

## Spit Dynabolt® Sleeve Anchor



### The original dynamic bolting fastener

Twists, shortens and pulls down to increase holding power.

### Product Advantages

- Through fixing - no marking out and repositioning
- Fully assembled
- Variety of head styles
- Unique sleeve design collapses during tightening to provide pull down onto fixture
- Integral nut and washer
- Finished head anchors, bolt can be easily removed

### Substrates

- Concrete
- Solid block
- Solid brick

### Head Styles



- A. Hex Nut
- B. Hex Bolt
- C. Countersunk Head

### Specification

Upon tightening, the Dynabolt® pulls down and shortens in length. This dynamic action creates tremendous holding power while at the same time pulling down uneven base plates.

Dynabolt thin walled, torque controlled expansion anchor, installed through the fixture, sets by tightening the bolt or nut, pulling a tapered expansion cone nut into an expanding sleeve. The anchor exerts a clamping force onto the fixture, securing it against the surface of the substrate.

Patented designed collapsible centre section, produces a further clamping down of uneven surfaces.

#### Zinc Plated Version

Bolt grade 6.8, sleeve min UTS 340 N/mm<sup>2</sup>, expansion cone min UTS 520 N/mm<sup>2</sup>, zinc cobalt plated 5µm.

#### Stainless Steel Version

Bolt grade A4 - 316 sleeve, sleeve min UTS 250 N/mm<sup>2</sup>, expansion cone min UTS 340 N/mm<sup>2</sup>

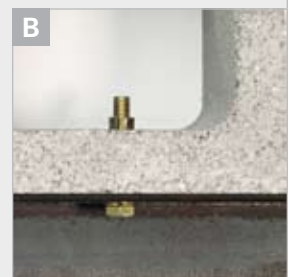
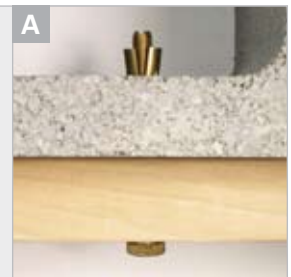
### Typical Applications



- Timber to concrete, formwork, battens, bottom plates
- Services - Ductwork, pipe brackets, cable trays, suspended ceilings
- Metalwork - Signs, handrails, gates
- Light to medium duty loading

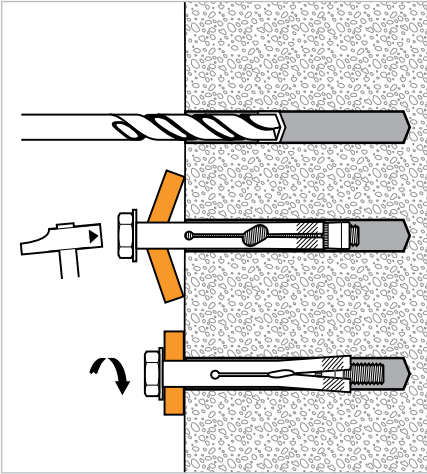
A. Dynabolt® is ideal for attaching wood to concrete, concrete block or brick

B. Dynabolt® offers excellent holding strength for attaching steel ledgers



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### Installation



1. Drill correct diameter hole to recommended depth for the Dynabolt® selected.
2. Remove debris from hole by blowing out with compressed air or hand held blow out pump.
3. Insert anchor through fixture and tap in until washer contacts fixture.
4. Tighten bolt with a torque wrench to the recommended tightening torque for the Dynabolt® selected.

### Product Range - Dynabolt® Plus Sleeve Anchor Hex Nut - Zinc Cobalt plating (300 hours salt spray tested)



Eurocode	Code	Thread Diameter	Max Fixture Thickness	Overall Anchor Length	Anchor/Hole Diameter	Min Hole Depth	Effective Embedment	Box Qty
050231	DP06026	M4.5	5mm	25mm	6mm	35mm	26mm	100
050232	DP06040	M4.5	8mm	38mm	6mm	35mm	26mm	100
050233	DP06060	M4.5	27mm	57mm	6mm	35mm	26mm	100
050234	DP08040	M6	8mm	40mm	8mm	45mm	26mm	100
050235	DP08065	M6	30mm	66mm	8mm	45mm	30mm	50
050236	DP08090	M6	53mm	92mm	8mm	45mm	30mm	50
050237	DP10040	M8	6mm	41mm	10mm	50mm	34mm	50
050238	DP10050	M8	8mm	49mm	10mm	50mm	34mm	50
050239	DP10075	M8	35mm	76mm	10mm	50mm	34mm	50
050240	DP10100	M8	62mm	103mm	10mm	50mm	34mm	25
050241	DP10125	M8	84mm	125mm	10mm	50mm	34mm	25
050242	DP12060	M10	12mm	55mm	12mm	65mm	35mm	25
050243	DP12070	M10	18mm	70mm	12mm	65mm	44mm	25
050244	DP12100	M10	46mm	98mm	12mm	65mm	44mm	20
050245	DP12125	M10	74mm	126mm	12mm	65mm	44mm	20
050246	DP16065	M12	12mm	62mm	16mm	65mm	39mm	20
050247	DP16110	M12	49mm	106mm	16mm	65mm	46mm	10
050248	DP16140	M12	83mm	140mm	16mm	65mm	46mm	10
920409	DP20080	M16	20mm	81mm	20mm	70mm	50mm	10
050250	DP20115	M16	52mm	113mm	20mm	70mm	50mm	5
920411	DP20160	M16	96mm	157mm	20mm	70mm	50mm	5

## Spit Dynabolt® Sleeve Anchor

### Product Range - Dynabolt® Plus Sleeve Anchor Hex Nut - Stainless Steel Grade A4-316



Eurocode	Code	Thread Diameter	Max Fixture Thickness	Overall Anchor Length	Anchor/Hole Diameter	Min Hole Depth	Effective Embedment	Box Qty
050274	DP06040SS	M4.5	8mm	40mm	6mm	35mm	26mm	100
920356	DP06060SS	M4.5	27mm	60mm	6mm	35mm	26mm	100
050276	DP08040SS	M6	8mm	40mm	8mm	45mm	26mm	100
050277	DP08065SS	M6	30mm	65mm	8mm	45mm	30mm	50
050278	DP08090SS	M6	56mm	90mm	8mm	45mm	30mm	50
050279	DP10050SS	M8	8mm	50mm	10mm	50mm	34mm	50
920381	DP10075SS	M8	35mm	75mm	10mm	50mm	34mm	50
050282	DP12060SS	M10	3mm	60mm	12mm	65mm	35mm	25
050283	DP12070SS	M10	18mm	70mm	12mm	65mm	44mm	25
050284	DP12100SS	M10	46mm	100mm	12mm	65mm	44mm	20
050285	DP12125SS	M10	74mm	125mm	12mm	65mm	44mm	20

### Product Range - Dynabolt® Plus Sleeve Anchor Hex Bolt - Zinc Cobalt Plated (300 hours neutral salt spray tested)



Eurocode	Code	Thread Diameter	Max Fixture Thickness	Overall Anchor Length	Anchor/Hole Diameter	Min Hole Depth	Effective Embedment	Box Qty
050252	DP08045H	M6	8mm	45mm	8mm	45mm	26mm	100
050253	DP08070H	M6	30mm	70mm	8mm	45mm	30mm	50
050254	DP08095H	M6	56mm	95mm	8mm	45mm	30mm	50
050255	DP10055H	M8	8mm	55mm	10mm	50mm	28mm	50
050256	DP10080H	M8	35mm	80mm	10mm	50mm	34mm	25
920387	DP10105H	M8	62mm	105mm	10mm	50mm	34mm	25
050258	DP12065H	M10	12mm	59mm	12mm	55mm	44mm	25
050259	DP12075H	M10	18mm	75mm	12mm	65mm	44mm	25
050260	DP12105H	M10	46mm	105mm	12mm	65mm	44mm	20
050262	DP16110H	M12	49mm	110mm	16mm	65mm	46mm	10

## Spit Dynabolt® Sleeve Anchor

Product Range - Dynabolt® Plus Sleeve Anchor Countersunk Head - Zinc Cobalt Plating (300 hours neutral salt spray tested)



Eurocode	Code	Thread Diameter	Max Fixture Thickness	Overall Anchor Length	Anchor/Hole Diameter	Min Hole Depth	Effective Embedment	Box Qty
920364	DP08060F	M6	27mm	60mm	8mm	45mm	30mm	100
920370	DP08085F	M6	53mm	85mm	8mm	45mm	30mm	50
050269	DP10075F	M8	35mm	75mm	10mm	50mm	34mm	50
050270	DP10100F	M8	62mm	100mm	10mm	50mm	34mm	50
050271	DP10125F	M8	89mm	130mm	10mm	50mm	34mm	25
920392	DP10150F	M8	110mm	151mm	10mm	50mm	34mm	25

### Dynabolt® Plus Sleeve Anchor Indicative Tensile Loads in Concrete - Maximum Embedment

Thread Ø (mm)	Hole Ø (mm)	Embed Depth (mm)	Torque (Nm)	Centre Spacing (mm)	Edge Dist. (mm)	C20 / 25 (BZP) Tensile Load (kN)	C20 / 25 (S/S) Tensile Load (kN)	C20 / 25 (BZP) Shear Load (kN)	C20 / 25 (S/S) Shear Load (kN)
M4.5	6	25	10	85	90	1.1	1.1	1.2	1.2
M6	8	30	15	95	105	1.9	1.5	2.7	2.7
M8	10	34	35	120	115	2.7	2.1	4.9	4.9
M10	12	44	55	145	145	4.3	3.4	5.4	5.4
M12	16	46	85	200	155	4.5	-	9.4	-
M16	20	50	165	220	200	5.1	-	14.0	-

### Dynabolt® Plus Sleeve Anchor Indicative Tensile Loads in Concrete - Minimum Embedment

Thread Ø (mm)	Hole Ø (mm)	Embed Depth (mm)	Torque (Nm)	Centre Spacing (mm)	Edge Dist. (mm)	C20 / 25 (BZP) Tensile Load (kN)	C20 / 25 (S/S) Tensile Load (kN)	C20 / 25 (BZP) Shear Load (kN)	C20 / 25 (S/S) Shear Load (kN)
M4.5	6	25	10	85	90	1.1	1.1	1.2	1.2
M6	8	26	15	85	90	1.5	n / a	2.7	2.7
M8	10	28	35	100	90	2.0	n / a	4.9	4.9
M10	12	35	55	115	115	3.0	n / a	5.4	5.4
M12	16	39	85	170	130	3.5	n / a	9.4	-
M16	20	50	165	220	200	5.1	n / a	14.0	-