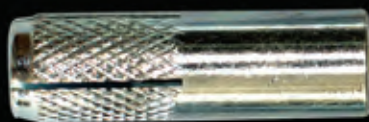




Ramset™

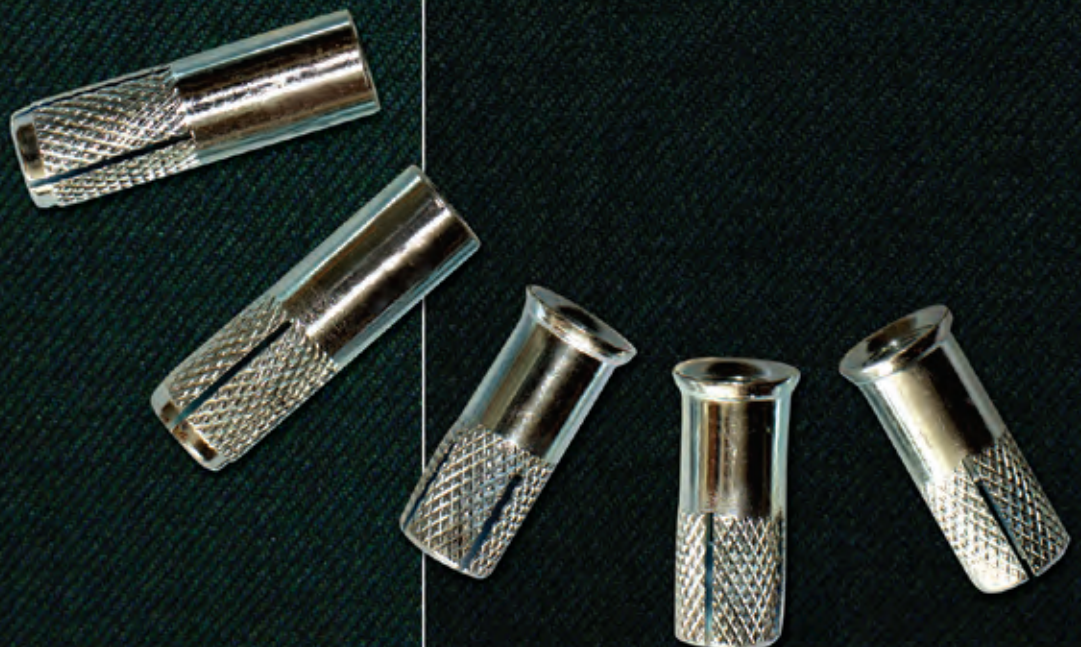
Concrete Results™

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RAMSET

Drop-In Anchors



RAMSET DROP-IN ANCHORS



RAMSET DROP-IN ANCHOR is an internally threaded socket Anchor for use with bolts or threaded rod of any length

Ramset 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.

FEATURES

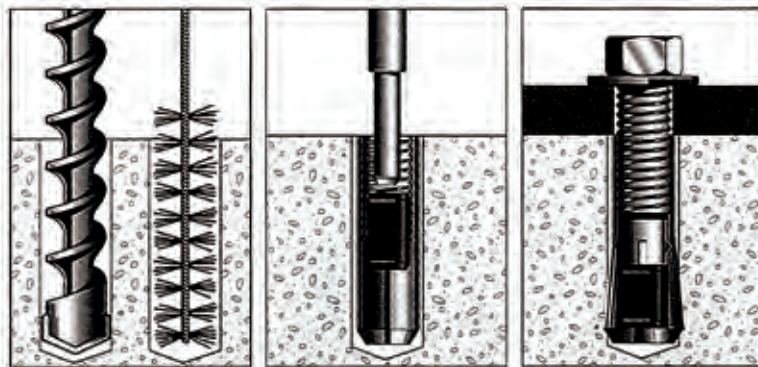
- Thin walled - smaller drill sizes used.
- Flush fitting - no protrusions when not in use.
- Shallow embedment - less chance of drilling into rebar, and faster drilling.
- Removal of fixture leaves anchor undisturbed.
- Permanent anchorage point in solid concrete, brick, or masonry.

INSTALLATION

1. Drill hole at recommended diameter, to at least the anchor length in depth. Clean hole thoroughly with a brush. Remove debris by way of a vacuum pump, compressed air, hand pump etc.

2. Insert anchor and push to required depth. using the special setting tool, drive the expander plug down until shoulder of the setting punch meets top of the anchor.

3. Position fixture then insert the bolt and tighten with spanner. The Ramset Drop-In Anchor remains set in position if the bolt is removed.



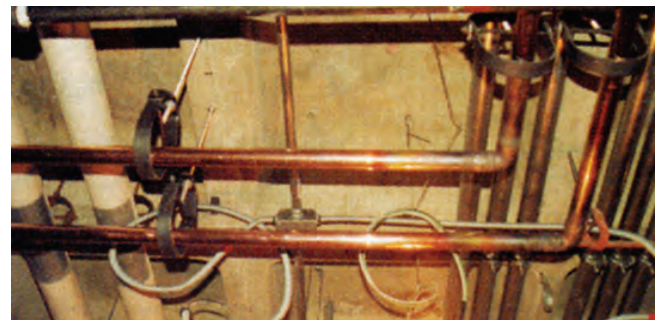
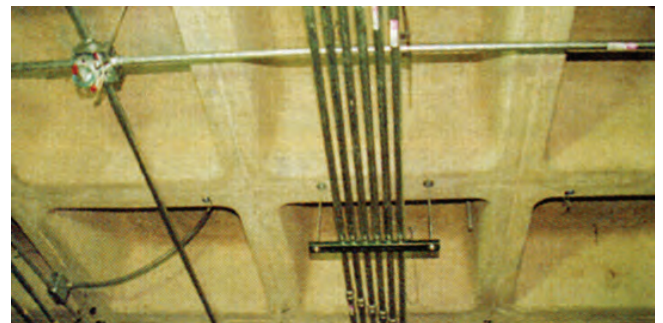
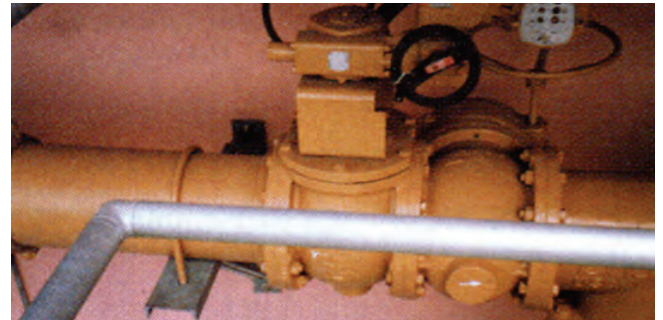
MATERIALS

Carbon Steel

Stainless Steel: AISI 316

APPLICATION

Suspended services, stadium seating, holding down machinery, racking, light to medium duty.



ANCHOR SIZE (mm)	ANCHOR DETAILS		PART NO.		
	Anchor length (mm)	Thread size	Zinc plated	Stainless steel A4 (316)	Pack quantity
M6	25	M6	DSM06	DSM06SS	100
M8 (5/16")	30	M8 (5/16" BSW)	DSM08 (DSW05)	DSM08SS	50
M10 (3/8")	40	M10 (3/8" BSW)	DSM10 (DSW06)	DSM10SS	50
M10 Flanged	30	M10	DSF10		50
M12 (1/2")	50	M12 (1/2" BSW)	DSM12 (DSW08)	DSM12SS	25
M16	65	M16	DSM16	DSM16SS	20
M20	80	M20	DSM20		10

ANCHOR SIZE (mm)	INSTALLATION DETAILS			MINIMUM DIMENSIONS			WORKING LOAD LIMIT(KN)			
	Drilled hole diameter (mm)	Hole depth (mm)	Tight torque, T _r (Nm)	Edge distance, e _c (mm)	Anchor spacing, a _c (mm)	Substrate thickness, b _m (mm)	Shear, V _a 32 Mpa	Tension, N _a		
								Concrete compressive strength, f' _c		
								20Mpa	32Mpa	40Mpa
M6	8	28	6	80	70	50	2.2	2.2	2.8	3.1
M8 (5/16")	10	33	10	100	90	60	2.9	3.0	3.8	4.2
M10 (3/8")	12	43	20	135	120	80	3.5	4.7	6.0	6.7
M10 Flanged	12	30	12	100	90	60	2.9	3.1	3.8	4.2
M12 (1/2")	16	53	40	170	150	100	6.6	6.7	8.5	9.5
M16	20	68	95	220	190	130	10.4	8.9	11.2	12.6
M20	24	83	180	275	235	160	13.1	13.9	17.5	19.6

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.



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