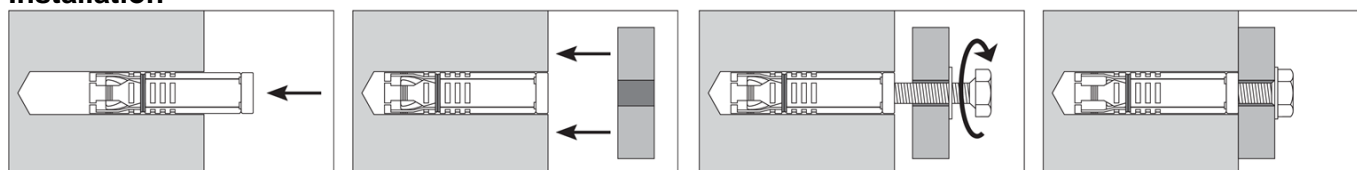


TECHNICAL DATA SHEET
HLM CE 8 anchor with 4 expansion segments for non-cracked concrete

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Materials

parts	Material	Coating
sleeve	cold-forged carbon steel	galvanized $\geq 5 \mu\text{m}$ ISO 4042
cone	carbon steel class 8	
screw	steel class 8.8	
nut	steel class 8	
washer	steel	

Installation

Setting parameter

size		M6	M8	M10	M12	M16 ¹
minimum axis distance	s_{\min} mm	60	75	90	120	150
minimum edge distance	c_{\min} mm	60	75	90	120	150
minimum thickness of concrete substrate	h_{\min} mm	100	100	120	160	170

¹ not included in the CE certification

Strength data

Valid for a single anchorage away from the edge, on a thick concrete element of class C20/25 with sparse reinforcement.

Characteristic resistance (kN)

size		M6	M8	M10	M12	M16 ¹
traction	N_{Rk}	5,0	9,0	12,0	16,0	25,0
shear	V_{Rk}	8,0	14,0	23,0	33,0	62,8

Design resistance (kN)

size		M6	M8	M10	M12	M16 ¹
traction	N_{Rd}	3,3	6,0	8,0	10,7	16,7
shear	V_{Rd}	6,4	11,2	18,4	26,4	50,2

Recommended load (kN)

size		M6	M8	M10	M12	M16 ¹
traction	N_{rec}	2,4	4,3	5,7	7,6	11,9
shear	V_{rec}	4,6	8,0	13,1	18,9	35,9

 1 kN \approx 100 kg

Steel fracture
¹ not included in the CE certification

 The N_{Rk} and V_{Rk} characteristic resistances are derived from the certified values of the European Technical Assessment. The design resistances N_{Rd} and V_{Rd} include the partial safety factors on the resistances. The recommended loads N_{rec} and V_{rec} include the additional safety factor 1.4.

 For the calculation of anchors with small spacings, near the edge or for fastening to concrete with reduced thickness or dense reinforcement, refer to ETA or DPGE1014 Declaration of Performance and use the calculation method described in CEN/TS 1992-4 or Annex C of ETAG 001 (issued by EOTA). Fasteners made with SITA STEEL CE 7 GBK can also be calculated and verified with the G&B calculation program available at www.gebfissaggi.com.

Refer to the ETA or EOTA's Statement of Performance and Technical Report 020 for the calculation of anchors under fire action.