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 $3 \times 0.197"$ (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.
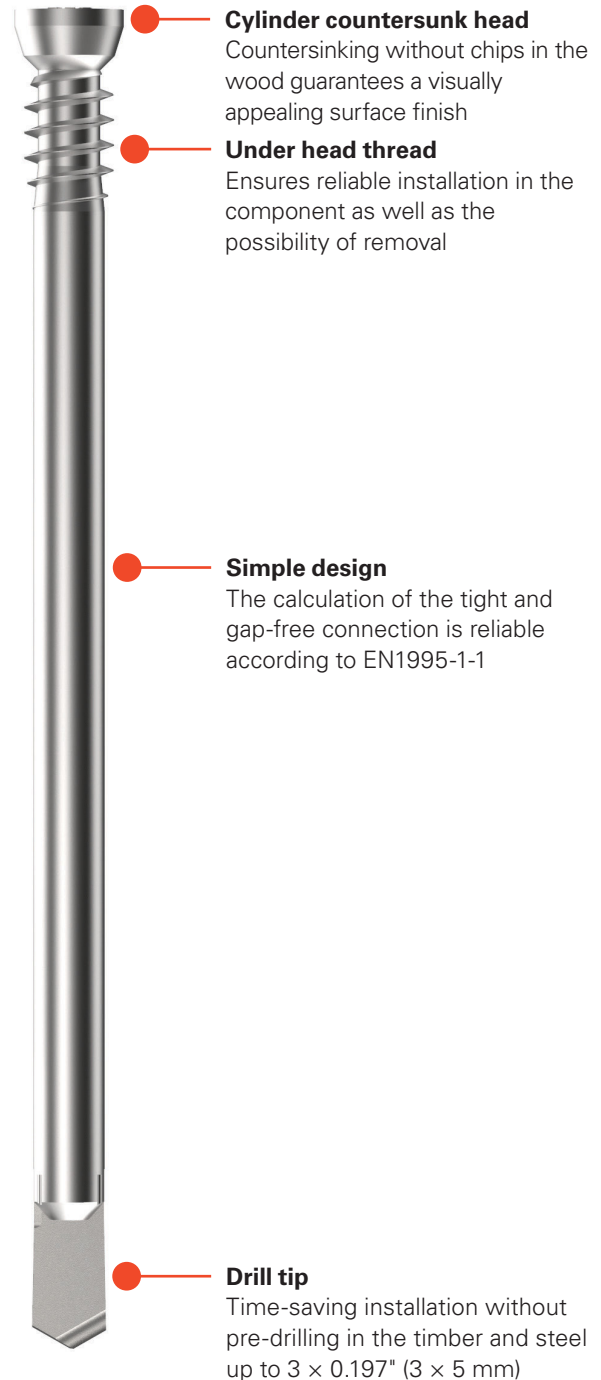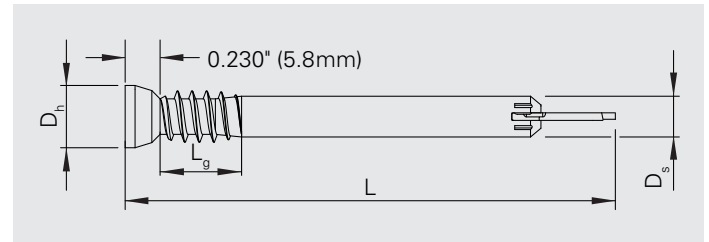
Product Information

- Self-drilling with the special drill tip
- Removable
- Simple design
- High bending yield Fyb=78.5 ksi (541 MPa)
- High fire resistance

Approvals

CE
EN14592

Cylinder countersunk head
Countersinking without chips in the wood guarantees a visually appealing surface finish

Under head thread
Ensures reliable installation in the component as well as the possibility of removal

Simple design
The calculation of the tight and gap-free connection is reliable according to EN1995-1-1

Drill tip
Time-saving installation without pre-drilling in the timber and steel up to $3 \times 0.197"$ (3×5 mm)

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Features

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

Approvals

CE
EN14592
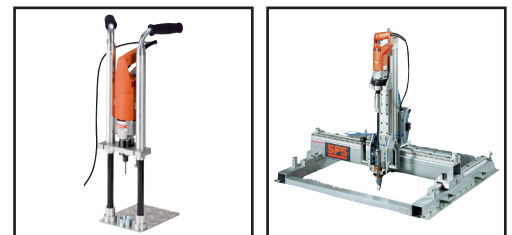
Material

CHROME (VI) FREE +

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-7.0×73	1/4"	7.0	2-7/8"	73	1/2"	13	3/8"	10.0	T40	100
WS-T-7.0×93			3-5/8"	93						
WS-T-7.0×113			4-1/2"	113						
WS-T-7.0×133			5-1/4"	133						
WS-T-7.0×153			6"	153						50
WS-T-7.0×173			6-3/4"	173						
WS-T-7.0×193			7-5/8"	193						
WS-T-7.0×213			8-3/8"	213						
WS-T-7.0×233			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 fram setting tool	730772