

Knauf Concrete Screwbolt

Product-Data-Sheet

09/2025

Product Description

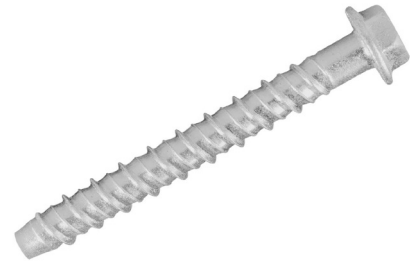
Concrete Screwbolt is a non-expansion bolt with undercut technology. It is a high-performance bolt that cuts its own thread. Its design ensures a secure and reliable installation.

Key Benefits

- Applicable for head wall connections, and fire-resistant perimeter fixings.
- Can be used close to the edge without damaging the substrate
- High performance concrete bolt that cuts its own thread.
- Simple & secure to use
- Removable & reusable
- Single piece design, no nut and washer to assemble
- Low expansion (undercut)
- No grinding required removing anchors

Product Material

Zinc Electro-plated



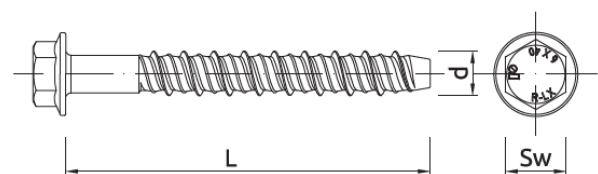
Suitable Substrates

- Cracked concrete
- Non-cracked concrete
- Reinforced concrete
- Unreinforced concrete
- Wood
- Beams

Compliance Standards

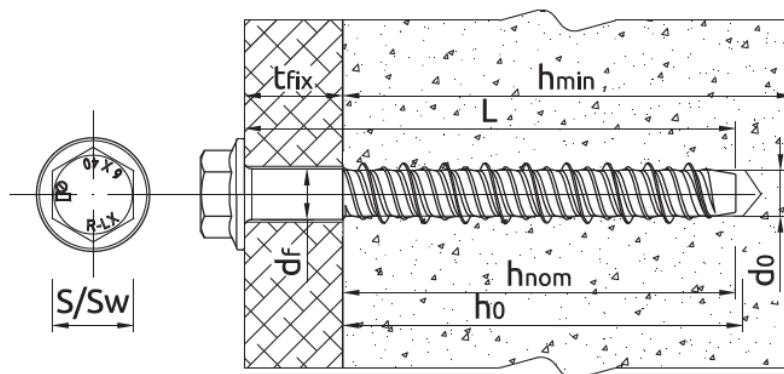
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Performance Information



Size	Plug		Fixture
	Diameter (d)	Length (l)	Hole Diameter (d _h)
		mm	
ø 6	7.5	100	9

Installation Data



Size			Ø 6
Thread diameter	d	mm	7.5
Hole Diameter in substrate	d ₀	mm	6
Screw size	-	mm	T40
Head Diameter	-	mm	15.9
Max. torque for impact screw	T _{imp,max}	mm	400
STANDARD EMBEDMENT DEPTH			
Min. hole depth in substrate	h _{0,s}	mm	65
Real hole depth in substrate	h ₀	mm	L + 10 - t _{fix}
Min. installation depth	h _{nom,s}	mm	55
Min. substrate thickness	h _{min,s}	mm	100
Min. spacing	S _{min,s}	mm	45
Min. edge distance	C _{min,s}	mm	45
REDUCED EMBEDMENT DEPTH			
Min. hole depth in substrate	h _{0,r}	mm	50
Real hole depth in substrate	h ₀	mm	L + 10 - t _{fix}
Min. installation depth	h _{nom,r}	mm	43
Min. substrate thickness	h _{min,r}	mm	100
Min. spacing	S _{min,r}	mm	45
Min. edge distance	C _{min,r}	mm	45

Basic Performance Data

Size			Ø 6
NON-CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	mm	55
Reduced embedment depth	h_{nom}	mm	35
CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	mm	55
Reduced embedment depth	h_{nom}	mm	35
MEAN ULTIMATE LOAD			
TENSION LOAD			
NON-CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	kN	14.8
Reduced embedment depth	h_{nom}	kN	12.22
CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	kN	11.10
Reduced embedment depth	h_{nom}	kN	8.60
SHEAR LOAD			
NON-CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	kN	18.37
Reduced embedment depth	h_{nom}	kN	12.22
CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	kN	12.93
Reduced embedment depth	h_{nom}	kN	8.60
CHARACTERISTIC LOAD			
TENSION LOAD			
NON-CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	kN	12.00
Reduced embedment depth	h_{nom}	kN	8.90
CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	kN	7.00
Reduced embedment depth	h_{nom}	kN	6.23
SHEAR LOAD			
NON-CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	kN	13.39
Reduced embedment depth	h_{nom}	kN	8.90
CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	kN	9.37
Reduced embedment depth	h_{nom}	kN	6.23

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Size			Ø 6
DESIGN LOAD			
TENSION LOAD			
NON-CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	-	8.00
Reduced embedment depth	h_{nom}	-	5.94
CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	-	4.67
Reduced embedment depth	h_{nom}	-	4.16
SHEAR LOAD			
NON-CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	-	8.93
Reduced embedment depth	h_{nom}	-	5.94
CRACKED CONCRETE C20/25			
Standard embedment depth	h_{nom}	-	6.25
Reduced embedment depth	h_{nom}	-	4.16

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Plant Address

Plot no – RY-PH02-M3-008
Raysut – WGS-84-Zone 39
Salalah Free Zone
Salalah, Dhofar, Oman



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