GOK + WO Roofing fixing system

Pre-assembled telescopic fastening system for trapezoid sheet substrate, max thicknes of 0.90 mm

Approvals and Reports

- ETA-09/0346

Product information

Features and benefits

- Impact-resistant material used ensures constant mechanical properties over the lifetime of a roof. Also, retains its properties over a wide temperature range.
- The cone's optimal shape facilitates speed and ease of installation through the thermal insulation.
- Internal sleeve design allows pre-assembly with any Rawlplug roofing screw, shortening installation.
- Hardened screw's thread surface. High quality anti-corrosion coating guarantees resistance of 15 Kesternich cycles.
- The shape and type of screw's thread is designed specifically for connecting to metal sheets and wood. The drill point is designed to provide a fast and hassle-free installation. Sharp point of the drill prevents movement of the surface of the fixture

Applications

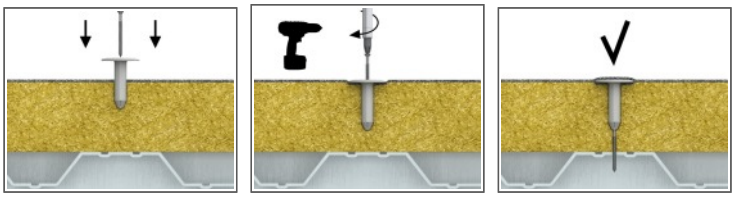
- Insulation layers to flat roofs to substrate: steel, timber

Base materials

Approved for use in:

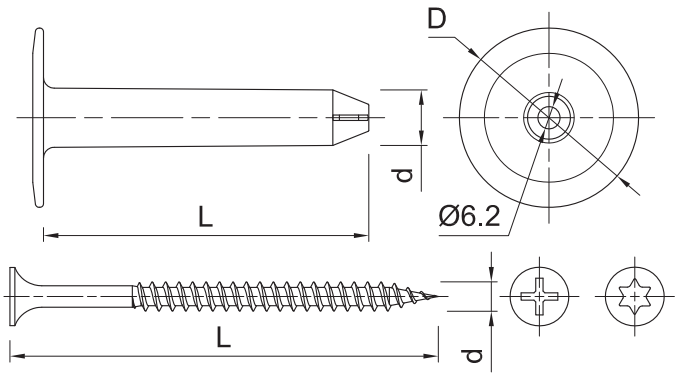
- Metal Sheet & Profiles
- Timber
- Chipboard
- Oriented Strand Board

Installation guide



1. Lightly insert plastic sleeve into insulation material
2. Using drilling machine, drive the WO screw into substrate until fixing depth is reached

Product information



Product Code	Plastic sleeve			Fixture	
	Diameter	Length	Plate diameter	Min. thickness	Max. thickness
	d	L	D	t_{fix}	t_{fix}
	[mm]	[mm]	[mm]	[mm]	[mm]
GOK-015	15.5	15	50	30	280
GOK-035	15.5	35	50	50	300
GOK-065	15.5	65	50	80	330
GOK-075	15.5	75	50	90	340
GOK-085	15.5	85	50	100	350
GOK-095	15.5	95	50	110	360
GOK-105	15.5	105	50	120	370
GOK-125	15.5	125	50	140	390
GOK-135	15.5	135	50	150	400
GOK-165	15.5	165	50	180	430
GOK-185	15.5	185	50	200	450
GOK-225	15.5	225	50	240	490
GOK-255	15.5	255	50	270	520
GOK-285	15.5	285	50	300	550
GOK-325	15.5	325	50	340	590
GOK-385	15.5	385	50	400	650
GOK-425	15.5	425	50	440	690

Product Code	Screw	
	Diameter	Length
	d	L
	[mm]	[mm]
WO-48060	4.8	60
WO-48080	4.8	80
WO-48100	4.8	100
WO-48120	4.8	120
WO-48140	4.8	140
WO-48160	4.8	160
WO-48180	4.8	180
WO-48200	4.8	200
WO-48240	4.8	240
WO-48300	4.8	300

Installation data

Substrate			Steel	Timber, grade C24	Plywood	Chipboard OSB
Screw diameter	d	[mm]	4.8	4.8	4.8	4.8
Hole diameter in substrate	d_0	[mm]	-	-	-	-
Min. hole depth in substrate	h_0	[mm]	-	-	-	-
Min. installation depth	h_{nom}	[mm]	-	24	20	18
Min. substrate thickness	h_{min}	[mm]	0.5	24	20	18
Min. spacing	s_{min}	[mm]	120	120	120	120
Min. edge distance	c_{min}	[mm]	30	30	30	30

Basic performance data

Size		Steel	Timber, grade C24	Plywood	Chipboard OSB
Effective embedment depth h_{ef}	[mm]	0.75	24.00	20.00	18.00
MEAN ULTIMATE LOAD					
GOK + WO	[kN]	1.66	2.53	-	2.33
CHARACTERISTIC LOAD					
GOK + WO	[kN]	0.93	1.45	1.57	1.08
DESIGN LOAD					
GOK + WO	[kN]	0.46	0.72	0.78	0.54
RECOMMENDED LOAD					
GOK + WO	[kN]	0.33	0.51	0.56	0.38

Design performance data

PULL OUT - SCREW FROM SUBSTRATE

Size			Steel							Timber, grade C24	Plywo-od	Chipbo-ard OSB
Effective embedment depth	**h_{ef}**	**[mm]**	**0.5**	**0.63**	**0.75**	**0.88**	**1**	**1.25**	**1.5**	**24**	**20**	**18**
TENSION LOAD												
PULL-OUT FAILURE												
Characteristic resistance	$N_{Rk,p}$	[kN]	0.40	0.68	0.93	1.20	1.45	1.66	1.66	1.45	1.57	1.08
Design resistance	$N_{Rd,p}$	[kN]	0.20	0.34	0.46	0.60	0.72	0.83	0.83	0.72	0.78	0.54