



HPS-1 (R)-Plastic anchors

Product Technical Datasheet
Update: Sep 24



HPS-1 (R)-Plastic anchors

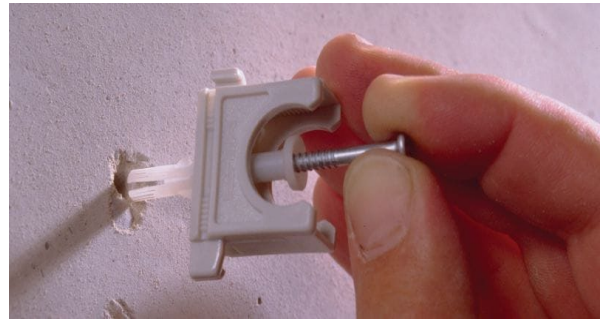
Economical plastic impact anchor

Anchor version	Benefits
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HPS-1 (R)
(d4-d8)

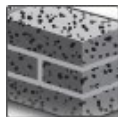
- For universal use on many materials, including perforated brick and block
- The hammer-driven screw can also be driven or unscrewed using a screwdriver
- Quick impact installation using a hammer
- Faster installation – hammer-in impact anchors can be set in seconds
- Suitable for outdoor use – includes corrosion resistant stainless-steel screw – only for HPS-1 R



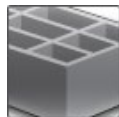
Base material	Load conditions
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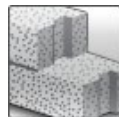
Concrete (uncracked)



Solid brick



Hollow brick

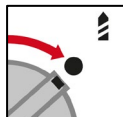
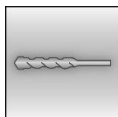


Autoclaved aerated concrete



Static/ quasi-static

Drilling, cleaning, setting	Other information
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Rotary mode (Hollow Brick, AAC)



Hammering mode (Concrete, Solid brick)



Hilti Technical data



Instructions for use

The instructions for use can be viewed using the link in the instructions for use table or the QR code/link in the Hilti webpage table.

Instructions for use

Anchor size	HPS-1 (R) 4	HPS-1 (R) 5	HPS-1 (R) 6	HPS-1 (R) 8
HPS-1 (R)	IFU HPS-1 (R)			

Link to Hilti Webpage

HPS-1	HPS-1 R	
		





Basic loading based on Hilti Technical data.

All data in this section applies to:

- Correct setting (See setting instruction)
- For a single anchor
- No edge distance and spacing influence (provided $c \geq c_{min}$ and $s \geq s_{min}$)
- Base material as specified in the table
- Minimum base material thickness
- Embedment depth, as specified in the table of this section
- N_{rec} - tension , V_{rec} -shear , F_{rec} – load in all directions

Anchor size	HPS-1(R)			
	4	5	6	8
Nominal embedment depth h_{nom} [mm]	20	20	25	30

Recommended loads

Anchor size	HPS-1(R)				
	4	5	6	8	
Concrete $\geq C16/20 - C50/60$	N_{rec} [kN]	0,01	0,10	0,25	0,40
	V_{rec} [kN]	0,01	0,35	0,55	0,90
Solid clay brick Mz-1,8, EN 771-1	 $f_b \geq 20 \text{ N/mm}^2$ F_{rec} [kN]	-	0,07	0,19	0,08
Solid silica brick KS-1,4, EN 771-2	 $f_b \geq 20 \text{ N/mm}^2$ F_{rec} [kN]	-	0,05	0,18	0,36
Hollow clay brick Hz 1,0-10DF, EN 771-1	 $f_b \geq 12 \text{ N/mm}^2$ F_{rec} [kN]	-	-	0,18	0,22
Autoclaved Aerated Concrete AAC, EN 771-4	 $f_b \geq 4 \text{ N/mm}^2$ F_{rec} [kN]	-	0,04	0,12	0,14



Setting information

Installation temperature

-10 °C to +40 °C

Service temperature range

Hilti HPS-1 impact anchor may be applied in the temperature range below.

Temperature range	Base material temperature	Max. long term base material temperature	Max. short term base material temperature
Temperature range	-40 °C to +80 °C	+50 °C	+80 °C

Max. short term base material temperature

Short-term elevated base material temperatures are those that occur over brief intervals, e.g. as a result of diurnal cycling.

Max. long term base material temperature

Long-term elevated base material temperatures are roughly constant over significant periods of time.

Setting details HPS-1 (R)

Anchor		HPS-1(R) 4	HPS-1(R) 5	HPS-1(R) 6	HPS-1(R) 8
Nominal diameter of drill bit	d_o [mm]	4	5	6	8
Depth of drill hole	h_{1min} [mm]	25	30	40	40
		Please refer IFU for more information			
Anchor length	l [mm]	21,5	22 - 37	27 - 67	28,5 – 132,5
Max fixture thickness	t_{fix} [mm]	2	15	40	100
Minimum distances					
Spacing	s_{min} [mm]	20	25	30	35
Edge distance	c_{min} [mm]	20	25	30	35

