



The **Shield Anchor** is perhaps the most versatile of all fixings used by the majority of trades. Suitable for Brickwork, Medium to Dense Blockwork and Concrete. It is an ideal general purpose anchor that fulfils a large number of applications. The Shield version is particularly versatile when utilised with a wide variety of non standard components, including special lengths of threaded rod where required.

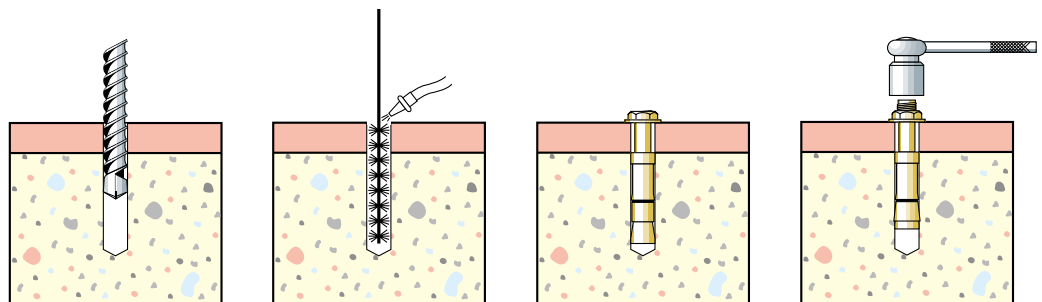
Shield Anchor – Shield Only

Bolt Size Dia. mm	Shield Length mm	Hole Diameter Concrete mm	Min Hole Depth mm	Min Substrate Thickness mm	Recommend Torque		Safe Working Load In 30N/mm ² Concrete Tension/Shear	Product Code
					30N/mm Concrete	20.5 N/mm Brickwork		
6	45	12	50	70	6	5	3.7 / 3.4	04100010
8	50	14	55	80	14	7	5.1 / 5.8	04100020
10	60	16	65	100	27	13	7.8 / 9.2	04100030
12	75	20	85	120	46	23	11.0 / 13.4	04100040
16	115	25	125	190	110	-	18.8 / 19.2	04100050
20	130	32	140	220	230	-	28.0 / 38.0	

Shield Anchor – Loosebolt

Bolt Size Dia. mm	Bolt Length mm	Shield Length mm	Hole Diameter Concrete mm	Min Hole Depth mm	Max Fixture Thickness mm	Min Substrate Thickness mm	Recommend Torque		Safe Working Load In 30N/mm ² Concrete Tension/Shear	Product Code
							30N/mm Concrete	20.5 N/mm Brickwork		
6	55	45	12	50	10	70	6	5	3.7 / 3.4	04300010
	70	45	12	50	25	70	6	5	3.7 / 3.4	04300020
	85	45	12	50	40	70	6	5	3.7 / 3.4	04300030
8	65	50	14	55	10	80	14	7	5.1 / 5.8	04300040
	80	50	14	55	25	80	14	7	5.1 / 5.8	04300050
	95	50	14	55	40	80	14	7	5.1 / 5.8	04300060
10	75	60	16	65	10	100	27	13	7.8 / 9.2	04300070
	90	60	16	65	25	100	27	13	7.8 / 9.2	04300080
	115	60	16	65	50	100	27	13	7.8 / 9.2	04300090
	140	60	16	65	75	100	27	13	7.8 / 9.2	04300100
12	90	75	20	85	10	120	46	23	11.0 / 13.4	04300110
	105	75	20	85	25	120	46	23	11.0 / 13.4	04300120
	120	75	20	85	40	120	46	23	11.0 / 13.4	04300130
	140	75	20	85	60	120	46	23	11.0 / 13.4	04300140
16	130	115	25	125	15	190	110	-	18.8 / 19.2	04300150
	155	115	25	125	30	190	110	-	18.8 / 19.2	04300160
	175	115	25	125	60	190	110	-	18.8 / 19.2	04300170

Installation of Shield Anchor & Loosebolt



1. Drill hole to correct diameter and recommended depth.

2. Remove debris and clean hole thoroughly.

3. Remove bolt and washer, insert the shield into the hole.

4. Insert bolt through washer and fixture, replace bolt into shield and tighten to the recommended torque.



Applications

- Machinery Installation
- Reinforcement
- Bracketry
- Racking & Storage
- Pipework
- Wall / Sole Plates

Features

- Zinc Plated
- Steel Manufactured
- Variety of Head Styles
- Torque Controlled

Benefits

- Partial Corrosion Resistance
- Fire Resistance
- Multi Style Customer Choice
- Proof Test Anchor on Installation

Shield Anchor Only

Technical Information Standard Embedment

IN CONCRETE 30N/mm ² STANDARD EMBEDMENT DEPTH									Safe Working Load In 30N/mm ² Concrete		
Anchor Hole Dia. mm	Bolt Thread Dia. mm	Hole Diameter Fixture mm	Hole Diameter Concrete mm	Min Hole Depth mm	Embed. Depth mm	Min Substrate Thickness mm	Centre Spacing mm	Edge Distance mm	Rec. Tensile Load Kn	Rec. Shear Load Kn	Rec. Tightening Torque Nm
12	6	7-8	12	50	40	70	140	76	3.7	3.4	6
14	8	9-10	14	55	50	80	170	96	5.1	5.8	14
16	10	11-12	16	65	60	100	200	116	7.8	9.2	27
20	12	13-14	20	85	80	120	250	154	11.0	13.4	46
25	16	17-18	25	125	100	190	380	188	18.8	19.2	110
32	20	20-21	32	140	130	220	400	250	28.0	38.0	220

Shield Anchor – Loosebolt

Technical Information Standard Embedment

IN CONCRETE 30N/mm ² STANDARD EMBEDMENT DEPTH									Safe Working Load In 30N/mm ² Concrete		
Anchor Hole Dia. mm	Bolt Thread Dia. mm	Hole Diameter Fixture mm	Hole Diameter Concrete mm	Min Hole Depth mm	Embed. Depth mm	Min Substrate Thickness mm	Centre Spacing mm	Edge Distance mm	Rec. Tensile Load Kn	Rec. Shear Load Kn	Rec. Tightening Torque Nm
12	6	7-8	12	50	40	70	140	76	3.7	3.4	6
14	8	9-10	14	55	50	80	170	96	5.1	5.8	14
16	10	11-12	16	65	60	100	200	116	7.8	9.2	27
20	12	13-14	20	85	80	120	250	154	11.0	13.4	46
25	16	17-18	25	125	100	190	380	188	18.8	19.2	110
32	20	20-21	32	140	130	220	400	250	28.0	38.0	220



The Shield Anchor **P** is the Bolt Projecting version of the range. Utilising the Shield assembly it offers a projecting length of threaded rod whereas the anchor can be installed in a wall and the fixture lifted in place. The range covers thread sizes from M6 to M16 in varying lengths.

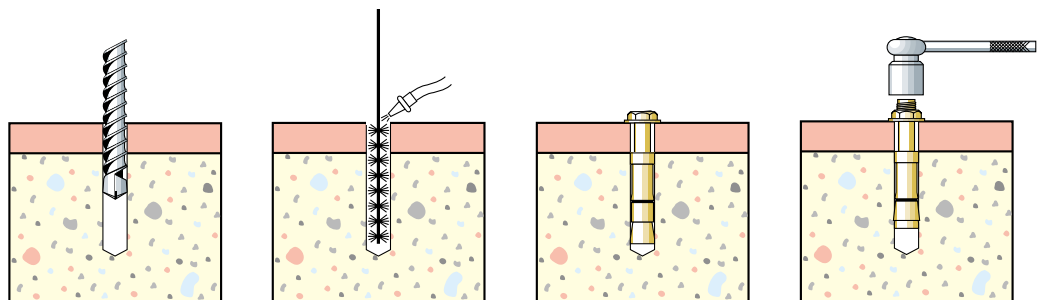
Shield Anchor – Projecting Bolt

Bolt Size Dia. mm	Bolt Length mm	Shield Length mm	Hole Diameter Concrete mm	Min Hole Depth mm	Max Fixture Thickness mm	Min Substrate Thickness mm	Recommend Torque		Safe Working Load In 30N/mm ² Concrete Tension/Shear	Product Code
							30N/mm Concrete	20.5 N/mm Brickwork		
6	60	45	12	50	10	80	6	5	3.7 / 3.4	04200010
	75	45	12	50	25	80	6	5	3.7 / 3.4	04200020
	100	45	12	50	50	80	6	5	3.7 / 3.4	04200025
8	75	50	14	55	15	100	14	7	5.1 / 5.8	04200040
	85	50	14	55	25	100	14	7	5.1 / 5.8	04200050
	100	50	14	55	40	100	14	7	5.1 / 5.8	04200055
	120	50	14	55	60	100	14	7	5.1 / 5.8	04200060
	140	50	14	55	80	100	14	7	5.1 / 5.8	04200065
10	80	60	16	65	10	120	27	13	7.8 / 9.2	04200070
	100	60	16	65	30	120	27	13	7.8 / 9.2	04200080
	120	60	16	65	50	120	27	13	7.8 / 9.2	04200090
	140	60	16	65	70	120	27	13	7.8 / 9.2	04200100
	160	60	16	65	90	120	27	13	7.8 / 9.2	04200110
12	100	75	20	85	15	160	46	23	11.0 / 13.4	04200120
	110	75	20	85	25	160	46	23	11.0 / 13.4	04200130
	135	75	20	85	50	160	46	23	11.0 / 13.4	04200140
	155	75	20	85	70	160	46	23	11.0 / 13.4	04200150
16	145	115	25	125	15	200	110	-	18.8 / 19.2	04200160
	155	115	25	125	35	200	110	-	18.8 / 19.2	04200170
	195	115	25	125	75	200	110	-	18.8 / 19.2	04200180

Shield Anchor – Hookbolt & Eyebolt

Hook/Eye Thread Dia. mm	Shield Length mm	Hole Diameter Concrete mm	Min Hole Depth mm	Min Substrate Thickness mm	Recommend Torque 30N/mm Concrete	Safe Working Load In 30N/mm ² Concrete Tension/Shear	Product Code
6	45	12	50	80	6	0.7	04100140
8	50	14	55	100	14	1.3	04100150
10	60	16	65	120	27	2.0	04100160
12	75	20	85	160	46	3.0	04100170
6	45	12	50	80	6	1.7	04100100
8	50	14	55	100	14	3.1	04100110
10	60	16	65	120	27	4.8	04100120
12	75	20	85	160	46	7.3	04100130

Installation of Projecting Bolt



1. Drill hole to correct diameter and recommended depth.

2. Remove debris and clean hole thoroughly.

3. Insert anchor through fixture into the hole, knock in until anchor is set.

4. Tighten to the recommended torque.



Applications

- Machinery Installation
- Reinforcement
- Bracketry
- Racking & Storage
- Pipework
- Wall / Sole Plates

Features

- Zinc Plated
- Steel Manufactured
- Torque Controlled

Benefits

- Partial Corrosion Resistance
- Fire Resistance
- Multi Style Customer Choice
- Proof Test Anchor on Installation

Shield Anchor – Projecting

Technical Information Standard Embedment

IN CONCRETE 30N/mm ² STANDARD EMBEDMENT DEPTH									Safe Working Load In 30N/mm ² Concrete		
Anchor Hole Dia. mm	Bolt Thread Dia. mm	Hole Diameter Fixture mm	Hole Diameter Concrete mm	Min Hole Depth mm	Embed. Depth mm	Min Substrate Thickness mm	Centre Spacing mm	Edge Distance mm	Rec. Tensile Load Kn	Rec. Shear Load Kn	Rec. Tightening Torque Nm
12	6	7-8	12	50	40	80	140	76	3.7	3.4	6
14	8	9-10	14	55	50	100	170	96	5.1	5.8	14
16	10	11-12	16	65	60	120	200	116	7.8	9.2	27
20	12	13-14	20	85	80	160	250	154	11.0	13.4	46
25	16	17-18	25	125	100	200	380	188	18.8	19.2	110

Shield Anchor – Hookbolt & Eyebolt

Technical Information Standard Embedment

IN CONCRETE 30N/mm ² STANDARD EMBEDMENT DEPTH									Safe Working Load In 30N/mm ² Concrete		
Anchor Hole Dia. mm	Bolt Thread Dia. mm	Hole Diameter Fixture mm	Hole Diameter Concrete mm	Min Hole Depth mm	Embed. Depth mm	Min Substrate Thickness mm	Centre Spacing mm	Edge Distance mm	Rec. Tensile Load Kn	Rec. Shear Load Kn	Rec. Tightening Torque Nm
12	6	7-8	12	50	40	80	140	76	0.7	1.7	6
14	8	9-10	14	55	50	100	170	96	1.3	3.1	14
16	10	11-12	16	65	60	120	200	116	2.0	4.8	27
20	12	13-14	20	85	80	160	250	154	3.0	7.3	46