

Drop-In Anchors



Ramset Drop-In-Anchors

An all steel internally threaded anchor, giving a permanent anchorage point in solid concrete, brick or masonry. For use with machine bolts and threaded rod.

Product Advantages

- Flush fitting with no protrusion when not in use
- Shallow embedment, hence less chance of drilling into rebar, and faster drilling
- Removal of fixture leaves anchor undisturbed
- Setting tool stamp marks to indicate complete expansion
- Visual expansion check with setting tool
- Permanent anchorage point in solid concrete, brick or masonry
- Can be used with all types of bolts, screws and studs

Substrates

- Concrete
- Masonry

Specification

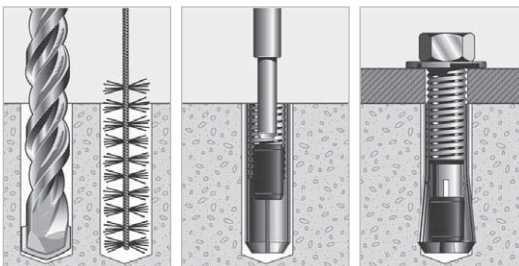
Drop-in-anchor may be set at any depth or flush to the surface. The correct setting tool for each size should be used to guarantee full expansion of the anchor body.

Applications



- Mechanical and electrical services
- Suspension systems (ceilings)
- Cable Trays
- Signs
- Hand rails

Installation



1. Drill the correct diameter hole to the required depth for the Drop-In anchor selected.
2. Clean the hole with a blow out bulb.
3. Push the anchor into the hole.
4. Inset the relevant setting tool of the same diameter as the anchor until it makes contact with the cone. Use a hammer to drive the setting tool into the anchor – stop hammering when the expander shoulder rests against the anchor or when it is blocked (in hard concrete).
5. Tighten to the recommended torque using a torque wrench.

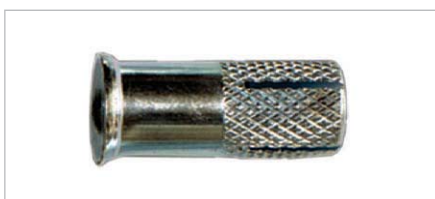
MEDIUM DUTY ANCHORS

Drop-In Anchors - Zinc Plated - Standard



Part No.	Description	Thread Length (mm)	Hole Ø (mm)	Min Hole Depth (mm)	Setting Tool	Order Qty
7C-DSM0-6VVV	DSM06 Drop-In M6x25mm	8	8	28	SETDS1	100
7C-DSM0-8VVV	DSM08 Drop-In M8x30mm	12	10	33	SETDS2	100
7C-DSM1-0VVV	DSM10 Drop-In M10x40mm	16	12	43	SETDS3	50
7C-DSM1-2VVV	DSM12 Drop-In M12x50mm	20	16	53	SETDS4	50
7C-DSM1-6VVV	DSM16 Drop-In M16x65mm	24	20	68	SETDS5	25
7C-DSM2-0VVV	DSM20 Drop-In M20x80mm	28	24	83	SETDS6	25
7C-DSW0-5VVV	DSW05 Drop-In 5/16"x30mm	12	10	33	SETDS2	100
7C-DSW0-6VVV	DSW06 Drop-In 3/8"x40mm	16	12	43	SETDS3	50
7C-DSW0-8VVV	DSW08 Drop-In 1/2"x50mm	20	16	53	SETDS4	50
7C-DSW1-0VVV	DSW10 Drop-In 5/8"x65mm	24	20	68	SETDS5	25

Drop-In Anchors - Zinc Plated - Flanged



Part No.	Description	Thread Length (mm)	Hole Ø (mm)	Min Hole Depth (mm)	Setting Tool	Order Qty
7C-DSFI-0VVV	DSF10 Drop-In M10x30mm	10	12	33	SETDS3	50
7C-DSFW-06VV	DSFW06 Drop-In 3/8"x30mm	10	12	33	SETDS3	50

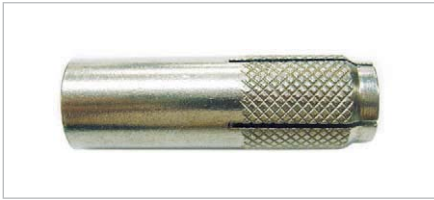
Drop-In Anchors - Zinc Plated - Indicative Design Loads in Concrete

Thread Ø	Embedment Depth (mm)	Torque (Nm)	Anchor Spacing (mm)	Edge Distance (mm)	Shear Load (kN)*	Tension Load (kN)*
M6	25	6	75	40	4.2	3.8
M8 (5/16")	30	10	90	45	6.3	5.0
M10 (3/8")	40	20	120	60	10.9	7.9
M10 (3/8")	30	12	90	45	6.7	5.0
M12 (1/2")	50	40	150	75	16.8	10.8
M16 (5/8")	65	95	195	100	28.7	16.1
M20	80	180	240	120	43.6	21.9

Indicative design load (kN) in 30N/mm² concrete

* Refer to Ramset Design Guide for more information or explanation of technical data

Drop-In Anchors - Stainless Steel SUS316



Part No.	Description	Thread Length (mm)	Hole Ø (mm)	Min Hole Depth (mm)	Setting Tool	Order Qty
7D-DSM0-6SSV	DSM06SS Drop-In S/S M6x25mm	8	8	28	SETDS1	100
7D-DSM0-8SSV	DSM08SS Drop-In S/S M8x30mm	12	10	33	SETDS2	100
7D-DSM1-0SSV	DSM10SS Drop-In S/S M10x40mm	16	12	43	SETDS3	50
7D-DSM1-2SSV	DSM12SS Drop-In S/S M12x50mm	20	16	53	SETDS4	50
7D-DSM1-6SSV	DSM16SS Drop-In S/S M16x65mm	24	20	68	SETDS5	25
7D-DSM2-0SSV	DSM20SS Drop-In S/S M20x80mm	28	24	83	SETDS6	25

Drop-In Anchors - Stainless Steel SUS316 - Indicative Design Loads in Concrete

Thread Ø	Embedment Depth (mm)	Torque (Nm)	Anchor Spacing (mm)	Edge Distance (mm)	Shear Load (kN)*	Tension Load (kN)*
M6	25	6	75	40	3.3	3.8
M8	30	10	90	45	4.9	5.0
M10	40	20	120	60	8.5	7.8
M12	50	40	150	75	13.1	10.8
M16	65	95	195	100	22.4	16.1
M20	80	180	240	120	34.1	19.4

Indicative design load (kN) in 30N/mm² concrete

* Refer to Ramset Design Guide for more information or explanation of technical data

Setting Tools - Zinc Plated

Part No.	Description	Drop-In Anchors	Order Qty
7E-RABB	SETDS1 Setting Tool M6 (1/4")	DSM06 / DSM06SS	1
7E-RABB	SETDS2 Setting Tool M8 (5/16")	DSM08 / DSW05 / DSM08SS	1
7E-RABB	SETDS3 Setting Tool M10 (3/8")	DSM10 / DSW06 / DSF10 / DSFW06 / DSM10SS	1
7E-RABB	SETDS4 Setting Tool M12 (1/2")	DSM12 / DSW08 / DSM12SS	1
7E-RABB	SETDS5 Setting Tool M16 (5/8")	DSM16 / DSW10 / DSM16SS	1
7E-RABB	SETDS6 Setting Tool M20 (3/4")	DSM20 / DSM20SS	1