HSL-3 PAX

Ultimate-performance heavy-duty anchor

Anchor versions	Benefits

HSL-3 PAX85
(M10)

Benefits

- High loading capacity
- Suitable for uncracked hollow core slabs VBI A200

Base material	Load conditions

Concrete
(uncracked)

Static/
quasi-static

Installation conditions

Hammer
drilled holes

Basic loading data (for a single anchor): HSL-3 M10 PAX85

All data on this page applies to:
- Hollow concrete slabs VBI A200, $f_{ck,cube} \geq 55 N/mm^2$
- Correct setting according to manufacturer's IFU
- No influence of edge and spacing, $c \geq c_{min}$, $s \geq s_{min}$ (for Tension resistance)
- No influence of edge and spacing, $c \geq 10*h_{ef}$, $s \geq 3*c$ (for Shear resistance)

Effective embedment depth

Anchor size			M10
Effective embedment depth	h_{ef}	[mm]	≥ 35

Characteristic resistance

Anchor size			M10
Uncracked pre-stressed hollow core slabs (VBI A200)			
Tension $N_{Rk,p}$	HSL-3 PAX85	[kN]	12,6
Shear $V_{Rk,s}$	HSL-3 PAX85	[kN]	20

Design resistance

Anchor size			M10
Uncracked pre-stressed hollow core slabs (VBI A200)			
Tension $N_{Rd,p}$	HSL-3 PAX85	[kN]	8,4
Shear $V_{Rd,s}$	HSL-3 PAX85	[kN]	13,3

Recommended resistance

Anchor size			M10
Uncracked pre-stressed hollow core slabs (VBI A200)			
Tension N_{rec}	HSL-3 PAX85	[kN]	6,0
Shear V_{rec}	HSL-3 PAX85	[kN]	9,5

Materials

Material quality

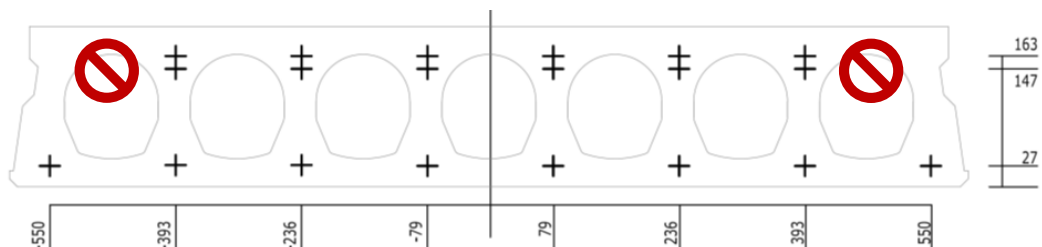| Part	Material
HSL-3 M10 PAX85	Grade 8.8 acc. DIN EN ISO 898-1 galvanised to min. 5 microns

Setting information

Setting details / parameters for HSL-3 PAX85

Anchor size			M10
Concrete flange thickness	d_b	[mm]	$35 \leq d_b \leq 40$
Installation torque	T_{inst}	[Nm]	80
Fixture thickness	t_{fix}	[mm]	5-15
Minimum spacing	s_{min}	[mm]	200
Minimum edge distance	c_{min}	[mm]	100[1]

Note: 1) minimum edge distance in the corner and in line to the hollow cores is 200 mm. See the figure below.

Installation equipment

Anchor size	M10
Rotary hammer	TE 2; TE 7-C; TE 6-A22/36 DRS
Setting tool	Hilti SIW 6AT 22A – SI-AT-A22
Other tools	Drill bit diameter 15 mm, hammer, torque wrench

Setting instructions

*For detailed information on installation of HSL-3 M10 PAX85 see instruction for use given with the package of the product.

Setting instruction

HSL-3 M10 PAx85

SI-AT-A22

Setting

1 ø15 t_{fix} = 5-15mm

2

3a 17mm T_{inst} = 80Nm

3b SIW 6AT-A22 SI-AT-A22 17mm

3bi

3bii

3biii SI-AT-A22 SIW 6AT-A22

4 min. 35mm ø 15mm

![HILTI]

Removal

1	2a	2b	3
min. 35mm, ø 15mm	17mm		