

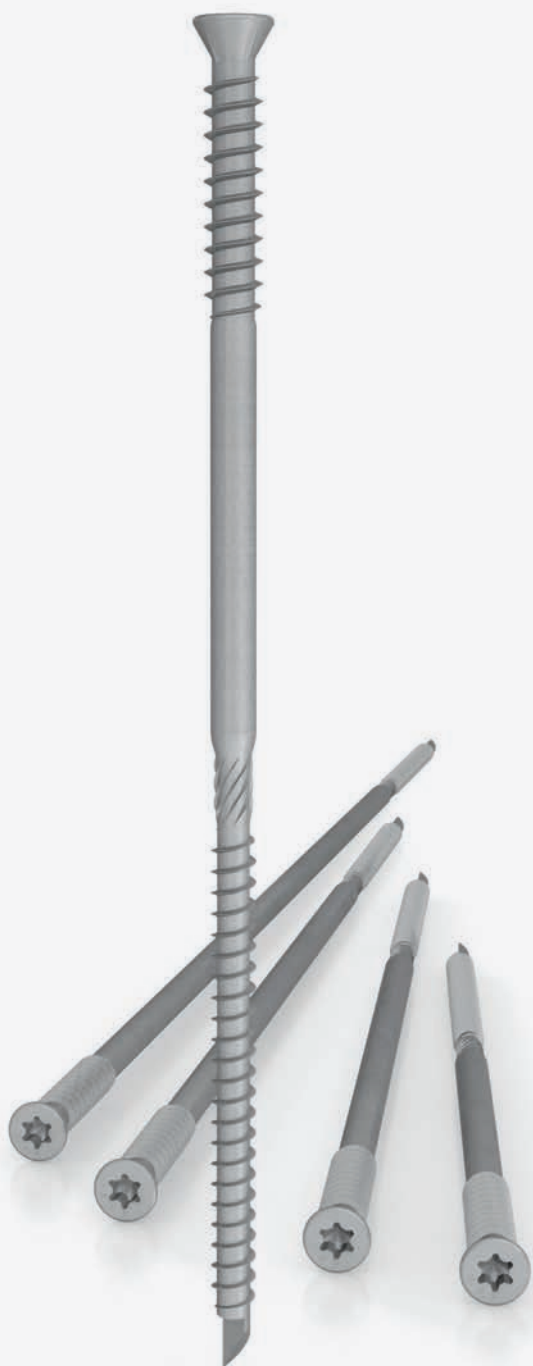
UD

Double thread connector for insulation

Carbon steel with durocoat

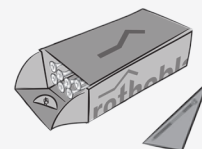
CE
ETA 12/0038

SFS intec



TEMPLATE

Cardboard template in each box for proper placement of the fastenings



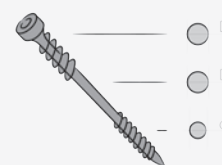
CONSULTING

Free software and personalised consultations to optimise fastenings



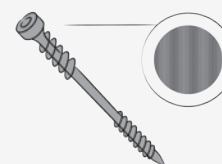
OPTIMISED GEOMETRY

Differentiated diameter between the two threads, longer shank and special tip for excellent static performance



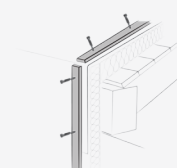
DUROCOAT

Surface "durocoat" treatment, for excellent corrosion resistance



FIELDS OF USE

Fastening of continuous insulation in the roof and façade; can be used for both soft and hard insulation. Service classes 1 and 2



VERSATILE FASTENING

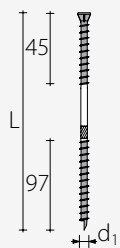
The two threads of the screw have different diameters, guaranteeing excellent resistance, smaller minimum distances and closer positioning between the screws.

NO CRUSHING

The central shank of the screw has a larger diameter and guarantees excellent resistance to compression, impeding crushing of the insulation, even with heavy loads



Codes and dimensions



d ₁ [mm]	code	L [mm]	pcs/pkg
7,5 TX40	CS100005	210	100
	CS1000010	230	
	CS1000015	250	
	CS1000020	270	
	CS1000025	300	
	CS1000030	330	
	CS1000035	360	50
	CS1000040	400	
	CS1000045	440	
	CS1000050	480	

Connector selection

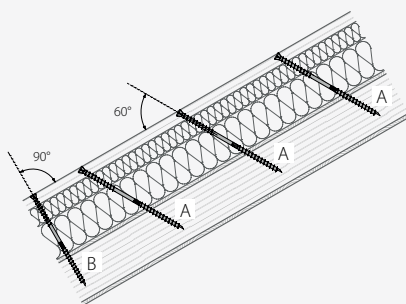
MINIMUM CONNECTOR LENGTH UD Ø7.5

Insulation + wooden planking thickness [mm]	Batten thickness [mm]*							
	s = 40		s = 50		s = 60		s = 80	
	A UD a 60° L _{min} [mm]	B UD a 90° L _{min} [mm]	A UD a 60° L _{min} [mm]	B UD a 90° L _{min} [mm]	A UD a 60° L _{min} [mm]	B UD a 90° L _{min} [mm]	A UD a 60° L _{min} [mm]	B UD a 90° L _{min} [mm]
60	210	210	210	210	210	210	210	210
80	210	210	210	210	210	210	230	210
100	210	210	230	210	230	210	250	230
120	230	210	250	210	250	230	300	250
140	250	230	270	230	300	250	300	270
160	300	250	300	250	300	270	330	300
180	300	270	330	270	330	300	360	300
200	330	300	330	300	360	300	400	330
220	360	300	360	330	400	330	400	360
240	400	330	400	330	400	360	440	360
260	400	360	400	360	440	360	440	400
280	440	360	440	400	440	400	480	400
300	440	400	480	400	480	400	480	440
320	480	400	480	440	480	440	-	-
340	480	440	-	-	-	-	-	-

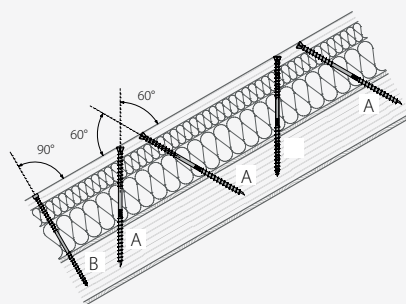
* Minimum batten thicknesses: UD Ø7.5 mm; base/height = 60/40 mm

Check that the connector tip does not stick out from the rafter

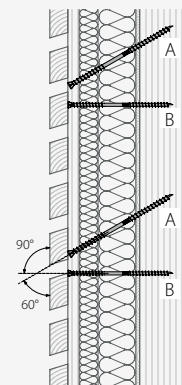
POSSIBLE CONFIGURATIONS



RIGID ROOF INSULATION
 $\sigma_{(10\%)} \geq 50 \text{ kPa (EN826)}$



SOFT ROOF INSULATION
 $\sigma_{(10\%)} < 50 \text{ kPa (EN826)}$



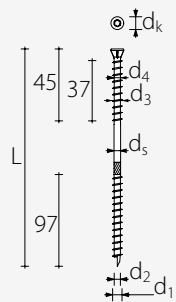
FACADE INSULATION

For sizing, see pg. 96 (intro)

The number and placement of the fastenings depends on the geometry of the surfaces, the type of insulation and the loads acting on them.

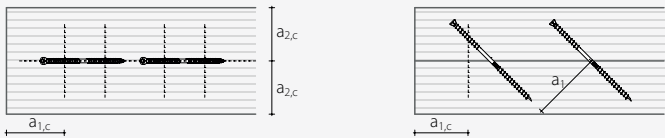
Geometry and minimum distances

GEOMETRY AND MECHANICAL CHARACTERISTICS



UD CONNECTOR		
Nominal diameter	d_1 [mm]	7,5
Head diameter	d_k [mm]	12,00
Diameter lower-thread tip	d_2 [mm]	5,30
Shank diameter	d_5 [mm]	7,05
External diameter upper thread	d_3 [mm]	8,80
Diameter upper-thread tip	d_4 [mm]	6,40
Characteristic yield moment	$M_{y,k}$ [Nmm]	13000,0
Characteristic extraction-resistance parameter	$f_{ax,k}$ [N/mm ²]	12,5
Characteristic tensile strength	$f_{tens,k}$ [kN]	12,0

MINIMUM DISTANCES FOR AXIAL STRESSES ⁽¹⁾



		7,5
a_1 [mm]		53
a_2 [mm]		38
$a_{1,c}$ [mm]		75
$a_{2,c}$ [mm]		30

NOTE

⁽¹⁾ The minimum distances for connectors stressed axially are independent of the insertion angle of the connector and the angle of the force with respect to the grain, in accordance with ETA-12/0038.