

## GS Ceiling wedge anchor

Ceiling wire hanger for lightweight ceilings and suspended ceilings to solid building materials



### Approvals and Reports

- ETA 11/0268



### Product information

#### Features and benefits

- During installation, when the nail is flush with the head, it signifies the complete expansion of the anchor
- Steel body and pin ensure positive expansion and high safety in use
- Approved for installation in cracked and non-cracked concrete.
- Fire resistance class A1
- Reliable setting thanks to the simple visual check
- Impact expansion by hammer, no setting tool is needed

#### Applications

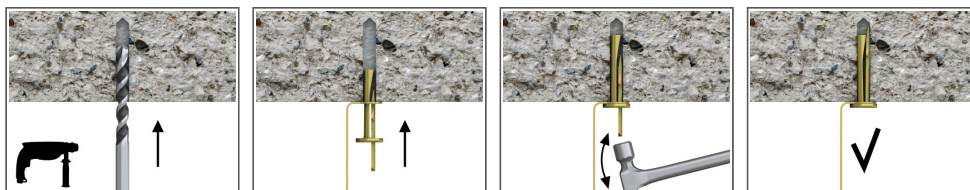
- Installation of lightweight ceilings and suspended ceilings
- Installation of coffered ceilings
- Installation of conduit and pipe clamps and other MEP applications
- Ventilation systems
- Metal roof profiles
- Punched straps

#### Base materials

##### Approved for use in:

- Cracked concrete C20/25-C50/60
- Non-cracked concrete C20/25-C50/60

### Installation guide

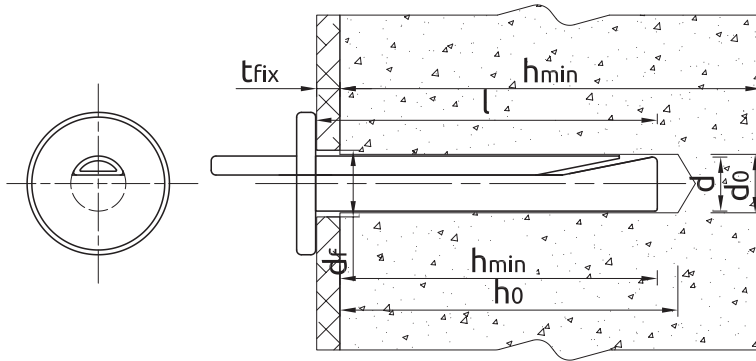


1. Drill a hole of required diameter and depth
2. Insert anchor through fixture into hole until fixing depth is reached.
3. Hammer-in the nail until flush with head.
4. Do not hit the expansion wedge at the stage.

## Product information

Size	Product Code	Anchor		Fixture	
		Diameter	Length	Max. thickness	Hole diameter
		d	L	t <sub>fix</sub>	d <sub>f</sub>
		[mm]			
Ø6	R-GS-06040	5.8	36	4.5	7
	R-GS-06065	5.8	65	35	7

## Installation data



Size			Ø6
Hole diameter in substrate	d <sub>0</sub>	[mm]	6
Min. hole depth in substrate	h <sub>0</sub>	[mm]	40
Min. installation depth	h <sub>nom</sub>	[mm]	32
Min. substrate thickness	h <sub>min</sub>	[mm]	100
Min. spacing	s <sub>min</sub>	[mm]	200
Min. edge distance	c <sub>min</sub>	[mm]	150
Fixing diameter	d	[mm]	5.8

## Basic performance data

Performance data for single fixing without influence of edge distance and spacing

Substrate		Cracked concrete	Non-cracked concrete
MEAN ULTIMATE LOAD F <sub>Ru,m</sub>			
Ø06, Effective embedment depth 32 mm	[kN]	4.27	4.27
CHARACTERISTIC LOAD F <sub>Rk</sub>			
Ø06, Effective embedment depth 32 mm	[kN]	3.00	3.00
DESIGN LOAD F <sub>Rd</sub>			
Ø06, Effective embedment depth 32 mm	[kN]	2.00	2.00
RECOMMENDED LOAD F <sub>rec</sub>			
Ø06, Effective embedment depth 32 mm	[kN]	1.43	1.43

## Design performance data

Size

Resistance to tension and shear loads under fire exposure

Size			Ø6
R (for EI) = 30 min			
TENSION LOAD			
STEEL FAILURE			
Characteristic resistance	N <sub>Rk,s</sub>	[kN]	0.66

## Product commercial data

Product Code	Anchor	Quantity [pcs]			Weight [kg]			Bar Codes
	Length [mm]	Box	Outer	Pallet	Box	Outer	Pallet	
R-GS-06040 <sup>1)</sup>	36	100	1600	38400	1.13	18.1	463.2	5906675169347
R-GS-06065 <sup>1)</sup>	65	100	1600	38400	1.65	26.4	664.4	5906675158105

<sup>1)</sup> ETA 11/0268