



Ramset™

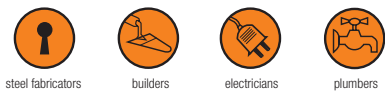
Concrete Results™

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DYNABOLT
Sleeve Anchors

DYNABOLT SLEEVE ANCHORS



DYNABOLT Sleeve Anchors

DynaBolt is a general purpose all steel medium duty through fixing for masonry and concrete. Our patented design sleeve anchor has a unique ability to “pull-down” and ensure a tight and secure anchoring of your fixture.

FOR FIXING TO
Concrete, solid and hollow brick, masonry, natural stone.

- FEATURES**
- Through fixing - no marking out and repositioning.
 - Fully assembled.
 - Variety of head styles.
 - Unique sleeve design collapses during tightening to provide pulldown onto fixture.
 - Integral nut and washer.

APPLICATIONS
Timber to concrete, form work, battens, bottom plates.
Services - ductwork, pipes brackets, cable trays, suspended ceilings.
Metalwork - signs, hand rails, gates.
Light to medium duty loading.

MATERIALS
Carbon Steel
Stainless Steel: AISI 316

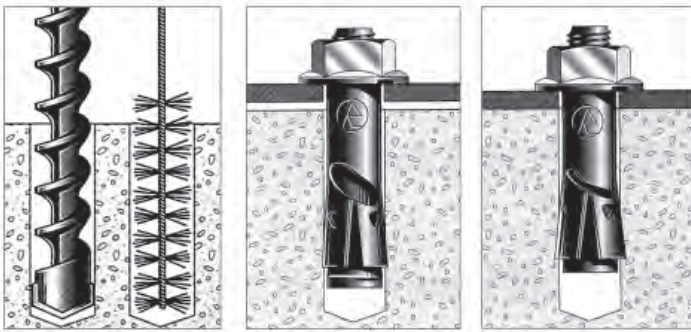
SURFACE FINISH
Zinc Colbolt alloy plating with chromate conversion coating.
Hot dipped galvanized to AS1650-1989.

UNIQUE “PULL-DOWN” CAPABILITY
ENSURES SECURE CLAMPING

The DynaBolt™ Sleeve Anchors “pull-down” capability ensures the fixture is tightly clamped to the concrete surface. This unique patented feature collapses during tightening, allowing the typical gaps that are left between fixture and concrete after initial anchor insertion, to be completely eliminated.

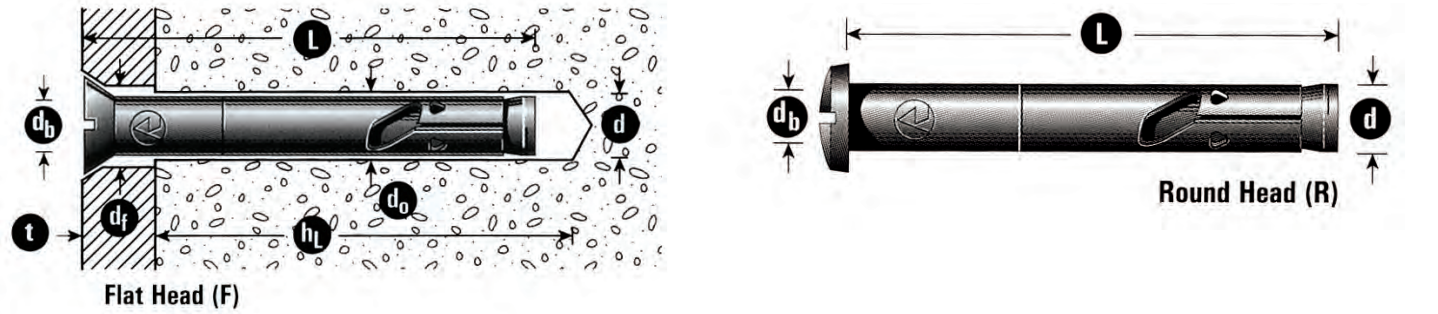
INSTALLATION

1. Use fixture as a template, drill a hole to the correct diameter and depth. Clean hole thoroughly with brush.
2. Remove debris by way of a vacuum or hand pump, compresses air, etc. Insert anchor tightly against fixture and tighten with spanner.
3. Continue tightening, allowing the sleeve to twist and pull down the fixture firmly onto the base material.



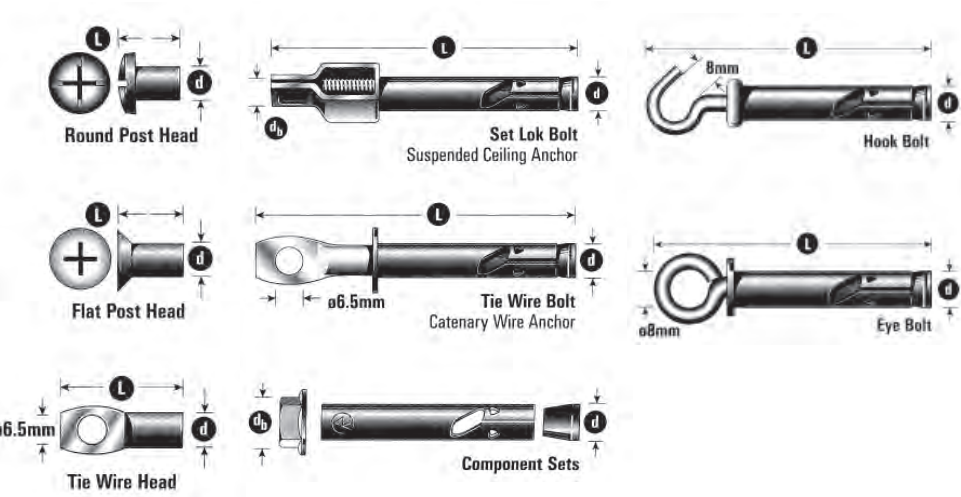
DECORATIVE HEAD

The decorative heads are available for aesthetically pleasing finish, together with all the benefits of DynaBolt™ Sleeve Anchors to securely anchor.



SPECIAL RANGE

A range of special anchors and accessories designed for specific applications.



Eye Bolt & Hook Bolt Anchor Details (max. rec. working load 60kg)					
Anchor size, d (mm)	Anchor length, L (mm)	Thread size, d_b	Hole depth, h_l (mm)	Part no. (Zinc Plated)	Pack Quantity
8 (Hook)	31	M6	40	D08045K	100
8 (Eye)	40	M6	45	D08045X	100

INSTALLATION AND PERFORMANCE DETAILS

ANCHOR SIZE, d (mm)	INSTALLATION DETAILS						MINIMUM DIMENSIONS			WORKING LOAD LIMIT (kN)				PART NO.		Pack quantity
	Effective anchor length, L _e (mm)	Thread size, d _b	Hole diameter, d _o (mm)	Anchor effective depth, h (mm)	Fixture hole diameter, d _f (mm)	Tightening torque, T _r (Nm)	Edge Distance, e _c (mm)	Anchor spacing, a _c (mm)	Substrate thickness, b _m (mm)	Shear, V _a	Tension, N _a			Zinc Plated	Stainless steel A4 (316)	
											Concrete compressive strength, f' _c					
											20Mpa	32Mpa	40Mpa			
6	34	M4.5	6	20	8	10	55	60	40	2.5	1.6	2.1	2.3	DP06040	DP06040SS	100
	53			25			55	75	70		2.2	2.7	3.0	DP06060	DP06060SS	100
8	34	M6	8	30	10	15	60	90	65	4.0	3.0	3.8	4.3	DP08040	DP08040SS	100
	60			35			60	105	100		3.3	4.2	4.7	DP08065	DP08065SS	50
	86			35			60	105	100		3.3	4.2	4.7	DP08090	DP08090SS	50
10	34	M8	10	35	12	35	70	105	70	6.4	3.8	4.8	5.4	DP10040	-	50
	42			35			70	105	70		3.8	4.8	5.4	DP10050	DP10050SS	50
	69			45			70	135	110		4.6	5.9	6.6	DP10075	DP10075SS	50
	96			45			70	135	110		4.6	5.9	6.6	DP10100	DP10100SS	25
	117			45			70	135	110		4.6	5.9	6.6	DP10125	-	25
12	47	M10	12	40	15	55	70	120	85	7.9	4.6	5.9	6.6	DP12060	DP12060SS	25
	62			40			70	120	85		4.6	5.9	6.6	DP12070	DP12070SS	25
	90			50			75	150	120		6.1	7.7	8.6	DP12100	DP12100SS	20
	118			50			75	150	120		6.1	7.7	8.6	DP12125	DP12125SS	20
16	51	M12	16	55	19	85	85	165	95	10.5	7.5	9.5	10.6	DP16065	-	20
	95			65			100	195	140		9.4	11.9	13.3	DP16110	-	10
	129			65			100	195	140		9.4	11.9	13.3	DP16140	-	10
20	70	M16	20	70	24	165	105	210	120	15.6	10.7	13.6	15.2	DP20080	-	10
	102			85			130	255	170		13.1	16.6	18.6	DP20115	-	5
	146			85			130	255	170		13.1	16.6	18.6	DP20160	-	5

For shear loads acting toward the edge(s) of the concrete, the above edge distances and spacings are not applicable, please consult Ramset Technical Consultant.
The factor of safety applied for steel is 2.2 in tension and 2.5 in shear.
The factor of safety applied for concrete is 3.0.

