

DWZ

DOUBLE THREAD SCREW FOR INSULATOR

- Allows continuous, uninterrupted fastening of roof insulation package. Prevents thermal bridges in compliance with energy saving regulations
- Connector for hard, soft and façade insulation, CE certified according to ETA-11/0030
- The cylindrical head is ideal for hidden insertion in the batten.

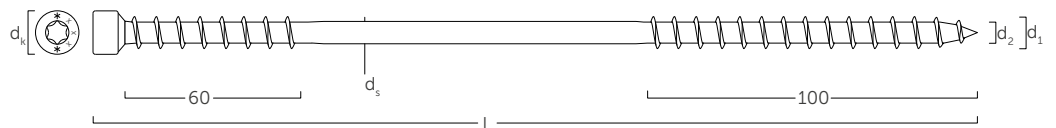


MATERIAL: carbon steel with bright zinc plated



d_1 [mm]	d_k [mm]	CODE	L [mm]	b [mm]	b_2 [mm]	pcs
7 TX 30	9,50	DWZ7220	220	100	60	50
		DWZ7260	260	100	60	50
		DWZ7300	300	100	60	50
		DWZ7340	340	100	60	50
9 TX 40	11,50	DWZ9320	320	100	60	50
		DWZ9360	360	100	60	50
		DWZ9400	400	100	60	50
		DGZ9440	440	100	60	50

GEOMETRY AND MECHANICAL CHARACTERISTICS



nominal diameter	d_1	[mm]	7	9
head diameter	d_k	[mm]	9,50	11,50
thread diameter	d_2	[mm]	4,60	5,90
characteristic yield moment	$M_{y,k}$	[Nm]	14,2	27,2
characteristic withdrawal-resistance parameter ⁽¹⁾	$f_{ax,k}$	[N/mm ²]	11,7	11,7
characteristic tensile strength	$f_{tens,k}$	[kN]	15,4	25,4

⁽¹⁾ Valid for softwood - maximum density 440 kg/m³. Associated density $\rho_a = 350$ kg/m³. For applications with different materials or with high density please see ETA-11/0030.

CONNECTOR SELECTION

MINIMUM SCREW LENGTH DWZ Ø7

insulation + wooden planking thickness [mm]	batten thickness* [mm]									
	s = 30		s = 40		s = 50		s = 60		s = 80	
	A DWZ 60° L _{min} [mm]	B DWZ 90° L _{min} [mm]	A DWZ 60° L _{min} [mm]	B DWZ 90° L _{min} [mm]	A DWZ 60° L _{min} [mm]	B DWZ 90° L _{min} [mm]	A DWZ 60° L _{min} [mm]	B DWZ 90° L _{min} [mm]	A DWZ 60° L _{min} [mm]	B DWZ 90° L _{min} [mm]
60	220	220	220	220	220	220	220	220	260	220
80	220	220	220	220	220	220	260	220	260	220
100	220	220	260	220	260	220	260	220	300	260
120	260	220	260	220	260	260	300	260	300	260
140	260	260	300	260	300	260	300	260	340	300
160	300	260	300	260	340	300	340	300	340	300
180	340	300	340	300	340	300	340	300	-	340
200	340	300	340	300	-	340	-	340	-	340
220	-	340	-	340	-	340	-	340	-	-

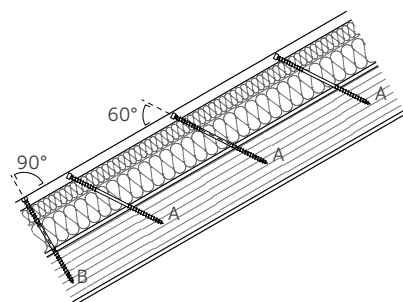
* Minimum batten thicknesses: DWZ Ø7 mm: base/height = 50/30 mm

MINIMUM SCREW LENGTH DWZ Ø9

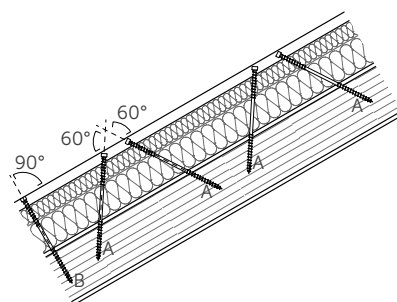
insulation + wooden planking thickness [mm]	batten thickness* [mm]									
	s = 30		s = 40		s = 50		s = 60		s = 80	
	A DWZ 60° L _{min} [mm]	B DWZ 90° L _{min} [mm]	A DWZ 60° L _{min} [mm]	B DWZ 90° L _{min} [mm]	A DWZ 60° L _{min} [mm]	B DWZ 90° L _{min} [mm]	A DWZ 60° L _{min} [mm]	B DWZ 90° L _{min} [mm]	A DWZ 60° L _{min} [mm]	B DWZ 90° L _{min} [mm]
60	-	-	320	320	320	320	320	320	320	320
80	-	-	320	320	320	320	320	320	320	320
100	-	-	320	320	320	320	320	320	320	320
120	-	-	320	320	320	320	320	320	320	320
140	-	-	320	320	320	320	320	320	320	320
160	-	-	320	320	320	320	320	320	360	320
180	-	-	320	320	360	320	360	320	400	320
200	-	-	360	320	360	320	400	320	400	360
220	-	-	400	320	400	360	400	360	440	360
240	-	-	400	360	400	360	440	360	440	400
260	-	-	440	360	440	400	440	400	-	400
280	-	-	440	400	-	400	-	400	-	440
300	-	-	-	400	-	440	-	440	-	440

* Minimum batten thicknesses: DWZ Ø9 mm: base/height = 60/40 mm

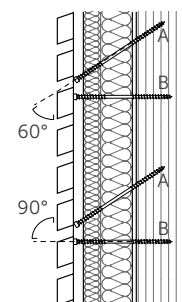
POSSIBLE CONFIGURATIONS



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



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



FACADE INSULATION

NOTES

The number and placement of the fastenings depends on the geometry of the surfaces, the type of insulation and the loads acting on them. Check that the screw tip does not stick out from the rafter.