

Area of Application

ESSVE Drop-in anchors EDA/EDA-K are designed to anchor in concrete and natural stone. Suitable areas of applications include temporary installation, fixing of suspended ceilings, cable trays, pipes, etc. The dimensions M8 and M10 are also ideal for fixing in hollow core elements.

Description

Drop-in anchors EDA/EDA-K consist of a sleeve which is threaded and tapered internally. There is a cone-shaped wedge in the

sleeve.

When installing the wedge is knocked down to the bottom using ESSVE Punch EDA. The lower slotted section of the drop-in anchor expands and is pressed firmly into the drill hole. Drop-in anchor EDA has a straight design and is available in bright zinc plated, 5 µm and stainless acid proof A4 designs. Drop-in anchor EDA-K is equipped with a collar and is available in bright zinc-plated, 5 µm, design.



Installation

- 1. Drill holes with as set out in Technical data.**
2. Blow the hole clean and push-in the drop-in anchor. For EDA-K the drilling depth is extended by 15 mm to avoid blowing clean.
3. Knock down the wedge using the ESSVE punch until mandrel collar is level with the drop-in anchor.
4. Screw on the detail using an appropriate bolt. Installation is complete.

Specification

	Yellow zinc plated	Stainless steel
Material	Steel	Stainless acid proof steel, A4
Surface treatment	Yellow zinc plated	-
Corrosion categories	C1	C5

Corrosivity and Safety class

Corrosion categories	Safety class 1	Safety class 2
C1	5 µm	5 µm
C2	A4	A4
C3-C4	A4	A4
C5	A4	A4

Practical load capacity and technical data

Incl. Safety factors according to the Boverket's General Guidelines 1993:1, Type approval of fixings.

val of fixings.

If necessary, and as part of our technical support, pull-out testing can be conducted for specific objects.

For installation in uncracked concrete ≥ C20/25

Dimension	M6	M8	M10	M12	M16	M20	
Tension load	190	360	450	720	1190	1380	(kg)
Shear load	210	260	330	470	1110	1540	(kg)
Tension load ¹		360	430				(kg)
Shear load ¹		490	530				(kg)
Minimum Edge distance	60	80	100	120	160	200	(mm)
Minimum spacing	120	160	200	240	320	400	(mm)

¹Applies to EDA-K for installation in Hollow core slabs HD/f

Design Load values

For calculation in accordance with Eurocode. For questions, contact ESSVE technical support.

For installation in uncracked concrete \geq C20/25

Dimension	M6	M8	M10	M12	M16	M20	
Tension load	2,6	4,9	6,1	9,8	16,1	18,6	(kN)
Shear load	2,9	3,6	4,5	6,4	15	20,8	(kN)
Tension load ¹		4,9	5,9				(kN)
Shear load ¹		6,6	7,2				(kN)
Minimum Edge distance	60	80	100	120	160	200	(mm)
Minimum spacing	120	160	200	240	320	400	(mm)

¹Applies to EDA-K for installation in Hollow core slabs HD/f

Fire rating

Min. installation depth of 40 mm.

M8 and M10 are approved for fire rating R 90 for a load of 1.0 kN.

Drop-in anchor EDA, bright zinc-plated ESSBOX



Designation		Lengt h mm	Bolt dim. mm	Drill mm	Drill depth mm	Inst. depth mm	Inscrow. length Min/max mm	Max tighte- ning torque Nm	ESSBOX size	Qty/ pack.	Pack./ large pack.
Item no.											
408004	EDA M8	30	M8	10	35	30	8-14	8	203	100	8
408006	EDA M10	40	M10	12	45	40	10-15	15	203	50	8
408008	EDA M12	50	M12	15	55	50	12-20	35	304	50	4
408011	EDA M16	65	M16	20	75	65	16-25	60	203	20	8