

# Drop-in Anchor E / ES

Steel, zinc plated



Drop-in Anchor E



Drop-in Anchor ES



Drop-in Anchor ES

**Range of loading:** 1,2 kN–28,6 kN

**Range of concrete quality:** C20/25–C50/60

## Description

The Drop-in Anchor E/ES is approved for redundant fastening for non-structural applications in cracked and uncracked concrete. The anchor sizes with an embedment of 30 mm deep are also approved as single anchor in uncracked concrete. The Drop-in Anchors with an anchorage depth of 25 mm are, however, permitted in pre-stressed hollow core slabs.

The Drop-in Anchor E/ES is placed into the drill hole in pre-setting installation and expanded reliably by means of a manual or hammer drill setting tool. Using a detachable setting tool with a stop drill bit (ASW) allows for quick and efficient, high volume installations. Using the marking setting tool produces a visible marking on the anchors-leave which confirms the correct installation.

## Advantages

- Approved for use as multiple fixing in cracked and uncracked concrete
- Approved as multiple fixing in pre-stressed concrete slabs
- Approved for use as single fixing in uncracked concrete (Anchorage depth  $\geq 30$  mm)
- Shallow drilling depth, thus low risk of hitting reinforcement strikes (Anchorage depth 25 mm)
- Quick, rational and efficient installation due to the detachable setting tool with a stop drill bit (ASW)
- Simple visual inspection with marking tool
- Many possible applications due to the use of standard metric screws and threaded rods
- FM approval for the installation of sprinkler systems (M10–M20)<sup>2)</sup>
- Suitable for the installation of sprinkler systems according to the requirements of damage prevention VDS, GmbH (M8–M16)<sup>2)</sup>
- Fire resistance tested in concrete C20/25 to C50/60



## Applications

Suspensions in the area of heating, sanitary and ventilation, anchorage with threaded rods and screws, flat steel, profiled steel.

<sup>1)</sup>Applies only to anchorage depths  $h_{ef} \geq 30$  mm

<sup>2)</sup>Also applies to ES M10x25

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→ Approved for concrete

Description	Ref. No.	Drill hole Ø x depth mm	Thread Ø x length mm	Package content pcs.	Weight per package kg
E M 5 x 25 <sup>1)</sup>	05000101	8 x 25	M5 x 10	100	0,74
E M 6 x 30	05005101	8 x 30	M6 x 13	100	0,84
E M 8 x 30	05100101	10 x 30	M8 x 13	100	1,17
E M 8 x 40	05105101	10 x 40	M8 x 20	100	1,49
E M 10 x 40	05200101	12 x 40	M10 x 15	50	1,07
E M 12 x 50	05300101	15 x 50	M12 x 18	50	2,18
E M 12 x 80	05305101	15 x 80	M12 x 45	50	3,15
E M 16 x 65	05500101	20 x 65	M16 x 23	25	2,55
E M 16 x 80	05505101	20 x 80	M16 x 38	25	2,91
E M 20 x 80	05600101	25 x 80	M20 x 34	25	4,45

<sup>1)</sup>Not part of assessment

**Drop-in Anchor ES**

→ Steel, zinc plated/Approved for concrete

→ Lipped Drop-in for installations in a bottomless hole

Description	Ref. No.	Drill hole Ø x depth mm	Thread Ø x length mm	Package content pcs.	Weight per package kg
ES M 6x25	05025101	8 x 25	M6 x 12	100	0,74
ES M 8 x 25	05125101	10 x 25	M8 x 12	100	1,05
ES M 8 x 30	05150101	10 x 30	M8 x 13	100	1,15
ES M 8 x 40	05155101	10 x 40	M8 x 20	100	1,53
ES M 10 x 25	05225101	12 x 25	M10 x 12	50	0,80
ES M 10 x 30	05230101	12 x 30	M10 x 12	50	0,89
ES M 10 x 40	05250101	12 x 40	M10 x 15	50	1,10
ES M 12 x 25	05325101	15 x 25	M12 x 12	50	1,15
ES M 12 x 50	05350101	15 x 50	M12 x 18	50	2,15
ES M 16 x 65	05551101	20 x 65	M16 x 23	25	2,53

**Safety Setting Tool**

For Drop-in Anchor E and ES  
With hand guard



Description	Ref. No.	Weight per piece kg
E-MSH 6 x 25	09025801	0,42
E-MSH 8 x 25	09125801	0,42
E-MSH 8 x 30	09100801	0,42
E-MSH 8 x 40	09105801	0,38
E-MSH 10 x 25	09225801	0,50
E-MSH 10 x 30	09205801	0,50
E-MSH 10 x 40	09200801	0,45
E-MSH 12 x 25	09325801	0,45
E-MSH 12 x 50	09300801	0,47
E-MSH 12 x 80	09305801	0,51
E-MSH 16 x 65	09500801	0,50
E-MSH 16 x 80	09505801	0,55
E-MSH 20 x 80	09600801	0,62

**Standard Setting Tool**

For Drop-in Anchor E and ES



Description	Ref. No.	Weight per piece kg
E-SW 5 x 25	09000150	0,08
E-SW 6 x 25	09002150	0,09
E-SW 6 x 30	09005150	0,09
E-SW 8 x 25	09125150	0,14
E-SW 8 x 30	09100150	0,14
E-SW 8 x 40	09105150	0,14
E-SW 10 x 25	09225150	0,15
E-SW 10 x 30	09205150	0,15
E-SW 10 x 40	09200150	0,15
E-SW 12 x 25	09325150	0,24
E-SW 12 x 50	09300150	0,25
E-SW 12 x 80	09305150	0,22
E-SW 16 x 65	09500150	0,41
E-SW 16 x 80/DW 15	09505150	0,42
E-SW 20 x 80	09600150	0,68