

## Spit Countersunk and Hex Head Tapcon Concrete Screw Range



### Drill, Drive, Done

The original masonry fastening system that cuts it's own thread into concrete, brick and hollow block.

### Product Advantages

- Fast installation, Drill, Drive, Done
- Available in M5 and M6 and in lengths from 32 - 125mm, to cover a wide number of applications
- Every box includes a free 'close tolerance' masonry bit
- Replaces small diameter expansion anchors, plugs and screws in light to medium duty applications
- No need to pre-spot holes, no inserts are required
- Removable - adjustable
- Can be installed close to edges
- Slotted Hex and Phillips flat head styles give flexibility in applications
- Excellent corrosion protection
- Fire resistant

### Specification

Diameter	5mm and 6mm
Thread form	Reversed Hi-Lo®
Point type	Nail
Finish	Blue Climaseal
Kesternich Results (DIN 5008, 2.0L)	= 30 Cycles - 10% or less red rust

### Corrosion - Salt spray results (ASTM B117)

Salt Spray Results (ASTM B117) = 750 Hours - 10% or less red rust

### Head Styles



#### Phillips Flat Head

5mm Diameter: P2 Phillips Flat Head  
6mm Diameter: P3 Phillips Flat Head



#### Slotted Hex Washer Head

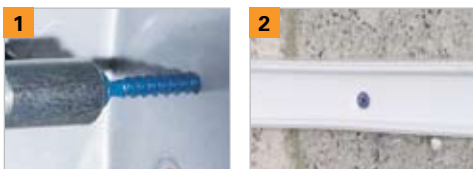
5mm Diameter: 6.5mm Slotted Hex Washered Head  
6mm Diameter: 8mm Slotted Hex Washered Head

### Substrates

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

### Approvals

SBCCi Approved 9759  
Metro-Dade Approved 02 - 0311 - 03  
ICBO Approved 3370  
Finlay Breton Approved



1. With Condrive Sleeve off and drill bit exposed, drill pilot hole deeper than recommended anchor embedment. Snap correct anchor socket / drive bit onto end of Condrive Sleeve. Slide Condrive Sleeve over drill bit.
2. Insert head of Tapcon anchor into Hex or Phillips socket.
3. Put point of anchor into pre-drilled hole and drive until anchor is fully seated.
4. Ensure that the drilling tool is not set to hammer action during installation.

### Mechanical and Electrical Applications

#### Fixing Electrical Accessories

- Saddles
- Conduit clips
- Back boxes
- P Clips
- Cable clips
- Cable cleats

#### Services

- Ductwork
- Cable trays, channel
- Suspended ceilings

### Steel and Concrete Applications

#### Timber to Concrete

- Formwork
- Battens
- Base plates
- Plywood backer boards

#### Metalwork

- Railings, hand rails
- Gates, brackets and signs
- Fire protection and exterior insulation systems to masonry

## Spit Countersunk and Hex Head Tapcon Concrete Screw Range

### Product Range - Spit Countersunk Tapcon



Eurocode	Description	Thread Diameter	Drive Style	Fixture Thickness	Anchor Length	Hole Diameter	Min Hole Depth	Min Embed	Box Qty*
921507	3F32	5mm	P2	0 - 7mm	32mm	4mm	35mm	25mm	100
921508	3F45	5mm	P2	5 - 20mm	45mm	4mm	35mm	25mm	100
921509	3F57	5mm	P2	17 - 32mm	57mm	4mm	35mm	25mm	100
921510	3F70	5mm	P2	30 - 45mm	70mm	4mm	35mm	25mm	100
921511	3F82	5mm	P2	42 - 57mm	82mm	4mm	35mm	25mm	100
921512	3F100	5mm	P2	60 - 75mm	100mm	4mm	35mm	25mm	100
921513	4F32	6mm	P3	0 - 7mm	32mm	5mm	35mm	25mm	100
921514	4F45	6mm	P3	5 - 20mm	45mm	5mm	35mm	25mm	100
921515	4F57	6mm	P3	17 - 32mm	57mm	5mm	35mm	25mm	100
921516	4F70	6mm	P3	30 - 45mm	70mm	5mm	35mm	25mm	100
921517	4F82	6mm	P3	42 - 57mm	82mm	5mm	35mm	25mm	100
921518	4F100	6mm	P3	60 - 75mm	100mm	5mm	35mm	25mm	100
921519	4F125	6mm	P3	85 - 100mm	125mm	5mm	35mm	25mm	100

### Product Range - Spit Countersunk Tapcon Cut Box Range

Eurocode	Description	Thread Diameter	Drive Style	Fixture Thickness	Anchor Length	Hole Diameter	Min Hole Depth	Min Embed	Box Qty*
921530	3F57	5mm	P2	17 - 32mm	57mm	4mm	35mm	25mm	20 x 25
921531	3F70	5mm	P2	30 - 45mm	70mm	4mm	35mm	25mm	20 x 25
921532	4F82	6mm	P3	42 - 57mm	82mm	5mm	35mm	25mm	20 x 25
921533	4F100	6mm	P3	60 - 75mm	100mm	5mm	35mm	25mm	15 x 25

### Product Range - Spit Hex Head Tapcon



Eurocode	Description	Thread Diameter	Drive/Socket Style	Fixture Thickness	Anchor Length	Hole Diameter	Min Hole Depth	Min Embed	Box Qty*
921498	3H32	5mm	6.5mm Hex	0 - 7mm	32mm	4mm	35mm	25mm	100
921499	3H45	5mm	6.5mm Hex	5 - 20mm	45mm	4mm	35mm	25mm	100
921500	3H57	5mm	6.5mm Hex	17 - 32mm	57mm	4mm	35mm	25mm	100
921501	4H32	6mm	8mm Hex	0 - 7mm	32mm	5mm	35mm	25mm	100
921502	4H45	6mm	8mm Hex	5 - 20mm	45mm	5mm	35mm	25mm	100
921503	4H57	6mm	8mm Hex	17 - 32mm	57mm	5mm	35mm	25mm	100
921504	4H70	6mm	8mm Hex	30 - 45mm	70mm	5mm	35mm	25mm	100
921505	4H82	6mm	8mm Hex	42 - 57mm	82mm	5mm	35mm	25mm	100
921506	4H100	6mm	8mm Hex	60 - 75mm	100mm	5mm	35mm	25mm	100

\* Supplied complete with one 'D' end rotary percussion masonry drill bit in every box.

## Spit Countersunk and Hex Head Tapcon Concrete Screw Range

### Product Range - Hex Head Tapcon Cut Box Range

Eurocode	Description	Thread Diameter	Drive/Socket Style	Fixture Thickness	Anchor Length	Hole Diameter	Min Hole Depth	Min Embed	Box Qty
921526	3H32	5mm	6.5mm Hex	0 - 7mm	32mm	4mm	35mm	25mm	20 x 25
921527	4H32	6mm	8mm Hex	0 - 7mm	32mm	5mm	35mm	25mm	20 x 25
921528	4H45	6mm	8mm Hex	5 - 20mm	45mm	5mm	35mm	25mm	20 x 25
921529	4H82	6mm	8mm Hex	42 - 57mm	82mm	5mm	35mm	25mm	15 x 25

### Product Range - Countersunk Tapcon Accessories

Eurocode	Description	Box Qty
921159	CD1000 - Condrive Tool Boxed Set	1
P2	Phillips N° 2 Driver Bit	1
P3	Phillips N° 3 Driver Bit	1

### Product Range - Hex Head Tapcon Accessories

Eurocode	Description	Box Qty
921159	CD1000 - Condrive Tool Boxed Set	1
921557	6.5mm DrivTru Socket for 5mm Ø Hex Head Tapcon	1
921469	8mm DrivTru Socket for 6mm Ø Hex Head Tapcon	1

### Product Range - Countersunk and Hex Head Tapcon Drill Bits

Eurocode	Code	Description	Anchor length	Box Qty
921126	3D110	4 x 110 Tapcon Drill Bit	32 - 70mm	1
921127	3D140	4 x 140 Tapcon Drill Bit	82 - 100mm	1
921138	4D110	5 x 110 Tapcon Drill Bit	32 - 70mm	1
921139	4D140	5 x 140 Tapcon Drill Bit	82 - 100mm	1
921140	4D165	5 x 165 Tapcon Drill Bit	125mm	1

### Product Range - Drill Bits for use with Condrive Sleeve

Eurocode	Code	Description	Anchor length	Box Qty
921137	3SD180	SDS 4 x 180 Tapcon Drill Bit	Up to 100mm	1
921154	4SD180	SDS 5 x 180 Tapcon Drill Bit	Up to 100mm	1

### Performance Data - Tapcon Basic Strength Figures

Anchor Diameter	Ultimate Tensile	Ultimate Shear
5mm	8.33kN	4.69kN
6mm	17.37kN	9.41kN

## Spit Countersunk and Hex Head Tapcon Concrete Screw Range

### Performance Data - Tapcon Recommended\* Shear and Tensile Values in Concrete

Anchor Ø	Hole Ø	Embed Depth	Med Density Block Tensile	Med Density Block Shear	20N / mm <sup>2</sup> Con Tensile	20N / mm <sup>2</sup> Con Shear	25N / mm <sup>2</sup> Con Tensile	25N / mm <sup>2</sup> Con Shear	35N / mm <sup>2</sup> Con Tensile	35N / mm <sup>2</sup> Con Shear
5mm	4mm	25mm	0.36kN	1.1kN	0.5kN	1.23kN	0.6kN	1.23kN	0.66kN	1.26kN
5mm	4mm	32mm	0.66kN	1.16kN	0.86kN	1.26kN	0.9kN	1.23kN	0.93kN	1.26kN
5mm	4mm	38mm	0.93kN	1.2kN	1.26kN	1.26kN	1.3kN	1.3kN	1.36kN	1.33kN
5mm	4mm	44mm	1.13kN	1.36kN	1.56kN	1.5kN	1.66kN	1.5kN	1.83kN	1.5kN
6mm	5mm	25mm	0.76kN	1.66kN	1.06kN	2.16kN	1.2kN	2.3kN	1.36kN	2.46kN
6mm	5mm	32mm	1.23kN	1.9kN	1.7kN	2.36kN	1.83kN	2.46kN	2.06kN	2.56kN
6mm	5mm	38mm	1.66kN	1.9kN	2.6kN	2.4kN	2.36kN	2.5kN	2.5kN	2.6kN
6mm	5mm	44mm	1.96kN	2.23kN	2.76kN	3.03kN	3.03kN	3.2kN	3.33kN	3.26kN

### Performance Data - Tapcon Recommended\* Shear and Tensile Values in Hollow Block

Anchor Diameter	Hole Diameter	Embedment Depth	Tensile Loads	Shear Loads
5mm	4mm	25mm	0.3kN	-
5mm	4mm	32mm	0.53kN	1.1kN
5mm	4mm	38mm	0.7kN	-
5mm	4mm	44mm	0.8kN	-
6mm	5mm	25mm	0.6kN	-
6mm	5mm	32mm	0.9kN	1.56kN
6mm	5mm	38mm	1.26kN	-
6mm	5mm	44mm	1.46kN	-

### Performance Data - Tapcon Recommended\* Values in Richard Lees Spiroll™ Concrete Floor and Roof Units

Anchor Diameter	Hole Diameter	Embedment Depth	Tensile Load
5mm	4mm	27mm	1.76kN
5mm	4mm	32mm	3.18kN
6mm	5mm	27mm	1.92kN
6mm	5mm	32mm	3.6kN

### Performance Data - Tapcon Recommended\* Values in Trent Jetfloor™ Concrete Flooring Systems

Anchor Diameter	Hole Diameter	Embedment Depth	Tensile Load
5mm	4mm	27mm	1.00kN
5mm	4mm	32mm	1.75kN
6mm	5mm	27mm	1.21kN
6mm	5mm	32mm	1.92kN

### Performance Data - Tapcon Recommended\* Values in Bison™ Pre-cast Floor Units

Anchor Diameter	Hole Diameter	Embedment Depth	Tensile Load
5mm	4mm	32mm	1.77kN
6mm	5mm	32mm	2.76kN

Bison is a registered trademark of Bison Floors Ltd. Jetslab is a registered trademark of Trent Jet Floor Ltd. Spiroll and Tembo is a registered trademark of Richard Lees Ltd. \*A safety factor of 3 has been taken into consideration for a single installation (anchor) to calculate the safe working load.

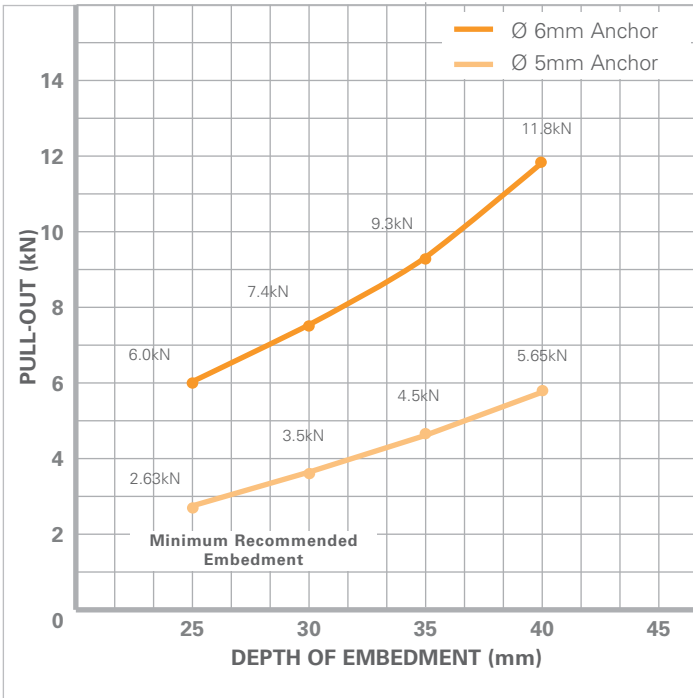
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### Performance Data - Tapcon Strength and Reliability

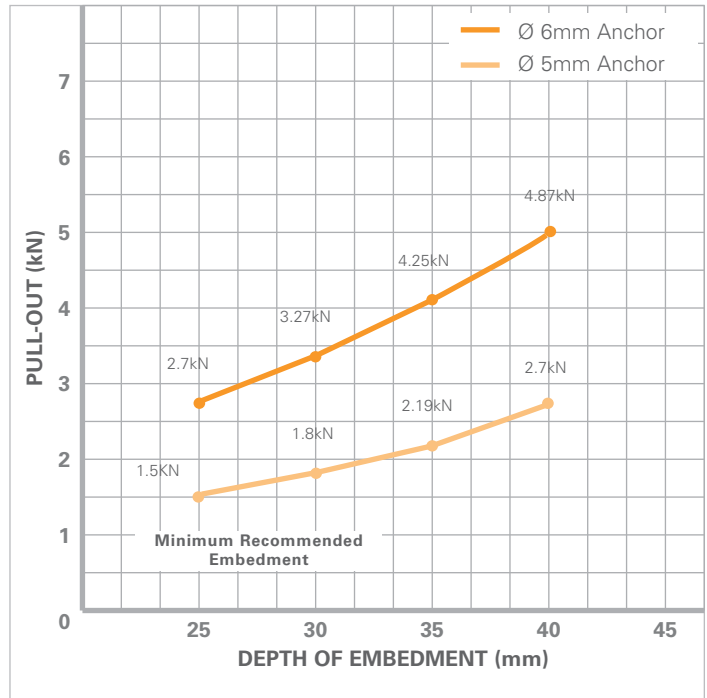
Tapcon masonry anchors are manufactured from special high quality cold forming steel, heat treated to give hard cutting surfaces for efficient thread cutting action in a wide variety of masonry materials. The standard finish on Tapcon anchors is electroplated and passivated zinc with colour identifying blue coating.

Rigid quality control in all phases of production ensures consistent and reliable performance. Tapcon anchors have been laboratory tested on an Avery Denison testing machine in concrete product manufacturers' standard materials. Appropriate curing times were allowed for the masonry test blocks to ensure reliable results.

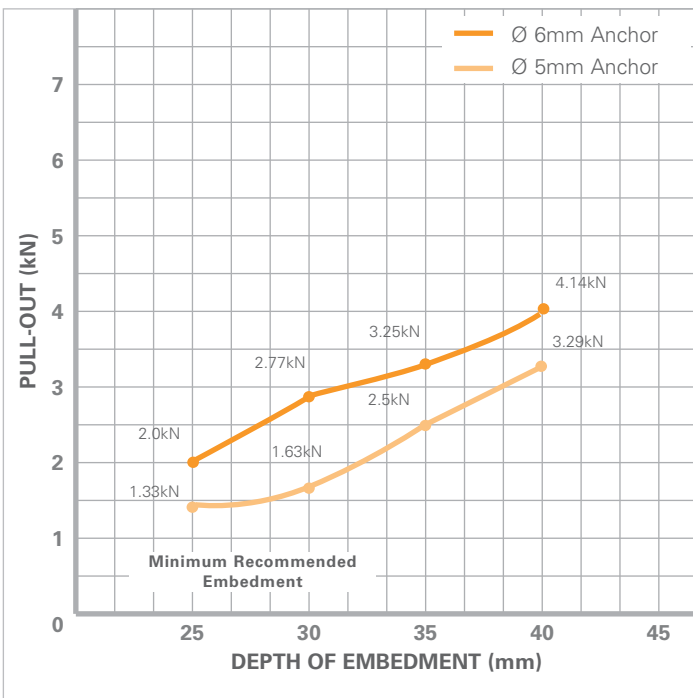
#### 40 Newton Concrete



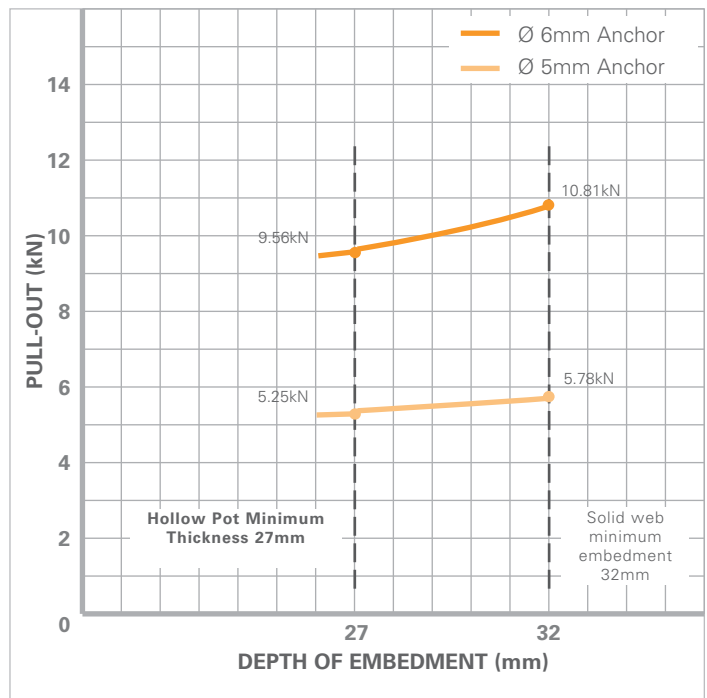
#### Typical Dense Concrete Block



#### Common Brick



#### Typical Hollow Concrete Beam



NB. All loads detailed above are ultimate failure loads and should have a safety factor of 3 applied.

