# Shield Anchor

## Features :

- Metal anchor for medium duty applications
- Suitable for threaded studs & bolts with metric thread
- Can be removed and reinstalled multiple times
- Suitable for use In concrete, hollow and solid block

## Typical Applications

Cable trays, cladding fixation, handrails, brackets, staircases, ladders, machines, window panels, base plates, scaffoldings and frameworks

## Technical Data:

Recommendad Loads (Non -cracked Concrete C 20/25).

| TYPE (Order No) | Tension Load (KN ) | Shear Load (KN ) | Bending Moment (Nm ) | Screw Grade |
|---|---|---|---|---|
| M6 | 2.5 | 2.3 | 3.9 | 8.8 |
| M8 | 3.3 | 4.4 | 17 | 8.8 |
| M10 | 4.7 | 6.5 | 34 | 8.8 |
| M12 | 6.9 | 8.5 | 60 | 8.8 |

* For Cracked Concrete And Solid Block Multiply The Above Values X 0.5

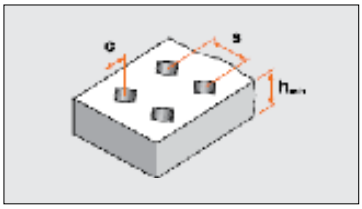
## Materials :

Zinc Plated Steel
Stainless Steel [SS 304 (A2) , SS 316 (A4)]

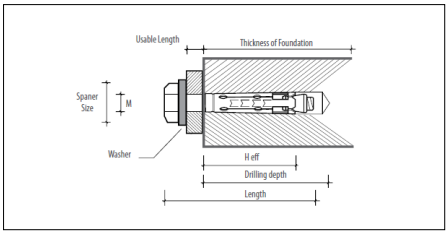
## Setting Data:

Edge Distance > 1.5 x H eff., distance between anchors >3x H eff.

| size | H eff. (mm) | Edge Distance C (mm) | Distance Between Anchors S (mm) | Thickness Of Foundation min (mm) | Washer | Tightening Torque (Nm) | Spanner size (Nm) |
|---|---|---|---|---|---|---|---|
| M6 | 40 | 60 | 120 | 100 | 12 x 1.6 | 10 | 10 |
| M8 | 45 | 68 | 135 | 100 | 16 x 1.6 | 20 | 13 |
| M10 | 55 | 83 | 165 | 110 | 20 x 2.0 | 40 | 17 |
| M12 | 70 | 105 | 210 | 140 | 24 x 2.5 | 75 | 19 |




## Installation parameters:

H eff = Effective anchorage depth

| Bolt size | length Exp. Unit (mm) | Drill (Φ) (mm) | Drilling Dept (mm) | H eff. (mm) | Usable length (mm) | Screw (Φ) x length (mm) |
|---|---|---|---|---|---|---|
| M6 | 45 | 10 | 55 | 40 | 5 | M6 X 50 |
| M8 | 50 | 12 | 60 | 45 | 10 | M8 X 60 |
| M10 | 60 | 15 | 80 | 55 | 20 | M10 X 80 |
| M12 | 75 | 18 | 90 | 70 | 25 | M12 X 90 |