

GOK, GOK-N + WBT Roofing fixing system

Pre-assembled telescopic fastening system for concrete substrate.



Approvals and Reports

- ETA-09/0346
- UKTA-22/6338



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 lenticular shape of the plate ensures a firm pressure on the membrane and no possibility of dragging and deforming the plate during assembly
- 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 concrete 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

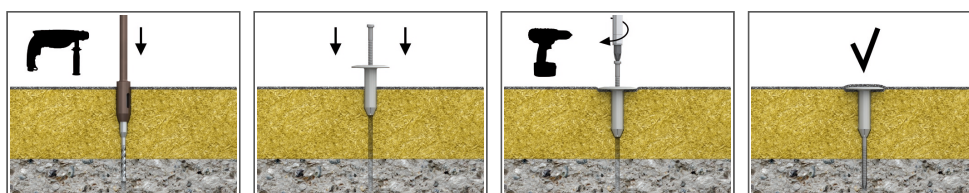
- Insulation layers to flat roofs to substrate: concrete, timber

Base materials

Approved for use in:

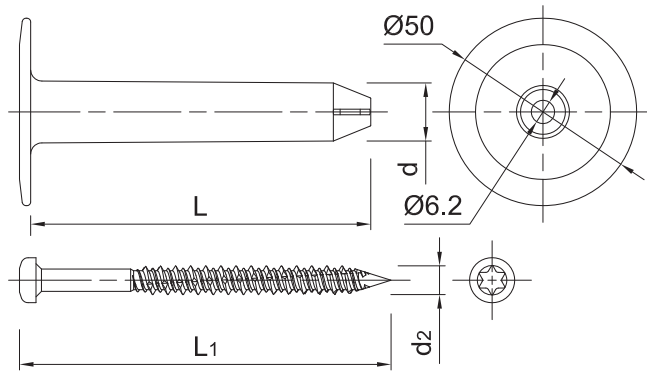
- Concrete
- Concrete Slab
- Timber

Installation guide



1. Drill the hole of required diameter and depth (where applicable)
2. Lightly insert plastic sleeve into insulation material
3. Using drilling machine, drive the WBT screw into substrate until fixing depth is reached

Product information



Product Code	Diameter	Length	Diameter	Length
	d	L	d2	L1
	[mm]	[mm]	[mm]	[mm]
R-GOK105WBT61T075	15.5	105	6.1	75
R-GOK165WBT61T090	15.5	165	6.1	90
R-GOK185WBT61T120	15.5	185	6.1	120

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]
R-GOK-015		15.5	15	50	30	270
R-GOK-035		15.5	35	50	50	290
R-GOK-065		15.5	65	50	80	320
R-GOK-075		15.5	75	50	90	330
R-GOK-085		15.5	85	50	100	340
R-GOK-095		15.5	95	50	110	350
R-GOK-105		15.5	105	50	120	360
R-GOK-125		15.5	125	50	140	380
R-GOK-135		15.5	135	50	150	390
R-GOK-165		15.5	165	50	180	420
R-GOK-185		15.5	185	50	200	440
R-GOK-225		15.5	225	50	240	480
R-GOK-255		15.5	255	50	270	510
R-GOK-285		15.5	285	50	300	540
R-GOK-325		15.5	325	50	340	580
R-GOK-385		15.5	385	50	400	640
R-GOK-425		15.5	425	50	440	680
	R-GOK-525-N	15.5	525	50	540	780
	R-GOK-625-N	15.5	625	50	640	880
	R-GOK-725-N	15.5	725	50	740	980

Product information

Product Code		Screw	
		Diameter	Length
		d	L
		[mm]	[mm]
R-WBT-61050	R-WBT-61050	6.1	50
R-WBT-61075	R-WBT-61075	6.1	75
R-WBT-61090	R-WBT-61090	6.1	90
R-WBT-61100	R-WBT-61100	6.1	100
R-WBT-61120	R-WBT-61120	6.1	120
R-WBT-61140	R-WBT-61140	6.1	140
R-WBT-61160	R-WBT-61160	6.1	160
R-WBT-61180	R-WBT-61180	6.1	180
R-WBT-61200	R-WBT-61200	6.1	200
R-WBT-61220	R-WBT-61220	6.1	220
R-WBT-61240	R-WBT-61240	6.1	240
R-WBT-61260	R-WBT-61260	6.1	260
R-WBT-61300	R-WBT-61300	6.1	300

Installation data

Substrate			Concrete C12/15	Thin-walled slab C16/20	Timber
Hole diameter in substrate	d ₀	[mm]	5	5	-
Min. hole depth in substrate	h ₀	[mm]	35	25	-
Min. installation depth	h _{nom}	[mm]	30	20	30
Min. substrate thickness	h _{min}	[mm]	35	30	30
Min. spacing	s _{min}	[mm]	120	120	120
Min. edge distance	c _{min}	[mm]	30	30	50
Screw diameter	d	[mm]	6.1	6.1	6.1
Screw drive	-	[-]	-	TX25	TX25

Basic performance data

Size		Concrete C12/15	Concrete C20/25	Thin-walled slab C16/20	Timber, grade C24
Effective embedment depth h _{ef}	[mm]	30.00	30.00	20.00	30.00
MEAN ULTIMATE LOAD					
GOK + WBT	[kN]	2.52	2.52	2.20	2.52
CHARACTERISTIC LOAD					
GOK + WBT	[kN]	2.42	2.46	1.85	2.46
DESIGN LOAD					
GOK + WBT	[kN]	0.96	1.23	0.76	1.23
RECOMMENDED LOAD					
GOK + WBT	[kN]	0.69	0.88	0.54	0.88

Design performance data

PULL OUT - SCREW FROM SUBSTRATE

Size			Concrete C12/15	Concrete C20/25			Thin-walled slab C16/20	Timber, grade C24
Effective embedment depth	h_{ef}	[mm]	30	20	30	20	30	30
TENSION LOAD								
PULL-OUT FAILURE								
Characteristic resistance	$N_{Rk,p}$	[kN]	2.42	2.25	4.03	1.85	3.65	
Design resistance	$N_{Rd,p}$	[kN]	0.96	0.90	1.59	0.76	1.21	

PULL OUT -GOK SLEEVE

Characteristic resistance	$N_{Rk,p}$	[kN]	2.46
Design resistance	$N_{Rd,p}$	[kN]	1.23

Product commercial data

Size	Product Code	Diameter [mm]	Length [mm]		Plastic sleeve		Screw	Quantity [pcs]			Weight [kg]			Bar Codes
					Diameter [mm]	Length [mm]		Box	Outer	Pallet	Box	Outer	Pallet	
	R-GOK105WBT61T0 75 ¹⁾	15.5	105	75				250	250	10000	5.1	5.1	234.5	5906675494180
	R-GOK165WBT61T0 90 ¹⁾	15.5	165	90				150	150	6000	4.1	4.1	195.0	5906675494159
	R-GOK185WBT61T1 20 ¹⁾	15.5	185	120				100	100	4000	3.6	3.6	172.0	5906675494166
	R-GOK-015				15.5	15		1100	1100	61600	6.6	6.6	400.8	5906675101033
	R-GOK-035				15.5	35		600	600	33600	5.0	5.0	307.0	5906675101057
	R-GOK-065				15.5	65		400	400	22400	4.3	4.3	268.1	5906675101170
	R-GOK-075				15.5	75		300	300	16800	3.8	3.8	241.7	5906675106663
	R-GOK-085				15.5	85		300	300	16800	3.8	3.8	244.2	5906675106687
	R-GOK-095				15.5	95		250	250	14000	3.8	3.8	240.6	5906675106717
	R-GOK-105				15.5	105		250	250	14000	3.7	3.7	236.1	5906675106748
	R-GOK-125				15.5	125		200	200	11200	3.5	3.5	224.8	5906675106779
	R-GOK-135				15.5	135		200	200	11200	3.5	3.5	224.1	5906675106830
	R-GOK-165				15.5	165		150	150	8400	3.1	3.1	201.5	5906675106861
	R-GOK-185				15.5	185		100	100	5600	2.3	2.3	158.9	5906675106885
	R-GOK-225				15.5	225		100	100	5600	2.6	2.6	176.4	5906675107103
	R-GOK-255				15.5	255		75	75	4200	2.3	2.3	158.1	5906675112855
	R-GOK-285				15.5	285		75	75	4200	2.5	2.5	168.9	5906675107295
	R-GOK-325				15.5	325		50	50	2800	2.0	2.0	139.2	5906675108056
	R-GOK-385				15.5	385		50	50	2000	2.3	2.3	119.9	5906675108117
	R-GOK-425				15.5	425		50	50	1600	2.4	2.4	106.4	5906675108629
	R-GOK-525-N				15.5	525		50	50	600	4.2	4.2	80.0	5906675113883
	R-GOK-625-N				15.5	625		50	50	600	4.7	4.7	86.2	5906675113890
	R-GOK-725-N				15.5	725		50	50	600	5.2	5.2	92.4	5906675113906
Ø6.1	R-WBT-61050						50	100	3200	76800	0.79	25.2	634.4	5906675101200
	R-WBT-61075						75	100	1600	38400	1.11	17.7	454.3	5906675101231
	R-WBT-61090						90	100	1600	38400	1.34	21.4	543.8	5906675101309
	R-WBT-61100						100	100	1600	38400	1.49	23.9	602.5	5906675101408
	R-WBT-61120						120	100	1200	28800	1.77	21.3	540.9	5906675101439
	R-WBT-61140						140	100	1200	28800	2.0	24.5	618.7	5906675101460
	R-WBT-61160						160	100	1200	28800	2.3	28.1	704.2	5906675101514
	R-WBT-61180						180	100	100	16800	2.7	2.7	477.9	5906675225173
	R-WBT-61200						200	100	100	16800	2.9	2.9	518.5	5906675101927
	R-WBT-61220						220	100	100	16800	3.2	3.2	568.4	5906675102214
	R-WBT-61240						240	100	100	16800	3.5	3.5	620.7	5906675102245
	R-WBT-61260						260	100	100	16800	3.8	3.8	661.7	5906675102269
	R-WBT-61300						300	100	100	7800	4.3	4.3	367.0	5906675102290

1) ETA-09/0346