DROP-IN ANCHOR AN ES



APPLICATION

Drop-in Anchor for non-cracked concrete and multiple use in cracked concrete.

Suitable for fixing pipelines, channels, etc. meeting the respective approval requirements - for damp locations and outdoor constructions the stainless steel version is required.

- No special drill required
- Setting tool for distance-controlled forced expansion
- Suitable for push-through mounting

INSTALLATION

As expansion tool use the respective expansion cone for Drop-In Anchor.

The "intelligent" expansion cone facilitates the mounting with bore dia. tolerances or varying concrete quality. By the controlled deformation of the cone during installation, the needed edge and centre distances are decreasing considerably.

TECHNICAL DATA

General loads and performance data:

Anchor size	M8x30	M8x40	M10x30	M10x40	M12	M16
Nominal drill hole diameter d0 = [mm]	10	10	12	12	15	20
Depth of drill hole h0 = [mm]	30	40	30	40	50	65
Installation torque Tinst = [Nm]	8	8	15	15	35	60
Diameter of clearance hole in the connecting element df ≤ [mm]	9	9	12	12	14	18
Maximun screwing depth Lth [mm]	13	20	12	15	18	23
Minimum screwing depth Lsdmin [mm]	9	9	10	11	13	18
Minimum thickness of concrete slab hmin [mm]	100	100	120	120	130	160
Minimum centre distance smin [mm]	60	80	100	100	120	150
Minimum edge distance cmin [mm]	95	95	135	135	165	200

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Anchor size	M8x30	M8x40	M10x30	M10x40	M12	M16
Approved loads for C20/25-C50/60 [kN]	1.7	2.0	2.0	2.0	2.4	6.3
Approved bending moments (Steel 4.6) Mperm [Nm]	6.4	6.4	12.8	12.8	22.2	56.9
Approved bending moments (Steel 8.8) Mperm [Nm]	17.1	17.1	34.3	34.3	60.0	152.0
Characteristic centre distance scr [mm]	180	210	230	170	170	400
Characteristic edge distance ccr [mm]	90	105	115	85	85	200
Loads under fire exposure Steel 4.6						
Approved loads R30 perm. F [kN]	0.4	0.4	0.9	0.9	1.5	3.1
Approved loads R60 perm. F [kN]	0.3	0.3	0.8	0.8	1.3	2.4
Approved loads R90 perm. F [kN]	0.3	0.3	0.6	0.6	1.1	2.0
Approved loads R120 perm. F [kN]	0.2	0.2	0.5	0.5	0.8	1.6
Loads under fire exposure Steel ≥ 5.6						
Approved loads R30 perm. F [kN]	0.9	0.9	1.5	1.5	1.5	4.0
Approved loads R60 perm. F [kN]	0.9	0.9	1.5	1.5	1.5	4.0
Approved loads R90 perm. F [kN]	0.9	0.9	1.5	1.5	1.5	3.7
Approved loads R120 perm. F [kN]	0.4	0.4	1.0	1.0	1.2	2.4

Anchor size	M8x30	M8x40	M10x30	M10x40	M12	M16
Approved tensile load C20/25 (Stahl 4.6 to 8.8) [kN]	2.8	3.6	4.0	5.1	7.1	10.5
Oblique (Steel 4.6) perm. V ≥ C20/25 [kN]	3.1	3.1	3.7	4.1	7.2	13.4
Oblique (Steel 8.8) perm. V ≥ C20/25 [kN]	3.9	3.9	3.7	4.1	12.0	18.0
Bending moments (Screw 4.6) perm. M [Nm]	6.4	6.4	12.8	12.8	22.2	56.8
Bending moments (Screw 8.8) perm. M [Nm]	17.1	17.1	34.3	34.3	60.0	152.0

APPROVALS

For multiple use for nonstructural applications Approval ETA-10/0258 (M8 - M12), for anchorage in non-cracked concrete Approval ETA-10/0257, Fire protection examination, VdS-conform, FM-Approval ≥ M10.

F30-F120

Codice	Nome	Peso	Numero di pezzi
110467	AN ES M 8×30	0.01	100

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Codice	Nome	Peso	Numero di pezzi
110506	AN ES M10×30	0.02	50
110469	AN ES M10×40	0.02	50
110470	AN ES M12×50	0.04	50
110471	AN ES M16×65	0.1	25