

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

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|---|---|---|--|
| <p>1. Drill holes with as set out in Technical data.</p> | <p>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.</p> | <p>3. Knock down the wedge using the ESSVE punch until mandrel collar is level with the drop-in anchor.</p> | <p>4. Screw on the detail using an appropriate bolt. Installation is complete.</p> |
|---|---|---|--|

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 appro-

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

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

Min. installation depth of 40 mm.

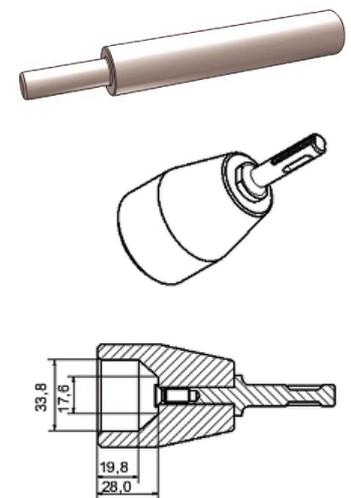
Punch for EDA/EDA-K

Area of Application

Installation tool for ESSVE Drop-in anchors EDA/EDA-K. Punch EDA must be used to ensure the function and performance of the Drop-in anchors EDA/EDA-K.

Installation

It is important to use the right Punch EDA for the right dimension of Drop-in anchor EDA/EDA-K. The installation of Drop-in anchor EDA/EDA-K is correctly executed when the Punch EDA's protruding part has been driven down completely in the fixing.



ESSBOX

Item no.	Designation	Qty./pack.
308202	Punch EDA M6	1
308204	Punch EDA M8	1
308206	Punch EDA M10	1
308208	Punch EDA M12	1
308210	Punch EDA M16	1
308212	Punch EDA M20	1

Accessories

Item no.	Designation	Qty./pack.
110185	Installation tool SDS	1