

HLV-X Light duty anchors

Economical sleeve anchor



Base material



Concrete (non-cracked)

Static resistance

All data in this section is Hilti technical data and applies to:

- Correct setting (See setting instruction)
- No edge distance and spacing influence
- Minimum base material thickness
- Concrete C20/25, f_{ck,cube} = 25 N/mm²

Design resistance

Anchor size		10	12
Tensile N _{Rd}	[kN]	2,3	3,7
Shear V _{Rd}	[kN]	3,9	5,0

Recommended loads a)

Anchor size		10	12
Tensile N _{rec}	[kN]	1,6	2,6
Shear V _{rec}	[kN]	2,8	3,6

a) With overall partial safety factor for action $\gamma = 1,4$. The partial safety factors for action depend on the type of loading and shall be taken from national regulations.



Materials

Material quality

Part	Material
Anchor body	Carbon steel, $f_{uk} \ge 400 \text{ N/mm}^2$, $f_{yk} \ge 320 \text{ N/mm}^2$, zinc galvanized to min. 5 μ m

Anchor dimensions

Anchor size	Thread size	Length of anchor bolt	Length of sleeve	Thickness of fixture
	d [-]	L[mm]	l _s [mm]	t _{fix} ≤[mm]
10x45/15	M8	58	45	15
10x55/25	M8	68	55	25
10x75/45	M8	88	75	45
10x95/65	M8	108	95	65
12x50/15	M10	74	50	15
12x70/35	M10	94	70	35
12x95/60	M10	119	95	60



Setting information

Setting details

Anchor size				12
Thread size			M8	M10
Nominal diameter of drill bit	do	[mm]	10	12
Cutting diameter of drill bit	d _{cut} ≤	[mm]	10,45	12,5
Depth of drill hole	h₁≥	[mm]	50	55
Width across nut flats	SW	[mm]	13	17
Diameter of clearance hole in the fixture	d _f ≤	[mm]	12	14
Effective anchorage depth	h _{ef}	[mm]	30	35
Max. torque moment	Tinst	[Nm]	25	40



Installation equipment

Anchor size	10 12		
Rotary hammer for setting	TE 2 – TE 16		
Other tools	hammer, torque wrench, blow up pump		

Setting parameters

Anchor size			10	12
Minimum base material thickness	h _{min} ≥	[mm]	80 ^{a)}	80 ^{a)}
Minimum spacing	S _{min} ≥	[mm]	200	200
Minimum edge distance	C _{min} ≥	[mm]	100	105

a) In case of deeper embedment than h_{ef} , $h_{min} \ge 2x$ embedment depth.

Setting instructions

*For detailed information on installation see instruction for use given with the package of the product.

