



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.


We estimate, based on 2019-2020 print activities, that these initiatives will have the following annual impact:

 59.7 US Short tons less, a difference of 358.2 trees


Wood use: measures the amount of wood required to produce a given amount of paper.

 147.8 million BTUs less, a difference of 174.9 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 156,700 pounds CO2 equivalent less, a difference of 14.3 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.

 26,000 gallons less, a difference of 19.4 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.

 960 pounds less, a difference of 217 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.



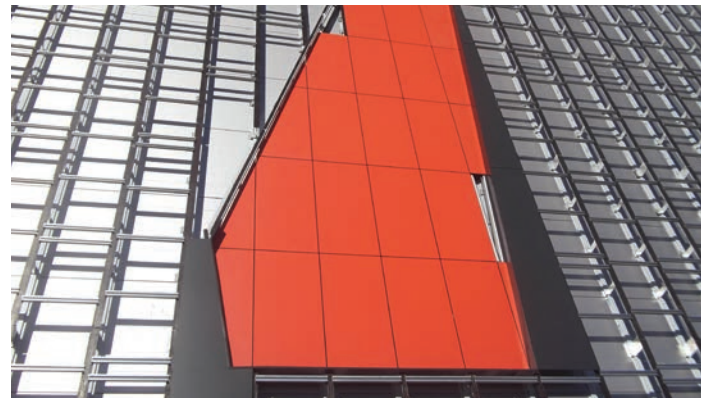
Low Slope Roofing

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.



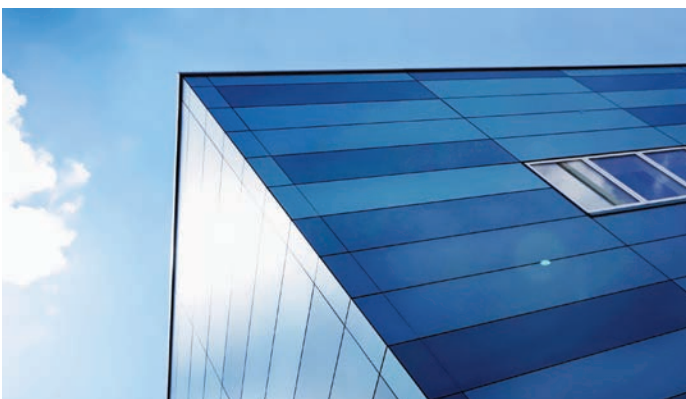
Roofing and Cladding

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.



Hinge Technology and Fenestration

SFS manufactures high quality hinges for internal and external doors and windows across a wide range of material types including UPVC, timber, composite and metal.

Mass timber hardware manufacturing specialist



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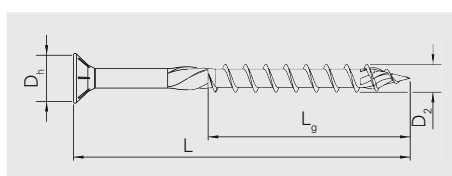
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Product geometry

Designed with a wide range of variants ensuring a suitable fastener is available for your project, all providing an economic and long lasting solution.

Legend

Fastener dimensions






D_2 Diameter
 L Nominal length
 L_g Thread length
 D_h Head diameter

Coatings

A2K = Fe/Zn5B per ASTM F1941
A3K = Fe/Zn8B per ASTM F1941
Duracoat = Zinc rich organic multi-coat process for optimum corrosion resistance

Material

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

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

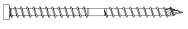


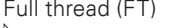




Product code

Type	D_2 (mm)	L (mm)
HT-T-CS-PT	8,0	220
		Nominal length
		Diameter - outer thread
		Thread
		PT = Partial thread
		FT = Full thread
		DT = Double thread
		VFT = Variable full thread with "magic close effect"
		Head Style
		CS = Countersunk
		FH = Flange head
		CH = Cylindrical head
		H = Combination hexagon head
		Material
		T = Tempered carbon steel
		S = Stainless steel















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
HT = Heavy timber: core products for variety of timber connections

Fastener matrix

Screw type	Thread type	Diameter	Length range available, in (mm)			
CC	Double thread (DT) 	1/4" (6.5)	—	—	—	3-7/8" to 8-1/2" (100–215)
		5/16" (8.5)	—	—	—	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)	—	—	—
HT	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)	—
	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)
		Head type	Countersunk head (CS) HT with milling pockets WR without milling pockets 	CombiHexagon head (HH) with internal T-drive 	Flange Head (FH) raised flange 	Cylinder head (CH) 

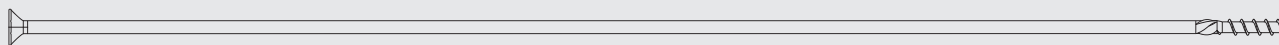
Connection matrix

Glulam or timber		•	•	•	•	•	•	•	•	—	—	—	—
		•	•	•	—	•	•	•	•	—	—	—	—
CLT		•	•	•	•	•	•	•	•	•	—	•	—
		•	—	•	•	•	•	•	•	—	—	—	—
	 V	 H	 V	 H	 V	 H	 V	 H	 V	—	 V	—	—
	CLT		Glulam or timber		Concrete		Structural Steel		Wood Framing		Light Gauge Steel Framing		

Fastener overview

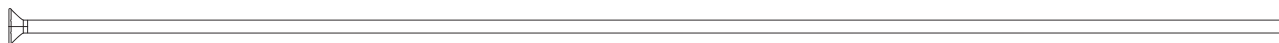
HT-T-CS-PT-6xL

1/4" countersunk partial thread



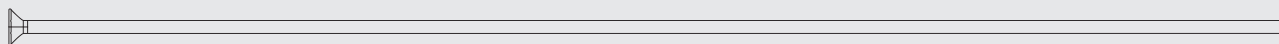
HT-T-CS-PT-8xL

5/16" countersunk partial thread



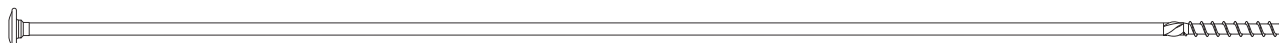
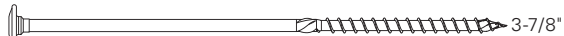
HT-T-CS-PT-10xL

3/8" countersunk partial thread



HT-T-FH-PT-6xL

1/4" flange head partial thread



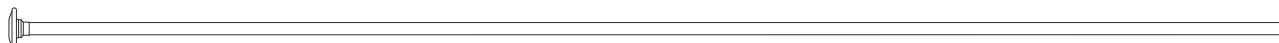
HT-T-FH-FT-8xL

5/16" flange head full thread



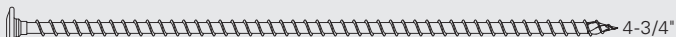
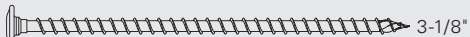
HT-T-FH-PT-8xL

5/16" flange head partial thread



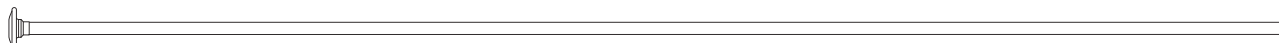
HT-T-FH-FT-10xL

3/8" flange head full thread



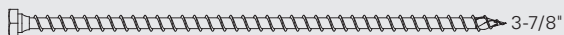
HT-T-FH-PT-10xL

3/8" flange head partial thread



HT-T-H-FT-8xL

5/16" hex head full thread



HT-T-H-PT-8xL

5/16" hex head partial thread



HT-T-H-FT-10xL

3/8" hex head full thread



HT-T-H-PT-10xL

3/8" hex head partial thread



0"	1"	2"	3"	4"	5"	6"	7"	8"	9"
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11-3/4"

19-5/8"

19-5/8"

11-3/4"

19-5/8"

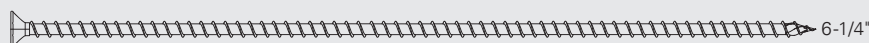
15-3/4"

10"	11"	12"	13"	14"	15"	16"	17"	18"	19"	38"	39"
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Fastener overview continued

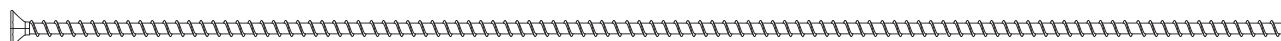
HT-T-CS-FT-6xL

1/4" countersunk full thread



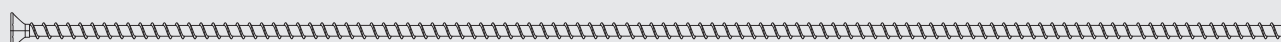
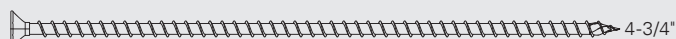
HT-T-CS-FT-8xL

5/16" countersunk full thread



HT-T-CS-FT-10xL

3/8" countersunk full thread



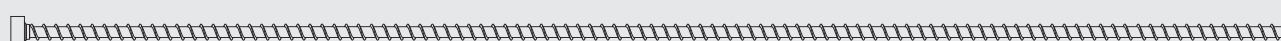
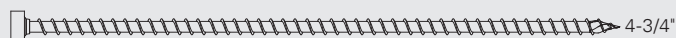
HT-T-CH-FT-6xL

1/4" cylinder head full thread



HT-T-CH-FT-8xL

5/16" cylinder head full thread



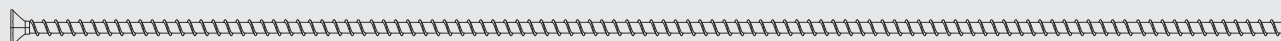
HT-T-CH-FT-10xL

3/8" cylinder head full thread



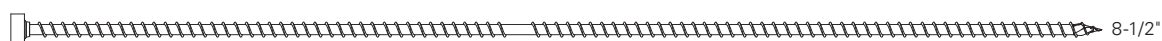
WR-T-CS-FT-13xL

1/2" countersunk full thread



HT-T-CH-CC-6xL

1/4" cylinder head double thread



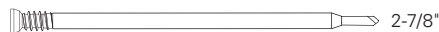
HT-T-CH-CC-8xL

5/16" cylinder head double thread



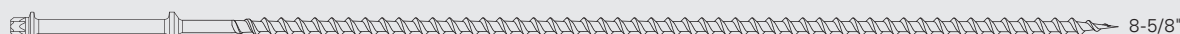
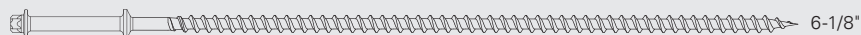
WS-T-7xL

1/4" self-drilling dowel with cylinder head

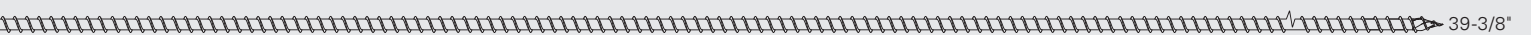
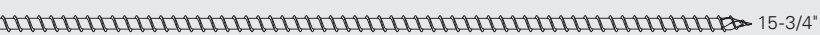
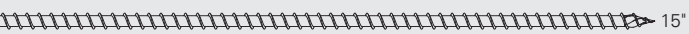


VB-48-7.5xL

5/16" timber-concrete composite with external T-drive



0"	1"	2"	3"	4"	5"	6"	7"	8"	9"
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10"	11"	12"	13"	14"	15"	16"	17"	18"	19"	38"	39"
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SFS HT partial thread

Value engineered for ultimate efficiency

Designers and installers alike can appreciate the wide range of timber connection possibilities within the HT range. Generally used in laterally loaded connections, HT 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 HT screw.

The revolutionary point and shank geometry of HT 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; HT partially threaded screws epitomize value engineering, while ensuring the most secure connections.

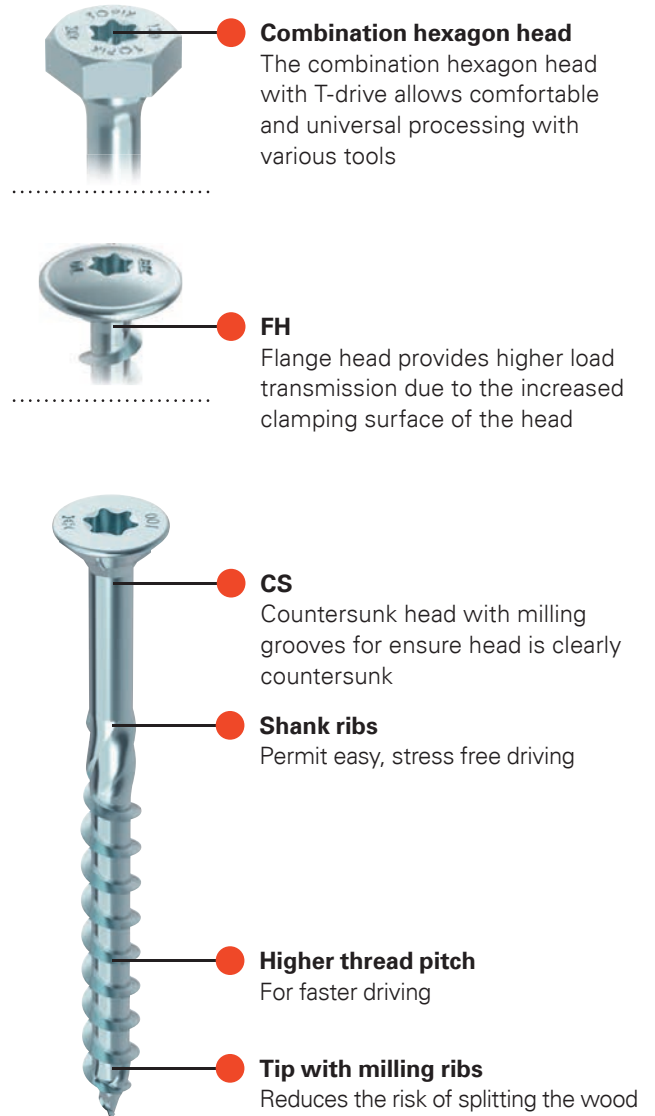
Product Information

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

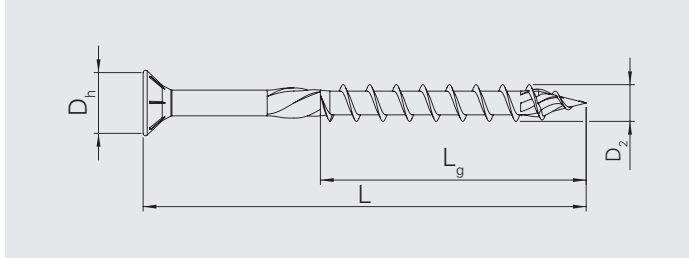
Approvals



For use in
dry, interior
applications



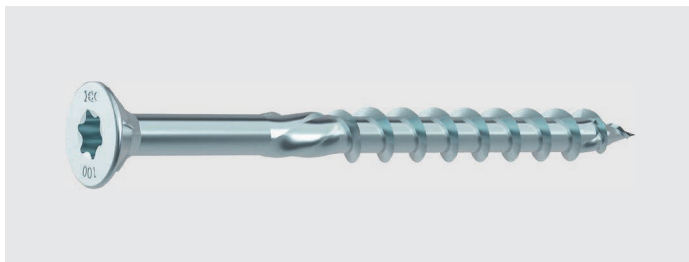
SFS HT countersunk



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

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

CHROME (VI) FREE +

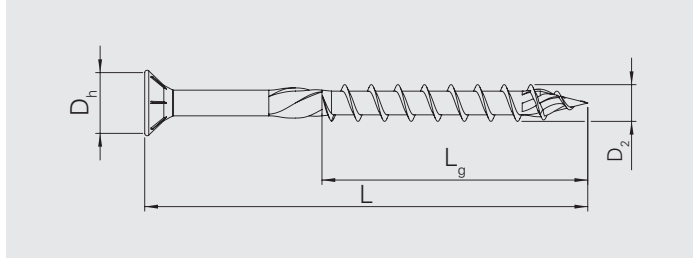


ICC
ES
ESR-4480



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ★	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-CS-PT-6.0x50	1/4"	6.0	2"	50	1-1/8"	30	7/16"	11.7	T-30	200
HT-T-CS-PT-6.0x60	1/4"	6.0	2-3/8"	60	1-3/8"	36	7/16"	11.7	T-30	200
HT-T-CS-PT-6.0x70	1/4"	6.0	2-3/4"	70	1-5/8"	42	7/16"	11.7	T-30	200
HT-T-CS-PT-6.0x80	1/4"	6.0	3-1/8"	80	1-7/8"	48	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x90	1/4"	6.0	3-1/2"	90	2-1/8"	54	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x100	1/4"	6.0	3-7/8"	100	2-3/8"	60	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x110	1/4"	6.0	4-3/8"	110	2-5/8"	66	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x120	1/4"	6.0	4-3/4"	120	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x130	1/4"	6.0	5-1/8"	130	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x140	1/4"	6.0	5-1/2"	140	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x150	1/4"	6.0	5-7/8"	150	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x160	1/4"	6.0	6-1/4"	160	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x180	1/4"	6.0	7-1/8"	180	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x200	1/4"	6.0	7-7/8"	200	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x220	1/4"	6.0	8-5/8"	220	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x240	1/4"	6.0	9-1/2"	240	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x260	1/4"	6.0	10-1/4"	260	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x280	1/4"	6.0	11"	280	2-7/8"	72	7/16"	11.7	T-30	100
HT-T-CS-PT-6.0x300	1/4"	6.0	11-3/4"	300	2-7/8"	72	7/16"	11.7	T-30	100

SFS HT countersunk



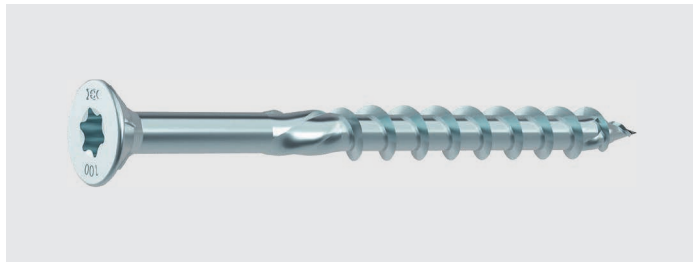
Countersunk head with milling grooves | T-drive | Partial thread
Bright zinc plated, A3K | Carbon steel

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

CHROME (VI) FREE +

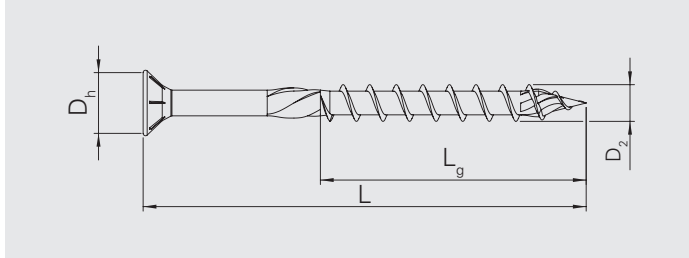


ICC
ES
ESR-4480



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ✳	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-CS-PT-8.0x80	5/16"	8.0	3-1/8"	80	2-3/8"	60	9/16"	14.8	T-40	100
HT-T-CS-PT-8.0x90	5/16"	8.0	3-1/2"	90	2-3/8"	60	9/16"	14.8	T-40	100
HT-T-CS-PT-8.0x100	5/16"	8.0	3-7/8"	100	2-3/8"	60	9/16"	14.8	T-40	100
HT-T-CS-PT-8.0x120	5/16"	8.0	4-3/4"	120	2-7/8"	72	9/16"	14.8	T-40	100
HT-T-CS-PT-8.0x140	5/16"	8.0	5-1/2"	140	2-7/8"	72	9/16"	14.8	T-40	100
HT-T-CS-PT-8.0x160	5/16"	8.0	6-1/4"	160	3-7/8"	100	9/16"	14.8	T-40	100
HT-T-CS-PT-8.0x180	5/16"	8.0	7-1/8"	180	3-7/8"	100	9/16"	14.8	T-40	100
HT-T-CS-PT-8.0x200	5/16"	8.0	7-7/8"	200	3-7/8"	100	9/16"	14.8	T-40	100
HT-T-CS-PT-8.0x220	5/16"	8.0	8-5/8"	220	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x240	5/16"	8.0	9-1/2"	240	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x260	5/16"	8.0	10-1/4"	260	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x280	5/16"	8.0	11"	280	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x300	5/16"	8.0	11-3/4"	300	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x320	5/16"	8.0	12-5/8"	320	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x340	5/16"	8.0	13-3/8"	340	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x360	5/16"	8.0	14-1/8"	360	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x380	5/16"	8.0	15"	380	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x400	5/16"	8.0	15-3/4"	400	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x420	5/16"	8.0	16-1/2"	420	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x460	5/16"	8.0	18-1/8"	460	3-7/8"	100	9/16"	14.8	T-40	50
HT-T-CS-PT-8.0x500	5/16"	8.0	19-5/8"	500	3-7/8"	100	9/16"	14.8	T-40	50

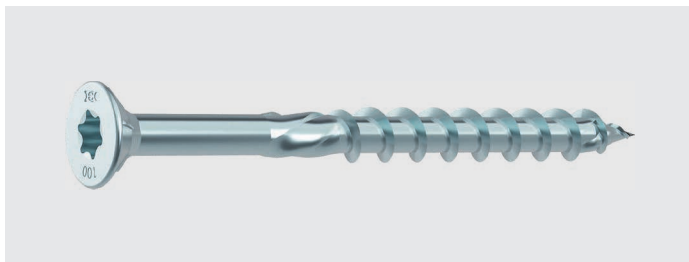
SFS HT countersunk



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

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

CHROME (VI) FREE +

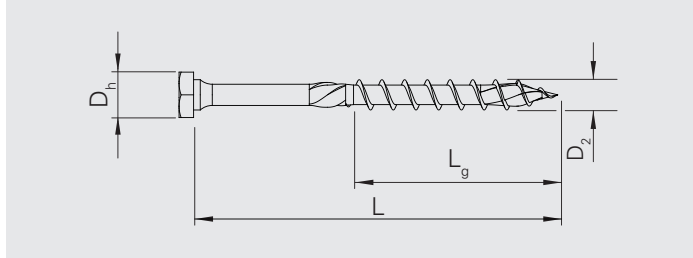


ICC
ES
ESR-4480



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ✳	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-CS-PT-10.0x80	3/8"	10.0	3-1/8"	80	2-3/8"	60	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x100	3/8"	10.0	3-7/8"	100	3-1/4"	84	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x120	3/8"	10.0	4-3/4"	120	3-1/4"	84	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x140	3/8"	10.0	5-1/2"	140	3-1/4"	84	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x160	3/8"	10.0	6-1/4"	160	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x180	3/8"	10.0	7-1/8"	180	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x200	3/8"	10.0	7-7/8"	200	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x220	3/8"	10.0	8-5/8"	220	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x240	3/8"	10.0	9-1/2"	240	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x260	3/8"	10.0	10-1/4"	260	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x280	3/8"	10.0	11"	280	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x300	3/8"	10.0	11-3/4"	300	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x320	3/8"	10.0	12-5/8"	320	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x340	3/8"	10.0	13-3/8"	340	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x360	3/8"	10.0	14-1/8"	360	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x380	3/8"	10.0	15"	380	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x400	3/8"	10.0	15-3/4"	400	3-7/8"	100	3/4"	18.5	T-40	50
HT-T-CS-PT-10.0x420	3/8"	10.0	16-1/2"	420	3-7/8"	100	3/4"	18.5	T-40	25
HT-T-CS-PT-10.0x460	3/8"	10.0	18-1/8"	460	3-7/8"	100	3/4"	18.5	T-40	25
HT-T-CS-PT-10.0x500	3/8"	10.0	19-5/8"	500	3-7/8"	100	3/4"	18.5	T-40	25

SFS HT combination hexagon head



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

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

CHROME (VI) FREE +



Full thread

Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-H-FT-8.0x50	5/16"	8.0	2"	50	1-5/8"	42	1/2"	13.0	13 mm hex/T-40	100
HT-T-H-FT-8.0x60	5/16"	8.0	2-3/8"	60	2"	52	1/2"	13.0	13 mm hex/T-40	100
HT-T-H-FT-8.0x70	5/16"	8.0	2-3/4"	70	2-3/8"	62	1/2"	13.0	13 mm hex/T-40	50
HT-T-H-FT-8.0x80	5/16"	8.0	3-1/8"	80	2-7/8"	72	1/2"	13.0	13 mm hex/T-40	50
HT-T-H-FT-8.0x100	5/16"	8.0	3-7/8"	100	3-1/2"	92	1/2"	13.0	13 mm hex/T-40	50
HT-T-H-FT-10.0x60	3/8"	10.0	2-3/8"	60	2"	50	9/16"	15.0	15 mm hex/T-40	50
HT-T-H-FT-10.0x70	3/8"	10.0	2-3/4"	70	2-3/8"	60	9/16"	15.0	15 mm hex/T-40	50
HT-T-H-FT-10.0x80	3/8"	10.0	3-1/8"	80	2-3/4"	70	9/16"	15.0	15 mm hex/T-40	50
HT-T-H-FT-10.0x100	3/8"	10.0	3-7/8"	100	3-1/2"	90	9/16"	15.0	15 mm hex/T-40	50

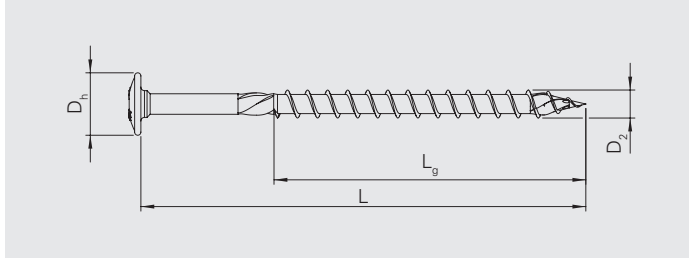
Partial thread

Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-H-PT-8.0x120	5/16"	8.0	4-3/4"	120	2-7/8"	72	1/2"	13.0	13 mm hex/T-40	50
HT-T-H-PT-8.0x140	5/16"	8.0	5-1/2"	140	3-1/4"	84	1/2"	13.0	13 mm hex/T-40	50
HT-T-H-PT-10.0x120	3/8"	10.0	4-3/4"	120	2-7/8"	72	9/16"	15.0	15 mm hex/T-40	50
HT-T-H-PT-10.0x140	3/8"	10.0	5-1/2"	140	3-1/4"	84	9/16"	15.0	15 mm hex/T-40	50

Note: Short lengths may resemble full thread configuration.

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

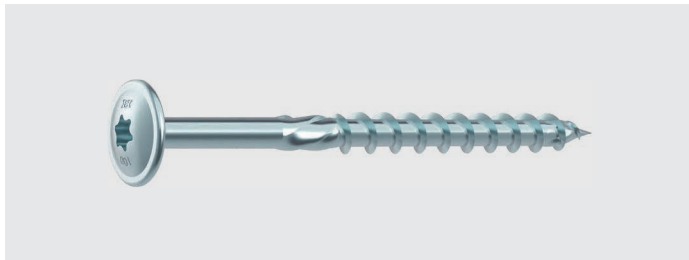
SFS HT flange head



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

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

CHROME (VI) FREE +

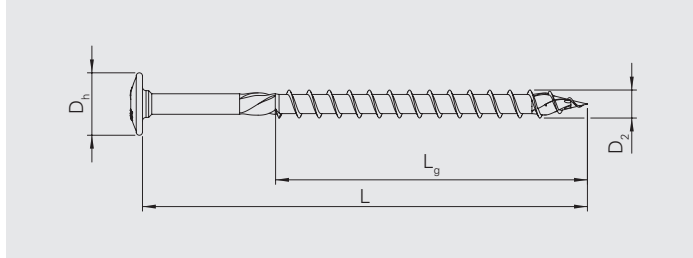


ICC
ES
ESR-4480



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ★	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-FH-PT-6.0x100	1/4"	6.0	3-7/8"	100	2-3/8"	60	9/16"	14.0	T-30	100
HT-T-FH-PT-6.0x120	1/4"	6.0	4-3/4"	120	2-7/8"	72	9/16"	14.0	T-30	100
HT-T-FH-PT-6.0x140	1/4"	6.0	5-1/2"	140	2-7/8"	72	9/16"	14.0	T-30	100
HT-T-FH-PT-6.0x160	1/4"	6.0	6-1/4"	160	2-7/8"	72	9/16"	14.0	T-30	100
HT-T-FH-PT-6.0x180	1/4"	6.0	7-1/8"	180	2-7/8"	72	9/16"	14.0	T-30	100
HT-T-FH-PT-6.0x200	1/4"	6.0	7-7/8"	200	2-7/8"	72	9/16"	14.0	T-30	100
HT-T-FH-PT-6.0x220	1/4"	6.0	8-5/8"	220	2-7/8"	72	9/16"	14.0	T-30	100
HT-T-FH-PT-6.0x240	1/4"	6.0	9-1/2"	240	2-7/8"	72	9/16"	14.0	T-30	100
HT-T-FH-PT-6.0x260	1/4"	6.0	10-1/4"	260	2-7/8"	72	9/16"	14.0	T-30	100
HT-T-FH-PT-6.0x280	1/4"	6.0	11-1/8"	280	2-7/8"	72	9/16"	14.0	T-30	100
HT-T-FH-PT-6.0x300	1/4"	6.0	11-3/4"	300	2-7/8"	72	9/16"	14.0	T-30	100

SFS HT flange head



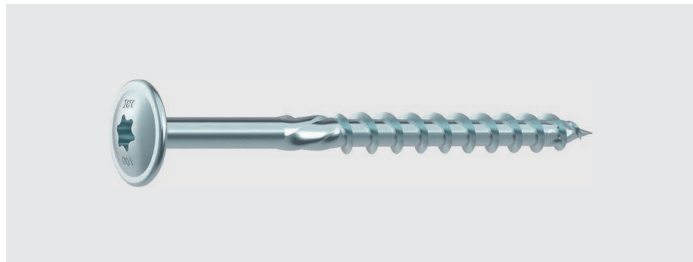
Flange head | T-drive | Partial or full thread
Bright zinc plated, A3K | Carbon steel

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

CHROME (VI) FREE +



ICC
ES
ESR-4480



Full thread

Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive T-40	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-FH-FT-8.0x80	5/16"	8.0	3-1/8"	80	2-7/8"	74	11/16"	18.0	T-40	50
HT-T-FH-FT-8.0x100	5/16"	8.0	3-7/8"	100	3-3/4"	94	11/16"	18.0	T-40	50
HT-T-FH-FT-8.0x120	5/16"	8.0	4-3/4"	120	4-1/2"	114	11/16"	18.0	T-40	50

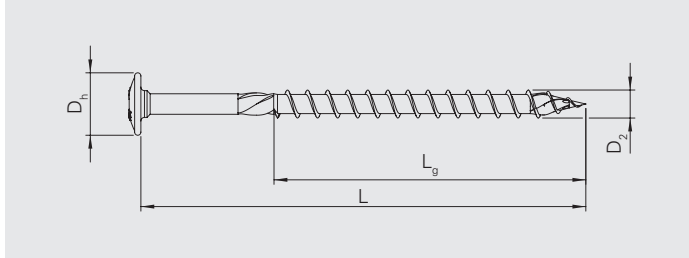
Partial thread

Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive T-40	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-FH-PT-8.0x120	5/16"	8.0	4-3/4"	120	2-7/8"	72	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x140	5/16"	8.0	5-1/2"	140	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x160	5/16"	8.0	6-1/4"	160	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x180	5/16"	8.0	7-1/8"	180	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x200	5/16"	8.0	7-7/8"	200	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x220	5/16"	8.0	8-5/8"	220	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x240	5/16"	8.0	9-1/2"	240	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x260	5/16"	8.0	10-1/4"	260	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x280	5/16"	8.0	11"	280	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x300	5/16"	8.0	11-3/4"	300	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x320	5/16"	8.0	12-5/8"	320	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x340	5/16"	8.0	13-3/8"	340	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x360	5/16"	8.0	14-1/8"	360	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x380	5/16"	8.0	15"	380	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x400	5/16"	8.0	15-3/4"	400	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x420	5/16"	8.0	16-1/2"	420	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x460	5/16"	8.0	18-1/8"	460	3-7/8"	100	11/16"	18.0	T-40	50
HT-T-FH-PT-8.0x500	5/16"	8.0	19-5/8"	500	3-7/8"	100	11/16"	18.0	T-40	50

Note: Short lengths may resemble full thread configuration.

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

SFS HT flange head



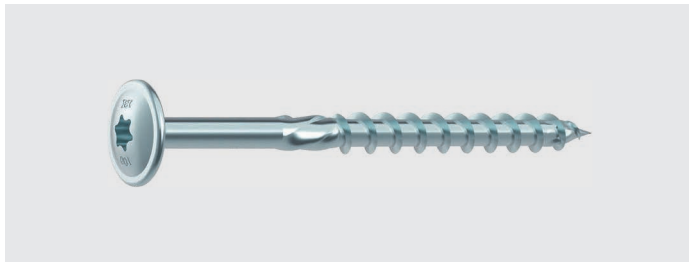
Flange head | T-drive | Partial or full thread
Bright zinc plated, A3K | Carbon steel

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

CHROME (VI) FREE +



ICC
ES
ESR-4480



Full thread

Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive T-40	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-FH-FT-10.0x80	3/8"	10.0	3-1/8"	80	2-7/8"	73	7/8"	22.5	T-40	50
HT-T-FH-FT-10.0x100	3/8"	10.0	3-7/8"	100	3-5/8"	93	7/8"	22.5	T-40	50
HT-T-FH-FT-10.0x120	3/8"	10.0	4-3/4"	120	3-7/8"	100	7/8"	22.5	T-40	50

Partial Thread

Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive T-40	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-FH-PT-10.0x140	3/8"	10.0	5-1/2"	140	3-1/4"	84	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x160	3/8"	10.0	6-1/4"	160	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x180	3/8"	10.0	7-1/8"	180	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x200	3/8"	10.0	7-7/8"	200	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x220	3/8"	10.0	8-5/8"	220	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x240	3/8"	10.0	9-1/2"	240	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x260	3/8"	10.0	10-1/4"	260	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x280	3/8"	10.0	11"	280	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x300	3/8"	10.0	11-3/4"	300	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x320	3/8"	10.0	12-5/8"	320	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x340	3/8"	10.0	13-3/8"	340	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x360	3/8"	10.0	14-1/8"	360	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x380	3/8"	10.0	15"	380	3-7/8"	100	7/8"	22.5	T-40	50
HT-T-FH-PT-10.0x400	3/8"	10.0	15-3/4"	400	3-7/8"	100	7/8"	22.5	T-40	50

Note: Short lengths may resemble full thread configuration.

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

SFS HT full thread

Expertly engineered thread profiles

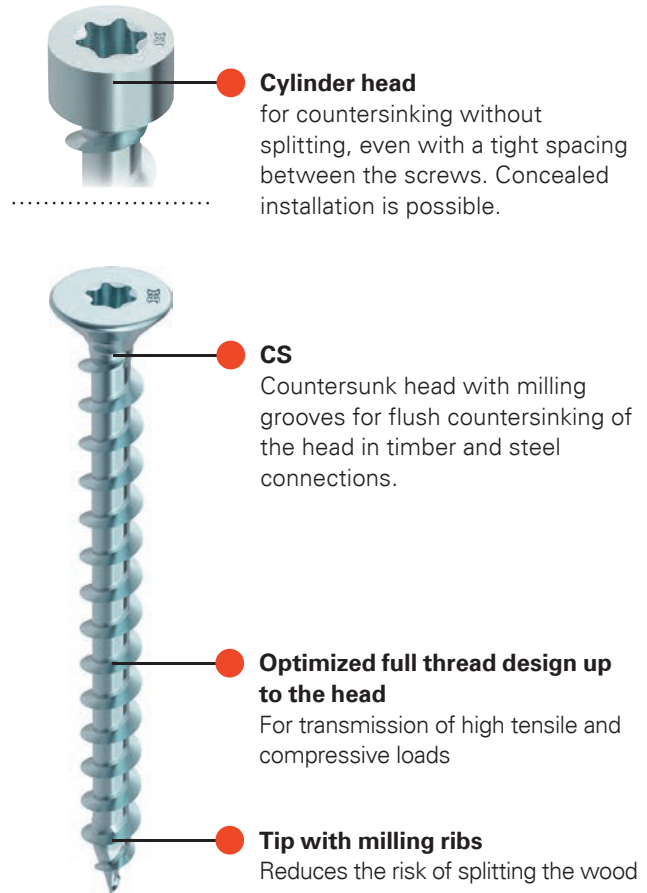
HT fully threaded screws are generally used in axially loaded conditions such as angled attachments and connections, and reinforcements for tension and compression. These screws are available in very long lengths to accommodate a wide range of axial loading scenarios and they enjoy all the features and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

1/4" countersunk HT 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 HT 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, HT fully threaded fasteners show years of engineering expertise can make the best even better.

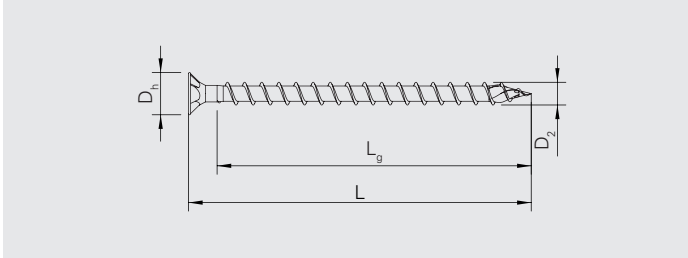
Product Information

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

Approvals



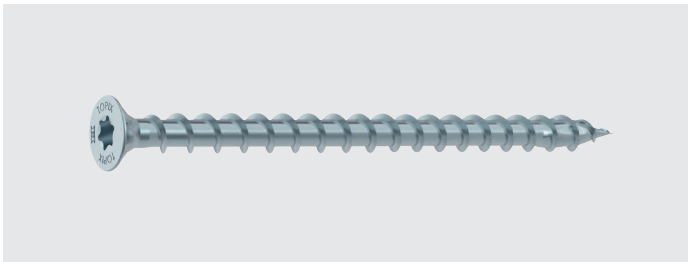
SFS HT countersunk



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

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

CHROME (VI) FREE +

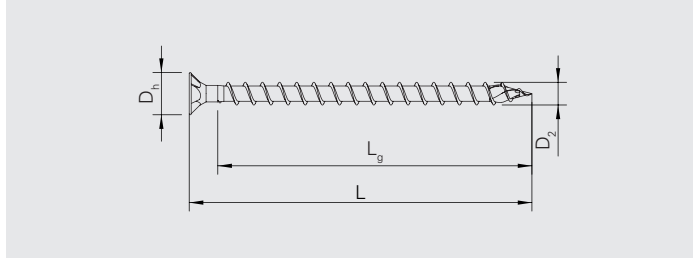


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ESR-4480



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ★	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-CS-VFT-6.0x40	1/4"	6.0	1-5/8"	40	1-1/4"	33	11.7	7/16"	T-30	200
HT-T-CS-VFT-6.0x60	1/4"	6.0	2-3/8"	60	2-1/8"	53	11.7	7/16"	T-30	200
HT-T-CS-VFT-6.0x80	1/4"	6.0	3-1/8"	80	2-7/8"	73	11.7	7/16"	T-30	100
HT-T-CS-VFT-6.0x100	1/4"	6.0	3-7/8"	100	3-5/8"	93	11.7	7/16"	T-30	100
HT-T-CS-VFT-6.0x120	1/4"	6.0	4-3/4"	120	4-1/2"	113	11.7	7/16"	T-30	100
HT-T-CS-VFT-6.0x140	1/4"	6.0	5-1/2"	140	5-1/4"	133	11.7	7/16"	T-30	100
HT-T-CS-VFT-6.0x160	1/4"	6.0	6-1/4"	160	6"	153	11.7	7/16"	T-30	100

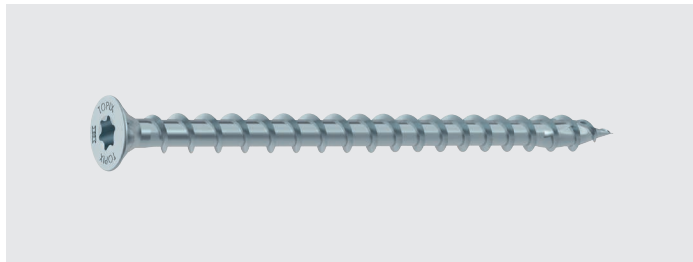
SFS HT countersunk



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

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

CHROME (VI) FREE +

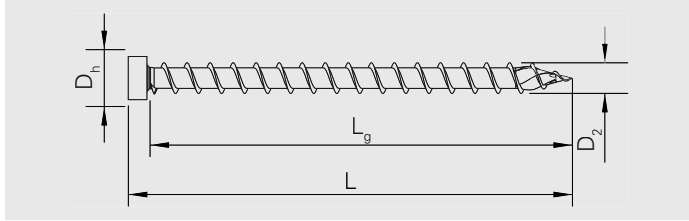


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ESR-4480



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ✳	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-CS-FT-8.0x60	5/16"	8.0	2-3/8"	60	2"	50	9/16"	14.8	T-40	100
HT-T-CS-FT-8.0x80	5/16"	8.0	3-1/8"	80	2-3/4"	70	9/16"	14.8	T-40	100
HT-T-CS-FT-8.0x100	5/16"	8.0	3-7/8"	100	3-1/2"	90	9/16"	14.8	T-40	100
HT-T-CS-FT-8.0x120	5/16"	8.0	4-3/4"	120	4-3/8"	110	9/16"	14.8	T-40	100
HT-T-CS-FT-8.0x160	5/16"	8.0	6-1/4"	160	5-7/8"	150	9/16"	14.8	T-40	100
HT-T-CS-FT-8.0x180	5/16"	8.0	7-1/8"	180	6-3/4"	170	9/16"	14.8	T-40	100
HT-T-CS-FT-8.0x200	5/16"	8.0	7-7/8"	200	7-1/2"	190	9/16"	14.8	T-40	100
HT-T-CS-FT-8.0x220	5/16"	8.0	8-5/8"	220	8-1/4"	210	9/16"	14.8	T-40	50
HT-T-CS-FT-8.0x240	5/16"	8.0	9-1/2"	240	9"	230	9/16"	14.8	T-40	50
HT-T-CS-FT-8.0x260	5/16"	8.0	10-1/4"	260	9-7/8"	250	9/16"	14.8	T-40	50
HT-T-CS-FT-8.0x280	5/16"	8.0	11"	280	10-5/8"	270	9/16"	14.8	T-40	50
HT-T-CS-FT-8.0x300	5/16"	8.0	11-3/4"	300	11-3/8"	290	9/16"	14.8	T-40	50
HT-T-CS-FT-8.0x340	5/16"	8.0	13-3/8"	340	13"	330	9/16"	14.8	T-40	50
HT-T-CS-FT-8.0x380	5/16"	8.0	15"	380	14-5/8"	370	9/16"	14.8	T-40	50
HT-T-CS-FT-10.0x120	3/8"	10.0	4-3/4"	120	4-1/4"	108	3/4"	18.5	T-40	50
HT-T-CS-FT-10.0x160	3/8"	10.0	6-1/4"	160	5-7/8"	148	3/4"	18.5	T-40	50
HT-T-CS-FT-10.0x200	3/8"	10.0	7-7/8"	200	7-3/8"	188	3/4"	18.5	T-40	50
HT-T-CS-FT-10.0x220	3/8"	10.0	8-5/8"	220	8-1/4"	208	3/4"	18.5	T-40	50
HT-T-CS-FT-10.0x240	3/8"	10.0	9-1/2"	240	9"	228	3/4"	18.5	T-40	50
HT-T-CS-FT-10.0x260	3/8"	10.0	10-1/4"	260	9-3/4"	248	3/4"	18.5	T-40	50
HT-T-CS-FT-10.0x280	3/8"	10.0	11"	280	10-1/2"	268	3/4"	18.5	T-40	50
HT-T-CS-FT-10.0x300	3/8"	10.0	11-3/4"	300	11-3/8"	288	3/4"	18.5	T-40	50
HT-T-CS-FT-10.0x340	3/8"	10.0	13-3/8"	340	12-7/8"	328	3/4"	18.5	T-40	50
HT-T-CS-FT-10.0x380	3/8"	10.0	15"	380	14-1/2"	368	3/4"	18.5	T-40	50

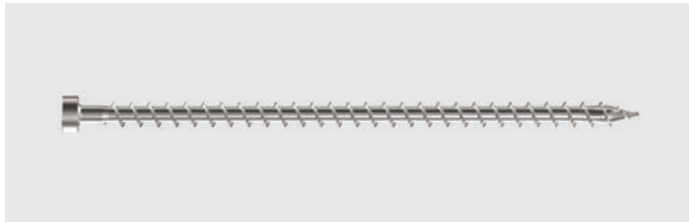
SFS HT cylinder head



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

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

CHROME (VI) FREE +



ICC
ES
ESR-4480



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ☀️	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-CH-FT-6.0x120	1/4"	6.0	4-3/4"	120	4-1/2"	114	5/16"	8.0	T-30	100
HT-T-CH-FT-6.0x140	1/4"	6.0	5-1/2"	140	5-1/4"	134	5/16"	8.0	T-30	100
HT-T-CH-FT-6.0x160	1/4"	6.0	6-1/4"	160	6-1/8"	154	5/16"	8.0	T-30	100
HT-T-CH-FT-6.0x180	1/4"	6.0	7-1/8"	180	6-7/8"	174	5/16"	8.0	T-30	100
HT-T-CH-FT-6.0x200	1/4"	6.0	7-7/8"	200	7-5/8"	194	5/16"	8.0	T-30	100

Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ⚙️	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-T-CH-FT-8.0x120	5/16"	8.0	4-3/4"	120	4-3/8"	112	1/2"	12.0	T-40	100
HT-T-CH-FT-8.0x160	5/16"	8.0	6-1/4"	160	6"	152	1/2"	12.0	T-40	100
HT-T-CH-FT-8.0x180	5/16"	8.0	7-1/8"	180	6-3/4"	172	1/2"	12.0	T-40	100
HT-T-CH-FT-8.0x200	5/16"	8.0	7-7/8"	200	7-1/2"	192	1/2"	12.0	T-40	100
HT-T-CH-FT-8.0x220	5/16"	8.0	8-5/8"	220	8-3/8"	212	1/2"	12.0	T-40	50
HT-T-CH-FT-8.0x240	5/16"	8.0	9-1/2"	240	9-1/8"	232	1/2"	12.0	T-40	50
HT-T-CH-FT-8.0x260	5/16"	8.0	10-1/4"	260	9-7/8"	252	1/2"	12.0	T-40	50
HT-T-CH-FT-8.0x280	5/16"	8.0	11-1/8"	280	10-3/4"	272	1/2"	12.0	T-40	50
HT-T-CH-FT-8.0x300	5/16"	8.0	11-3/4"	300	11-1/2"	292	1/2"	12.0	T-40	50
HT-T-CH-FT-8.0x340	5/16"	8.0	13-3/8"	340	13-1/8"	332	1/2"	12.0	T-40	50
HT-T-CH-FT-8.0x380	5/16"	8.0	15"	380	14-5/8"	372	1/2"	12.0	T-40	50

HT-T-CH-FT-10.0x120	3/8"	10.0	4-3/4"	120	4-3/8"	110	9/16"	14.0	T-40	50
HT-T-CH-FT-10.0x160	3/8"	10.0	6-1/4"	160	5-7/8"	150	9/16"	14.0	T-40	50
HT-T-CH-FT-10.0x200	3/8"	10.0	7-7/8"	200	7-1/2"	190	9/16"	14.0	T-40	50
HT-T-CH-FT-10.0x220	3/8"	10.0	8-5/8"	220	8-1/4"	210	9/16"	14.0	T-40	50
HT-T-CH-FT-10.0x240	3/8"	10.0	9-1/2"	240	9"	230	9/16"	14.0	T-40	50
HT-T-CH-FT-10.0x260	3/8"	10.0	10-1/4"	260	9-7/8"	250	9/16"	14.0	T-40	50
HT-T-CH-FT-10.0x280	3/8"	10.0	11-1/8"	280	10-5/8"	270	9/16"	14.0	T-40	50
HT-T-CH-FT-10.0x300	3/8"	10.0	11-3/4"	300	11-3/8"	290	9/16"	14.0	T-40	50
HT-T-CH-FT-10.0x340	3/8"	10.0	13-3/8"	340	13"	330	9/16"	14.0	T-40	50
HT-T-CH-FT-10.0x380	3/8"	10.0	15"	380	14-1/4"	370	9/16"	14.0	T-40	50

SFS HT stainless

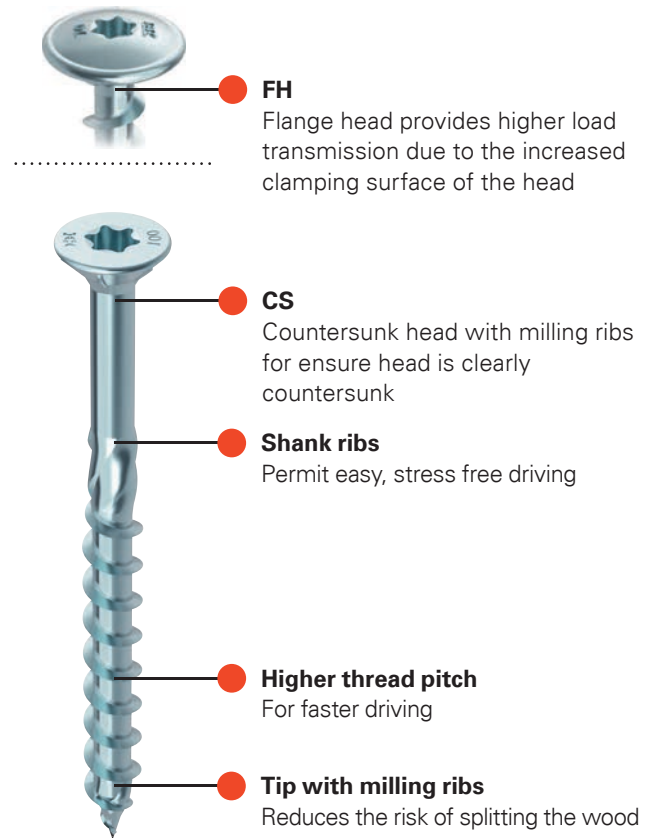
Safety and security with stainless steel

Experts in the timber construction sector value the advantages of HT 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. HT stainless steel screws provide all the excellent benefit of carbon HT screws, but with the safety and security of 304 stainless steel.

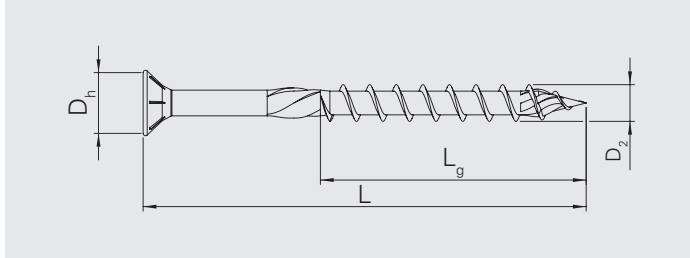
Product Information

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

Approvals



SFS HT countersunk stainless



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

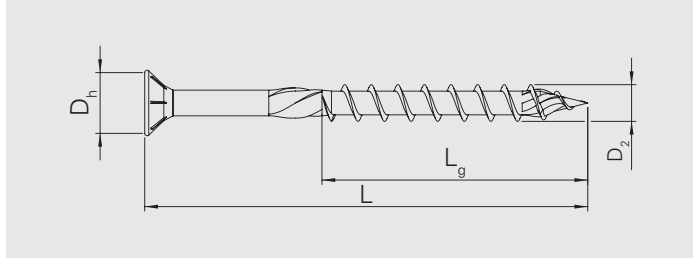
3/16" (5 mm) and 1/4" (6 mm) Stainless steel countersunk head



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ★	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-S-CS-PT-5.0x30	3/16"	5.0	1-1/8"	30	1/4"	6	3/8"	9.6	T-20	200
HT-S-CS-PT-5.0x35	3/16"	5.0	1-3/8"	35	1/2"	12	3/8"	9.6	T-20	200
HT-S-CS-PT-5.0x40	3/16"	5.0	1-5/8"	40	3/4"	18	3/8"	9.6	T-20	200
HT-S-CS-PT-5.0x45	3/16"	5.0	1-3/4"	45	1"	24	3/8"	9.6	T-20	200
HT-S-CS-PT-5.0x50	3/16"	5.0	2"	50	1-1/8"	30	3/8"	9.6	T-20	200
HT-S-CS-PT-5.0x60	3/16"	5.0	2-3/8"	60	1-3/8"	36	3/8"	9.6	T-20	200
HT-S-CS-PT-5.0x70	3/16"	5.0	2-3/4"	70	1-5/8"	42	3/8"	9.6	T-20	200
HT-S-CS-PT-5.0x80	3/16"	5.0	3-1/8"	80	1-7/8"	48	3/8"	9.6	T-20	200
HT-S-CS-PT-5.0x90	3/16"	5.0	3-1/2"	90	2-1/8"	54	3/8"	9.6	T-20	200
HT-S-CS-PT-5.0x100	3/16"	5.0	4"	100	2-3/8"	60	3/8"	9.6	T-20	100

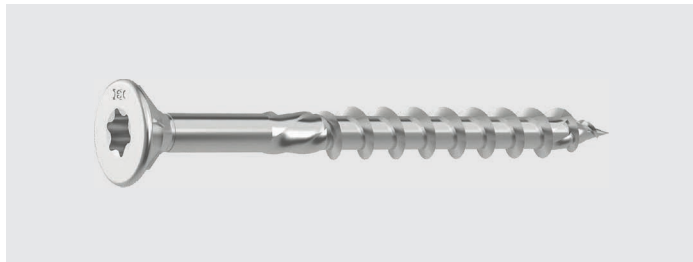
Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ★	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-S-CS-PT-6.0x40	1/4"	6.0	1-5/8"	40	1"	24	7/16"	11.7	T-30	200
HT-S-CS-PT-6.0x50	1/4"	6.0	2"	50	1-1/8"	30	7/16"	11.7	T-30	200
HT-S-CS-PT-6.0x60	1/4"	6.0	2-3/8"	60	1-3/8"	36	7/16"	11.7	T-30	200
HT-S-CS-PT-6.0x70	1/4"	6.0	2-3/4"	70	1-5/8"	42	7/16"	11.7	T-30	200
HT-S-CS-PT-6.0x80	1/4"	6.0	3-1/8"	80	1-7/8"	48	7/16"	11.7	T-30	100
HT-S-CS-PT-6.0x90	1/4"	6.0	3-1/2"	90	2-1/8"	54	7/16"	11.7	T-30	100
HT-S-CS-PT-6.0x100	1/4"	6.0	3-7/8"	100	2-3/8"	60	7/16"	11.7	T-30	100
HT-S-CS-PT-6.0x120	1/4"	6.0	4-3/4"	120	2-7/8"	72	7/16"	11.7	T-30	100
HT-S-CS-PT-6.0x140	1/4"	6.0	5-1/2"	140	2-7/8"	72	7/16"	11.7	T-30	100
HT-S-CS-PT-6.0x160	1/4"	6.0	6-1/4"	160	2-7/8"	72	7/16"	11.7	T-30	100
HT-S-CS-PT-6.0x180	1/4"	6.0	7-1/8"	180	2-7/8"	72	7/16"	11.7	T-30	100
HT-S-CS-PT-6.0x200	1/4"	6.0	7-7/8"	200	2-7/8"	72	7/16"	11.7	T-30	100

SFS HT countersunk stainless



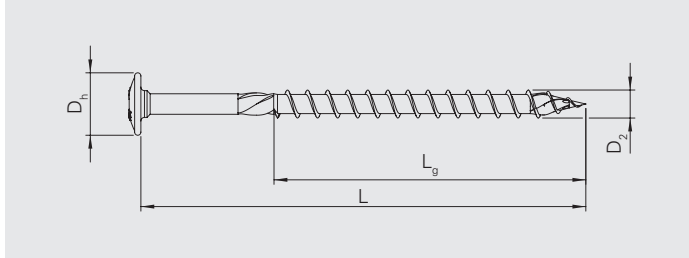
Countersunk head with milling ribs | T-drive | Partial thread
304 Stainless steel (A2 1.4567)

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



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ✳	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-S-CS-PT-8.0x80	5/16"	8.0	3-1/8"	80	2-3/8"	60	9/16"	14.8	T-40	100
HT-S-CS-PT-8.0x100	5/16"	8.0	3-7/8"	100	2-3/8"	60	9/16"	14.8	T-40	100
HT-S-CS-PT-8.0x120	5/16"	8.0	4-3/4"	120	2-7/8"	72	9/16"	14.8	T-40	100
HT-S-CS-PT-8.0x140	5/16"	8.0	5-1/2"	140	2-7/8"	72	9/16"	14.8	T-40	100
HT-S-CS-PT-8.0x160	5/16"	8.0	6-1/4"	160	3-7/8"	100	9/16"	14.8	T-40	100
HT-S-CS-PT-8.0x180	5/16"	8.0	7-1/8"	180	3-7/8"	100	9/16"	14.8	T-40	100
HT-S-CS-PT-8.0x200	5/16"	8.0	7-7/8"	200	3-7/8"	100	9/16"	14.8	T-40	100
HT-S-CS-PT-8.0x220	5/16"	8.0	8-5/8"	220	3-7/8"	100	9/16"	14.8	T-40	50
HT-S-CS-PT-8.0x240	5/16"	8.0	9-1/2"	240	3-7/8"	100	9/16"	14.8	T-40	50
HT-S-CS-PT-8.0x260	5/16"	8.0	10-1/4"	260	3-7/8"	100	9/16"	14.8	T-40	50
HT-S-CS-PT-8.0x280	5/16"	8.0	11"	280	3-7/8"	100	9/16"	14.8	T-40	50
HT-S-CS-PT-8.0x300	5/16"	8.0	11-3/4"	300	3-7/8"	100	9/16"	14.8	T-40	50
HT-S-CS-PT-8.0x320	5/16"	8.0	12-5/8"	320	3-7/8"	100	9/16"	14.8	T-40	50
HT-S-CS-PT-8.0x340	5/16"	8.0	13-3/8"	340	3-7/8"	100	9/16"	14.8	T-40	50
HT-S-CS-PT-8.0x360	5/16"	8.0	14-1/8"	360	3-7/8"	100	9/16"	14.8	T-40	50
HT-S-CS-PT-8.0x380	5/16"	8.0	15"	380	3-7/8"	100	9/16"	14.8	T-40	50
HT-S-CS-PT-8.0x400	5/16"	8.0	15-3/4"	400	3-7/8"	100	9/16"	14.8	T-40	50

SFS HT flange head stainless



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

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 diameter (D _h)		Drive ★	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-S-FH-PT-6.0x100	1/4"	6.0	3-7/8"	100	3-1/4"	84	9/16"	14.0	T-30	100
HT-S-FH-PT-6.0x120	1/4"	6.0	4-3/4"	120	3-7/8"	100	9/16"	14.0	T-30	100

Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ★	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-S-FH-PT-8.0x140	5/16"	8.0	5-1/2"	140	3-1/4"	84	11/16"	18.0	T-40	50
HT-S-FH-PT-8.0x160	5/16"	8.0	6-1/4"	160	3-7/8"	100	11/16"	18.0	T-40	50
HT-S-FH-PT-8.0x180	5/16"	8.0	7-1/8"	180	3-7/8"	100	11/16"	18.0	T-40	50
HT-S-FH-PT-8.0x200	5/16"	8.0	7-7/8"	200	3-7/8"	100	11/16"	18.0	T-40	50
HT-S-FH-PT-8.0x220	5/16"	8.0	8-5/8"	220	3-7/8"	100	11/16"	18.0	T-40	50
HT-S-FH-PT-8.0x240	5/16"	8.0	9-1/2"	240	3-7/8"	100	11/16"	18.0	T-40	50
HT-S-FH-PT-8.0x260	5/16"	8.0	10-1/4"	260	3-7/8"	100	11/16"	18.0	T-40	50
HT-S-FH-PT-8.0x280	5/16"	8.0	11"	280	3-7/8"	100	11/16"	18.0	T-40	50
HT-S-FH-PT-8.0x300	5/16"	8.0	11-3/4"	300	3-7/8"	100	11/16"	18.0	T-40	50

Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ★	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
HT-S-FH-FT-8.0x40	5/16"	8.0	1-5/8"	40	1-3/8"	34	11/16"	18.0	T-40	50
HT-S-FH-FT-8.0x50	5/16"	8.0	2"	50	1-3/4"	44	11/16"	18.0	T-40	50
HT-S-FH-FT-8.0x60	5/16"	8.0	2-3/8"	60	2-1/8"	54	11/16"	18.0	T-40	50
HT-S-FH-FT-8.0x80	5/16"	8.0	3-1/8"	80	2-7/8"	74	11/16"	18.0	T-40	50
HT-S-FH-FT-8.0x100	5/16"	8.0	3-7/8"	100	3-3/4"	94	11/16"	18.0	T-40	50
HT-S-FH-FT-8.0x120	5/16"	8.0	4-3/4"	120	4-1/2"	114	11/16"	18.0	T-40	50

Note: Short lengths may resemble full thread configuration.

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

SFS 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.

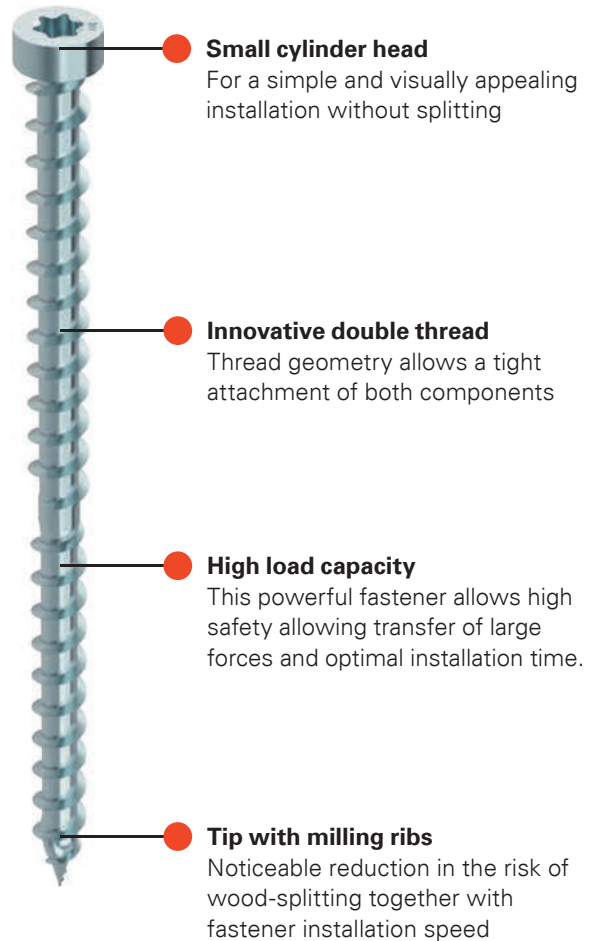
Product Information

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

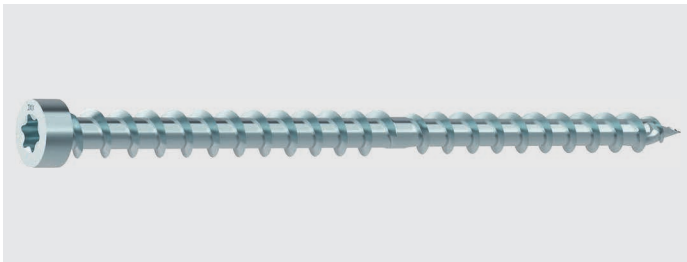
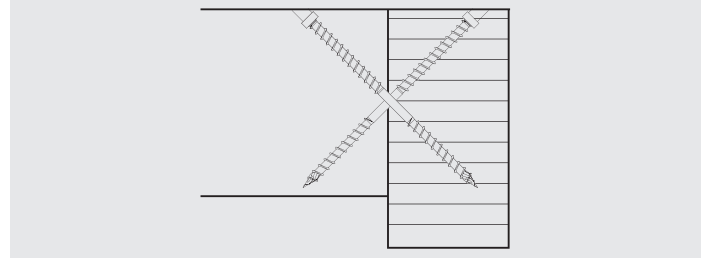
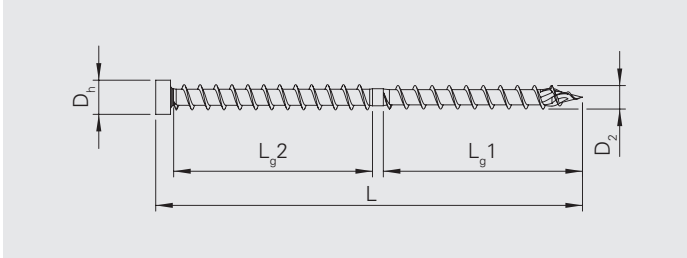
Design

SFS provides guidance during the design and construction phase.

Approvals



SFS CC



Cylinder head | T-drive | Double thread
Bright zinc plated (A3K)

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

CHROME (VI) FREE +



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ★	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
CC-T-CH-DT-6.5x100	1/4"	6.5	3-7/8"	100	1-3/4"	45	3/8"	9.0	T-30	100
CC-T-CH-DT-6.5x130	1/4"	6.5	5-1/8"	130	2-3/8"	60	3/8"	9.0	T-30	100
CC-T-CH-DT-6.5x150	1/4"	6.5	5-7/8"	150	2-3/4"	70	3/8"	9.0	T-30	100
CC-T-CH-DT-6.5x190	1/4"	6.5	7-1/2"	190	3-1/2"	90	3/8"	9.0	T-30	100
CC-T-CH-DT-6.5x215	1/4"	6.5	8-1/2"	215	3-7/8"	100	3/8"	9.0	T-30	100

Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ★	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
CC-T-CH-DT-8.5x100	5/16"	8.5	3-7/8"	100	1-3/4"	45	1/2"	12.0	T-40	100
CC-T-CH-DT-8.5x150	5/16"	8.5	5-7/8"	150	2-3/4"	70	1/2"	12.0	T-40	100
CC-T-CH-DT-8.5x190	5/16"	8.5	7-1/2"	190	3-1/2"	90	1/2"	12.0	T-40	100
CC-T-CH-DT-8.5x215	5/16"	8.5	8-1/2"	215	3-7/8"	100	1/2"	12.0	T-40	50
CC-T-CH-DT-8.5x250	5/16"	8.5	9-7/8"	250	4-3/8"	110	1/2"	12.0	T-40	50
CC-T-CH-DT-8.5x270	5/16"	8.5	10-5/8"	270	4-3/4"	122	1/2"	12.0	T-40	50
CC-T-CH-DT-8.5x300	5/16"	8.5	11-3/4"	300	5-3/8"	138	1/2"	12.0	T-40	50
CC-T-CH-DT-8.5x350	5/16"	8.5	13-3/4"	350	6-1/4"	158	1/2"	12.0	T-40	50
CC-T-CH-DT-8.5x400	5/16"	8.5	15-3/4"	400	7-1/8"	182	1/2"	12.0	T-40	50

*2 threads each of this length.

SFS WR

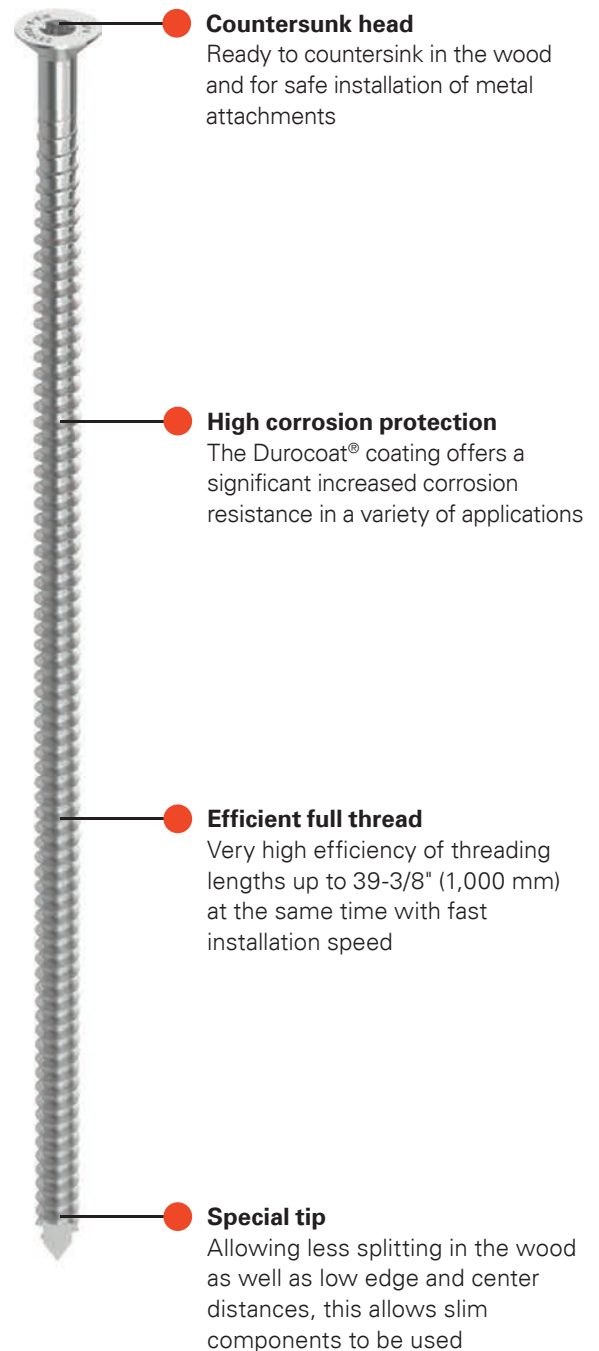
The full thread fastener for powerful connections and reinforcements

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



Countersunk head

Ready to countersink in the wood and for safe installation of metal attachments

High corrosion protection

The Durocoat® coating offers a significant increased corrosion resistance in a variety of applications

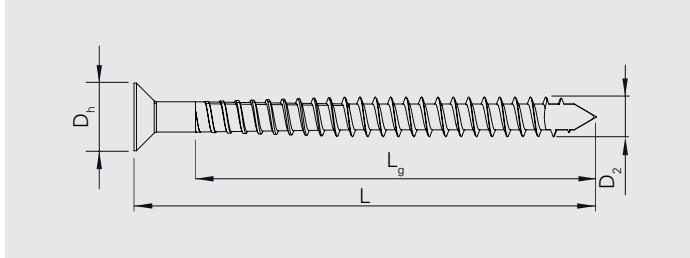
Efficient full thread

Very high efficiency of threading lengths up to 39-3/8" (1,000 mm) at the same time with fast installation speed

Special tip

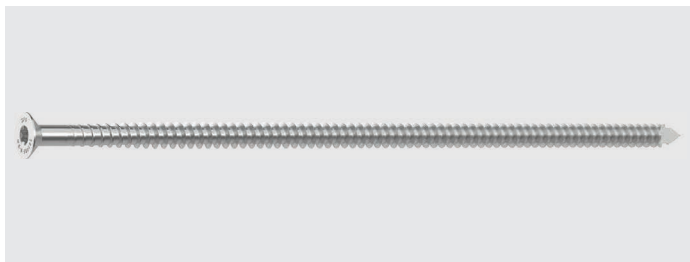
Allowing less splitting in the wood as well as low edge and center distances, this allows slim components to be used

SFS WR



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

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



Product code Type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive ⊛	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
WR-T-CS-FT-13.0x400	1/2"	13.0	15-3/4"	400	15"	380	7/8"	22.0	T-50	25
WR-T-CS-FT-13.0x500	1/2"	13.0	19-5/8"	500	18-7/8"	480	7/8"	22.0	T-50	25
WR-T-CS-FT-13.0x600	1/2"	13.0	23-5/8"	600	22-7/8"	580	7/8"	22.0	T-50	25
WR-T-CS-FT-13.0x700	1/2"	13.0	27-1/2"	700	26-3/4"	680	7/8"	22.0	T-50	25
WR-T-CS-FT-13.0x800	1/2"	13.0	31-1/2"	800	30-3/4"	780	7/8"	22.0	T-50	25
WR-T-CS-FT-13.0x900	1/2"	13.0	35-3/8"	900	34-5/8"	880	7/8"	22.0	T-50	25
WR-T-CS-FT-13.0x1000	1/2"	13.0	39-3/8"	1,000	38-5/8"	980	7/8"	22.0	T-50	25

SFS WS

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 x 0.197" (3 x 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

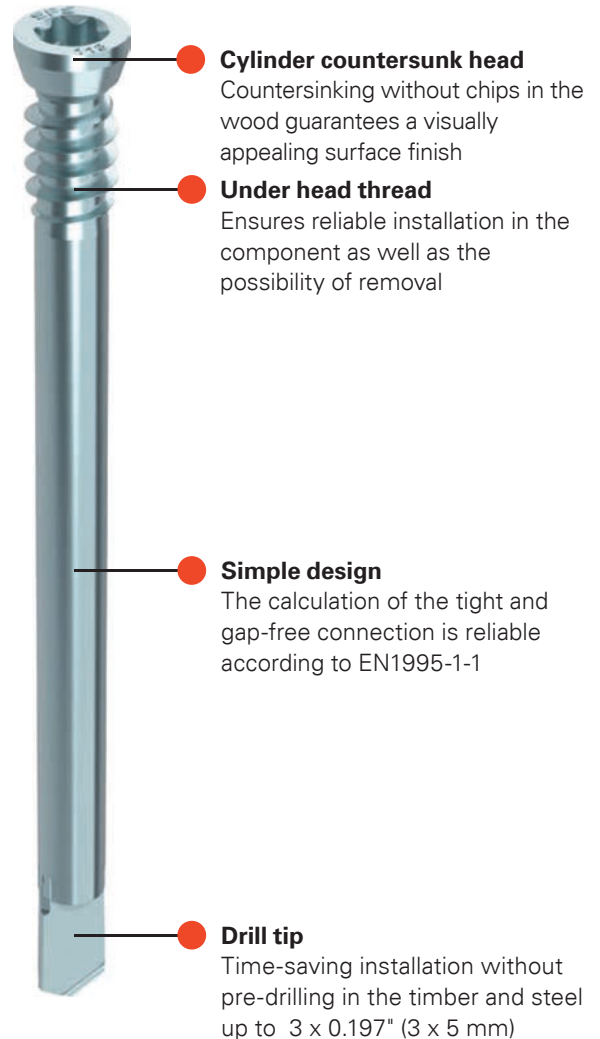
- Self-drilling with the special drill tip
- Removable
- Simple design
- High bending yield $F_{yb}=78.5$ ksi (541 MPa)
- High fire resistance

Approvals

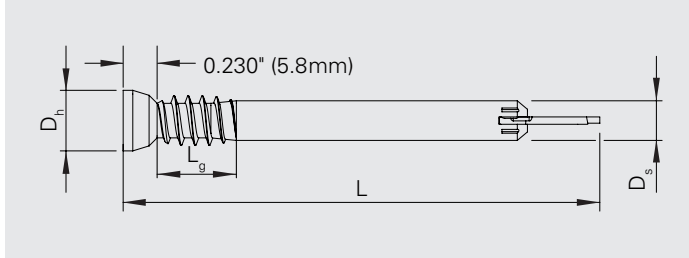


EN14592

For use in
dry, interior
applications



SFS WS



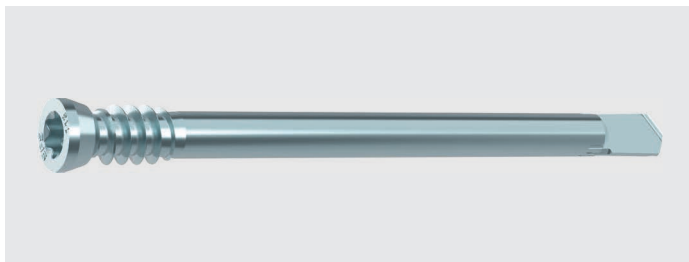
Cylinder countersunk head | T-drive | Bright zinc plated (A2K)
Self-drilling dowel


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

CHROME (VI) FREE + 



EN14592



Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive 	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
WS-T-7.0x73	1/4"	7.0	2-7/8"	73	1/2"	13	3/8"	10.0	T-40	100
WS-T-7.0x93	1/4"	7.0	3-5/8"	93	1/2"	13	3/8"	10.0	T-40	100
WS-T-7.0x113	1/4"	7.0	4-1/2"	113	1/2"	13	3/8"	10.0	T-40	100
WS-T-7.0x133	1/4"	7.0	5-1/4"	133	1/2"	13	3/8"	10.0	T-40	100
WS-T-7.0x153	1/4"	7.0	6"	153	1/2"	13	3/8"	10.0	T-40	50
WS-T-7.0x173	1/4"	7.0	6-3/4"	173	1/2"	13	3/8"	10.0	T-40	50
WS-T-7.0x193	1/4"	7.0	7-5/8"	193	1/2"	13	3/8"	10.0	T-40	50
WS-T-7.0x213	1/4"	7.0	8-3/8"	213	1/2"	13	3/8"	10.0	T-40	50
WS-T-7.0x233	1/4"	7.0	9-1/8"	233	1/2"	13	3/8"	10.0	T-40	50

Using suitable installation tools is recommended

Manual
CF-WS/M



Pneumatic
CF WS/P



Fast & reliable design according to NDS

SFS 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

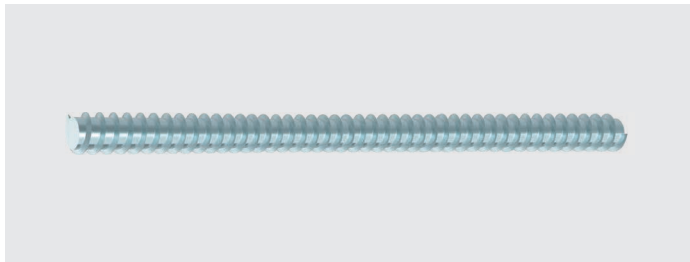
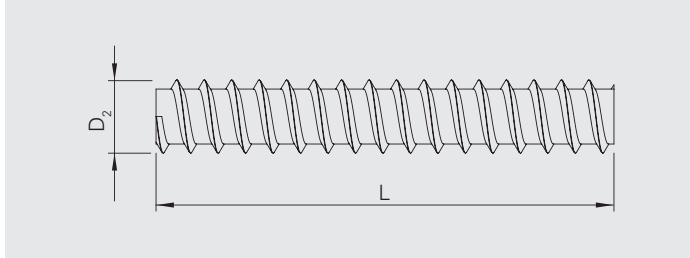


ETA-19/0129



- **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)

SFS WB



Headless | Full thread | Bright zinc plated (A2K)
Threaded rod

Carbon steel timber fastener

CHROME (VI) FREE +



Can be cut
to length



ETA-19/0129

Material no.	Product code type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _n)		Drive	Carton qty
		(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
1029306	WB-T-16.0x3.000	5/8"	16.0	118-1/8"	3,000	118-1/8"	3,000	-	-	-	5
1029309	WB-T-20.0x3.000	13/16"	20.0	118-1/8"	3,000	118-1/8"	3,000	-	-	-	5

Using suitable accessories is recommended

For WB-T-16 DWA-12-ZA-SET

Material No. 1112594



For WB-T-20 DWA-15-ZA-SET

Material No. 1112595



Spare drill bit for WB-T-16 DWA-12-M7

Material No. 1119336



Spare drill bit for WB-T-20 DWA-15-M9

Material No. 1119337



ZE-16-WB

Material No. 1039597



ZE-16-WB-blunt

Material No. 1333186



ZE-20-WB

Material No. 1039598



SFS 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.

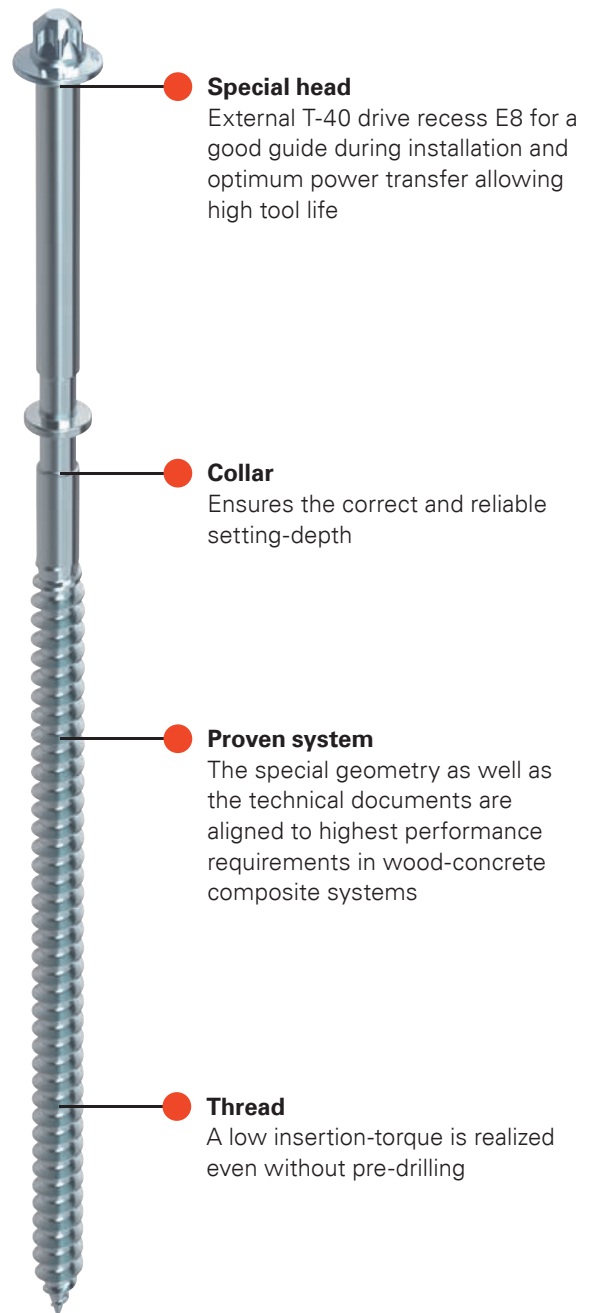
Product Information

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

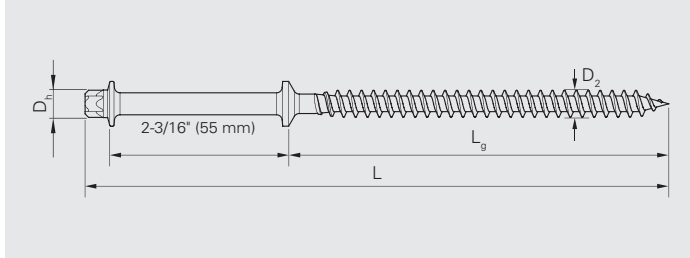
Approvals



ETA-13/0699



SFS VB



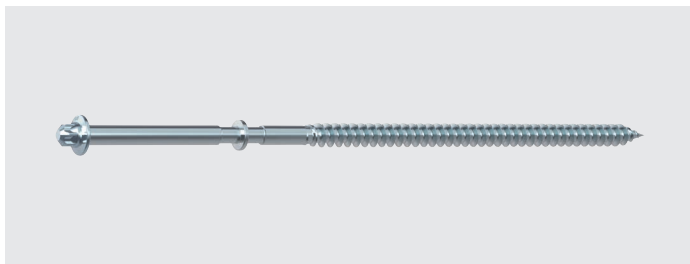
Special head | T-drive | Partial thread | Bright zinc plated (A2K)
Timber-concrete composite

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

CHROME (VI) FREE + 



ETA-13/0699



Product code* type	Diameter (D ₂)		Nominal length (L)		Thread length (L _g)		Head diameter (D _h)		Drive	Carton qty
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)		
VB-48-7.5x100	5/16"	7.5	6-1/8"	155	4"	100	1/2"	12.0	external T40	100
VB-48-7.5x165	5/16"	7.5	8-5/8"	220	6-1/2"	165	1/2"	12.0	external T40	100

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

Using suitable installation tools is recommended

Stand-up setting tool
CF-VB/L

Material No. 1130228



Insert bit
V40-15VB

Material No. 98173



Magnetic bit holder
ZA1/4"-CF-WS/M

Material No. 1659455





Accessories

Special HD bits

for ultimate drive stability when installing SFS timber fasteners

HD-20 drive bit
T-20 wedge fit
1/4" Hex x 2"

Material No. 1205168



HD-30 drive bit
T-30 wedge fit
1/4" Hex x 2"

Material No. 1205169



HD-40 drive bit
T-40 wedge fit
1/4" Hex x 2"

Material No. 1205170



HD-20 drive bit insert
T-20 wedge fit
1/4" Hex x 1"

Material No. 1205164



HD-25 drive bit insert
T-25 wedge fit
1/4" Hex x 1"

Material No. 1205165



HD-30 drive bit insert
T-30 wedge fit
1/4" Hex x 1"

Material No. 1205166



HD-40 drive bit insert
T-40 wedge fit
1/4" Hex x 1"

Material No. 1205167



Magic flip

Magnetic 1/4" bit insert driver

Material No. 1205175



ClicFix

Locking 1/4" bit insert driver

Material No. 1205057



Installation tool

for SFS HT and WR

ZA Hex 11.5-5/16-WR

Telescoping drive bit assembly holds fastener head captive for effortless installation

Material No. 1205173



T-40 drive bit

Use independent or with ZA hex tool
5/16" x 2"

Material No. 1205176



T-50 drive bit

Use independent or with ZA hex tool
5/16" x 2"

Material No. 1205177



Washers

HT countersunk head 90° washer

8 mm dia. screw/25 mm dia. washer
50 pieces

Material No. 1204958



HT countersunk head 90° washer

10 mm dia. screw/30 mm dia. washer
50 pieces

Material No. 1204959



Drilling system

for WB-T

For WB-T-16 DWA-12-ZA-SET

Material No. 1112594



For WB-T-20 DWA-15-ZA-SET

Material No. 1112595



Spare drill bit for WB-T-16 DWA-12-M7

Material No. 1119336



Spare drill bit for WB-T-20 DWA-15-M9

Material No. 1119337



Installation tool

for WB-T

ZE-16-WB

Material No. 1039597



ZE-16-WB-blunt

Material No. 1333186



ZE-20-WB

Material No. 1039598



Installation tools

for WS-T

**Manual
CF-WS/M**

Material No. 1236515



**Pneumatic
CF WS/P**

Material No. 730772



Installation tools

for VB

**Stand-up setting tool
CF-VB/L**

Material No. 1130228



**Insert bit
V40-15VB**

Material No. 98173



**Magnetic bit holder
ZA1/4"-CF-WS/M**

Material No. 1659455





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