

Multiple Head Styles for a variety of applications

Patented Expansion Sleeve provides "pull-down" onto fixture

## Description

The DynaBolt™ Plus Sleeve Anchor is a medium duty, torque controlled, expansion anchor, with an integrated pull-down section, designed for medium duty anchoring of timber and steel fixtures to concrete, brick or block. The DynaBolt™ Plus is available in a variety of different head styles and finishes.

## Specification

<b>Material</b>	Carbon Steel, Stainless Steel 316 (A4)
<b>Corrosion Protection</b>	Zinc Plating, Hot Dipped Galvanising
<b>Head Style</b>	Hex Nut, Hex Bolt, Countersunk/Flat Head, Round Head, Hook, Eye, Tie Wire
<b>Fixing Method</b>	Through Fixture
<b>Setting Method</b>	Torque Controlled
<b>Anchoring Method</b>	Expansion
<b>Thread Sizes</b>	M4.5, M6, M8, M10, M12, M16
<b>Drilled Hole Diameters</b>	6mm, 8mm, 10mm, 12mm, 16mm, 20mm
<b>Anchor Lengths</b>	26mm, 32mm, 34mm, 38mm, 40mm, 41mm, 45mm, 49mm, 55mm, 57mm, 60mm, 62mm, 65mm, 66mm, 70mm, 75mm, 76mm, 80mm, 81mm, 85mm, 92mm, 98mm, 100mm, 103mm, 105mm, 106mm, 110mm, 113mm, 124mm, 125mm, 126mm, 140mm, 157mm
<b>Maximum Fixture Thickness*</b>	3mm, 5mm, 6mm, 8mm, 10mm, 12mm, 15mm, 20mm, 25mm, 30mm, 32mm, 35mm, 45mm, 49mm, 50mm, 55mm, 60mm, 65mm, 70mm, 80mm
<b>Indicative Working Loads in 32MPa Concrete*</b>	Max Tensile 2.7kN - 16.6kN Max Shear 2.5kN - 15.6kN
<b>Substrates</b>	Concrete, Solid Brick, Solid Block, Hollow Brick, Hollow Block, Hollow Slab

\* Refer to load table



## Features & Benefits

- The DynaBolt™ Plus patented expansion sleeve closes gaps of up to 5mm, pulling down on the fixture to induce clamp load and provide improved security.
- The DynaBolt™ Plus is a fully assembled through fixture anchor. Therefore, assembly, marking out and re-positioning of fixtures is eliminated making installation fast and easy.
- The choice of multiple head styles makes the DynaBolt™ Plus a versatile anchor for a variety of different applications.

## Related Products

DynaDrill™  
Carbide Drill Bits  
Diamond Motor  
Diamond Core Drill Bits

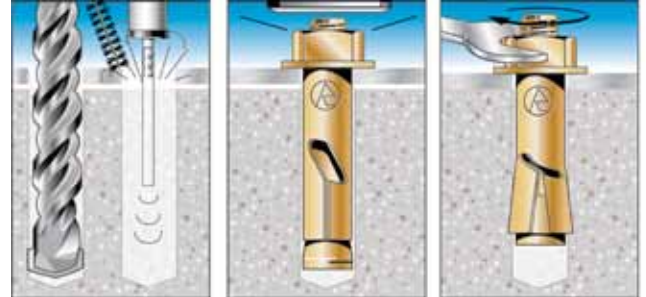
Hole Cleaning Brush  
Hole Cleaning Pump  
Wet and Dry Vacuum  
Screwdriver Bits

## Trades & Applications

	Carpenter	Construction Contractor	Window Installer	Racking Installer
Bottom plates	✓			
Hand rails		✓		
Window frames			✓	
Pallet racking				✓

## 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.
2. Insert the DynaBolt™ Plus through the fixture and drive with a hammer until the washer contacts the fixture.
3. Tighten the DynaBolt™ Plus, allowing the sleeve to twist and pull down the fixture firmly onto the substrate. For optimum performance, a torque wrench should be used.


**Medium Duty Anchors**


## DynaBolt™ Sleeve Anchor Hex Nut - 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
D6026	M4.5	3	26	6	8	30	23	100
DP06040	M4.5	12	38	6	8	45	34	100
DP06060	M4.5	30	57	6	8	55	53	100
DP08040	M6	6	40	8	10	50	34	100
DP08065	M6	25	66	8	10	65	60	50
DP08090	M6	50	92	8	10	75	86	50
DP10040	M8	3	41	10	12	50	34	50
DP10050	M8	20	49	10	12	55	42	50
DP10075	M8	30	76	10	12	65	69	50
DP10100	M8	50	103	10	12	80	96	25
DP10125	M8	80	124	10	12	85	117	25
DP12060	M10	10	55	12	15	70	47	25
DP12070	M10	15	70	12	15	70	62	25
DP12100	M10	45	98	12	15	95	90	20
DP12125	M10	70	126	12	15	95	118	20
DP16065	M12	6	62	16	19	80	51	20
DP16110	M12	35	106	16	19	120	95	10
DP16140	M12	65	140	16	19	120	129	10
DP20080	M16	8	81	20	24	100	70	10
DP20115	M16	25	113	20	24	125	102	5
DP20160	M16	70	157	20	24	155	146	5



### DynaBolt™ Sleeve Anchor Hex Nut - Hot Dipped Galvanised

Part No.	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
DP10040GH	M8	3	41	10	12	50	34	50
DP10050GH	M8	20	49	10	12	55	42	50
DP10075GH	M8	30	76	10	12	65	69	50
DP10100GH	M8	50	103	10	12	80	96	25
DP12060GH	M10	10	55	12	15	70	47	25
DP12070GH	M10	15	70	12	15	70	62	25
DP12100GH	M10	45	98	12	15	95	90	20
DP12125GH	M10	70	126	12	15	95	118	20
DP16065GH	M12	6	62	16	19	80	51	20
DP16110GH	M12	35	106	16	19	120	95	10
DP16140GH	M12	65	140	16	19	120	129	10
DP20080GH	M16	8	81	20	24	100	70	10
DP20115GH	M16	25	113	20	24	125	102	5



### DynaBolt™ Plus Sleeve Anchor Hex Nut - Stainless Steel Grade AISI 316 (A4)

Part No.	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
DP06040SS	M4.5	12	38	6	8	45	34	100
DP06060SS	M4.5	30	57	6	8	55	53	100
DP08040SS	M6	6	40	8	10	50	34	100
DP08065SS	M6	25	66	8	10	65	60	50
DP10050SS	M8	20	49	10	12	55	42	50
DP10075SS	M8	30	76	10	12	65	69	50
DP10100SS	M8	50	103	10	12	80	96	25
DP12060SS	M10	10	55	12	15	70	47	25
DP12070SS	M10	15	70	12	15	70	62	25
DP12100SS	M10	45	98	12	15	95	90	20
DP12125SS	M10	70	126	12	15	95	118	20



### DynaBolt™ Sleeve Anchor Hex Bolt - Zinc Plated

Part No.	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
DP08045H	M6	15	45	8	10	55	34	100
DP08070H	M6	32	70	8	10	65	60	50
DP10045H	M8	8	45	10	12	55	34	50
DP10055H	M8	20	55	10	12	55	42	50
DP10080H	M8	30	80	10	12	80	69	50
DP10105H	M8	60	105	10	12	85	96	25
DP12065H	M10	15	65	12	15	75	47	25
DP12075H	M10	20	75	12	15	75	62	25
DP12105H	M10	50	110	12	15	95	90	20
DP16110H	M12	49	110	16	19	95	95	10


**DynaBolt™ Sleeve Anchor 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 Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
DP08045HSS	M6	15	45	8	10	55	34	100
DP08070HSS	M6	32	70	8	10	65	60	50
DP10045HSS	M8	8	45	10	12	55	34	50
DP10060HSS	M8	20	60	10	12	60	56	50
DP10080HSS	M8	30	80	10	12	80	69	50
DP10105HSS	M8	60	105	10	12	85	96	25
DP12075HSS	M10	20	75	12	15	75	62	25


**DynaBolt™ Sleeve Anchor Round Head - Zinc Plated**

Part No.	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
D6032R	M4.5	5	32	6	8	40	30	100
DP06055R	M4.5	25	55	6	8	50	25	100


**DynaBolt™ Sleeve Anchor Countersunk Head - Zinc Plated**

Part No.	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
D6034F	M4.5	10	34	6	8	40	30	100
DP06060F	M4.5	30	60	6	8	50	25	100
DP06075F	M4.5	45	75	6	8	50	25	100
DP06100F	M4.5	70	100	6	8	60	25	100
DP08060F	M6	20	60	8	10	70	30	100
DP08085F	M6	45	85	8	10	75	30	50
DP10075F	M8	30	75	10	12	85	34	50
DP10100F	M8	55	100	10	12	85	34	50
DP10125F	M8	80	125	10	12	105	34	25


**DynaBolt™ Sleeve Anchor Countersunk Head - Stainless Steel Grade AISI 316 (A4)**

Part No.	Thread Size	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
DP06060FSS	M4.5	30	60	6	8	50	25	100
DP06075FSS	M4.5	45	75	6	8	50	25	100



### DynaBolt™ Sleeve Anchor - Set Lok 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
D06026S	M4.5	-	26	6	-	30	23	500
D06038S	M4.5	-	38	6	-	41	34	100



### DynaBolt™ Sleeve Anchor - Tie Wire 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
D08042E	M6	-	42	8	-	50	34	100



### DynaBolt™ Sleeve Anchor - Hook 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
D08045K	M6	-	47	8	-	55	32	100



### DynaBolt™ Sleeve Anchor - Eye 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
D08045X	M6	-	47	8	-	55	32	100

### DynaBolt™ Sleeve Anchors - Indicative Working Loads in 32MPa Concrete

Anchor Size (mm)	Thread Size	Embedment Depth (mm)	Tightening Torque (Nm)	Min Edge Distance (mm)	Min Anchor Spacing (mm)	Max Tensile Load, N <sub>a</sub> (kN)*	Max Shear Load, V <sub>a</sub> (kN)*
6	M4.5	25	10	55	75	2.7	2.5
8	M6	35	15	60	105	4.2	4.0
10	M8	45	35	70	135	5.9	6.4
12	M10	50	55	75	150	7.7	7.9
16	M12	65	85	100	195	11.9	10.5
20	M16	85	165	130	255	16.6	15.6

\*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.



### DynaBolt™ Decorative Post Head - Tie Wire - 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
REM06	M6	-	44	-	-	-	-	100
REM08	M8	-	47	-	-	-	-	100
REM10	M10	-	52	-	-	-	-	50



### DynaBolt™ Decorative Post Head - Countersunk - Zinc Plated & Stainless Steel 316

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
DF045SS*	M4.5	-	23	-	8	-	-	100
RFM06	M6	-	23	-	10	-	-	100
DF06SS*	M6	-	23	-	10	-	-	100
RFM08	M8	-	27	-	12	-	-	100
DF08SS*	M8	-	27	-	12	-	-	100

\*Denotes Stainless Steel Grade AISI 316 (A4)



### DynaBolt™ Decorative Post Head - Round - Zinc Plated & Stainless Steel 316

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
DR045SS*	M4.5	-	22	-	8	-	-	100
DR06	M6	-	22	-	10	-	-	100
DR06SS*	M6	-	22	-	10	-	-	100

\*Denotes Stainless Steel Grade AISI 316 (A4)