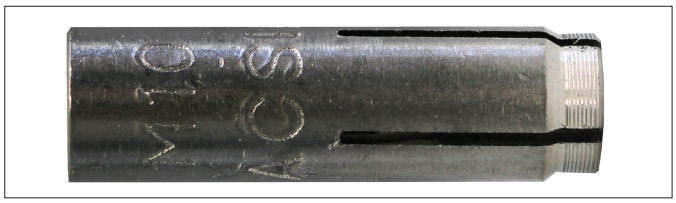
MASON DROP IN ANCHOR



11.11 PRODUCT DATA

Body Type:

- Straight Sides
- Flanged End (Lipped)

Material Coating:

- Yellow Zinc Plated
- 316 Stainless Steel (Pictured)

11.12 PRODUCT DESCRIPTION

The Macsim Mason Drop In Anchor is designed for medium duty application in solid concrete of 25MPa or greater, where a female socket fixing is required. Mason anchor enables flush, surface setting in concrete and for the removal and re-application of a fastener.

11.13 INSTALLATION METHOD

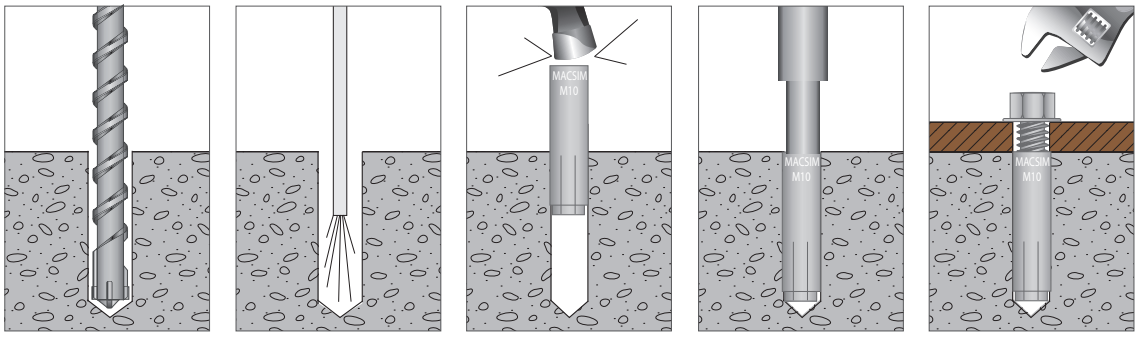
1. Drill Correct Diameter and depth of hole as specified.
2. Clean hole by brushing and blowing out dust carefully.
3. Tap the anchor into the hole, expansion end first.
4. Using the Mason Drop In Setting Tool, hammer the expansion plug down until the shoulder of the tool meets the anchor surface.
5. Place the fixture, insert the bolt and tighten. Using a calibrated Torque Wrench apply correct torque setting as specified. The anchor should not be over tightened or it may be permanently damaged, leading to premature failure.

11.14 APPLICATIONS

- Used for Medium Duty Loads
- Solid Concrete
- Stone
- Solid Brick/ Block

11.15 ADVANTAGES

- Medium-High Tension Capacity
- Medium-High Shear Load Capacity
- Simple Installation
- Instant Load Capacity



CODE (Metric)	CODE (Imperial)	Bolt Diameter	Drill Diameter (mm)	Minimum Drill Depth (mm)	Minimum Embed. Depth (mm)	Minimum Structural Thickness (mm)	Minimum* Anchor Spacing (mm)	Minimum* Edge Distance (mm)
10M06	1006	M6/ 1/4"	8	30	25	75	50	90
10M08	1008	M8/ 5/16"	10	40	35	75	60	120
10M10	1010	M10/ 3/8"	12	45	40	100	80	135
		M10	12	40	30	100	80	90
10M12	1012	M12/ 1/2"	16	60	50	125	100	180
10M16	1016	M16/ 5/8"	20	75	65	150	130	225
10M20		M20	25	90	82	200	160	270

* Absolute distances, reduction factors apply.

11 MASON DROP IN ANCHOR

11.16 MATERIAL SPECIFICATIONS

11.161 YELLOW ZINC PLATED

Diameter (mm)	Diameter (Inches)	Yield Strength (N/mm²)	Ultimate Strength (N/mm²)
M6	1/4	340	460
M8	5/16	340	460
M10	3/8	320	430
M12	1/2	320	430
M16	5/8	330	460
M20	n/a	330	460

NOTE: Drop In Anchors are Yellow Zinc Plated 8µm yellow Passivated zinc plate

11.161 316 STAINLESS STEEL

Diameter (mm)	Diameter (Inches)	Yield Strength (N/mm²)	Ultimate Strength (N/mm²)
M6	1/4	350	540
M8	5/16	350	540
M10	3/8	350	540
M12	1/2	350	540
M16	5/8	350	540
M20	n/a	350	540

NOTE: Masonbolt Anchors are Grade 316 Stainless Steel (AISI A4/70).

11.17 SIMPLE LOAD CHARACTERISTICS

Anchor Size	Hole Diameter (mm)	Min. Embed. Depth (mm)	Ultimate Tensile * (kN)	Ult. Tensile Strength (mm)	Working Load		Anchor Spacing (mm)	Edge Distance (mm)
					Tensile (kN)	Shear (kN)		
M6/ 1/4"	8	25	8.40	7.70	2.10	1.70	85	90
M8/ 5/16"	10	35	11.05	13.70	3.30	2.90	100	120
M10/ 3/8"	12	40	17.90	20.80	5.30	4.10	135	135
M10 x 30	12	30	11.30	20.80	3.50	4.10	135	90
M12/ 1/2"	16	50	25.50	32.10	9.20	5.60	170	180
M16/ 5/8"	20	65	37.10	61.20	12.50	10.50	220	225
M20	25	82	49.50	96.50	18.00	16.20	280	270

NOTE: Loads are applicable to 35MPa Concrete and on the correct torque setting. Grade 8.8 Bolt employed for shear testing.