

### DROP-IN ANCHOR



#### Description

The Macsim Mason Anchor is a low profile, female threaded anchor, suitable for use with machine bolts of any length or with threaded rod. The anchor is set by using a special punch to drive the captive expansion plug fully home. Correct expansion is assured for maximum holding power every time.

Mason Anchors are ideal for suspending air conditioning duct, plumbing pipe, fire sprinkler services and cable tray etc. using threaded rod. Machine bolts are used in conjunction with installed Mason Anchor for fastening a wide range of common building materials and fixtures to both hard and lightweight solid masonry materials.

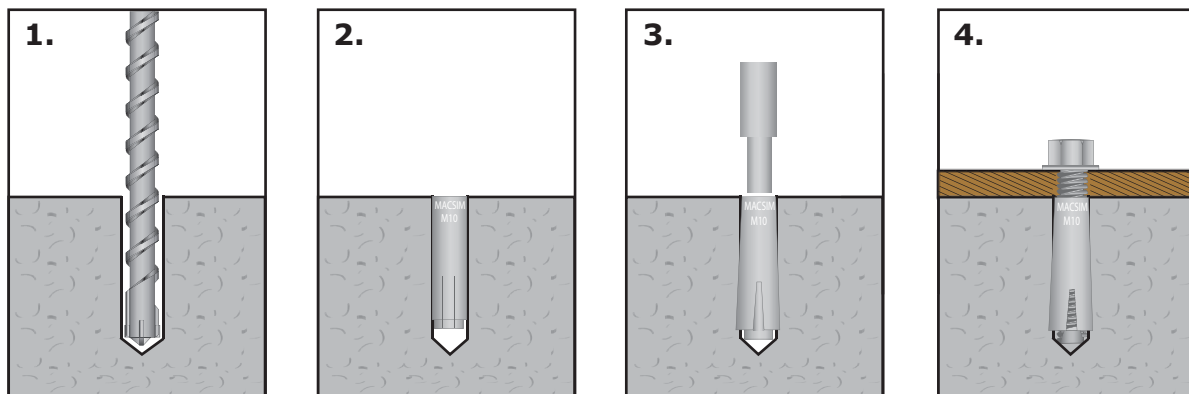
#### Features

- Ease of installation.
- Can be used with bolts, machine screws or threaded rod.
- Provide flush finish for easy re-location or fixing.
- Provide permanent female thread fixing point in the base material.
- Available in both metric and imperial (Whitworth) thread configuration.
- Gold passivated for corrosion resistance.

#### Typical Applications

- Suspension of air-conditioning duct, cable tray, water pipes and fire sprinkler systems.
- Anchoring of stadium and theatre seating.
- Any masonry application where female threaded anchors are required.

#### Installation Procedure



## PRODUCT SPECIFICATION MANUAL

### Installation Procedure - Continued

1. Drill the correct diameter hole to a depth at least equal the length of the anchor.
2. Insert Mason Anchor into the hole and push down until it bottoms.
3. Insert appropriate setting tool (punch) into the mouth of the anchor and using a hammer, drive the expander plug down until the shoulder of the punch is flush with the mouth of the anchor.
4. When using bolts, position fixture into the anchor and tighten with suitable spanner or wrench. If threaded rod is used in conjunction with the Mason Anchor, insert the rod into the anchor and tighten until the rod "bottoms" on the expanded plug.

### Installation Recommendations

<b>FLANGED DROP IN ANCHORS - IMPERIAL</b>				
Code	Thread Size (inches)	Drill Size (mm)	Box Qty	Carton Qty
1006	1/4"	8	100	2000
1008	5/16"	10	50	1500
1010	3/8"	12	50	1000
1012	1/2"	16	50	500
1016	5/8"	20	50	500



<b>FLANGED DROP IN ANCHORS - METRIC</b>				
Code	Thread Size (mm)	Drill Size (mm)	Box Qty	Carton Qty
10M06	6	8	100	2000
10M08	8	10	50	1500
10M10	10	12	50	1000
10M12	12	16	50	500
10M16	16	20	50	200
10M20	20	25	25	100



<b>FLANGED DROP IN ANCHORS - 316 STAINLESS STEEL</b>			
Code	Thread Size (mm)	Drill Size (mm)	Box Qty
100M06	6	8	50
100M08	8	10	50
100M10	10	12	50
100M12	12	16	50
100M16	16		



<b>SHORT FLANGED DROP IN ANCHORS - METRIC</b>				
Code	Thread Size (mm)	Drill Size (mm)	Box Qty	Carton Qty
10MF10	10 X 30	12	50	1000



## PRODUCT SPECIFICATION MANUAL

### Material Specifications

ANCHOR BODY ZINC PLATE STEEL			ANCHOR BODY A4 STAINLESS STEEL		
Diameter	Yield Strength (N/mm <sup>2</sup> )	Ultimate Strength (N/mm <sup>2</sup> )	Diameter	Yield Strength (N/mm <sup>2</sup> )	Ultimate Strength (N/mm <sup>2</sup> )
M6/ 1/4"	340	460	M6/ 1/4"	350	540
M8/ 5/16"	340	460	M8/ 5/16"	350	540
M10/ 3/8"	320	430	M10/ 3/8"	350	540
M12/ 1/2"	320	430	M12/ 1/2"	350	540
M16/ 5/8"	330	460	M16	350	540
M20	330	460	M20	350	540

### Simple Load Characteristics

Anchor Size	Hole Diameter (mm)	Min. Embed Depth (mm)	Ultimate Strength		Recommended		Anchor Spacing** (mm)	Edge Distance** (mm)
			Tensile (Kn)	Shear (Kn)	Tensile Working Load (Kn)	Shear Working Load (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

Concrete Strength 35 MPa

Grade 8.8 Bolt employed for shear testing