

Technical Data Sheet

Ref: TDS-02-SHA-01

Masonry & Cavity Fixings

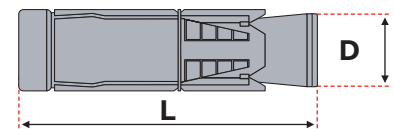
Shield Anchors

Features

- Suitable for attaching a variety of fixings with metric threads such as hooks, eyes and studs.
- Compatible with most types of metric threaded components.
- Captive expansion cone.
- Torque controlled.
- Zinc & Yellow finish for increased corrosion resistance.
- A three segmented expansion anchor used in concrete, brick or stone.
- Bolt grade 8.8 (High Tensile).
- Stud grade 5.8.

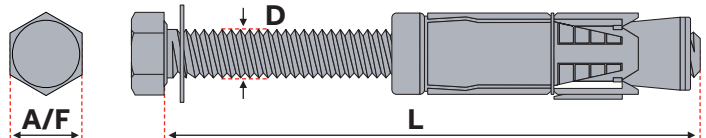
Dimensional Data

Shield Only



Product Code	Thread Ø	Drill Size Ø (D)	Shield Length (L)
06SH	M6	12.0	45
08SH	M8	14.0	50
10SH	M10	16.0	60
12SH	M12	20.0	75

Loose Bolt - Grade 8.8



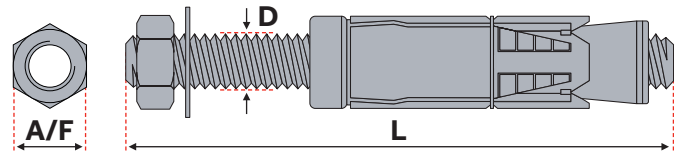
Product Code	Thread Ø (D)	Bolt Length (L)	Maximum Fixture Thickness	Fixture Clearance Hole Ø	A/F (A/F)
0610LSH	M6	50	10	8	10
0625LSH	M6	65	25	8	13
0810LSH	M8	60	10	10	13
0825LSH	M8	75	25	10	13
0840LSH	M8	90	40	10	13
1010LSH	M10	70	10	12	17
1025LSH	M10	85	25	12	17
1050LSH	M10	110	50	12	17
1075LSH	M10	135	75	12	17
1210LSH	M12	90	10	14	19
1225LSH	M12	105	25	14	19
1240LSH	M12	120	40	14	19
1260LSH	M12	140	60	14	19

All stated figures (mm) are approx and for reference only.

Technical Data Sheet

Masonry & Cavity Fixings Shield Anchors

Projecting Bolt - Grade 5.8



Product Code	Thread Ø (D)	Stud (Bolt) Length (L)	Maximum Fixture Thickness	Fixture Clearance Hole Ø	A/F (A/F)
0810PSH	M8	70	10	10	13
0825PSH	M8	85	25	10	13
0860PSH	M8	120	60	10	13
1015PSH	M10	85	15	12	17
1030PSH	M10	100	30	12	17
1060PSH	M10	130	60	12	17
1215PSH	M12	105	15	14	19
1230PSH	M12	120	30	14	19
1275PSH	M12	165	75	14	19

All stated figures (mm) are approx and for reference only.

Performance Data

Substrate	Concrete $\geq 25\text{N/mm}^2$			
Thread Ø (mm)	M6	M8	M10	M12
Socket Size (mm)	10	13	17	19
Drill Hole Ø (mm)	12.0	14.0	16.0	20.0
Embedment Depth (mm)	45	50	60	75
Min Drill Hole Depth (mm)	55	60	70	85
Centre Spacing (mm)	135	150	180	225
Edge Distance (mm)	70	75	90	120
Min Structure Thickness (mm)	90	100	120	150
Rec. Tightening Torque (Nm)	5	15	30	45
Rec. Tensile Load (kN)	1.04	2.21	2.52	3.8
Max Rec. Load (kg)	104	221	252	380

All stated figures are for reference only and to be used as a guideline. Test data stated is for reference only as this may not represent the actual figures you may achieve in application.

NB: The tensile load tests are based upon the use of 8.8 strength bolts. However, the 'Projecting Type' are supplied with 5.8 strength bolts. This should nevertheless not unduly effect the performance of the anchor, given that this is taken into consideration when selecting the product. Fix in centre line of brick 35-40mm from ends and avoid top 3 courses, edge bricks, part bricks and mortar joints. Suitable in solid brickwork with sound mortar joints only up to M12 bolt diameter.