

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

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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 ² Con Tensile | 20N / mm ² Con Shear | 25N / mm ² Con Tensile | 25N / mm ² Con Shear | 35N / mm ² Con Tensile | 35N / mm ² 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.

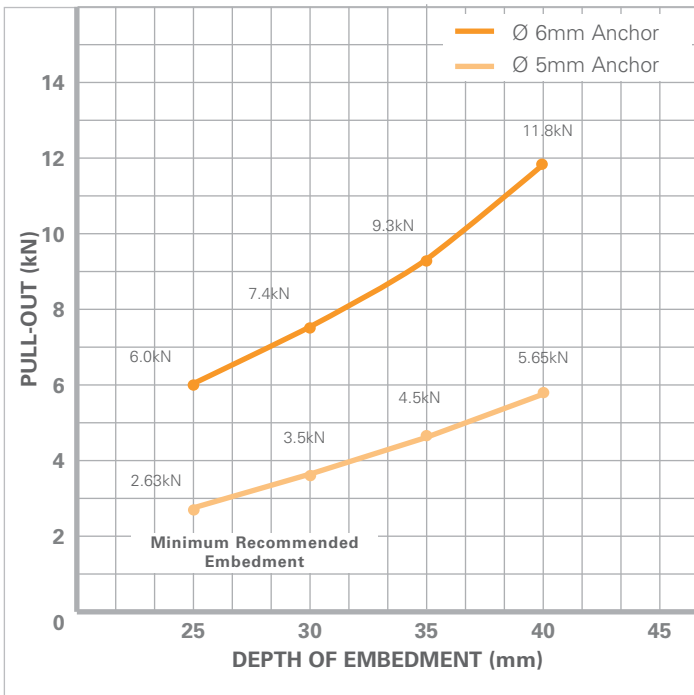
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Performance Data - Tapcon Strength and Reliability

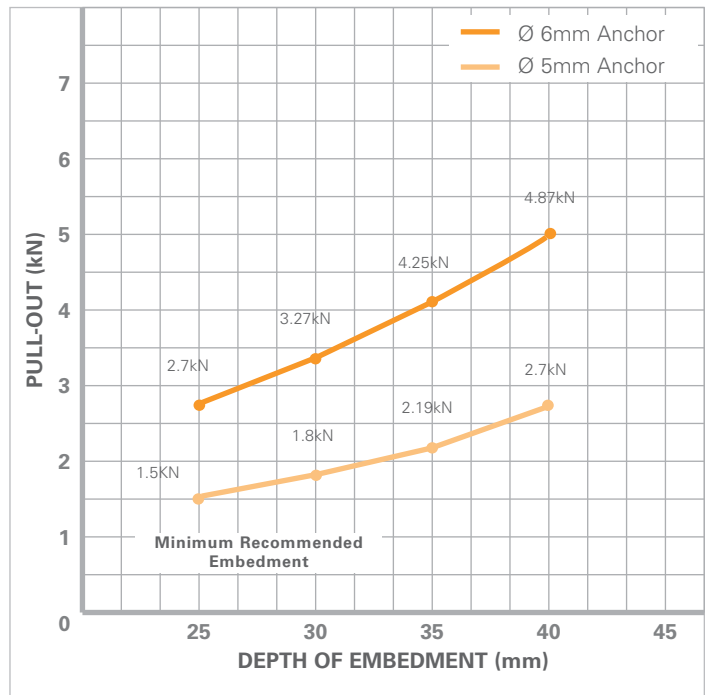
Tapcon masonry anchors are manufactured from special high quality cold forming steel, heat treated to give hard cutting surfaces for efficient thread cutting action in a wide variety of masonry materials. The standard finish on Tapcon anchors is electroplated and passivated zinc with colour identifying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

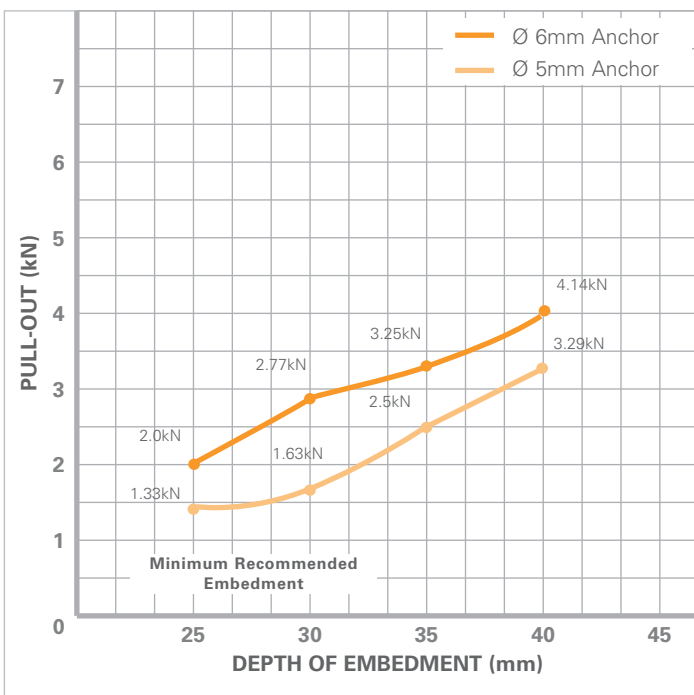
40 Newton Concrete



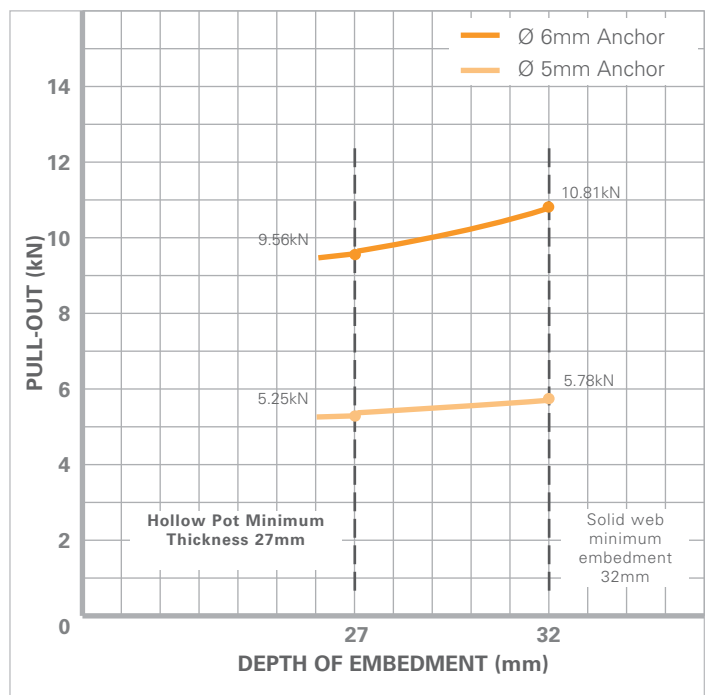
Typical Dense Concrete Block



Common Brick



Typical Hollow Concrete Beam



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

