread



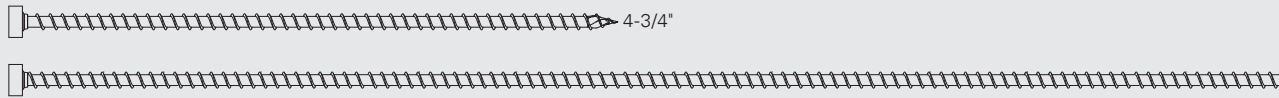
HTP-T-CS-FT-10xL
3/8" countersunk,
full thread



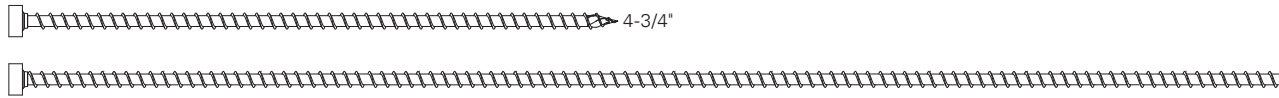
HTP-T-CH-FT-6xL
1/4" cylinder head,
full thread



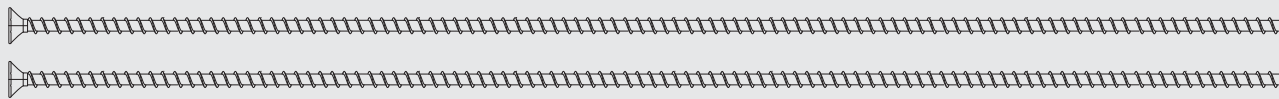
HTP-T-CH-FT-8xL
5/16" cylinder head,
full thread



HTP-T-CH-FT-10xL
3/8" cylinder head,
full thread



WR-T-CS-FT-13xL
1/2" countersunk,
full thread



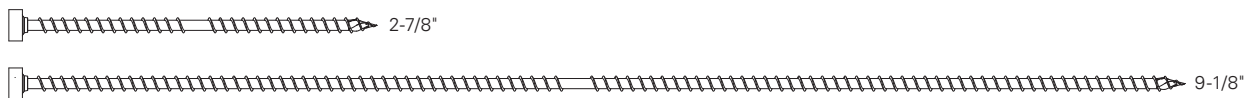
HTP-T-CH-DT-6.5xL
1/4" cylinder head,
double thread



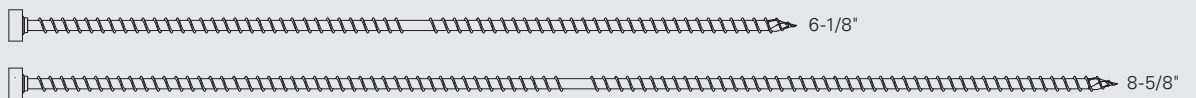
HTP-T-CH-DT-8.5xL
5/16" cylinder head,
double thread



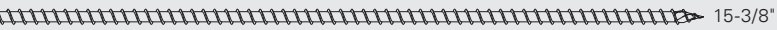
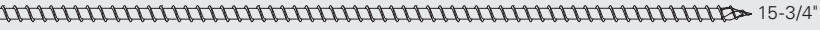
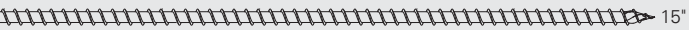
WS-T-7xL
1/4" self-drilling dowel with
cylinder head



VB-48-7.5xL
5/16" timber-concrete composite
with external T-drive



0" 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"



HTP partial thread

Value engineered for ultimate efficiency

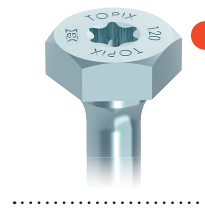
Designers and installers alike can appreciate the wide range of timber connection possibilities within the HTP range. Generally used in laterally loaded connections, HTP partially threaded screws undergo a proprietary heat treatment process that results in superior bending yield strength, while maintaining incredible ductility. Generally a 90 degree bend is achieved without fracture of an HTP screw.

The revolutionary point and shank geometry of HTP partially threaded screws makes installation quick and effortless. A drilling tip with specially crafted milling ribs enables installation at reduced spacing without cracking of the timber members, even without pre-drilling. Shank ribs on these screws slightly enlarge the hole after the threaded part of the timber connection, minimizing the torque to install by reducing the friction effect of the shank and ensuring an efficient installation process. With a wide range of application flexibility, effortless installation without pre-drilling, superior bending yield strength and unbelievable ductility; HTP partially threaded screws epitomize value engineering, while ensuring the most secure connections.

Product Information

- No pre-drilling required
- Faster driving
- Reduced risk of splitting the wood
- Lower driving torque

Approvals



Combination hexagon head

The combination hexagon head with T-drive allows comfortable and universal processing with various tools



FH

Flange head provides higher load transmission due to the increased clamping surface of the head



CS

Countersunk head with milling grooves for flush countersinking of the head in timber and steel connections.

Shank ribs

Permit easy, stress free driving

Higher thread pitch

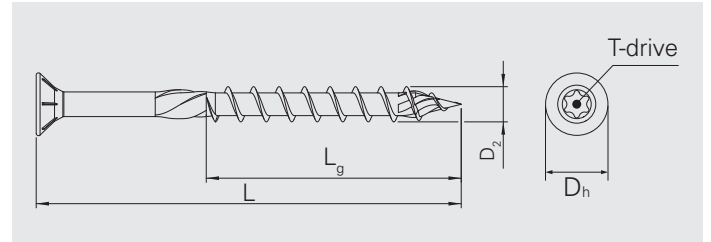
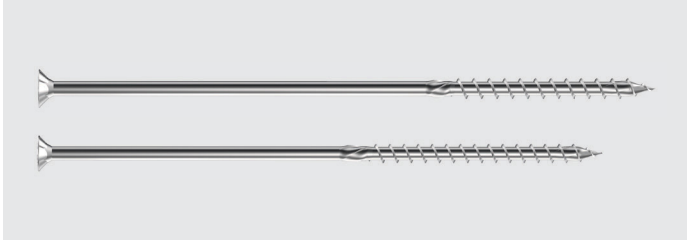
For faster driving

Tip with milling ribs

Reduces the risk of splitting the wood

HTP countersunk

For use in
dry, interior
applications



Features

- Countersunk head with milling grooves
- T-drive
- Partial thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material

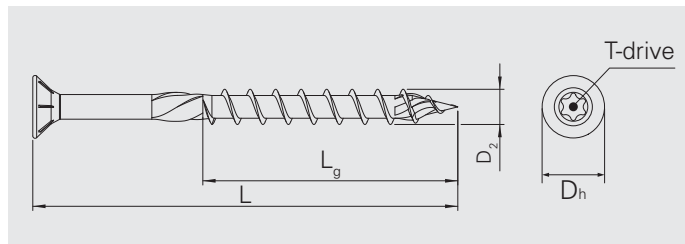
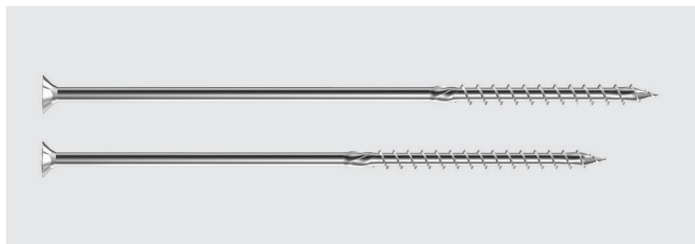


1/4" (6 mm) Carbon steel countersunk head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive ⚙️	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-T-CS-PT-6.0×50	1/4"	6.0	2"	50	1-1/8"	30	7/16"	11.7	T30	200
HTP-T-CS-PT-6.0×60			2-3/8"	60	1-3/8"	36				
HTP-T-CS-PT-6.0×70			2-3/4"	70	1-5/8"	42				
HTP-T-CS-PT-6.0×80			3-1/8"	80	1-7/8"	48				
HTP-T-CS-PT-6.0×90			3-1/2"	90	2-1/8"	54				
HTP-T-CS-PT-6.0×100			3-7/8"	100	2-3/8"	60				
HTP-T-CS-PT-6.0×110			4-3/8"	110	2-5/8"	66				
HTP-T-CS-PT-6.0×120			4-3/4"	120	2-7/8"	72				
HTP-T-CS-PT-6.0×130			5-1/8"	130						
HTP-T-CS-PT-6.0×140			5-1/2"	140						
HTP-T-CS-PT-6.0×150			5-7/8"	150						
HTP-T-CS-PT-6.0×160			6-1/4"	160						
HTP-T-CS-PT-6.0×180			7-1/8"	180						
HTP-T-CS-PT-6.0×200			7-7/8"	200						
HTP-T-CS-PT-6.0×220			8-5/8"	220						
HTP-T-CS-PT-6.0×240			9-1/2"	240						
HTP-T-CS-PT-6.0×260			10-1/4"	260						
HTP-T-CS-PT-6.0×280			11"	280						
HTP-T-CS-PT-6.0×300			11-3/4"	300						

HTP countersunk

For use in
dry, interior
applications



Features

- Countersunk head with milling grooves
- T-drive
- Partial thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material

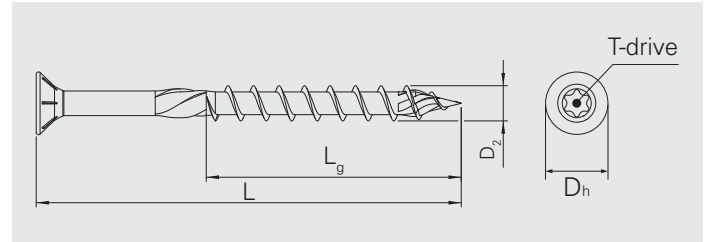
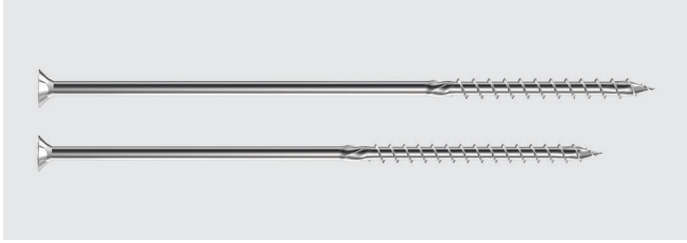


5/16" (8 mm) Carbon steel countersunk head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive T40	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-T-CS-PT-8.0×80	5/16"	8.0	3-1/8"	80	2-3/8"	60	9/16"	14.8	T40	100
HTP-T-CS-PT-8.0×90			3-1/2"	90						
HTP-T-CS-PT-8.0×100			3-7/8"	100						
HTP-T-CS-PT-8.0×120			4-3/4"	120	2-7/8"	72				
HTP-T-CS-PT-8.0×140			5-1/2"	140						
HTP-T-CS-PT-8.0×160			6-1/4"	160	3-7/8"	100				
HTP-T-CS-PT-8.0×180			7-1/8"	180						
HTP-T-CS-PT-8.0×200			7-7/8"	200						
HTP-T-CS-PT-8.0×220			8-5/8"	220	50					
HTP-T-CS-PT-8.0×240			9-1/2"	240						
HTP-T-CS-PT-8.0×260			10-1/4"	260						
HTP-T-CS-PT-8.0×280			11"	280						
HTP-T-CS-PT-8.0×300			11-3/4"	300						
HTP-T-CS-PT-8.0×320			12-5/8"	320						
HTP-T-CS-PT-8.0×340			13-3/8"	340						
HTP-T-CS-PT-8.0×360			14-1/8"	360						
HTP-T-CS-PT-8.0×380			15"	380						
HTP-T-CS-PT-8.0×400			15-3/4"	400						
HTP-T-CS-PT-8.0×420			16-1/2"	420						
HTP-T-CS-PT-8.0×460			18-1/8"	460						
HTP-T-CS-PT-8.0×500	19-5/8"	500								

HTP countersunk

For use in
dry, interior
applications



Features

- Countersunk head with milling grooves
- T-drive
- Partial thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material

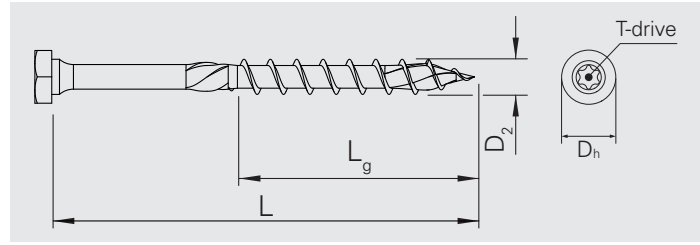
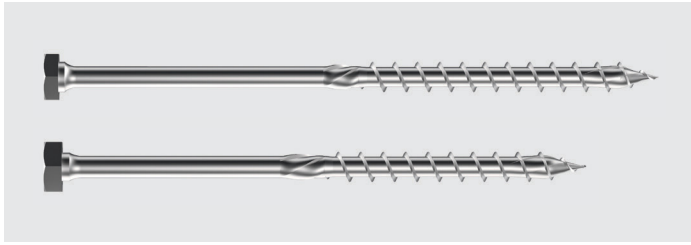


3/8" (10 mm) Carbon steel countersunk head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive T40	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-T-CS-PT-10.0×80	3/8"	10.0	3-1/8"	80	2-3/8"	60	3/4"	18.5	T40	50
HTP-T-CS-PT-10.0×100			3-7/8"	100	3-1/4"	84				
HTP-T-CS-PT-10.0×120			4-3/4"	120						
HTP-T-CS-PT-10.0×140			5-1/2"	140						
HTP-T-CS-PT-10.0×160			6-1/4"	160	3-7/8"	100				
HTP-T-CS-PT-10.0×180			7-1/8"	180						
HTP-T-CS-PT-10.0×200			7-7/8"	200						
HTP-T-CS-PT-10.0×220			8-5/8"	220						
HTP-T-CS-PT-10.0×240			9-1/2"	240						
HTP-T-CS-PT-10.0×260			10-1/4"	260						
HTP-T-CS-PT-10.0×280			11"	280						
HTP-T-CS-PT-10.0×300			11-3/4"	300						
HTP-T-CS-PT-10.0×320			12-5/8"	320						
HTP-T-CS-PT-10.0×340			13-3/8"	340						
HTP-T-CS-PT-10.0×360			14-1/8"	360						
HTP-T-CS-PT-10.0×380			15"	380						
HTP-T-CS-PT-10.0×400	15-3/4"	400								
HTP-T-CS-PT-10.0×420	16-1/2"	420								
HTP-T-CS-PT-10.0×460	18-1/8"	460								
HTP-T-CS-PT-10.0×500	19-5/8"	500								

HTP combination hexagon head

For use in
dry, interior
applications



Features

- Combination hexagon head
- T-drive
- Partial or full thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material



5/16" (8 mm) and 3/8" (10 mm) Carbon steel combination hexagon head

Full thread

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-T-H-FT-8.0×50	5/16"	8.0	2"	50	1-5/8"	42	1/2"	13.0	13 mm hex/T40	100
HTP-T-H-FT-8.0×60			2-3/8"	60	2"	52				
HTP-T-H-FT-8.0×70			2-3/4"	70	2-3/8"	62				
HTP-T-H-FT-8.0×80			3-1/8"	80	2-7/8"	72				
HTP-T-H-FT-8.0×100			3-7/8"	100	3-1/2"	92				
HTP-T-H-FT-10.0×60	3/8"	10.0	2-3/8"	60	2"	50	9/16"	15.0	15 mm hex/T40	50
HTP-T-H-FT-10.0×70			2-3/4"	70	2-3/8"	60				
HTP-T-H-FT-10.0×80			3-1/8"	80	2-3/4"	70				
HTP-T-Ha-FT-10.0×100			3-7/8"	100	3-1/2"	90				

Partial thread

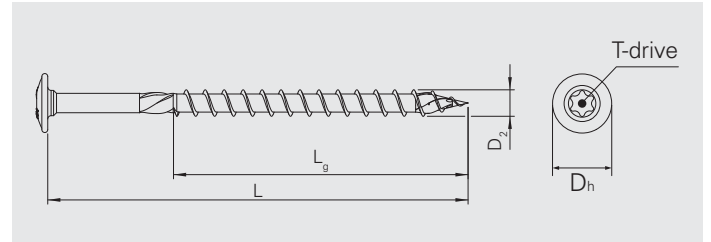
Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-T-H-PT-8.0×120	5/16"	8.0	4-3/4"	120	2-7/8"	72	1/2"	13.0	13 mm hex/T40	50
HTP-T-H-PT-8.0×140			5-1/2"	140	3-1/4"	84				
HTP-T-H-PT-10.0×120	3/8"	10.0	4-3/4"	120	2-7/8"	72	9/16"	15.0	15 mm hex/T40	50
HTP-T-H-PT-10.0×140			5-1/2"	140	3-1/4"	84				

Note: Short lengths may resemble full thread configuration.

Products with HTP-T-H-FT designation do not have shank ribs and are threaded to within 3/8" of the head.

HTP flange head

For use in
dry, interior
applications



Features

- Flange head
- T-drive
- Partial thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material

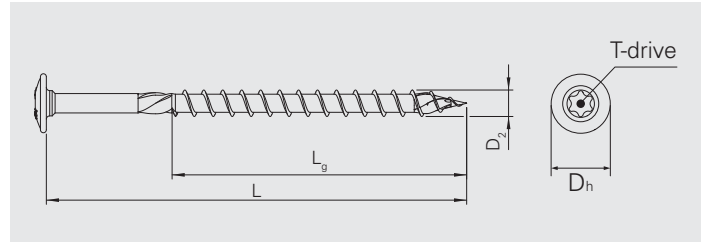
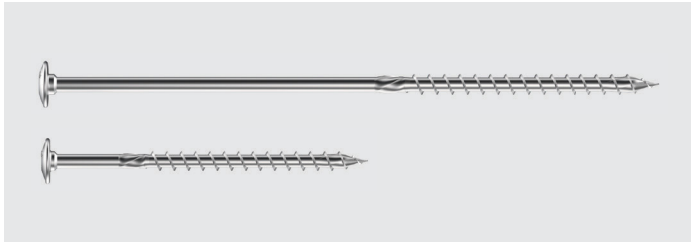


1/4" (6 mm) Carbon steel flange head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive ✦	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-T-FH-PT-6.0×100	1/4"	6.0	3-7/8"	100	2-3/8"	60	9/16"	14.0	T30	100
HTP-T-FH-PT-6.0×120			4-3/4"	120	2-7/8"	72				
HTP-T-FH-PT-6.0×140			5-1/2"	140						
HTP-T-FH-PT-6.0×160			6-1/4"	160						
HTP-T-FH-PT-6.0×180			7-1/8"	180						
HTP-T-FH-PT-6.0×200			7-7/8"	200						
HTP-T-FH-PT-6.0×220			8-5/8"	220						
HTP-T-FH-PT-6.0×240			9-1/2"	240						
HTP-T-FH-PT-6.0×260			10-1/4"	260						
HTP-T-FH-PT-6.0×280			11-1/8"	280						
HTP-T-FH-PT-6.0×300			11-3/4"	300						

HTP flange head

For use in
dry, interior
applications



Features

- Flange head
- T-drive
- Partial or full thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material



5/16" (8 mm) Carbon steel flange head

Full thread

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive T40	Carton qty 50
	in	mm	in	mm	in	mm	in	mm		
HTP-T-FH-FT-8.0×80	5/16"	8.0	3-1/8"	80	2-7/8"	74	11/16"	18.0		
HTP-T-FH-FT-8.0×100			3-7/8"	100	3-3/4"	94				
HTP-T-FH-FT-8.0×120			4-3/4"	120	4-1/2"	114				

Partial thread

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive T40	Carton qty 50
	in	mm	in	mm	in	mm	in	mm		
HTP-T-FH-PT-8.0×120	5/16"	8.0	4-3/4"	120	2-7/8"	72	11/16"	18.0		
HTP-T-FH-PT-8.0×140			5-1/2"	140	3-7/8"	100				
HTP-T-FH-PT-8.0×160			6-1/4"	160						
HTP-T-FH-PT-8.0×180			7-1/8"	180						
HTP-T-FH-PT-8.0×200			7-7/8"	200						
HTP-T-FH-PT-8.0×220			8-5/8"	220						
HTP-T-FH-PT-8.0×240			9-1/2"	240						
HTP-T-FH-PT-8.0×260			10-1/4"	260						
HTP-T-FH-PT-8.0×280			11"	280						
HTP-T-FH-PT-8.0×300			11-3/4"	300						
HTP-T-FH-PT-8.0×320			12-5/8"	320						
HTP-T-FH-PT-8.0×340			13-3/8"	340						
HTP-T-FH-PT-8.0×360			14-1/8"	360						
HTP-T-FH-PT-8.0×380			15"	380						
HTP-T-FH-PT-8.0×400			15-3/4"	400						
HTP-T-FH-PT-8.0×420			16-1/2"	420						
HTP-T-FH-PT-8.0×460			18-1/8"	460						
HTP-T-FH-PT-8.0×500			19-5/8"	500						

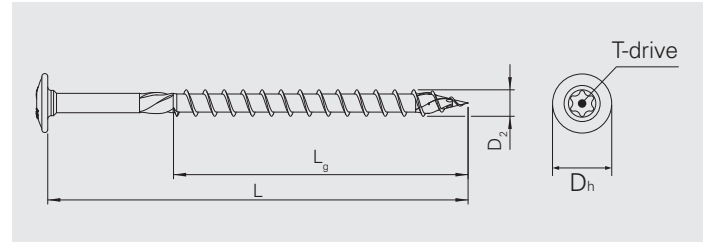
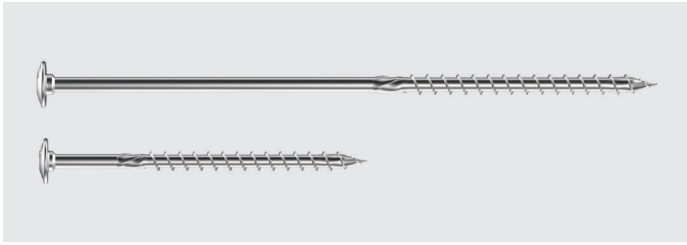
Note: Short lengths may resemble full thread configuration.

Products with HTP-T-FH-FT designation do not have shank ribs and are threaded to within 1/4" of the head.

All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes. (08/2023, V1.03, TV7001)

HTP flange head

For use in
dry, interior
applications



Features

- Flange head
- T-drive
- Partial or full thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material



3/8" (10 mm) Carbon steel flange head

Full thread

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive T40	Carton qty 50
	in	mm	in	mm	in	mm	in	mm		
HTP-T-FH-FT-10.0×80	3/8"	10.0	3-1/8"	80	2-7/8"	73	7/8"	22.5	T40	50
HTP-T-FH-FT-10.0×100			3-7/8"	100	3-5/8"	93				
HTP-T-FH-FT-10.0×120			4-3/4"	120	3-7/8"	100				

Partial Thread

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive T40	Carton qty 50
	in	mm	in	mm	in	mm	in	mm		
HTP-T-FH-PT-10.0×140	3/8"	10.0	5-1/2"	140	3-1/4"	84	7/8"	22.5	T40	50
HTP-T-FH-PT-10.0×160			6-1/4"	160	3-7/8"	100				
HTP-T-FH-PT-10.0×180			7-1/8"	180						
HTP-T-FH-PT-10.0×200			7-7/8"	200						
HTP-T-FH-PT-10.0×220			8-5/8"	220						
HTP-T-FH-PT-10.0×240			9-1/2"	240						
HTP-T-FH-PT-10.0×260			10-1/4"	260						
HTP-T-FH-PT-10.0×280			11"	280						
HTP-T-FH-PT-10.0×300			11-3/4"	300						
HTP-T-FH-PT-10.0×320			12-5/8"	320						
HTP-T-FH-PT-10.0×340			13-3/8"	340						
HTP-T-FH-PT-10.0×360			14-1/8"	360						
HTP-T-FH-PT-10.0×380			15"	380						
HTP-T-FH-PT-10.0×400			15-3/4"	400						

Note: Short lengths may resemble full thread configuration.

Products with HTP-T-FH-FT designation do not have shank ribs and are threaded to within 1/4" of the head.

HTP full thread

Expertly engineered thread profiles

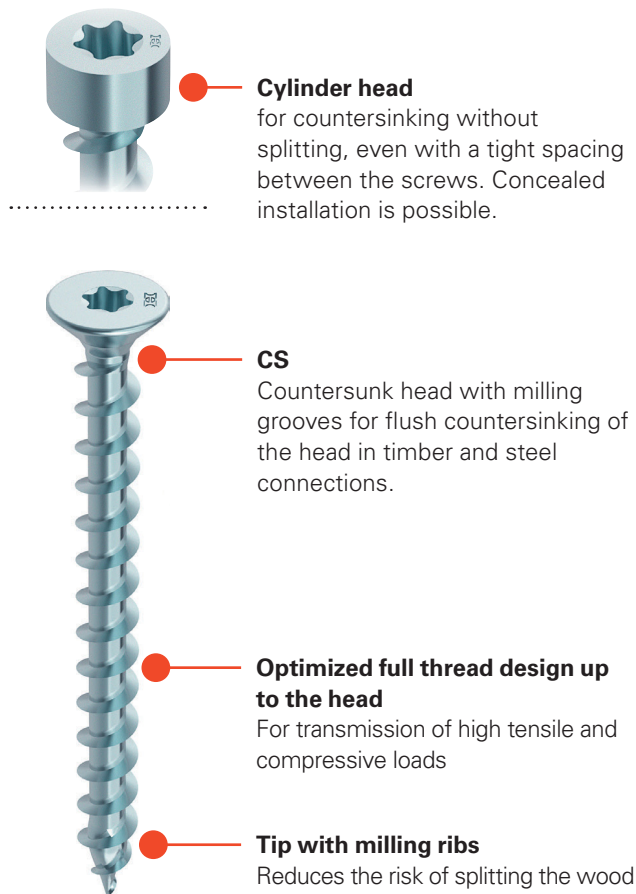
HTP fully threaded screws are generally used in axially loaded conditions such as angled attachments and connections, and reinforcements for tension and compression. These screws are available in very long lengths to accommodate a wide range of axial loading scenarios and they enjoy all the features and benefits of the HTP partially threaded fasteners and more.

1/4" countersunk HTP screws include a wildly innovative variable full thread (VFT), where the thread pitch varies along the length of the fastener, creating a contraction effect when connecting two timber members together. This creates an extremely tight, secure connection. All other HTP fully threaded fasteners have a specially engineered thread pitch based on screw diameter and length, the result of which is the optimal combination of installation time and ease; this is called "Perfect-Pitch". Whether it's an innovative variable thread or a custom curated "Perfect-Pitch" thread configuration, HTP fully threaded fasteners show years of engineering expertise can make the best even better.

Product Information

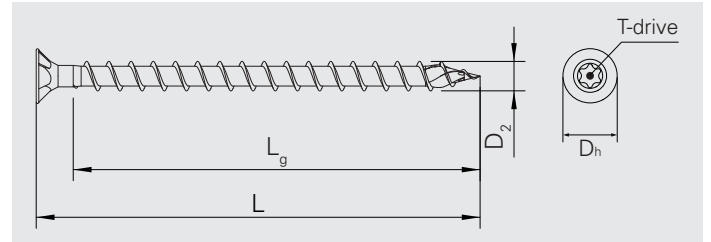
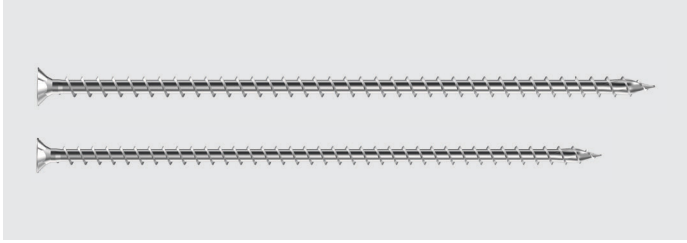
- Transfer of high tensile and compressive loads via the full thread
- Reduced edge and center distances
- Fast and simple to use

Approvals



HTP countersunk

For use in
dry, interior
applications



Features

- Countersunk head with milling grooves
- T-drive
- Variable full thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material

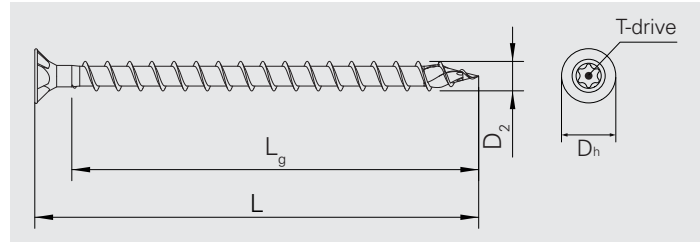
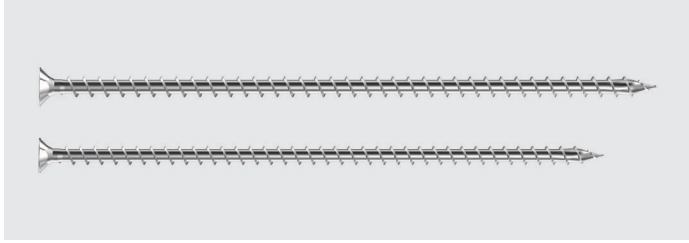


1/4" (6 mm) Variable full thread carbon steel countersunk head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive *	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-T-CS-VFT-6.0×40	1/4"	6.0	1-5/8"	40	1-1/4"	33	11.7	7/16"	T30	200
HTP-T-CS-VFT-6.0×60			2-3/8"	60	2-1/8"	53				
HTP-T-CS-VFT-6.0×80			3-1/8"	80	2-7/8"	73				
HTP-T-CS-VFT-6.0×100			3-7/8"	100	3-5/8"	93				
HTP-T-CS-VFT-6.0×120			4-3/4"	120	4-1/2"	113				
HTP-T-CS-VFT-6.0×140			5-1/2"	140	5-1/4"	133				
HTP-T-CS-VFT-6.0×160			6-1/4"	160	6"	153				

HTP countersunk

For use in
dry, interior
applications



Features

- Countersunk head with milling grooves
- T-drive
- Full thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material

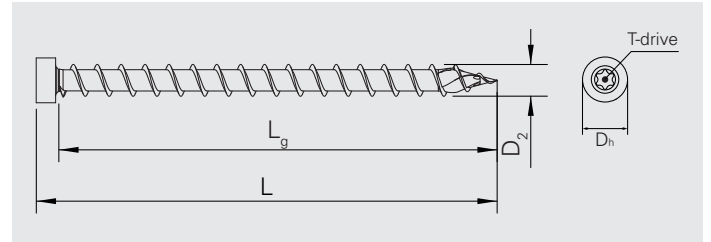
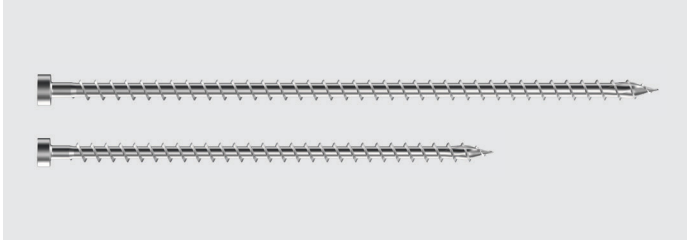


5/16" (8 mm) and 3/8" (10 mm) Carbon steel countersunk head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty						
	in	mm	in	mm	in	mm	in	mm								
HTP-T-CS-FT-8.0×60	5/16"	8.0	2-3/8"	60	2"	50	9/16"	14.8	T40	100						
HTP-T-CS-FT-8.0×80			3-1/8"	80	2-3/4"	70										
HTP-T-CS-FT-8.0×100			3-7/8"	100	3-1/2"	90										
HTP-T-CS-FT-8.0×120			4-3/4"	120	4-3/8"	110										
HTP-T-CS-FT-8.0×160			6-1/4"	160	5-7/8"	150										
HTP-T-CS-FT-8.0×180			7-1/8"	180	6-3/4"	170										
HTP-T-CS-FT-8.0×200			7-7/8"	200	7-1/2"	190										
HTP-T-CS-FT-8.0×220			8-5/8"	220	8-1/4"	210										
HTP-T-CS-FT-8.0×240			9-1/2"	240	9"	230										
HTP-T-CS-FT-8.0×260			10-1/4"	260	9-7/8"	250										
HTP-T-CS-FT-8.0×280			11"	280	10-5/8"	270										
HTP-T-CS-FT-8.0×300			11-3/4"	300	11-3/8"	290										
HTP-T-CS-FT-8.0×340			13-3/8"	340	13"	330										
HTP-T-CS-FT-8.0×380			15"	380	14-5/8"	370										
HTP-T-CS-FT-10.0×120			3/8"	10.0	4-3/4"	120					4-1/4"	108	3/4"	18.5	T40	50
HTP-T-CS-FT-10.0×160					6-1/4"	160					5-7/8"	148				
HTP-T-CS-FT-10.0×200	7-7/8"	200			7-3/8"	188										
HTP-T-CS-FT-10.0×220	8-5/8"	220			8-1/4"	208										
HTP-T-CS-FT-10.0×240	9-1/2"	240			9"	228										
HTP-T-CS-FT-10.0×260	10-1/4"	260			9-3/4"	248										
HTP-T-CS-FT-10.0×280	11"	280			10-1/2"	268										
HTP-T-CS-FT-10.0×300	11-3/4"	300			11-3/8"	288										
HTP-T-CS-FT-10.0×340	13-3/8"	340			12-7/8"	328										
HTP-T-CS-FT-10.0×380	15"	380			14-1/2"	368										

HTP cylinder head

For use in
dry, interior
applications



Features

- Cylinder head
- T-drive
- Full thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material



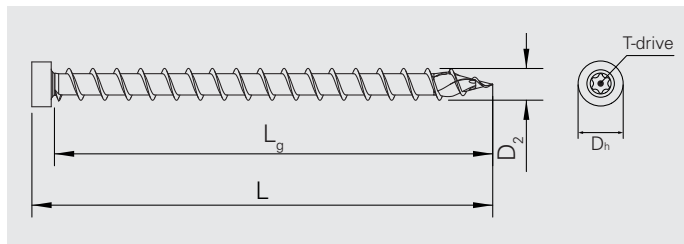
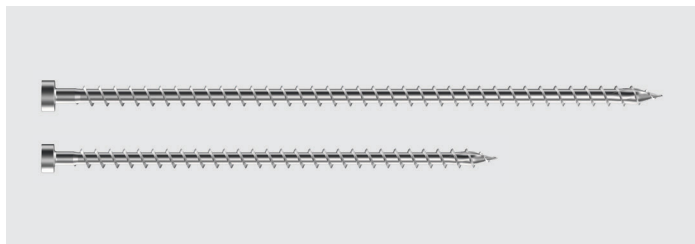
1/4" (6 mm), 5/16" (8 mm) and 3/8" (10 mm) Carbon steel cylinder head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-T-CH-FT-6.0×120	1/4"	6.0	4-3/4"	120	4-1/2"	114	5/16"	8.0	T30	100
HTP-T-CH-FT-6.0×140			5-1/2"	140	5-1/4"	134				
HTP-T-CH-FT-6.0×160			6-1/4"	160	6-1/8"	154				
HTP-T-CH-FT-6.0×180			7-1/8"	180	6-7/8"	174				
HTP-T-CH-FT-6.0×200			7-7/8"	200	7-5/8"	194				

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-T-CH-FT-8.0×120	5/16"	8.0	4-3/4"	120	4-3/8"	112	1/2"	12.0	T40	100
HTP-T-CH-FT-8.0×160			6-1/4"	160	6"	152				
HTP-T-CH-FT-8.0×180			7-1/8"	180	6-3/4"	172				
HTP-T-CH-FT-8.0×200			7-7/8"	200	7-1/2"	192				
HTP-T-CH-FT-8.0×220			8-5/8"	220	8-3/8"	212				
HTP-T-CH-FT-8.0×240			9-1/2"	240	9-1/8"	232				
HTP-T-CH-FT-8.0×260			10-1/4"	260	9-7/8"	252				
HTP-T-CH-FT-8.0×280			11-1/8"	280	10-3/4"	272				
HTP-T-CH-FT-8.0×300			11-3/4"	300	11-1/2"	292				
HTP-T-CH-FT-8.0×340			13-3/8"	340	13-1/8"	332				
HTP-T-CH-FT-8.0×380			15"	380	14-5/8"	372				

HTP cylinder head

For use in
dry, interior
applications



Features

- Cylinder head
- T-drive
- Full thread
- Bright zinc plated, A3K
- Carbon steel

Approvals



Material



1/4" (6 mm), 5/16" (8 mm) and 3/8" (10 mm) Carbon steel cylinder head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive ☀	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-T-CH-FT-10.0×120	3/8"	10.0	4-3/4"	120	4-3/8"	110	9/16"	14.0	T40	50
HTP-T-CH-FT-10.0×160			6-1/4"	160	5-7/8"	150				
HTP-T-CH-FT-10.0×200			7-7/8"	200	7-1/2"	190				
HTP-T-CH-FT-10.0×220			8-5/8"	220	8-1/4"	210				
HTP-T-CH-FT-10.0×240			9-1/2"	240	9"	230				
HTP-T-CH-FT-10.0×260			10-1/4"	260	9-7/8"	250				
HTP-T-CH-FT-10.0×280			11-1/8"	280	10-5/8"	270				
HTP-T-CH-FT-10.0×300			11-3/4"	300	11-3/8"	290				
HTP-T-CH-FT-10.0×340			13-3/8"	340	13"	330				
HTP-T-CH-FT-10.0×380			15"	380	14-1/4"	370				

HTP stainless

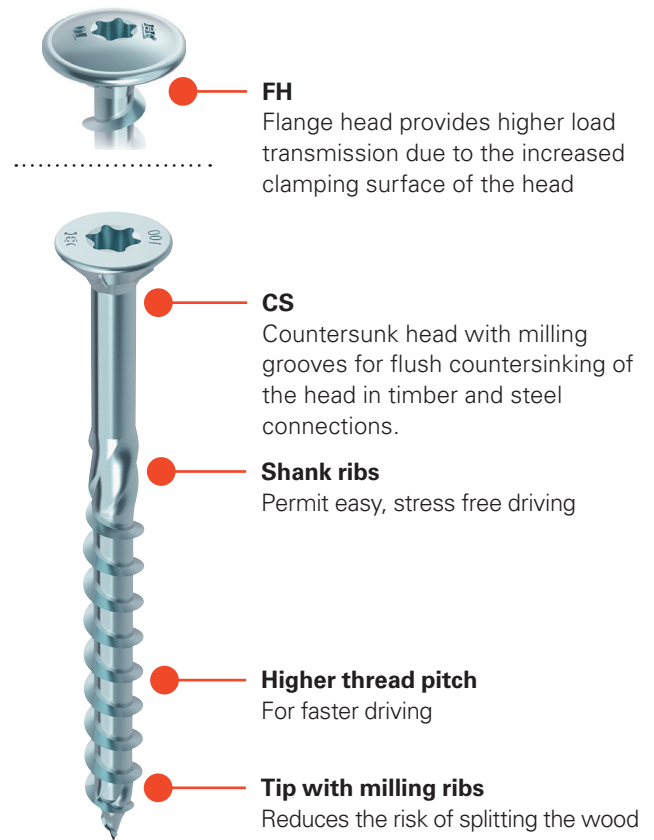
Safety and security with stainless steel

Experts in the timber construction sector value the advantages of HTP 304 stainless steel screws when used in challenging environmental applications such as generally damp exterior exposure and use in treated lumber. Safety and security is knowing the inherent corrosion resistance of 304 stainless steel and not relying on coating systems that can be damaged during installation or break down over time of exposure. HTP stainless steel screws provide all the excellent benefit of carbon HTP screws, but with the safety and security of 304 stainless steel.

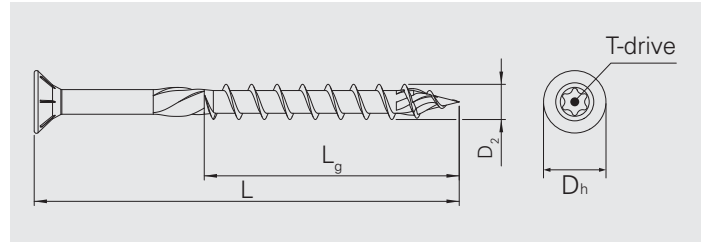
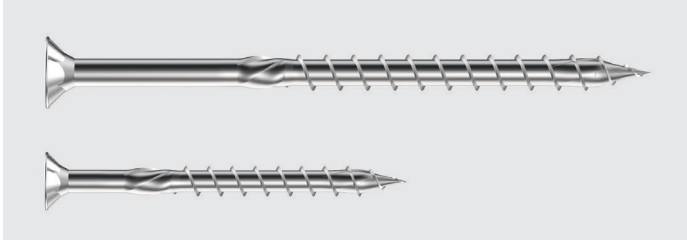
Product Information

- No pre-drilling required
- Faster driving
- Reduced risk of splitting the wood
- Lower driving torque

Approvals



HTP countersunk stainless



Features

- Countersunk head with milling ribs
- T-drive
- Partial thread
- 304 Stainless steel (A2 1.4567)

Approvals



Material

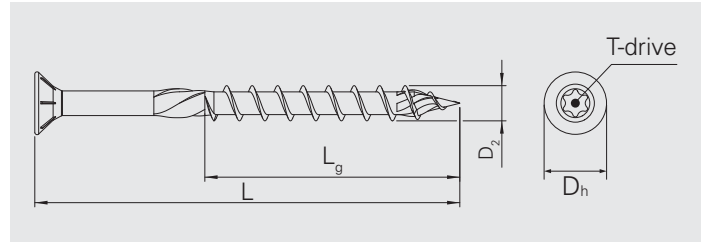
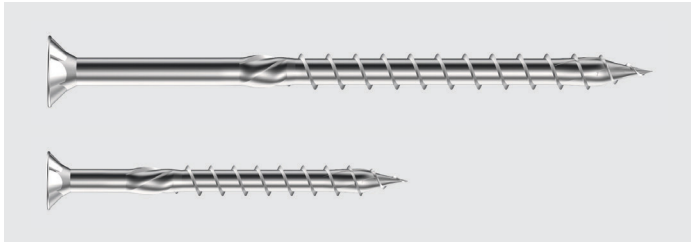


3/16" (5 mm) and 1/4" (6 mm) Stainless steel countersunk head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-S-CS-PT-5.0×30	3/16"	5.0	1-1/8"	30	1/4"	6	3/8"	9.6	T20	200
HTP-S-CS-PT-5.0×35			1-3/8"	35	1/2"	12				
HTP-S-CS-PT-5.0×40			1-5/8"	40	3/4"	18				
HTP-S-CS-PT-5.0×45			1-3/4"	45	1"	24				
HTP-S-CS-PT-5.0×50			2"	50	1-1/8"	30				
HTP-S-CS-PT-5.0×60			2-3/8"	60	1-3/8"	36				
HTP-S-CS-PT-5.0×70			2-3/4"	70	1-5/8"	42				
HTP-S-CS-PT-5.0×80			3-1/8"	80	1-7/8"	48				
HTP-S-CS-PT-5.0×90			3-1/2"	90	2-1/8"	54				
HTP-S-CS-PT-5.0×100			4"	100	2-3/8"	60				100

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-S-CS-PT-6.0×40	1/4"	6.0	1-5/8"	40	1"	24	7/16"	11.7	T30	200
HTP-S-CS-PT-6.0×50			2"	50	1-1/8"	30				
HTP-S-CS-PT-6.0×60			2-3/8"	60	1-3/8"	36				
HTP-S-CS-PT-6.0×70			2-3/4"	70	1-5/8"	42				
HTP-S-CS-PT-6.0×80			3-1/8"	80	1-7/8"	48				
HTP-S-CS-PT-6.0×90			3-1/2"	90	2-1/8"	54				
HTP-S-CS-PT-6.0×100			3-7/8"	100	2-3/8"	60				
HTP-S-CS-PT-6.0×120			4-3/4"	120	2-7/8"	72				
HTP-S-CS-PT-6.0×140			5-1/2"	140						
HTP-S-CS-PT-6.0×160			6-1/4"	160						
HTP-S-CS-PT-6.0×180			7-1/8"	180						
HTP-S-CS-PT-6.0×200			7-7/8"	200						100

HTP countersunk stainless



Features

- Countersunk head with milling ribs
- T-drive
- Partial thread
- 304 Stainless steel (A2 1.4567)

Approvals



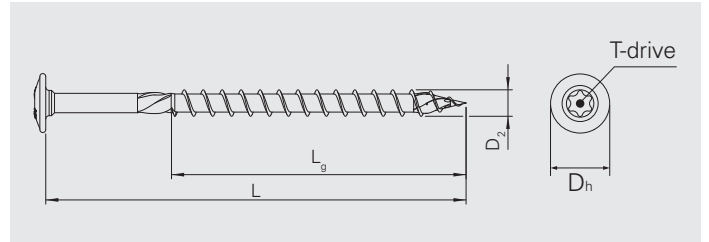
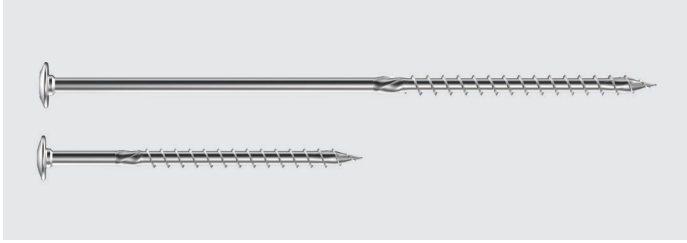
Material



3/8" (8 mm) Stainless steel countersunk head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty	
	in	mm	in	mm	in	mm	in	mm			
HTP-S-CS-PT-8.0×80	5/16"	8.0	3-1/8"	80	2-3/8"	60	9/16"	14.8	T40	100	
HTP-S-CS-PT-8.0×100			3-7/8"	100							
HTP-S-CS-PT-8.0×120			4-3/4"	120							
HTP-S-CS-PT-8.0×140			5-1/2"	140	2-7/8"	72					
HTP-S-CS-PT-8.0×160			6-1/4"	160							
HTP-S-CS-PT-8.0×180			7-1/8"	180							
HTP-S-CS-PT-8.0×200			7-7/8"	200							
HTP-S-CS-PT-8.0×220			8-5/8"	220	3-7/8"	100					50
HTP-S-CS-PT-8.0×240			9-1/2"	240							
HTP-S-CS-PT-8.0×260			10-1/4"	260							
HTP-S-CS-PT-8.0×280			11"	280							
HTP-S-CS-PT-8.0×300			11-3/4"	300							
HTP-S-CS-PT-8.0×320			12-5/8"	320							
HTP-S-CS-PT-8.0×340			13-3/8"	340							
HTP-S-CS-PT-8.0×360			14-1/8"	360							
HTP-S-CS-PT-8.0×380			15"	380							
HTP-S-CS-PT-8.0×400	15-3/4"	400									

HTP flange head stainless



Features

- Flange head
- T-drive
- Partial thread
- 304 Stainless steel (A2 1.4567)

Approvals



Material



1/4" (6 mm) and 5/16" (8 mm) Stainless steel flange head

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-S-FH-PT-6.0×100	1/4"	6.0	3-7/8"	100	3-1/4"	84	9/16"	14.0	T30	100
HTP-S-FH-PT-6.0×120			4-3/4"	120	3-7/8"	100				

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-S-FH-PT-8.0×140	5/16"	8.0	5-1/2"	140	3-1/4"	84	11/16"	18.0	T40	50
HTP-S-FH-PT-8.0×160			6-1/4"	160	3-7/8"	100				
HTP-S-FH-PT-8.0×180			7-1/8"	180						
HTP-S-FH-PT-8.0×200			7-7/8"	200						
HTP-S-FH-PT-8.0×220			8-5/8"	220						
HTP-S-FH-PT-8.0×240			9-1/2"	240						
HTP-S-FH-PT-8.0×260			10-1/4"	260						
HTP-S-FH-PT-8.0×280			11"	280						
HTP-S-FH-PT-8.0×300			11-3/4"	300						

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
HTP-S-FH-FT-8.0×40	5/16"	8.0	1-5/8"	40	1-3/8"	34	11/16"	18.0	T40	50
HTP-S-FH-FT-8.0×50			2"	50	1-3/4"	44				
HTP-S-FH-FT-8.0×60			2-3/8"	60	2-1/8"	54				
HTP-S-FH-FT-8.0×80			3-1/8"	80	2-7/8"	74				
HTP-S-FH-FT-8.0×100			3-7/8"	100	3-3/4"	94				
HTP-S-FH-FT-8.0×120			4-3/4"	120	4-1/2"	114				

Note: Short lengths may resemble full thread configuration.

Products with HTP-S-FH-FT designation do not have shank ribs and are threaded to within 3/8" of the head.

CC

Innovative double thread screws for efficient timber connections

Combination connect is what gives the system CC its name and it comes from the innovative double thread geometry of the screw. The double thread, which has different thread pitch and thread diameter on the point side of the fastener vs. the head side of the fastener creates a contraction effect when joining two timber members together; resulting in extremely tight, secure connections.

Tried and tested for many years in Europe, the CC system opens the door for a wide array of connection possibilities, even when making angled connections. The sleek cylinder head can be embedded into the timber member, resulting in a basically invisible connection. Particularly when used in crossing pairs, the system CC can create strong, reliable connections without the need for additional steel components. Tight, reliable connections that can be made virtually invisible, while eliminating the need for ancillary steel connection components make the CC system one of the most innovative and efficient timber connection systems available.

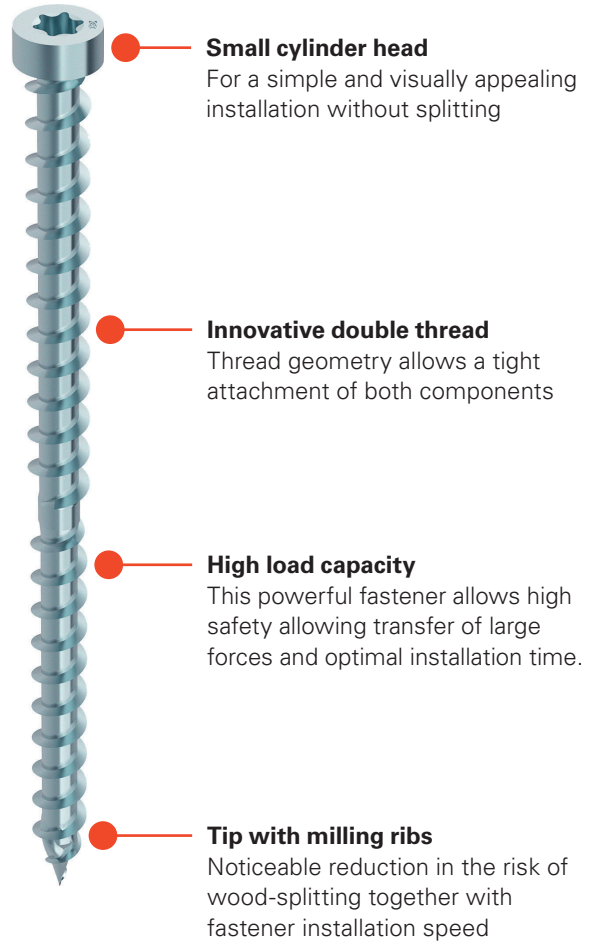
Product Information

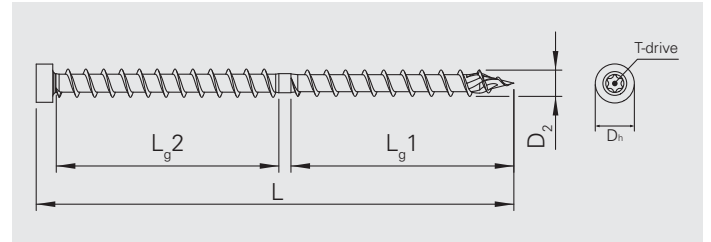
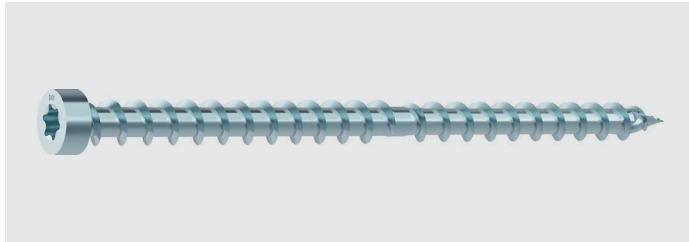
- Very high load transfer
 - Fast installation
 - Varied pitch double thread tightly draws members together
 - Low edge and spacing distances
-

Design

SFS provides guidance during the design and construction phase.

Approvals





Features

- Cylinder head
- T-drive
- Double thread
- Bright zinc plated, A3K

Approvals



Material

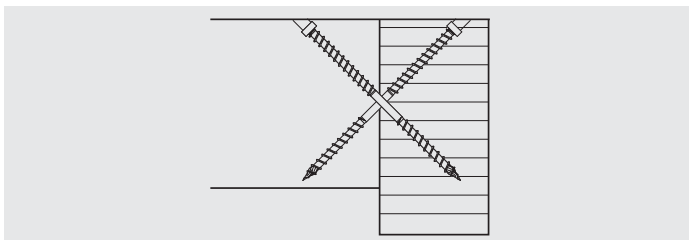


1/4" (6.5 mm) and 5/16" (8.5 mm) Carbon steel timber fastener

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
CC-TCH-DT-6.5×100	1/4"	6.5	3-7/8"	100	1-3/4"	45	3/8"	9.0	T30	100
CC-TCH-DT-6.5×130			5-1/8"	130	2-3/8"	60				
CC-TCH-DT-6.5×150			5-7/8"	150	2-3/4"	70				
CC-TCH-DT-6.5×190			7-1/2"	190	3-1/2"	90				
CC-TCH-DT-6.5×215			8-1/2"	215	3-7/8"	100				

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
CC-TCH-DT-8.5×100	5/16"	8.5	3-7/8"	100	1-3/4"	45	1/2"	12.0	T40	100
CC-TCH-DT-8.5×150			5-7/8"	150	2-3/4"	70				
CC-TCH-DT-8.5×190			7-1/2"	190	3-1/2"	90				
CC-TCH-DT-8.5×215			8-1/2"	215	3-7/8"	100				
CC-TCH-DT-8.5×250			9-7/8"	250	4-3/8"	110				
CC-TCH-DT-8.5×270			10-5/8"	270	4-3/4"	122				
CC-TCH-DT-8.5×300			11-3/4"	300	5-3/8"	138				
CC-TCH-DT-8.5×350			13-3/4"	350	6-1/4"	158				
CC-TCH-DT-8.5×400			15-3/4"	400	7-1/8"	182				

*2 threads each of this length.



WR

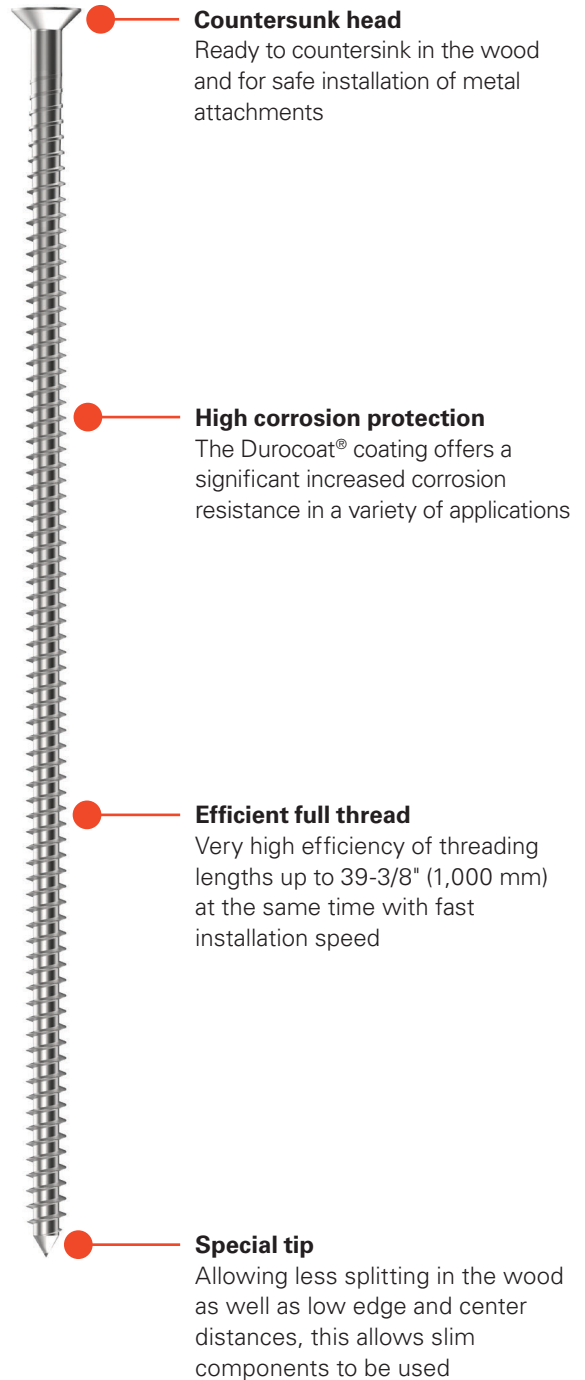
The full thread fastener for powerful connections and reinforcements

The WR is a 1/2" diameter, fully threaded screw that is available in lengths up to 39", making it the ideal solution for unique, high load connections and structural reinforcements. The high efficiency of the WR is derivative of its incredibly high mechanical properties in tension and bending, while still being able to be installed without pre-drilling. This all results in using fewer fasteners and installing them quicker, reducing the installed cost; WR is truly a powerful connection.

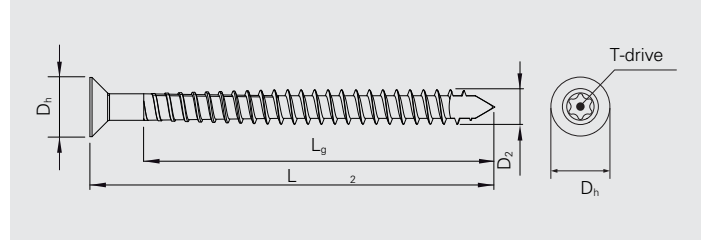
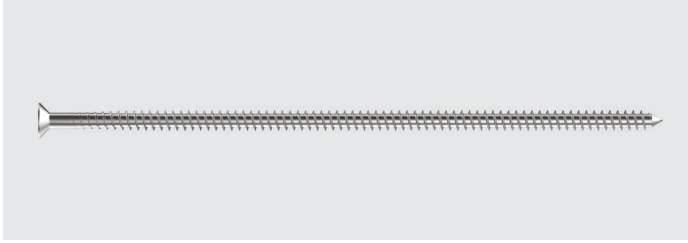
Product Information

- Up to 39-3/8" (1,000 mm) in length
- No pre-drilling required
- High corrosion resistance
- High technical values
- Low tendency to crack with low edge and spacing

Approvals



WR



Features

- Countersunk head
- T-drive
- Full thread
- Durocoat®

Approvals



Material



1/2" (13 mm) Carbon steel timber fastener

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive ^(*)	Carton qty
	in	mm	in	mm	in	mm	in	mm		
WR-T-CS-FT-13.0×400	1/2"	13.0	15-3/4"	400	15"	380	7/8"	22.0	T50	25
WR-T-CS-FT-13.0×500			19-5/8"	500	18-7/8"	480				
WR-T-CS-FT-13.0×600			23-5/8"	600	22-7/8"	580				
WR-T-CS-FT-13.0×700			27-1/2"	700	26-3/4"	680				
WR-T-CS-FT-13.0×800			31-1/2"	800	30-3/4"	780				
WR-T-CS-FT-13.0×900			35-3/8"	900	34-5/8"	880				
WR-T-CS-FT-13.0×1000			39-3/8"	1,000	38-5/8"	980				

The self-drilling dowel system for an economical wood-steel connection

The WS system allows you to create high quality and economical wood-steel connections.

The self-drilling dowels are installed in a single operation, saving time and money since neither the timber or steel plates require pre-drilling. With a drilling capacity of up to 3 × 0.197" (3 × 5 mm) steel sheets or a single 0.394" (10 mm) steel sheet (quality: ASTM A283 Grade C), a wide range of durable concealed connections are possible. The proprietary assembled drill tip configuration provides extremely reliable drill performance through even very thick steel sections while maintaining a high combination of bending yield and ductility within the dowel itself.

When installed the dowel does not break through the back of the connection and there is simple and reliable concealed connections.

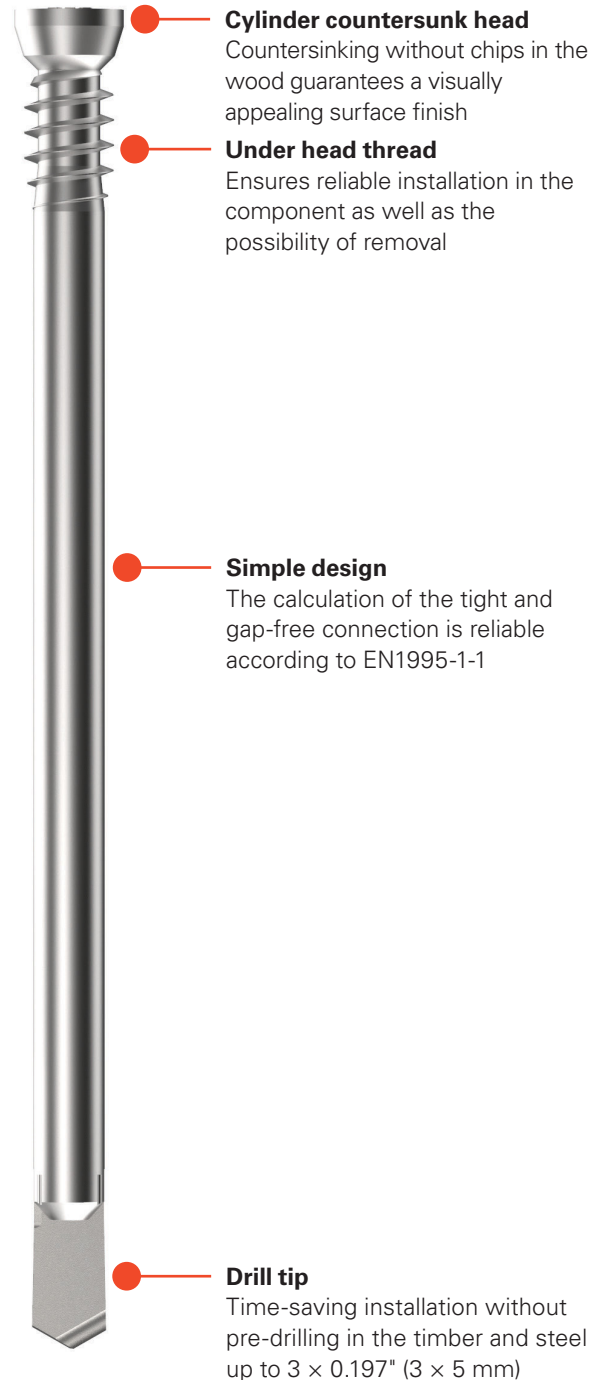
Product Information

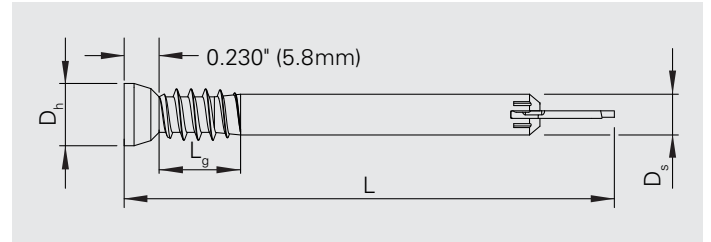
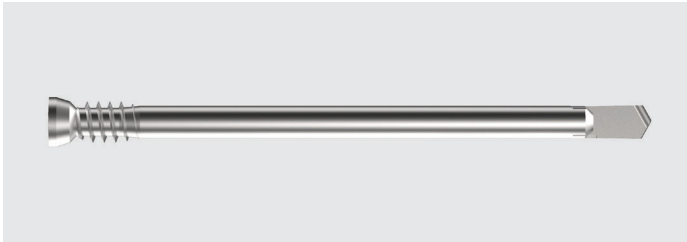
- Self-drilling with the special drill tip
- Removable
- Simple design
- High bending yield $F_{yb}=78.5$ ksi (541 MPa)
- High fire resistance

Approvals



EN14592





Features

- Cylinder countersunk head
- T-drive
- Bright zinc plated, A2K
- Self-drilling dowel

Approvals



Material



1/4" (7 mm) Carbon steel timber fastener

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
WS-T.70×73	1/4"	7.0	2-7/8"	73	1/2"	13	3/8"	10.0	T40	100
WS-T.70×93			3-5/8"	93						
WS-T.70×113			4-1/2"	113						
WS-T.70×133			5-1/4"	133						
WS-T.70×153			6"	153						
WS-T.70×173			6-3/4"	173						
WS-T.70×193			7-5/8"	193						
WS-T.70×213			8-3/8"	213						
WS-T.70×233			9-1/8"	233						

Accessories

Using suitable installation tools is recommended



Product code	Description	Material no.
CF-WS/M	Manual setting tool with dowel guidance	1236515
CF-WS/P	Pneumatically supported frame setting tool	730772

WB

Threaded rod system for maximum efficiency in tension and compression reinforcements

With the WB system, a diverse variety of reinforcement applications become feasible. For example: cross connections, notches, curved beams, main-secondary beams, etc.

Thanks to the very high tensile strength, aggressive thread geometry and large diameters; fewer threaded rods are needed, saving time and money. Load transmission is achieved strictly by the direct engagement of the coarse thread with the timber member; so the time-consuming, messy process of applying glue is eliminated. The option to cut the rods to custom lengths and the extensive complimentary installation accessories offer the greatest possible application flexibility and customer benefit.

Product Information

- Headless threaded rod
 - High tensile strength of 115 ksi (800N/mm²)
 - Available cut to length
 - Easy application without glue
 - Concealed connections and reinforcement
-

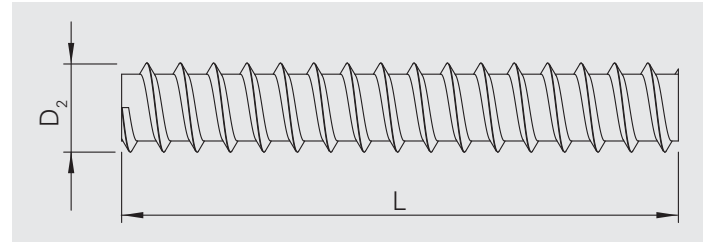
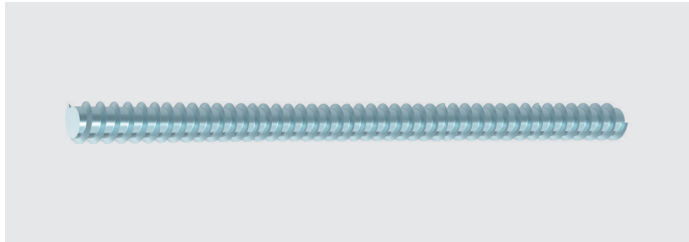
Cut to length

We can take care of the exact cut for you. Your advantages: no preliminary work, no cuttings, maximum economy.

Approvals



- **Headless threaded rod**
Full embedment in the joint allows high fire resistance
- **Available cut to length**
For a diverse range of applications and a reliable connection
- **Extensive range of accessories**
Whether screw-in sleeves or drilling aids. Even demanding applications succeed efficiently and reliably
- **Powerful thread**
The wood thread manufactured according to DIN 7998 offers a very high tensile strength of 115 ksi (800 N/mm²)



Features

- Headless
- Full thread
- Bright zinc plated, A2K
- Threaded rod

Approvals



Material

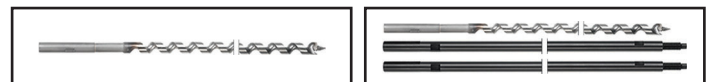


Carbon steel timber fastener

Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
WB-T-16.0×3.000	5/8"	16.0	118-1/8"	3,000	118-1/8"	3,000	-	-	-	5
WB-T-20.0×3.000	13/16"	20.0								

Accessories

Using suitable installation tools is recommended



Product code	Description	Qty.	Material no.
DWA-12-M7	Drill bit for WB-T-16	1	1119336
DWA-15-M9	Drill bit for WB-T-20		1119337
DWA-12-ZA-SET	Drill set for WB-T-16		1112594
DWA-15-ZA-SET	Drill set for WB-T-20		1112595



Product code	Description	Qty.	Material no.
ZE-16-WB	Insertion sleeve Ø16 mm Setting tool with 1/2" socket wrench drive	1	1039597
ZE-16-WB-blunt	Insertion sleeve Ø16 mm Setting tool with 1/2" socket wrench drive		1333186
ZE-20-WB	Insertion sleeve Ø20 mm Setting tool with 1/2" socket wrench drive		1039598

VB

The leading and proven method for timber-concrete composite floors

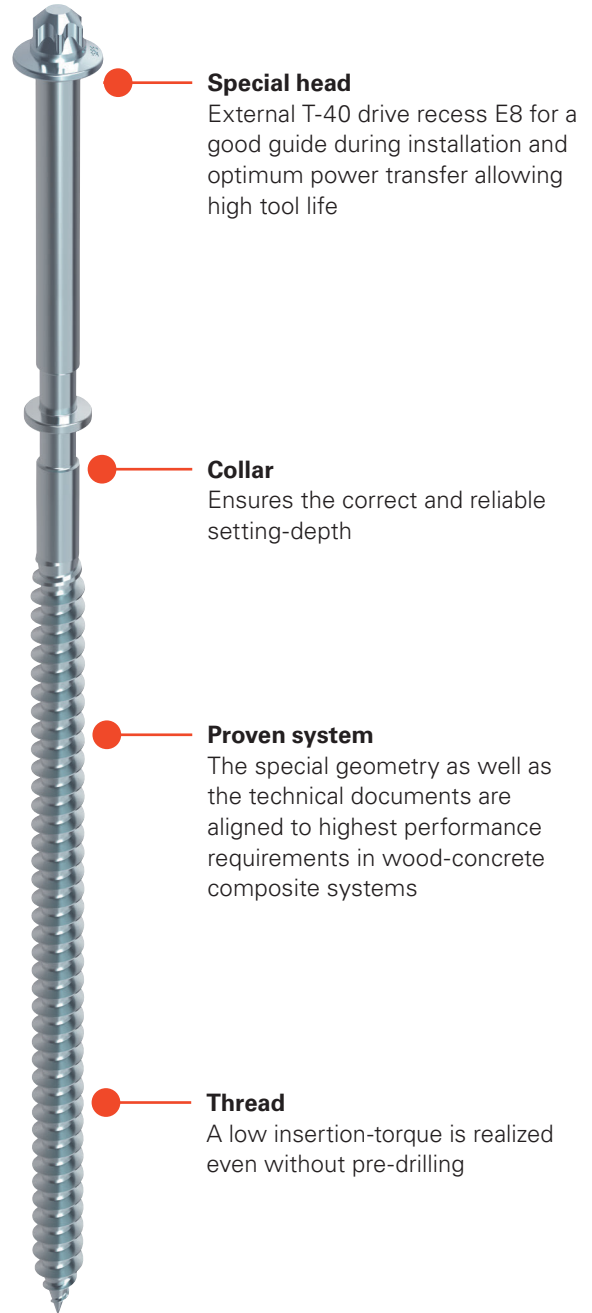
The production of timber-concrete composite systems can be done simple, safe and economically with the help of VB-mounting solutions by SFS.

The complex fastener geometry developed and manufactured for this application ensures proper function in this demanding application. Coupled with ergonomic installation tools, comfortable and precise angled installation is achieved, ensuring the proper composite action. Speed and reliability of the system VB make it the most cost effective way to achieve timber-concrete composite structures in new or existing construction.

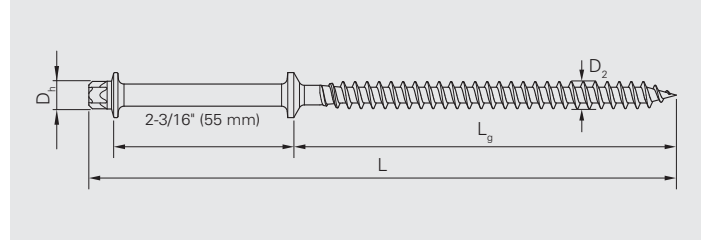
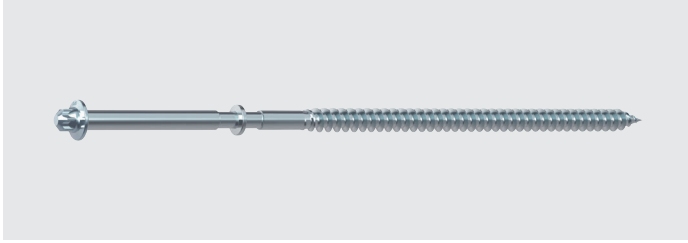
Product Information

- Very high efficiency
- Highest security
- Maximum installation comfort
- For renovation and new build construction

Approvals



VB



Features

- Special head
- T-drive
- Partial thread
- Bright zinc plated, A2K
- Timber-concrete composite

Approvals



Material



5/16" (7.5 mm) Carbon steel timber fastener

Product code* Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head dia. (D _h)		Drive	Carton qty
	in	mm	in	mm	in	mm	in	mm		
VB-48-7.5×100	5/16"	7.5	6-1/8"	155	4"	100	1/2"	12.0	external T40	100
VB-48-7.5×165			8-5/8"	220	6-1/2"	165				

*Product code length designation reflects thread length (lg). Unthreaded upper length (lu) remains fixed at 55 mm for both nominal lengths 155 and 220.

Accessories

Using suitable installation tools is recommended



Product code	Description	Qty.	Material no.
CF-VB/L	Stand-up setting tool	1	1130228
V40-15VB	Insert bit	1	98173
ZA1/4"-CF-WS/M	Magnetic bit holder	1	1659455













Accessories

SCS Intec s.r.o.
Czech Republic - 420 885 886 111
Tel: phone numbers of sales offices: 71 71 71 71 71 71
E-mail: info@scsintec.cz
www.scsintec.cz




Accessories

Special HD bits

for ultimate drive stability when installing SFS timber fasteners



	Product	Description	Drive	Qty.	Material no.
	HD-20 drive bit	1/4" HEX×2"	T20 wedgefit	3	1205168
	HD-30 drive bit		T30 wedgefit		1205169
	HD-40 drive bit		T40 wedgefit		1205170
	HD-20 drive bit	1/4" HEX×1"	T20 wedgefit	10	1205164
	HD-25 drive bit		T25 wedgefit		1205165
	HD-30 drive bit		T30 wedgefit		1205166
	HD-40 drive bit		T40 wedgefit		1205167
	Bit-set-HD-11×	Bit Box "Selector" 1× HD10,15,25 2× HD30,40 3× HD20 1× ClicFix bit holder	-	1	1205178
	Magic flip, magnetic	1/4"	HEX×8"		1205175
	ClicFix, magnetic				1205057

HTP and WR bits








	Product	Description	Drive	Qty.	Material no.
	ZA HEX 11.5-5/16-WR	Telescoping drive bit assembly holds fastener head captive for effortless installation	-	1	1205173
	T40 drive bit*	5/16"×2"	T40*		1205176
	T50 drive bit*				1205177

*Use independent or with ZA HEX tool 5/16"

HTP washers

	Product	Diameter	Qty.	Material no.
	HTP countersunk head 90° washer	8mm screw/ 25mm washer	1	1204958
	HTP countersunk head 90° washer	10mm screw/ 30mm washer		1204959

WB bits and insertion sleeves

	Product	Description	Qty.	Material no.
	DWA-12-M7	Drill bit for WB-T16	1	1119336
	DWA-15-M9	Drill bit for WB-T20		1119337
	DWA-12-ZA-SET	Drill set for WB-T16		1112594
	DWA-15-ZA-SET	Drill set for WB-T20		1112595
	ZE-16-WB	Insertion sleeve Ø16 mm Setting tool with 1/2" socket wrench drive		1039597
	ZE-16-WB-blunt	Insertion sleeve Ø16 mm Setting tool with 1/2" socket wrench drive		1333186
	ZE-20-WB	Insertion sleeve Ø20 mm Setting tool with 1/2" socket wrench drive	1039598	

CF-VB/L



Technical Data

Material no.	1119336
Power supply	230 V
Absorbed power	1100 W
Full load regime	2800 rpm
Overall length	9.4"/240 mm
Height	39.7"/1008 mm
Weight	9.5 lbs/4.3 kg
Angle control	45° level on tool

Application

Manual laying machine for VB connectors.

DWA-Box



Technical Data

Aluminum guide and wick support straps
Drill length 1500 mm
Drill length 2300 mm
Compressed air connection for chip evacuation

Application

Rod air drill kit for WB. Provided with 16 mm screwdriver chuck.

Product code	Drill diameter	Qty.	Material no.
DWA-12-BOX	12	1	1170391
DWA-15-BOX	16		1358172
DWA-12-15-BOX	12 and 16		1067217

CF-WS/P



Technical Data

Material no.	1017417
Power supply	230 V
Absorbed power	1200 W
Full load regime	1600 rpm
Weight	193 lbs/87.5 kg

Application

Installation machine with pneumatic assistance for fast and economical installation of WS pins.

CF-WS/M



Technical Data

Material no.	1067215
Power supply	230 V
Absorbed power	1200 W
Full load regime	1600 rpm
Overall length	16"/410 mm
Height	31"/790 mm
Weight	17 lbs/7.5 kg

Application

WS manual pin setting machine.

SFS Group USA, Inc.
Division Construction
1045 Spring Street
US-Wyomissing, PA 19610

800 234 4533
T +1 610 790 2620
F +1 610 376 8551
us.construction@sfs.com
us.sfs.com

SFS – Canada
40 Innovation Drive
Dundas, ON L9H 7P3

866 847 5400
T +1 905 689 5401
ca.info@sfs.com
ca.sfs.com



All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes. (08/2023, V1.03, TW7001)