

Mini Tapcon



Substrates

- Concrete
- Masonry
- Pre-cast hollow concrete beams
- Wood

Approvals

Danish Technology Institute Approved

Applications

- Clips and brackets
- Back boxes
- Mini trunking
- Curtain tracks
- Lighting fixtures
- Shelving
- Bathroom accessories, Sanitaryware
- Kitchen cabinets

Drill, Drive, Done

Masonry fastening system that cuts its own thread into brick and concrete. No requirement for plastic plugs.

Specification

Diameter	4mm
Thread form	Reversed Hi-Lo®
Point type	Nail
Finish	Yellow chromate electro galvanized to 8µm

Head Styles



Phillips Drive

4mm Diameter: P2 Phillips

Installation Equipment

- Rotary Hammer (SP21, 322, 327, HDI 244)
- Correct size drill bit
- Condrive Kit (Condrive 1000)

Installation

1. Drill pilot hole 10mm deeper than recommended anchor embedment.
2. Insert Phillips socket into head of Mini Tapcon anchor.
3. Put point of anchor into pre-drilled hole and drive until anchor is fully seated.
4. Ensure that the Drill / Driver tool is not set to hammer action during installation.
5. Test fixing is recommended to ensure torque setting of drill is not too high.

Product Range - Mini Tapcon - Countersunk Head

Eurocode	Anchor Length	Thread Diameter	Drill Diameter	Drill Depth	Minimum Embedment	Max Fixture Thickness	Drive Style
921494	25mm	4mm	3mm	34mm	24mm	24mm	P2
921495	35mm	4mm	3mm	35mm	25mm	25mm	P2
921496	45mm	4mm	3mm	20mm	25mm	35mm	P2
921497	55mm	4mm	3mm	30mm	25mm	35mm	P2

Accessories

Eurocode	Description	Diameter	Length	Drive Style
P2	Phillips			N° 2 Driver Bit
921548	3 x 110 Straight Shank	3mm	110mm	Straight Shank Drill Bit
921549	3 x 110 SDS	3mm	110mm	SDS Drill Bit

Maximum Tensile Load

Brick Grade	Embedment Depth*	Tensile
0.5N/mm ²	19mm	0.31kN
1.5N/mm ²	19mm	0.41kN
2.2N/mm ²	19mm	0.48kN
3.0N/mm ²	19mm	0.55kN
3.7N/mm ²	19mm	0.62kN

*Minimum embedment depth = 25mm less screw point approx. 6mm F_{ud} (brick) = $(0.5 \times \text{compressive strength} + 14) \times \text{embedment depth}$

Concrete

Tensile loads for Mini Tapcon in concrete should be calculated as follows:

F_{ud} (concrete) = 25 x Embedment depth (without 6mm point)

$25 \times 19 = 475\text{N}$ (0.48kN) Safe working load

Porous Concrete

When fastening into porous concrete in most cases pilot drilling is unnecessary

F_{ud} (Porous Concrete) = 8 x Embedment depth (without 6mm point)

$8 \times 19 = 152\text{N}$ (0.15kN) Safe working load