

PRODUCT DATA SHEET

Drop-In Wedge Anchors

Standard & Lipped

Description:

Deformation controlled zinc plated and yellow passivated Drop In anchor is an internally threaded socket suitable for applications in non-cracked concrete.

Full expansion can be guaranteed by using the correct shouldered setting punch. Internal thread suitable for bolts or threaded studs of any length.

Lipped Drop In anchors can be accurately set independent of the hole depth and can be used in concrete.

Base Material:

- Concrete C20/25 to C50/60
- Non-cracked concrete
- Dry internal conditions

Features:

Deformation-controlled Expansion

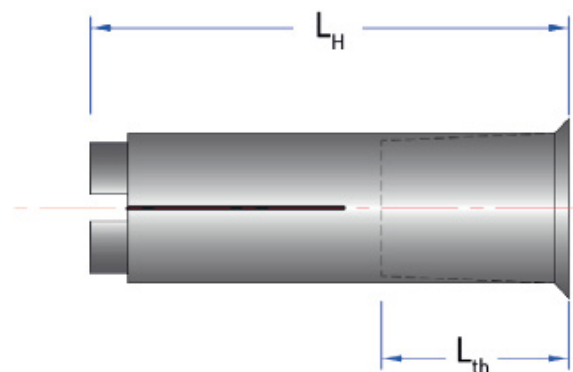
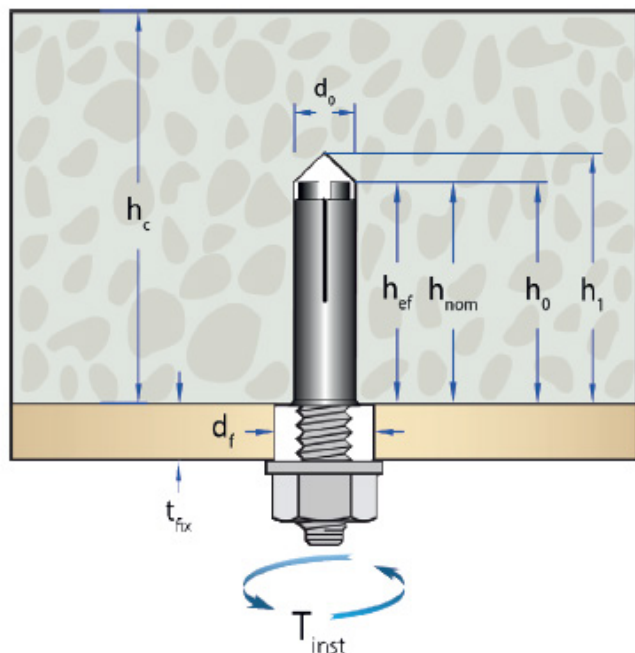
- Fast And Secure Installation
- Reaction To Fire Class A1
- Permanent Socket To Allow Removal And Replacement Of Fixture
- Zinc Plated And Yellow Passivated Minimum 5µm



Range & Load Data

Range Data									
Part Number	Drill Hole Diameter	Depth of Drill Hole	Overall Embedment Depth	Anchor Length	Thread Diameter	Internal Threaded Length	Fixture Clearance Hole	Minimum Member Thickness	Tightening Torque
	(d_0)	(h_i)	($h_{nom}=h_{ef}$)	(L_H)	(d_{nom})	(L_{th})	(d_f)	(h_{min})	(T_{inst})
	mm	mm	mm	mm	mm	mm	mm	mm	mm
Drop In Anchors									
03101	8	25	25	25	6	10	7	100	4
03102	10	30	30	30	8	13	9	100	9
03103	12	40	40	40	10	15	12	130	17
03104	15	50	50	50	12	18	14	140	30
03105	20	65	65	65	16	23	18	160	75
03106	25	80	80	80	20	30	22	200	144
Lipped Drop In Anchors									
03120	8	25	25	25	6	10	7	100	4
03121	10	30	30	30	8	14	9	100	9
03122	12	30	30	30	10	15	12	100	17
03125	12	40	40	40	10	15	12	130	17
03123	15	50	50	50	12	20	14	140	30
03124	20	65	65	65	16	22	18	160	75

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Single Anchor in Solid Concrete

Performance Data (C20/25 non-cracked concrete)

Size Of Thread	Effective Embedment Depth (h_{ef})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance		Design Spacing (S)		Design Edge Distance (C)	
			Tensile (N_{Rk})	Shear (V_{Rk})	Tensile (N_{Rd})	Shear (V_{Rd})	Tensile (N_{Ap})	Shear (V_{Ap})	Tensile	Shear	Tensile	Shear
-	mm	mm	kN	kN	kN	kN	kN	kN	mm	mm	mm	mm
Drop In Anchors												
M6	25	100	6.3	4.0	3.5	2.4	2.5	1.7	75	75	90	90
M8	30	100	8.2	5.4	4.5	3.5	3.2	2.5	90	90	95	95
M10	40	130	12.7	9.6	7.0	5.7	5.0	4.1	120	120	135	135
M12	50	140	17.8	16.8	9.9	10.0	7.0	7.1	150	150	165	165
M16	65	160	26.4	31.3	14.6	18.7	10.4	13.3	195	195	200	200
M20	80	200	36.1	49.0	20.0	29.3	14.2	20.9	240	240	260	260
Lipped Drop In Anchors												
M6	25	100	6.3	4.0	3.5	2.4	2.5	1.7	75	75	90	90
M8	30	100	8.2	5.4	4.5	3.5	3.2	2.5	90	90	95	95
M10SH	30	100	8.2	5.4	4.5	3.5	3.2	2.5	90	90	95	95
M10	40	130	12.7	9.6	7.0	5.7	5.0	4.1	120	120	135	135
M12	50	140	17.8	16.8	9.9	10.0	7.0	7.1	150	150	165	165
M16	65	160	26.4	31.3	14.6	18.7	10.4	13.3	195	195	200	200

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Anchors For Multiple Use For Non-Structural Applications In Solid Concrete ($n_1 \geq 3$; $n_2 \geq 1$)*

Performance Data (C20/25 non-cracked concrete)							
Size Of Thread	Effective Embedment Depth (h_{ef})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance	Limiting Design Resistance	Approved Resistance	Design Spacing (S)	Design Edge Distance (C)
			Load** (F_{Rk})	Load ($F_{Rd,lim}$)	Tensile (F_{Ap})		
-	mm	mm	kN	kN	kN	mm	mm
Drop In Anchors							
M6	25	100	2.5	1.7	1.2	200	150
M8	30	100	3.0	2.0	1.4	200	150
M10	40	130	3.0	2.0	1.4	200	150
M12	50	140	3.0	2.0	1.4	200	150
Lipped Drop In Anchors							
M6	25	100	2.5	1.7	1.2	200	150
M8	30	100	3.0	2.0	1.4	200	150
M10SH	30	100	3.0	2.0	1.4	200	150
M10	40	130	3.0	2.0	1.4	200	150
M12	50	140	3.0	2.0	1.4	260	200

* ETAG001 - Part6, Annex 1

** Load in any direction

Anchors For Multiple Use For Non-Structural Applications In Solid Concrete ($N_1 \geq 4$; $N_2 \geq 1$)*

Performance Data (C20/25 non-cracked concrete)							
Size Of Thread	Effective Embedment Depth (h_{ef})	Minimum Concrete Thickness (h_{min})	Characteristic Resistance	Limiting Design Resistance	Approved Resistance	Design Spacing (S)	Design Edge Distance (C)
			Load** (F_{Rk})	Load ($F_{Rd,lim}$)	Tensile (F_{Ap})		
-	mm	mm	kN	kN	kN	mm	mm
Drop In Anchors							
M6	25	100	2.5	1.7	1.2	200	150
M8	30	100	3.3	2.2	1.5	200	150
M10	40	130	4.5	3.0	2.0	200	150
M12	50	140	4.5	3.0	2.0	200	150
Lipped Drop In Anchors							
M6	25	100	2.5	1.7	1.2	200	150
M8	30	100	3.3	2.2	1.5	200	150
M10SH	30	100	3.3	2.2	1.5	200	150
M10	40	130	4.5	3.0	2.0	200	150
M12	50	140	4.5	3.0	2.0	260	200

* ETAG001 - Part6, Annex 1

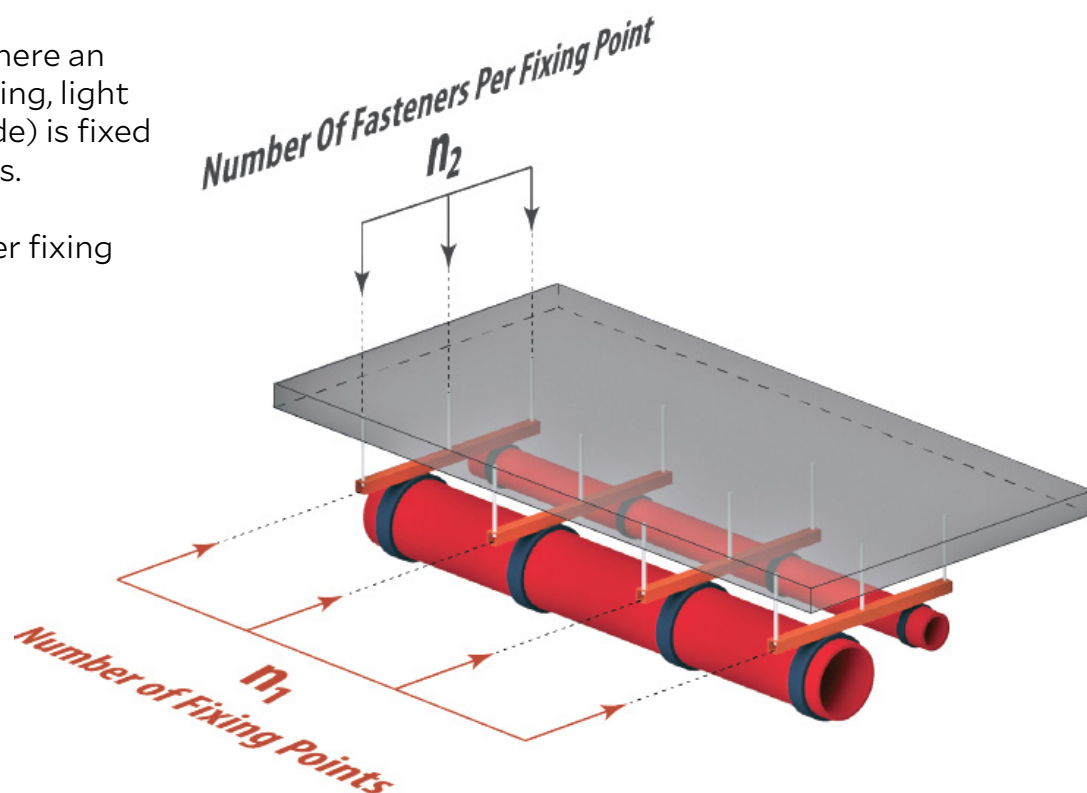
** Load in any direction

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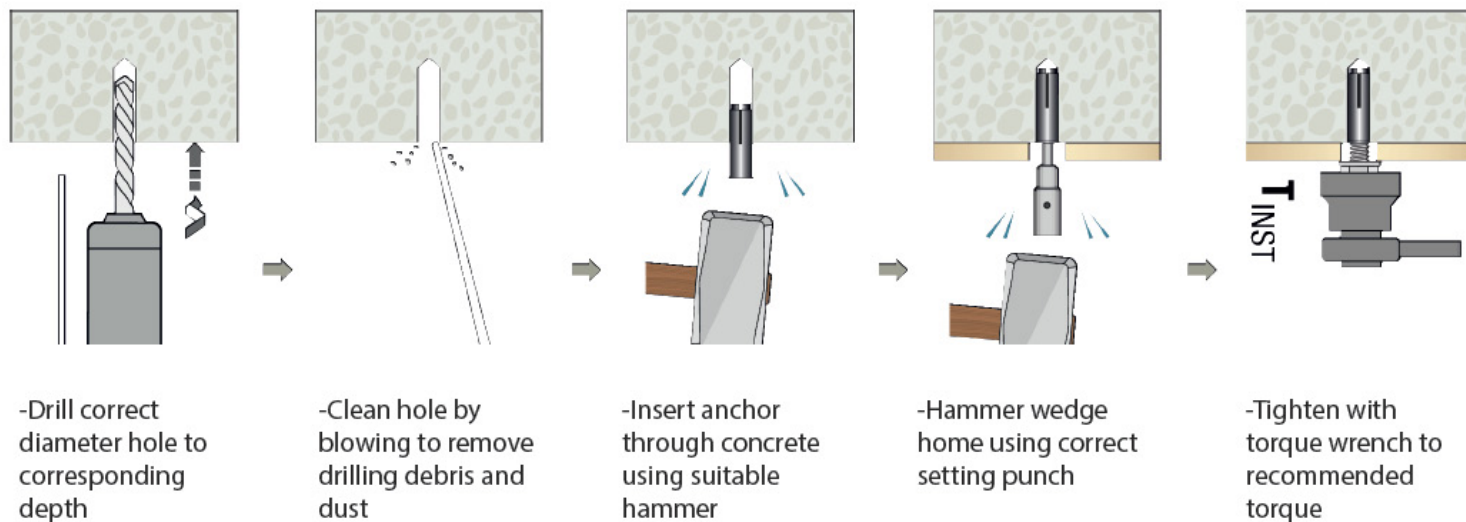
n_1 & n_2 Definitions

n_1 : Number of positions where an attached element (e.g. piping, light suspended ceiling or facade) is fixed with one or more fasteners.

n_2 : Number of fasteners per fixing point.



Installation Instructions



For further product information, please contact one of the Kernow team on 01726 624600 or sales@kernow-how.com