

INFORMATION

Deformation controlled zinc plated (5µm) anchor suitable for multiple use for non-structural applications in concrete.

The specific design gives flexibility of using the anchor for applications with the embedment depths greater than 30mm in solid concrete.

Internal thread suitable for bolts or threaded studs.

BASE MATERIAL

- Solid Cracked Concrete C20/25 To C50/60
- Solid Non-Cracked Concrete C20/25 To C50/60

FEATURES

- Deformation-controlled Expansion
- Fast And Secure Installation
- Reaction To Fire Class A1
- Fire Resistant Loading
- Permanent Socket To Allow Removal And Replacement Of Fixture
- Use Conditions: Check The ETA

APPROVALS

European Technical Assessment
EAD 330747-00-0601



ETA-23/1029



INSTALLATION VIDEO



RELATED PRODUCTS



SDS+ Drill Bits



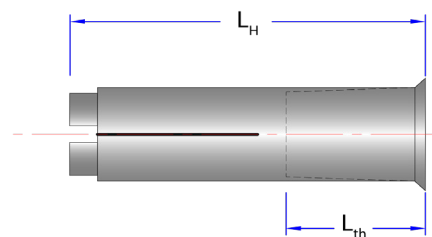
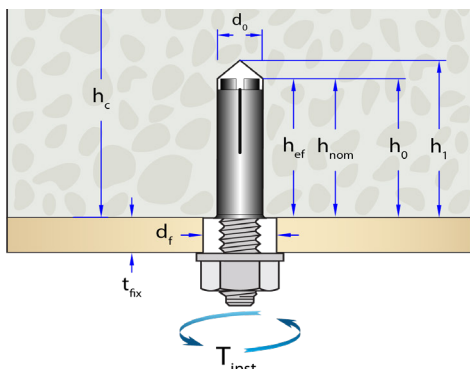
Hole Cleaning Pump

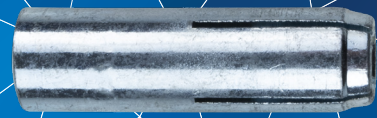


Drop In Anchor Setting Punch

RANGE AND LOAD DATA

RANGE DATA										
Part Number	Internal Thread diameter (d _{nom})	Drill Hole Diameter (d _o)	Depth of Drill Hole (h _{ef} =h _{nom})	Anchor Length (L _H)	Internal Threaded Length (L _{th})	Fixture Clearance Hole (d _f)	Minimum Member Thickness (h _{min})	Minimum Spacing (s _{min})	Minimum Edge Distance (c _{min})	Tightening Torque (T _{inst})
	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm
Smooth Type										
DBM0830	8	10	30	30	13	9	80	200	150	11
DBM1040	10	12	40	40	19	12	80	200	150	17
DBM1250	12	16	50	50	22	14	100	250	150	38
Lipped type										
DBM0830SH	8	10	30	30	13	9	80	200	150	11
DBM1030SH	10	12	30	30	13	12	80	200	150	17
DBM1040SH	10	12	40	40	19	12	80	200	150	17
DBM1250SH	12	16	50	50	22	14	100	250	150	38





SOLID CONCRETE SLABS

Performance Data (Cracked and uncracked concrete C20/25 to C50/60)

Thread Diam (d_{nom})	Embedment Depth ($h_{nom}=h_{ef}$)	Minimum Concrete Thickness (h_{min})	Characteristic Resistance		Design Resistance		Approved Resistance		Design Spacing (s)	Design Edge Distance (c)
			Load* (F_{Rk})	Bending Moment	Load (F_{Rd})*	Bending Moment	Load (F_{Ra})*	Bending Moment		
			C20/25 to C50/60	($M_{Rk,s}^0$)**	C20/25 to C50/60	($M_{Rd,s}^0$)**	C20/25 to C50/60	($M_{Ra,s}^0$)**		
mm	mm	mm	kN	Nm	kN	Nm	kN	Nm	mm	mm
Fastening screw or threaded rod property class >4.8										
8	30	100	4,0	15,0	1,9	12,0	1,3	8,6	200	150
10	30	120	4,5	30,0	2,1	24,0	1,5	17,1	200	150
10	40	120	4,5	30,0	2,5	24,0	1,7	17,1	200	150
12	50	130	6,0	52,0	3,8	41,6	2,7	29,7	250	150

* Load in any direction.

** Shear load with lever arm.

FIRE RESISTANCE DATA

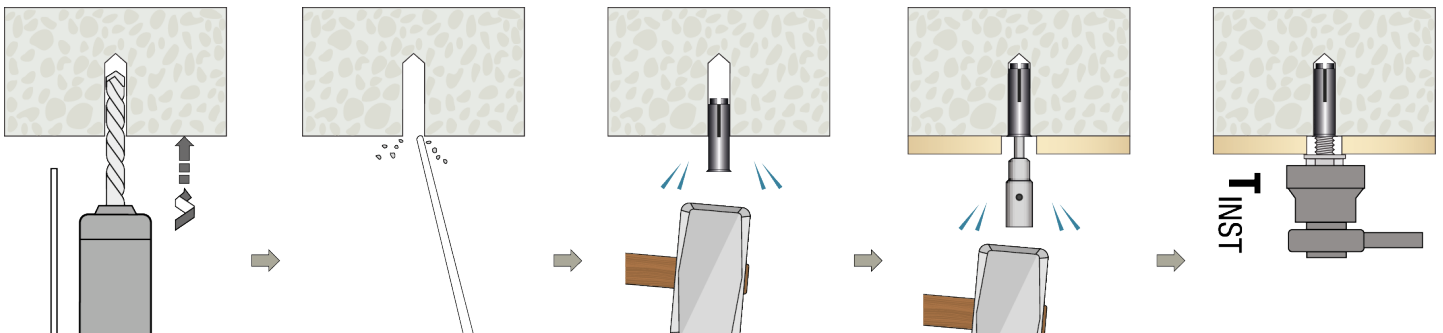


Fire Resistance Data (In Cracked and uncracked concrete C20/25 to C50/60)

Thread Diam (d_{nom})	Embedment Depth ($h_{nom}=h_{ef}$)	Design Resistance				Approved Resistance				Spacing ($s_{a,fi}$)	Edge Distance ($c_{a,fi}$)
		Load* ($F_{Rd,fi}$) kN				Load* ($F_{Ra,fi}$) kN					
		30min (R30)	60min (R60)	90min (R90)	120min (R120)	30min (R30)	60min (R60)	90min (R90)	120min (R120)		
mm	mm								mm	mm	
Fastening screw or threaded rod property class >4.8											
8	30	0.89	0.89	0.89	0.71	0.63	0.63	0.63	0.50	200	150
10	30	0.89	0.89	0.89	0.71	0.63	0.63	0.63	0.50	200	150
10	40	1.13	1.13	1.13	0.90	0.80	0.80	0.80	0.64	200	150
12	50	1.75	1.75	1.75	1.40	1.25	1.25	1.25	1.00	200	150

* The data covers anchors with a fire attack from one side only. If the fire attack is from more than one side, the design method may be taken only, if the edge distance of the anchor is $c \geq 300$ mm and $\geq 2 h_{ef}$.

INSTALLATION INSTRUCTIONS



-Drill correct diameter hole to corresponding depth

-Clean hole by blowing to remove drilling debris and dust

-Insert anchor through concrete using suitable hammer

-Hammer wedge home using correct setting punch

-Tighten with torque wrench to recommended torque

