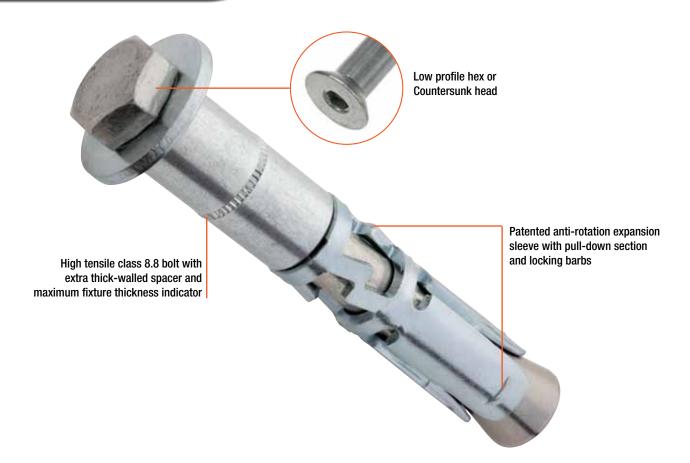
SpaTec[™] Plus Safety Anchors





Description

The SpaTec[™] Plus Safety Anchor is a heavy duty, torque controlled expansion anchor, with an integrated pull-down section, designed for high performance in both static and dynamic load applications, in both cracked and non-cracked concrete[™]. The SpaTec[™] Plus is ideally suited for through fixing into concrete when security and reliability are paramount.

Whether a concrete element is classified as cracked or non-cracked is to be determined by a qualified structural engineer.

Specification

opcomoation	
Material - Bolt	Class 8.8 High Tensile Carbon Steel
	(316 (A4) Stainless Steel available to order)
Corrosion Protection	Zinc Plating
Head Styles	Hex or Countersunk. (SP16145ESS-Hex Nut)
Fixing Method	Through Fixture
Setting Method	Torque Controlled
Anchoring Method	Expansion
Thread Diameters	M10, M12, M16, M20
Drilled Hole Diameters	15mm,18mm, 24mm, 28mm
Anchor Lengths	105mm, 110mm, 120mm, 130mm,
	145mm, 170mm
Maximum Fixture Thickness'	10mm, 20mm, 25mm, 27mm, 40mm
Indicative Working	Max Tensile 16.7kN - 46.0kN
Loads in 32MPa Concrete*	Max Shear 19.3kN - 75.8kN
Substrates	Concrete

Related Products

DynaDrill™ Carbide Drill Bits Diamond Motor Diamond Core Drill Bits

* Refer to load table

Hole Cleaning Brush Hole Cleaning Pump Wet and Dry Vacuum



Features & Benefits

- The combination of a high tensile class 8.8 bolt with an extra thick-walled spacer allows a smaller diameter bolt to be used for easier installation while still providing both excellent tensile and shear performance. The spacer also incorporates a visual maximum fixture thickness indicator for ease of use.
- The patented anti-rotation expansion sleeve is designed with sharp angled
 protrusions that grip the sides of the hole, preventing anchor rotation
 during installation. As expansion of the sleeve begins, the locking barbs
 also grip the sides of the hole, further embedding as expansion
 progresses, giving extra holding power. The sleeve pulls down during
 tightening ensuring excellent pressure between the fixture and the
 concrete
- The low profile hex or countersunk heads provide a neat finish.



SpaTec[™] Plus Safety Anchors

Trades & Applications

	Steel	Maintenance	Plumbing	Electrical	Construction	Elevator
	Fabricator	Fitter	Contractor	Contractor	Contractor	Installer
Anchoring structural steel columns/beams	✓					
Anchoring HVAC units			/	✓		
Machinery hold down		✓				
Anchoring crane rails					V	
Anchoring Elevator Guide Rails						V

Installation

- 1. Drill or core a hole to the recommended diameter and depth using the fixture as a template. Clean the hole thoroughly with a hole cleaning brush. Remove the debris with a hand pump, compressed air, or vacuum.
- After ensuring that the anchor is assembled correctly, insert the anchor through the fixture and drive with a hammer until the washer contacts the fixture.
- 3. Tighten the bolt with a torque wrench to the specified assembly torque.











SpaTec[™] Plus Safety Anchors - Hex Bolt - Zinc Plated

Part No	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
SP10105	M10	20	105	15	17	95	90	25
SP12105	M12	10	105	18	20	95	90	25
SP12120	M12	25	120	18	20	115	105	25
SP16145	M16	25	145	24	26	135	125	10
SP20170	M20	25	170	28	32	165	150	5





SpaTec[™] Plus Safety Anchors - Countersunk Head - Zinc Plated

Part No	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
SP10105F	M10	27	105	15	17	95	97	25
SP12120F	M12	40	130	18	20	105	120	10





Available to order. Lead times apply.

SpaTec[™] Plus Safety Anchors - Hex Bolt - Stainless Steel Grade AISI 316 (A4)

Part No	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
SP10110SS	M10	25	110	15	17	100	90	25
SP12120SS	M12	25	120	18	20	115	105	25
SP16145ESS*	M16	25	145	24	26	130	125	10

SpaTec[™] Plus Safety Anchors - Indicative Working Loads in 32MPa Concrete

Thread	Embedment	Tightening	Min Edge	Min Anchor	Max Tensile	Max Shear
Size	Depth (mm)	Torque (Nm)	Distance (mm)	Spacing (mm)	Load, N _a (kN)*	Load, V _a (kN)*
M10	80	50	120	240	16.7	19.3
M12	95	80	145	285	22.6	27.6
M16	115	120	175	345	32.4	52.3
M20	140	200	210	420	46.0	75.8

*The design engineer should ensure the structural element is capable of supporting these loads.

Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data.