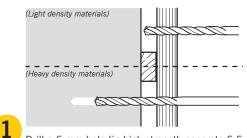
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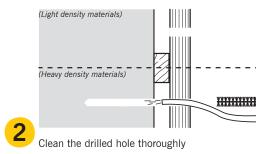
Technical Sheet No. 305

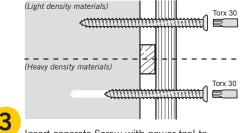
CONCRETE SCREW

Distance screw for fixing door- and windowframes etc. in concrete, solid brick, aerated concrete and other solid materials

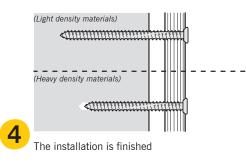


Drill a 6 mm hole (in high strength concrete 6,5 mm) through the fixture and into the wall.In aerated concrete and other porous materials use without pre-drilling





Insert concrete Screw with power tool to recommended embedment depth





Advantages:

Fast and easy fixing.

Expansion free fixing.

Fixing without applying plug.

- Torx 30, both with countersunk and cylinder head.
- Wax treated for easy fixing.

Milling ribs - stress-free embedment.

Milling notches - security of anchorage.

No pre-drilling in porous / light density materials.

7,5x42 mm with Panhead is especially recommended for fixing of brackets.

Materials:

Expandet Concrete Screw is zinc plated min. 5 µm and wax-treated. Expandet Concrete Screw - Ruspert® is supplied with Ruspert coating (3 layer anti-corrosive):

- 1. layer: 5 µm zinc.
- 2. layer: Chemical anti-corrosive binding agent.
- 3. layer: 10 µm ceramic coating.

Further information:

See overleaf.



EXPANDET SCREW ANCHORS A/S Svendebuen 2-6 DK-3230 Græsted Denmark

Version 09.001

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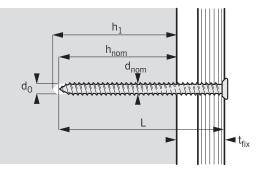
www.expandet.com expandet@expandet.dk

Installation:

Technical Sheet No. 305

EXPANDET.

CONCRETE SCREW



Туре	Dime	Dimensions		Countersunk head [▼]		Cylinder head $^{\bigtriangledown}$	
	d _{nom}	L					
Expandet Concrete Screw mm	Outside diameter of anchor mm	Anchor length mm	Zinc plated	Ruspert ®	Zinc plated	Ruspert ®	
7,5 x 42 *	7,5	42	\checkmark		\checkmark		
7,5 x 52	7,5	52	\checkmark		\checkmark		
7,5 x 62	7,5	62	\checkmark		\checkmark		
7,5 x 72	7,5	72	\checkmark	\checkmark	\checkmark	\checkmark	
7,5 x 92	7,5	92	\checkmark	✓	\checkmark	\checkmark	
7,5 x 112	7,5	112	\checkmark	\checkmark	\checkmark	\checkmark	
7,5 x 132	7,5	132	\checkmark	\checkmark	\checkmark	\checkmark	
7,5 x 152	7,5	152	\checkmark		\checkmark		
7,5 x 182	7,5	182	\checkmark		\checkmark		
7,5 x 212	7,5	212	\checkmark		\checkmark		

Diameter of countersunk head:

12,0 mm 8,5 mm

I	Diameter	ot	cylinder	head:	

Туре	Fixing			Load Capacities			
	d _o	h _{nom}		C _{min}	S _{min}	N _{Rd}	V _{Rd}
Expandet Concrete Screw	Drill hole diameter mm	Embedment depth (minimum) mm	Embedment depth (maksimum) mm	Minimum edge distance mm	Minimum spacing mm	Design resistance tension kN [⊗]	Design resistance Shear kN [◊]
Concrete (20 N/mm ²)	6	30	40	50	60	2,10	1,80
Solid brick (15N/mm ²) •	6	40	50	50	60	1,04	0,85
Aerated concrete (PP4) *		80	80	50	100	0,62	0,28
Aerated concrete (PP2) *		60	60	50	100	0,22	0,08
Sand lime brick	6	40	50	50	60	1,00	0,85

No pre-drilling in aerated concrete. Concrete Screw is screwed directly into the aerated concrete. Use low setting torque due to the light density of the aerated concrete.

Drilling with reduced or without hammer action.

Design resistance for tension is valid for a single anchor not influenced by edge distance and / or spacing.

 \diamond Design resistance for shear is valid for a single anchor not influenced by edge distance and / or spacing.

Combined resistance shall be verified if both tension and shear actions are applied. See "Principles for Fastening" page 5 (Verification Method 1).

Partial safety factor for material (γ_m) is included. Partial safety factor for actions (γ_r) must be applied according to national building code.

Important: See Expandet's "Principles for fastening" for general information on fastening as well as information on limited liability. (Can be downloaded at www.expandet.com)



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Version 09.001

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