



# Hilti HRD-C Plastic Frame Anchor

## Submission Folder

Product Information	2
Technical Data	3
Letters	
Country of Origin	17
Job Reference	18



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## Frame anchor with countersunk head HRD-C



### Technical data

Recommended load (kN), safety factor( $\gamma$ )=3

Model	Size	10x80	10x100	10x120	10x140
<b>HRD-C (h<sub>ef</sub> =70 mm) at concrete 15 N/mm<sup>2</sup></b>	Tensile Load, N <sub>rec</sub>	2.0	2.0	2.0	2.0
	Shear Load, V <sub>rec</sub>	3.5	3.5	3.5	3.5
<b>HUD-1 at AAC block</b>	Tensile Load, N <sub>rec</sub>	1.0	1.0	1.0	1.0
	Shear Load, V <sub>rec</sub>	1.2	1.2	1.2	1.2



Remarks:

- 1) All the data applies to no edge distance, spacing and other influences
- 2) Holes must be produced by rotary drilling only
- 3) For detail design method, please refer to Fastening Technology Manual

Order Now



Ordering designation	Anchor size	Anchor Length	Min. hole depth 1	Min. hole depth 2	Min. anchorage depth 1	Min. anchorage depth 2	Drill bit diameter	Fastening thickness at embed.2	Base plate clearance hole	Sales pack quantity	Item number
HRD-C 10x60	10 mm	60 mm	60 mm	-	50 mm	-	10 mm	-	11 mm	50 pc	423859 <sup>1)</sup>
HRD-C 10x80	10 mm	80 mm	60 mm	80 mm	50 mm	70 mm	10 mm	10 mm	11 mm	50 pc	423860
HRD-C 10x100	10 mm	100 mm	60 mm	80 mm	50 mm	70 mm	10 mm	30 mm	11 mm	50 pc	423861
HRD-C 10x120	10 mm	120 mm	60 mm	80 mm	50 mm	70 mm	10 mm	50 mm	11 mm	50 pc	423862
HRD-C 10x140	10 mm	140 mm	60 mm	80 mm	50 mm	70 mm	10 mm	70 mm	11 mm	50 pc	423863
HRD-C 10x160	10 mm	160 mm	60 mm	80 mm	50 mm	70 mm	10 mm	90 mm	11 mm	50 pc	423864 <sup>1)</sup>
HRD-C 10x180	10 mm	180 mm	60 mm	80 mm	50 mm	70 mm	10 mm	110 mm	11 mm	50 pc	423865 <sup>1)</sup>
HRD-C 10x200	10 mm	200 mm	60 mm	80 mm	50 mm	70 mm	10 mm	130 mm	11 mm	50 pc	423866 <sup>1)</sup>
HRD-C 10x230	10 mm	230 mm	60 mm	80 mm	50 mm	70 mm	10 mm	160 mm	11 mm	50 pc	423867 <sup>1)</sup>
HRD-C 10x270	10 mm	270 mm	60 mm	80 mm	50 mm	70 mm	10 mm	200 mm	11 mm	50 pc	423868 <sup>1)</sup>
HRD-C 10x310	10 mm	310 mm	60 mm	80 mm	50 mm	70 mm	10 mm	240 mm	11 mm	50 pc	423869 <sup>1)</sup>

<sup>1)</sup> This is a non-stock item. For detailed lead time information please contact your Hilti representative.

Please visit Hilti website for the latest item numbers and related products

## Frame anchor with countersunk head HRD-CR

### Technical data

<b>Anchor type</b>	Anchor with screw
<b>Head configuration</b>	Countersunk
<b>Material composition</b>	Steel, A4 (SS 316) or duplex equivalent, Polyamide
<b>Material, corrosion</b>	Steel, stainless
<b>Suitable for cracked concrete with redundant fastenings</b>	Yes
<b>Bit size</b>	T40



Order Now





Ordering designation	Anchor size	Anchor Length	Min. hole depth 1	Min. hole depth 2	Min. anchorage depth 1	Min. anchorage depth 2	Drill bit diameter	Fastening thickness at embed.2	Base plate clearance hole	Sales pack quantity	Item number
HRD-CR 10x60	10 mm	60 mm	60 mm	-	50 mm	-	10 mm	-	11 mm	50 pc	423885 <sup>1)</sup>
HRD-CR 10x100	10 mm	100 mm	60 mm	80 mm	50 mm	70 mm	10 mm	30 mm	11 mm	50 pc	423886 <sup>1)</sup>
HRD-CR 10x140	10 mm	140 mm	60 mm	80 mm	50 mm	70 mm	10 mm	70 mm	11 mm	50 pc	423887 <sup>1)</sup>








<sup>1)</sup> This is a non-stock item. For detailed lead time information please contact your Hilti representative.





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# HRD Plastic frame anchor

Everyday standard plastic frame anchor suitable for wide range of base materials

Anchor version	Benefits
 <p>HRD-C HRD-CR (M8)</p>	<ul style="list-style-type: none"> <li>- Innovative screw design for better hold</li> <li>- Suitable on practically all base materials</li> <li>- Flexible embedment depth (approved at 50mm and 70mm)</li> <li>- Suitable for fastening thicknesses up to 260mm</li> <li>- Pre-assembled for optimum handling and fastening quality</li> </ul>
 <p>HRD-C HRD-CR (M10)</p>	

Base material						
 <p>Uncracked concrete</p>	 <p>Solid brick</p>	 <p>Hollow brick</p>	 <p>Autoclaved aerated concrete</p>	 <p>Drywall</p>	 <p>Prestressed hollow core slabs</p>	 <p>Window frame</p>

Load conditions	Other information
 <p>Tension zone <sup>a)</sup></p>	 <p>European Technical Assessment</p>
 <p>Fire resistance</p>	
	 <p>CE conformity</p>

a) Redundant fastening only

## Approvals / certificates

Description	Authority / Laboratory	No. / date of issue
European Technical Assessment <sup>a)</sup>	DIBt, Berlin	ETA-07/0219 / 2017-09-19
Fire test report	MFPA, Leipzig	GS 3.2/10-157-1/ 2010-09-02
Window frame report <sup>b)</sup>	Ift, Rosenheim	Ift report 105 33035 / 2007-07-09

a) All data given in this section according ETA-07/0219, issue 2017-09-19. The anchor is to be used only for redundant fastening for non-structural applications

b) Only available for HRD 8

**Recommended general notes**

\* The below clauses based on Hilti product qualifications are for references only. Selection of clauses by the engineer shall be based on the specific application needs. Please contact Hilti's technical team for further details.

- Plastic anchor with ribbed surface for toggling in hollow material, made of polyamide PA6 and an accompanying specific screw of galvanized steel or stainless steel; for use in concrete, solid brick, hollow brick, aerated concrete and drywall.
- Anchor shall be installed as per the manufacturer's approved procedure and equipment

Anchor technology & design  
Heavy / medium duty metal anchors  
Plastic / light duty / other metal anchors  
Chemical anchors

## Basic loading data

### All data in this section applies to:

- Correct setting (See setting instruction)
- No edge distance and spacing influence
- Base material as specified in the table
- Minimum base material thickness
- *Steel* failure
- Shear without lever arm
- Anchor in redundant fastening
- Includes additional Hilti recommended data which is not part of the approval

### Characteristic resistance

Anchor size		$h_{nom}$ [mm]	HRD 8		HRD 10	
			50	50	70	90
Concrete C12/15	$F_{Rk}$ [kN]		2,0	3,0	6,0	-
	$V_{Rk}$ [kN]		6,9 / 6,6 <sup>a)</sup>	10,6 / 10,1 <sup>a)</sup> / 11,1 <sup>b)</sup>		-
Concrete C16/20 – C50/60	$F_{Rk}$ [kN]		3,0	4,5	8,5	-
	$V_{Rk}$ [kN]		6,9 / 6,6 <sup>a)</sup>	10,6 / 10,1 <sup>a)</sup> / 11,1 <sup>b)</sup>		-
Solid clay brick Mz 2,0 DIN V 105-100/EN 771-1	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rk}$ [kN]	1,5	3,0 4,5 <sup>c)</sup>	e)	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rk}$ [kN]	1,2	2,0 3,0 <sup>c)</sup>	e)	-
Solid sand-lime brick KS 2,0 DIN V 106/EN 771-2	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rk}$ [kN]	2,5	3,0 4,5 <sup>c)</sup>	e)	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rk}$ [kN]	2,0	2,0 3,0 <sup>c)</sup>	e)	-
Lightweight solid block Vbl 0,9 DIN V 18151-100/EN 771	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	3,5 6,0 <sup>c)</sup>	e)	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	2,5 4,5 <sup>c)</sup>	e)	-
	$f_b \geq 6 \text{ N/mm}^2$	$F_{Rk}$ [kN]	0,5	-	-	-
Ital. solid brick Tufo	$f_b \geq n/a$	$F_{Rk}$ [kN]	1,4	-	-	-
Hollow clay brick Hzl B 12/1,2 Brick A <sup>d)</sup>	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rk}$ [kN]	0,5	-	-	-
Vertic. perforated clay brick Hzl 1,2-2DF Brick F <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	1,5	-	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	2,0	-	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	2,0	-	-
Vertic. perforated clay brick Hzl 1,0-2DF Brick G <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	0,4	0,75	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	0,5	0,9	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	0,6	0,9	-
	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	0,9	1,5	-
Vertic. perforated clay brick Hzl 1,0-2DF Brick H <sup>d)</sup>	$f_b \geq 28 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	2,0	2,5	-
	$f_b \geq 50 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	3,0	3,5	-
Vertic. perforated clay brick Poroton T8 Brick M <sup>d)</sup>	$f_b \geq 6 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	0,75	1,5	-
Vertic. perforated clay brick Hzl 1,0-9DF Brick L <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	1,2	1,5	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	1,5	1,5	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	1,5	2,0	-
	$f_b \geq 16 \text{ N/mm}^2$	$F_{Rk}$ [kN]	-	2,0	3,0	-

a) Values for hot-dipped galvanized carbon steel

b) Values for stainless steel

c) Valid for edge distance  $c \geq 150\text{mm}$ , intermediate values can be interpolated

d) Specification on hollow base material brick types see separate table below

e) Data can be determined by job-site testing, data for  $h_{nom}=50\text{mm}$  can be applied

**Characteristic resistance**

Anchor size				HRD 8		HRD 10	
				50	50	70	90
Hollow sand-lime brick KSL 12/1,4 Brick <b>O</b> <sup>d)</sup>	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rk}$	[kN]	0,75	-	-	-
		$h_{nom}$	[mm]				
Vertic. perforated clay brick Hzl 1,6-2DF Brick <b>P</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rk}$	[kN]	-	1,5	-	-
		$F_{Rk}$	[kN]	-	1,5	-	-
		$F_{Rk}$	[kN]	-	2,0	-	-
Vertic. perforated clay brick Hzl 1,6-2DF Brick <b>Q</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rk}$	[kN]	-	-	2,0	-
		$F_{Rk}$	[kN]	-	-	2,5	-
		$F_{Rk}$	[kN]	-	-	3,0	-
Vertic. perforated clay brick KSL R 1,6-16DF Brick <b>R</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rk}$	[kN]	-	0,9	1,2	-
		$F_{Rk}$	[kN]	-	1,2	1,5	-
		$F_{Rk}$	[kN]	-	1,5	2,0	-
		$F_{Rk}$	[kN]	-	2,0	2,5	-
Lightweight hollow brick Hbl B 2/0,8 Brick <b>S</b> <sup>d)</sup>	$f_b \geq 2 \text{ N/mm}^2$	$F_{Rk}$	[kN]	0,30	-	-	-
		$F_{Rk}$	[kN]	-	0,5	0,75	-
Lightweight concrete hollow block Hbl 1,2-12DF Brick <b>T</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rk}$	[kN]	-	1,2	2,0	-
		$F_{Rk}$	[kN]	-	1,2	2,0	-
Ital. hollow brick Poroton P700 Brick <b>N</b> <sup>d)</sup>	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rk}$	[kN]	1,5	-	-	-
Ital. hollow brick Doppio Uni Brick <b>C+I</b> <sup>d)</sup>	$f_b \geq 28 \text{ N/mm}^2$	$F_{Rk}$	[kN]	-	-	0,6	-
		$F_{Rk}$	[kN]	0,9 (C)	-	1,5 (I)	-
Span. hollow brick Rojo hidrofugano Brick <b>D</b> <sup>d)</sup>	$f_b \geq 6 \text{ N/mm}^2$	$F_{Rk}$	[kN]	0,60	-	-	-
Span. hollow brick Ladrillo perforado Brick <b>J</b> <sup>d)</sup>	$f_b \geq 16 \text{ N/mm}^2$	$F_{Rk}$	[kN]	-	1,5	2,0	-
Span. hollow brick Clinker mediterraneo Brick <b>K</b> <sup>d)</sup>	$f_b \geq 75 \text{ N/mm}^2$	$F_{Rk}$	[kN]	-	-	1,5	-
French hollow brick Brique Creuse <b>B</b> <sup>d)</sup>	$f_b \geq 6 \text{ N/mm}^2$	$F_{Rk}$	[kN]	0,50	-	-	-
		$F_{Rk}$	[kN]	-	-	0,9	0,9
Autoclaved aerated concrete AAC	AAC 2	$F_{Rk}$	[kN]	-	-	0,9	0,9
		$F_{Rk}$	[kN]	-	-	2,0	2,5
		$F_{Rk}$	[kN]	-	-	2,0	2,5
	AAC 6	$F_{Rk}$	[kN]	-	-	3,5 <sup>c)</sup>	4,5 <sup>c)</sup>

- a) Values for hot-dipped galvanized carbon steel
- b) Values for stainless steel
- c) Valid for edge distance  $c \geq 150\text{mm}$ , intermediate values can be interpolated
- d) Specification on hollow base material brick types see separate table below
- e) Data can be determined by job-site testing, data for  $h_{nom}=50\text{mm}$  can be applied

**Design resistance**

Anchor size				HRD 8		HRD 10		
				50	50	70	90	
Concrete C12/15	$h_{nom}$ [mm]			1,1	1,7	3,3	-	
	$N_{Rd}$ [kN]			5,5 / 5,2 <sup>a)</sup>	8,5 / 8,1 <sup>a)</sup> / 8,5 <sup>b)</sup>		-	
Concrete C16/20 – C50/60	$N_{Rd}$ [kN]			1,7	2,5	4,7	-	
	$V_{Rd}$ [kN]			5,5 / 5,2 <sup>a)</sup>	8,5 / 8,1 <sup>a)</sup> / 8,5 <sup>b)</sup>		-	
Solid clay brick Mz 2,0 DIN V 105-100/EN 771-1	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rd}$ [kN]		0,6	1,2 1,8 <sup>c)</sup>	e)	-	
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rd}$ [kN]		0,48	0,8 1,2 <sup>c)</sup>	e)	-	
Solid sand-lime brick KS 2,0 DIN V 106/EN 771-2	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rd}$ [kN]		1,0	1,2 1,8 <sup>c)</sup>	e)	-	
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rd}$ [kN]		0,8	0,8 1,2 <sup>c)</sup>	e)	-	
Lightweight solid block Vbl 0,9 DIN V 18151-100/EN 771	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	1,4 2,4 <sup>c)</sup>	e)	-	
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	1,0 1,8 <sup>c)</sup>	e)	-	
	$f_b \geq 6 \text{ N/mm}^2$	$F_{Rd}$ [kN]		0,2	-	-	-	
Ital. solid brick Tufo	$f_b \geq n/a$	$F_{Rd}$ [kN]		0,56	-	-	-	
Hollow clay brick Hlz B 12/1,2 Brick <b>A</b> <sup>d)</sup>	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rd}$ [kN]		0,2	-	-	-	
Vertic. perforated clay brick Hlz 1,2-2DF Brick <b>F</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,6	-	-	
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,8	-	-	
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,8	-	-	
Vertic. perforated clay brick Hlz 1,0-2DF Brick <b>G</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,16	0,3	-	
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,2	0,36	-	
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,24	0,36	-	
Vertic. perforated clay brick Hlz 1,0-2DF Brick <b>H</b> <sup>d)</sup>	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,36	0,6	-	
	$f_b \geq 28 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,8	1,0	-	
Vertic. perforated clay brick Poroton T8 Brick <b>M</b> <sup>d)</sup>	$f_b \geq 50 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	1,2	1,4	-	
	$f_b \geq 6 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,3	0,6	-	
Vertic. perforated clay brick Hlz 1,0-9DF Brick <b>L</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,48	0,6	-	
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,6	0,6	-	
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,6	0,8	-	
	$f_b \geq 16 \text{ N/mm}^2$	$F_{Rd}$ [kN]		-	0,8	1,2	-	

a) Values for hot-dipped galvanized carbon steel

b) Values for stainless steel

c) Valid for edge distance  $c \geq 150\text{mm}$ , intermediate values can be interpolated

d) Specification on hollow base material brick types see separate table below

e) Data can be determined by job-site testing, data for  $h_{nom}=50\text{mm}$  can be applied

**Design resistance**

Anchor size		$h_{nom}$ [mm]		HRD 8		HRD 10	
				50	50	70	90
Hollow sand-lime brick KSL 12/1,4 Brick <b>O</b> <sup>d)</sup>	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rd}$	[kN]	0,3	-	-	-
Vertic. perforated clay brick Hzl 1,6-2DF Brick <b>P</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	0,6	-	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	0,6	-	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	0,8	-	-
Vertic. perforated clay brick Hzl 1,6-2DF Brick <b>Q</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	-	0,8	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	-	1,0	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	-	1,2	-
Vertic. perforated clay brick KSL R 1,6-16DF Brick <b>R</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	0,36	0,48	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	0,48	0,6	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	0,6	0,8	-
	$f_b \geq 16 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	0,8	1,0	-
Lightweight hollow brick Hbl B 2/0,8 Brick <b>S</b> <sup>d)</sup>	$f_b \geq 2 \text{ N/mm}^2$	$F_{Rd}$	[kN]	0,12	-	-	-
Lightweight concrete hollow block Hbl 1,2-12DF Brick <b>T</b> <sup>d)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	0,2	0,3	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	0,48	0,8	-
Ital. hollow brick Poroton P700 Brick <b>N</b> <sup>d)</sup>	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rd}$	[kN]	0,6	-	-	-
Ital. hollow brick Doppio Uni Brick <b>C+I</b> <sup>d)</sup>	$f_b \geq 28 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	-	0,24	-
	$f_b \geq 50 \text{ N/mm}^2$	$F_{Rd}$	[kN]	0,36 (C)	-	0,6 (I)	-
Span. hollow brick Rojo hidrofugano Brick <b>D</b> <sup>d)</sup>	$f_b \geq 6 \text{ N/mm}^2$	$F_{Rd}$	[kN]	0,24	-	-	-
Span. hollow brick Ladrillo perforado Brick <b>J</b> <sup>d)</sup>	$f_b \geq 16 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	0,6	0,8	-
Span. hollow brick Clinker mediterraneo Brick <b>K</b> <sup>d)</sup>	$f_b \geq 75 \text{ N/mm}^2$	$F_{Rd}$	[kN]	-	-	0,6	-
French hollow brick Brique Creuse <b>B</b> <sup>d)</sup>	$f_b \geq 6 \text{ N/mm}^2$	$F_{Rd}$	[kN]	0,20	-	-	-
Autoclaved aerated concrete AAC	AAC 2	$F_{Rd}$	[kN]	-	-	0,45	0,45
	AAC 4	$F_{Rd}$	[kN]	0,21	-	1,0	1,25
	AAC 6	$F_{Rd}$	[kN]	0,21	-	1,0	1,25
				0,21	-	1,75 <sup>e)</sup>	2,25 <sup>e)</sup>

- a) Values for hot-dipped galvanized carbon steel  
b) Values for stainless steel  
c) Valid for edge distance  $c \geq 150\text{mm}$ , intermediate values can be interpolated  
d) Specification on hollow base material brick types see separate table below  
e) Data can be determined by job-site testing, data for  $h_{nom}=50\text{mm}$  can be applied

**Recommended loads<sup>a)</sup>**

Anchor size	$h_{nom}$ [mm]	HRD 8		HRD 10		
		50	50	70	90	
Concrete C12/15	$N_{Rec}$ [kN]	0,8	1,2	2,4	-	
	$V_{Rec}$ [kN]	3,9 / 3,7 <sup>b)</sup>	6,1 / 5,8 <sup>b)</sup> / 6,1 <sup>c)</sup>	-	-	
Concrete C16/20 – C50/60	$N_{Rec}$ [kN]	1,2	1,8	3,4	-	
	$V_{Rec}$ [kN]	3,9 / 3,7 <sup>b)</sup>	6,1 / 5,8 <sup>b)</sup> / 6,1 <sup>c)</sup>	-	-	
Solid clay brick Mz 2,0 DIN V 105-100/EN 771-1	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rec}$ [kN]	0,42	0,85 1,28 <sup>d)</sup>	f)	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rec}$ [kN]	0,34	0,57 0,85 <sup>d)</sup>	f)	-
Solid sand-lime brick KS 2,0 DIN V 106/EN 771-2	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rec}$ [kN]	0,7	0,85 1,28 <sup>d)</sup>	f)	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rec}$ [kN]	0,57	0,57 0,85 <sup>d)</sup>	f)	-
Lightweight solid block Vbl 0,9 DIN V 18151-100/EN 771	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	1,0 1,71 <sup>d)</sup>	f)	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,71 1,28 <sup>d)</sup>	f)	-
	$f_b \geq 6 \text{ N/mm}^2$	$F_{Rec}$ [kN]	0,14	-	-	-
Ital. solid brick Tufo	$f_b \geq n/a$	$F_{Rec}$ [kN]	0,4	-	-	-
Hollow clay brick Hz B 12/1,2 Brick <b>A</b> <sup>e)</sup>	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rec}$ [kN]	0,14	-	-	-
Vertic. perforated clay brick Hz 1,2-2DF Brick <b>F</b> <sup>e)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,42	-	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,57	-	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,57	-	-
Vertic. perforated clay brick Hz 1,0-2DF Brick <b>G</b> <sup>e)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,11	0,21	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,14	0,25	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,17	0,25	-
Vertic. perforated clay brick Hz 1,0-2DF Brick <b>H</b> <sup>e)</sup>	$f_b \geq 20 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,25	0,42	-
	$f_b \geq 28 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,57	0,71	-
Vertic. perforated clay brick Poroton T8 Brick <b>M</b> <sup>e)</sup>	$f_b \geq 50 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,85	1,0	-
	$f_b \geq 6 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,21	0,42	-
Vertic. perforated clay brick Hz 1,0-9DF Brick <b>L</b> <sup>e)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,34	0,42	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,42	0,42	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,42	0,57	-
	$f_b \geq 16 \text{ N/mm}^2$	$F_{Rec}$ [kN]	-	0,57	0,85	-

- 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
- b) Values for hot-dipped galvanized carbon steel
- c) Values for stainless steel
- d) Valid for edge distance  $c \geq 150\text{mm}$ , intermediate values can be interpolated
- e) Specification on hollow base material brick types see separate table below
- f) Data can be determined by job-site testing, data for  $h_{nom}=50\text{mm}$  can be applied



**Recommended loads<sup>a)</sup>**

Anchor size				HRD 8		HRD 10	
				50	50	70	90
Hollow sand-lime brick KSL 12/1,4 Brick <b>O</b> <sup>e)</sup>	$f_b \geq 12 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	0,21	-	-	-
	$h_{\text{nom}}$	[mm]					
Vertic. perforated clay brick Hz 1,6-2DF Brick <b>P</b> <sup>e)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	0,42	-	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	0,42	-	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	0,57	-	-
Vertic. perforated clay brick Hz 1,6-2DF Brick <b>Q</b> <sup>e)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	-	0,57	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	-	0,71	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	-	0,85	-
Vertic. perforated clay brick KSL R 1,6-16DF Brick <b>R</b> <sup>e)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	0,25	0,34	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	0,34	0,42	-
	$f_b \geq 12 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	0,42	0,57	-
Lightweight hollow brick Hbl B 2/0,8 Brick <b>S</b> <sup>e)</sup>	$f_b \geq 2 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	0,09	-	-	-
	$h_{\text{nom}}$	[mm]					
Lightweight concrete hollow block Hbl 1,2-12DF Brick <b>T</b> <sup>e)</sup>	$f_b \geq 8 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	0,14	0,21	-
	$f_b \geq 10 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	0,34	0,57	-
Ital. hollow brick Poroton P700 Brick <b>N</b> <sup>e)</sup>	$f_b \geq 20 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	0,43	-	-	-
Ital. hollow brick Doppio Uni Brick <b>C+I</b> <sup>e)</sup>	$f_b \geq 28 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	-	0,17	-
	$f_b \geq 50 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	0,25 (C)	-	0,42 (I)	-
Span. hollow brick Rojo hidrofugano Brick <b>D</b> <sup>e)</sup>	$f_b \geq 6 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	0,17	-	-	-
Span. hollow brick Ladrillo perforado Brick <b>J</b> <sup>e)</sup>	$f_b \geq 16 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	0,42	0,57	-
Span. hollow brick Clinker mediterraneo Brick <b>K</b> <sup>e)</sup>	$f_b \geq 75 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	-	-	0,42	-
French hollow brick Brique Creuse <b>B</b> <sup>e)</sup>	$f_b \geq 6 \text{ N/mm}^2$	$F_{\text{Rec}}$	[kN]	0,14	-	-	-
Autoclaved aerated concrete AAC	AAC 2	$F_{\text{Rec}}$	[kN]	-	-	0,32	0,32
	AAC 4	$F_{\text{Rec}}$	[kN]	0,15	-	0,71	0,89
	AAC 6	$F_{\text{Rec}}$	[kN]	0,15	-	0,71	0,89
				0,15	-	1,25 <sup>d)</sup>	1,6 <sup>d)</sup>

- 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
- b) Values for stainless steel
- c) Valid for edge distance  $c \geq 150\text{mm}$ , intermediate values can be interpolated
- d) Specification on hollow base material brick types see separate table below
- e) Data can be determined by job-site testing, data for  $h_{\text{nom}}=50\text{mm}$  can be applied

 Anchor technology & design  
 Heavy / medium duty metal anchors  
 Plastic / light duty / other metal anchors  
 Chemical anchors

**Characteristic resistance for pull-out failure (plastic sleeve) for use in concrete**

Anchor size		HRD 8	HRD 10	
<b>In standard concrete slabs</b>				
Embedment depth	$h_{nom} \geq$ [mm]	50	50	70
Characteristic resistance	$\geq C16/20$ $N_{Rk,p}$ [kN]	3,0	4,5	8,5
	C12/15 $N_{Rk,p}$ [kN]	2,0	3,0	6,0
Partial safety factor	$\gamma_{Mc}^{a)}$	1,8		
<b>In thin skins (weather resistant skins of external wall panels)</b>				
Embedment depth	$h_{nom} \geq$ [mm]	-	50	-
Characteristic resistance	$h=100\text{mm}$ $\geq C16/20$ $N_{Rk,p}$ [kN]	-	3,5	-
	to 400mm C12/15 $N_{Rk,p}$ [kN]	-	2,5	-
Partial safety factor	$\gamma_{Mc}^{a)}$	1,8		
<b>In precast prestressed hollow cored slabs</b>				
Embedment depth	$h_{nom} \geq$ [mm]	-	50	-
Characteristic resistance	$d_p \geq 25\text{mm}$ $\geq C16/20$ $N_{Rk,p}$ [kN]	-	0,6	-
	$d_p \geq 30\text{mm}$ $\geq C16/20$ $N_{Rk,p}$ [kN]	-	1,5	-
	$d_p \geq 35\text{mm}$ $\geq C16/20$ $N_{Rk,p}$ [kN]	-	2,5	-
	$d_p \geq 40\text{mm}$ $\geq C16/20$ $N_{Rk,p}$ [kN]	-	3,5	-
Partial safety factor	$\gamma_{Mc}^{a)}$	1,8		

a) In absence of other regulations

**Specification of hollow base material brick types**

Specification	Picture	Drilling method	Specification	Picture	Drilling method
<b>Brick A</b> Hz B 12/1,2 LxWxH [mm]: 300x240x248 h <sub>min</sub> [mm]: 240		Rotary drilling	<b>Brick B</b> Brique Creuse LxWxH [mm]: 210x198x... h <sub>min</sub> [mm]: 210		Rotary drilling
<b>Brick C</b> Doppio Uni LxWxH [mm]: 230x120x100 h <sub>min</sub> [mm]: 120		Rotary drilling	<b>Brick D</b> Rojo hidrofugano LxWxH [mm]: 240x115x50 h <sub>min</sub> [mm]: 115		Rotary drilling
<b>Brick E</b> Mattone LxWxH [mm]: 240x180x100 h <sub>min</sub> [mm]: 180		Rotary drilling	<b>Brick F</b> Hz 1,2-2DF LxWxH [mm]: 240x115x113 h <sub>min</sub> [mm]: 115		Hammer drilling
<b>Brick G</b> Hz 1,0-2DF LxWxH [mm]: 240x115x113 h <sub>min</sub> [mm]: 110		Hammer drilling	<b>Brick H</b> VHz 1,6-2DF LxWxH [mm]: 240x115x113 h <sub>min</sub> [mm]: 115		Hammer drilling
<b>Brick I</b> Doppio Uni LxWxH [mm]: 250x120x190 h <sub>min</sub> [mm]: 120		Rotary drilling	<b>Brick J</b> Ladrillo perforado LxWxH [mm]: 240x110x100 h <sub>min</sub> [mm]: 110		Rotary drilling
<b>Brick K</b> Clinker mediterr. LxWxH [mm]: 240x113x50 h <sub>min</sub> [mm]: 113		Hammer drilling	<b>Brick L</b> Hz 1,0-9DF LxWxH [mm]: 372x175x238 h <sub>min</sub> [mm]: 175		Rotary drilling
<b>Brick M</b> Poroton T8 LxWxH [mm]: 248x365x249 h <sub>min</sub> [mm]: 365		Rotary drilling	<b>Brick N</b> Poroton P700 LxWxH [mm]: 225x300x190 h <sub>min</sub> [mm]: 300		Rotary drilling
<b>Hollow sand-lime bricks according EN 771-2</b>					
<b>Brick O</b> KSL 12/1,4 LxWxH [mm]: 240x248x248 h <sub>min</sub> [mm]: 240		Hammer drilling	<b>Brick P</b> KS L 1,6-2DF LxWxH [mm]: 240x115x113 h <sub>min</sub> [mm]: 115		Hammer drilling
<b>Brick Q</b> KS L 1,4-3DF LxWxH [mm]: 240x175x113 h <sub>min</sub> [mm]: 175		Hammer drilling	<b>Brick R</b> KS L R 1,6-16DF LxWxH [mm]: 480x240x248 h <sub>min</sub> [mm]: 240		Rotary drilling
<b>Brick S</b> Hbl 2/0,8 LxWxH [mm]: 497x240x248 h <sub>min</sub> [mm]: 240		Hammer drilling	<b>Brick T</b> Hbl 1,2-12DF LxWxH [mm]: 497x175x238 h <sub>min</sub> [mm]: 175		Rotary drilling

## Requirements for redundant fastening

The definition of redundant fastening according to Member States is given in ETAG 020. In Absence of a definition by a Member State the following default values may be taken		
Maximum number of fixing points	Minimum number of anchors per fixing point	Maximum design load of action $N_{sd}$ per fixing point <sup>a)</sup>
3	1	3 [kN]
4	1	4,5 [kN]

## Materials

### Mechanical properties

Anchor size		HRD 8		HRD 10		
		Galvanized steel	Stainless steel	Galvanized steel	Hot-deep galvanized	Stainless steel
Nominal tensile strength $f_{uk}$	[N/mm <sup>2</sup> ]	600	580	600	600	630
Yield strength $f_{yk}$	[N/mm <sup>2</sup> ]	480	450	480	480	480
Stressed cross-section $A_s$	[mm <sup>2</sup> ]	22,9	22,9	35,3	33,7	35,3
Moment of resistance $W$	[mm <sup>3</sup> ]	15,5	15,5	29,5	27,6	29,5
Char. bending resistance $M^0_{Rk,s}$	[Nm]	11,1	10,8	21,3	19,9	22,3

### Material quality

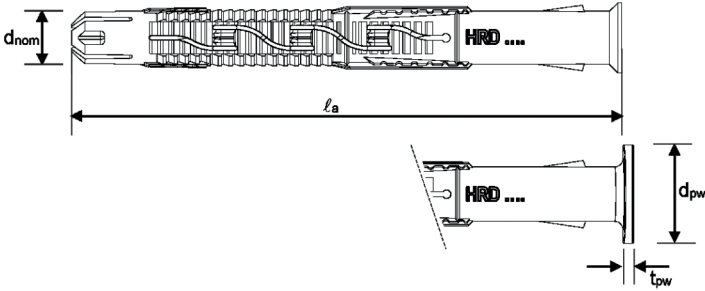
Part	Material	
Sleeve	Polyamide, colour red	
Screw	HRD-C	Carbon steel, galvanized to min.5 $\mu$ m
	HRD-CR	Stainless steel, corrosion class III: 1.4362/1.4401/1.4404/1.4571

### Anchor dimension<sup>a)</sup>

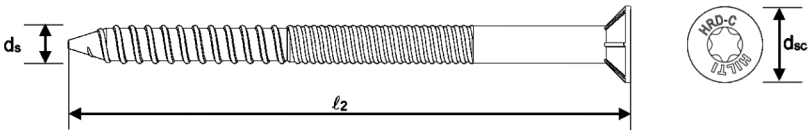
Anchor size		HRD 8	HRD 10
Minimum thickness of fixture	$t_{fix,min}$ [mm]	0	0
Maximum thickness of fixture	$t_{fix,max}$ [mm]	90	260
Diameter of the sleeve	$d_{nom}$ [mm]	8	10
Minimum length of the sleeve	$l_{1,min}$ [mm]	60	60
Maximum length of the sleeve	$l_{1,max}$ [mm]	140	310
Diameter of plastic washer	$d_{pw}$ [mm]	-	17,5
Thickness of plastic washer	$t_{pw}$ [mm]	-	2
Diameter of the screw	$d_s$ [mm]	6	7
Minimum length of the screw	$l_{2,min}$ [mm]	65	65
Maximum length of the screw	$l_{2,max}$ [mm]	145	315
Head diameter of countersunk screw	$d_{sc}$ [mm]	11	14
Head diameter of hexhead screw	$d_{sw}$ [mm]	-	17,5

a) Please refer to the product catalogue on the Hilti Hong Kong website for standard portfolio

### Anchor sleeve



### Special screw



### Setting information

#### Installation temperature

-10°C to +40°C

#### Service temperature range

Hilti HRD frame anchors may be applied in the temperature range given 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

Anchor size			HRD 8	HRD 10
Drill hole diameter	$d_o$	[mm]	8	10
Cutting diameter of drill bit	$d_{cut}$	≤ [mm]	8,45	10,45
Depth of drilled hole to deepest point	$h_{1,1}$	≥ [mm]	60	60
	$h_{1,2}$	≥ [mm]	-	80
	$h_{1,3}$	≥ [mm]	-	100 <sup>a)</sup>
Overall plastic anchor embedment depth in base material	$h_{nom,1}$	≥ [mm]	50	50
	$h_{nom,2}$	≥ [mm]	-	70
	$h_{nom,3}$	≥ [mm]	-	90 <sup>a)</sup>
Diameter of clearance hole in the fixture	Countersunk screw	$d_r$	≤ [mm]	8,5
	Hexhead screw	$d_r$	≤ [mm]	-

a) For use in AAC

### Setting parameters

Anchor size			HRD 8	HRD 10		
		$h_{nom}$	[mm]	50	50	70
Minimum base material thickness	Concrete	$h_{min}$	[mm]	100	100	120
	Concrete thin skin	$h_{min}$	[mm]	-	40	-
	Masonry <sup>e)</sup>	$h_{min}$	[mm]	115-300		
Minimum spacing	Concrete ≥C16/20	$s_{min}$	[mm]	100	50	
		for $c$ ≥	[mm]	50	100 <sup>c)</sup>	
	Concrete C12/15	$s_{min}$	[mm]	140	70	
		for $c$ ≥	[mm]	70	140 <sup>c)</sup>	
	Masonry and AAC	$a_{min}$	[mm]	250	250	
		$s_{min1}$	[mm]	200 (120 <sup>d)</sup> )	100	
$s_{min2}$		[mm]	400 (240 <sup>d)</sup> )	100		
Minimum edge distance	Concrete ≥C16/20	$c_{min}$	[mm]	50	50	
		for $s$ ≥	[mm]	100	150 <sup>c)</sup>	
	Concrete C12/15	$c_{min}$	[mm]	70	70	
		for $s$ ≥	[mm]	140	210 <sup>c)</sup>	
Masonry and AAC	$c_{min}$	[mm]	100 (60 <sup>d)</sup> )	100		
Critical spacing in concrete <sup>a)</sup>	Concrete ≥C16/20	$s_{cr,N}$	[mm]	62	80	125
	Concrete C12/15	$s_{cr,N}$	[mm]	68	90	135
Critical edge distance in concrete <sup>b)</sup>	Concrete ≥C16/20	$c_{cr,N}$	[mm]	100	100	
	Concrete C12/15	$c_{cr,N}$	[mm]	140	140	

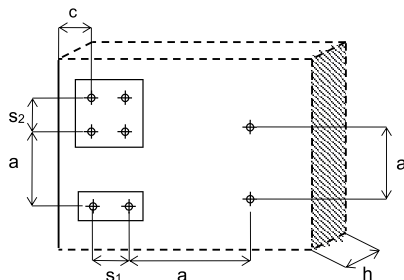
a) For spacing larger than the critical spacing each anchor in a group can be considered in design

b) For edge distance smaller than critical edge distance the design loads

c) Linear interpolation allowed

d) Only for brick "Doppio Uni" and "Mattone"

e) Minimum base material thickness of masonry depends on brick type; see specification of brick types in the table above



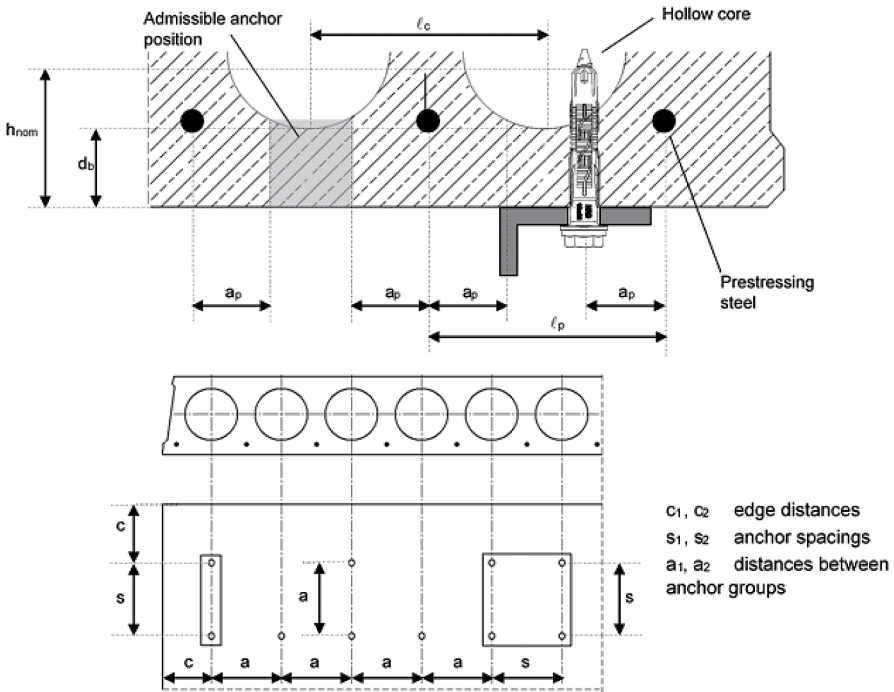
## Installation equipment

Anchor size	HRD 8	HRD 10
Rotary hammer	TE 2- TE16	
Other tools	Hammer, Screwdriver	

## Admissible anchor positions, min. spacing and edge distance of anchors and distance between anchor groups in precast pre-stressed hollow core slabs

Anchor size		HRD 8	HRD 10
Overall plastic anchor embedment depth in the base material	$h_{nom} \geq$ [mm]	-	50
Bottom flange thickness	$d_b \geq$ [mm]	-	25
Core distance	$\ell_c \geq$ [mm]	-	100
Prestressing steel distance	$\ell_p \geq$ [mm]	-	100
Distance between anchor position and prestressing steel	$a_p \geq$ [mm]	-	50
Minimum edge distance	$c_{min} \geq$ [mm]	-	100
Minimum anchor spacing	$s_{min} \geq$ [mm]	-	100
Minimum distance between anchor groups	$a_{min} \geq$ [mm]	-	100

## Schemes of distances and spacing

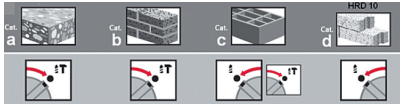
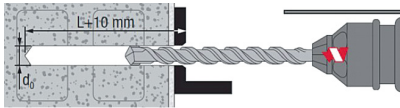


**Setting instructions**

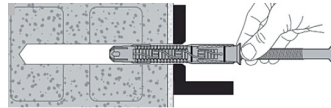
\* For detailed information on installation see instruction for use given with the package of the product.

**Setting instruction for HRD**

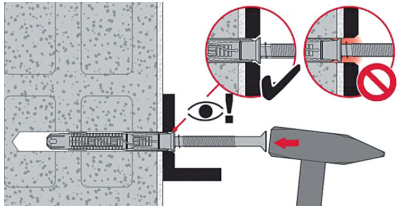
**1. Drilling**



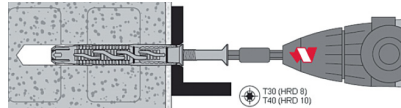
**2. Inserting the anchor**



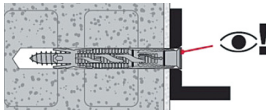
**3. Inserting the anchor**



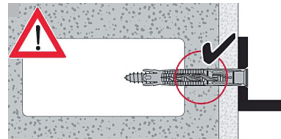
**4. Setting tools**



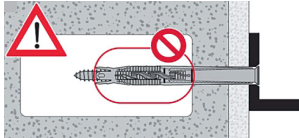
**5. Checking**



**6. Attaching the belonging washer**

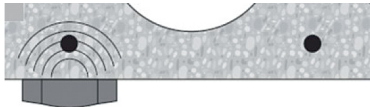


**7. Attaching the belonging washer**

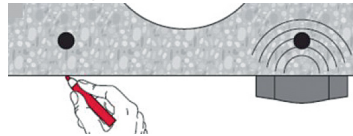


**Additional preparation in case of application in precast prestressed hollow core slabs**

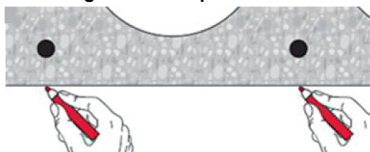
**1. Location of pre-stressed bars**



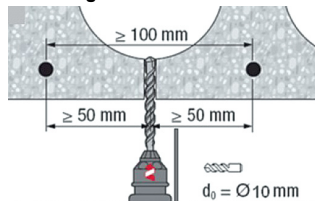
**2. Marking location of pre-stressed bars**



**3. Marking location of pre-stressed bars**



**4. Drilling**





Attn. : To whom it may concern

Date : 26 September 2023  
Ref. : 125/AM/DY/23

Subject : Country of Origin- Hilti HRD-C Plastic Frame Anchor

Dear Sir / Madam,

Enclosed please find the information of Hilti HRD-C Plastic Frame Anchor.

Brand Name : Hilti

Model Name : Hilti HRD-C Plastic Frame Anchor

Manufacturer : Hilti Corporation

Address of Manufacturer : FL-9494, Principality of Liechtenstein.

Manufacturer Contact Person : Dennis Yeung

Supplier : Hilti (Hong Kong) Ltd

Address of Supplier : 701-704, 7/F, Tower A, Manulife Financial Centre,  
223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Supplier Contact Person : Dennis Yeung (+852 9723 4621)

Country of Origin : Germany

Should you have further questions, please do not hesitate to contact our Technical Representatives, Customer Service Hotline at 8228-8118, or email us at [hksales@hilti.com](mailto:hksales@hilti.com).

Yours faithfully,



Dennis Yeung  
Head of Product Leadership Strategy, F&P



## Hilti HRD-C Plastic Frame Anchors Job Reference

Year	Project Name	Customer Name	Project type
2020	KAI TAK SPORTS PARK	SHUN HING WOOD WORKING CO LTD	Sport & Recreation
2020	KAI TAK AREA 1K2 (6566)	SUNDART TIMBER PRODUCTS CO LTD	Residential
2020	TKO LOHAS PARK PH10	LEUNG'S WOODEN CO.	Residential
2020	1-3 SHEK KOK RD, TKO AREA 85	SHUN HING WOOD WORKING CO LTD	Residential
2020	1A-1P MARBLE RD NOVUM POINT	NGAI TO CONSTRUCTION LIMITED	Residential
2020	OCEAN PARK WATER PARK	YAT TONG ENGINEERING CO LTD	Sport & Recreation
2020	HKIA SKYCITY COMPLEX BLDG A2&A3	LAHINE ENGINEERING LIMITED	Retail
2020	TKO LOHAS PARK PH9 (SITE J)	FUNG SHING ENGINEERING AND	Residential
2020	LO FAI RD (EAST) TPTL 223 & 229	YEE HONG KEE WOOD WORKS CO LTD	Residential
2020	A&A - Infrastructure - Near Lok Wah South Estate, Chun Wah R	KING LAM (HING YIP) COMPANY LIMITED	Infrastructure
2021	AREA 54 TUNG CHUNG HOUSING	KWONG YIN WING KOO TIMBER CO LTD	Residential
2021	KAI TAK SPORTS PARK	SHUN HING WOOD WORKING CO LTD	Sport & Recreation
2021	HANG TAI RD, MA ON SHAN AREA 86B PH 1&2 - HOUSING	KWONG YIN WING KOO TIMBER CO LTD	Residential
2021	TKO DESALINATION PLANT PH1 13/WSD/17	WAI YIP BUILDING CONSTRUCTION	Utilities
2021	TKO LOHAS PARK PH9 (SITE J)	FUNG NGAI ENGINEERING AND	Residential
2021	1-3 SHEK KOK RD, TKO AREA 85	SHUN HING WOOD WORKING CO LTD	Residential
2021	KAI TAK INLAND REVENUE TOWER	NGAI TO CONSTRUCTION LIMITED	Office
2021	HKIA 3303 3RW & ASSOCIATED WORK	ROCK-ONE (HONG KONG) ENGINEERING	Infrastructure
2021	YAU MA TEI- KWONG WAH HOSPITAL PHASE 1	LAHINE ENGINEERING LIMITED	Health
2021	LI TAK ST & KOK CHEUNG ST		Residential
2022	DIAMOND HILL HOUSING PH1 & 2 RENTAL	KWONG YIN WING KOO TIMBER CO LTD	Residential
2022	KAI TAK SPORTS PARK	SHUN HING WOOD WORKING CO LTD	Sport & Recreation
2022	WAN CHAI HOPEWELL CENTRE 2	SUNDART TIMBER PRODUCTS CO LTD	Hospitality
2022	HKIA SKYCITY COMPLEX BLDG A2&A3	SHEREX ENGINEERING LIMITED	Retail
2022	HANG TAI RD, MA ON SHAN AREA 86B PH 1&2 - HOUSING	KWONG YIN WING KOO TIMBER CO LTD	Residential
2022	DIAMOND HILL HOUSING PH3 SALES FLAT	KWONG YIN WING KOO TIMBER CO LTD	Residential
2022	53-55A KWUN TONG RD	SUNDART TIMBER PRODUCTS CO LTD	Residential
2022	21 WANG YIP WEST ST YLTL 461	YEE HONG KEE WOOD WORKS CO LTD	Residential
2022	New - Infrastructure - Lai Ying Street, Sham Shui Po	SUNDART TIMBER PRODUCTS CO LTD	Infrastructure
2022	KAI TAK AREA 1L2 (6563)	RED ANGLE CONTRACTING COMPANY	Residential
2023	SHAP SZE HEUNG, TPTL 157 DD165, 207, 218	ENSURE ENGINEERING LIMITED	Residential
2023	TUEN MUN AREA 29 WEST - PUBLIC HOUSING	KWONG YIN WING KOO TIMBER CO LTD	Residential
2023	ORGANIC RESOURCES RECOVERY CENTRE PH2 (WASTE TREA	KWONG YIN WING KOO TIMBER CO LTD	Utilities
2023	KAI TAK SPORTS PARK	SHUN HING WOOD WORKING CO LTD	Sport & Recreation
2023	53-55A KWUN TONG RD	SUNDART TIMBER PRODUCTS CO LTD	Residential
2023	SIU HONG, AREA 54 DD 132 TMTL 483	HANG FAI INTERNATIONAL ENGINEERING	Residential
2023	WAN CHAI HOPEWELL CENTRE 2	SUNDART TIMBER PRODUCTS CO LTD	Hospitality
2023	KAI TAK AREA 4B, SITE 1, NKIL 6576	FUNG SHING ENGINEERING AND	Residential
2023	25-29 KOK CHEUNG ST - SQUARE MILE PH 4	NGAI TO CONSTRUCTION LIMITED	Residential
2023	IMMIGRATION HEADQUARTERS, TKO	LAHINE ENGINEERING LIMITED	Office