

HILTI

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HLC Sleeve Anchor

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Anchor version			Benefits
	HLC	Hex head nut with pressed-on washer	HLC offers various head shapes and fastening thicknesses.
	HLC-H	Bolt version with washer	
	Concrete		
	Fire resistance		
	Solid brick		

Recommended loads

Anchor size		6,5	8	10	12	16	20
Tensile N_{rec}	[kN]	1,2	2,0	2,5	4,0	5,6	7,4
Shear V_{rec}	[kN]	1,8	3,9	3,9	8,0	11,1	11,1

Size available

8x40, 55, 70, 85	10x40, 50, 60, 80, 100	12x55, 75, 100	16x60, 100, 140	20x80, 115, 150
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HRD Frame Anchor

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Anchor version			Benefits
	HRD-H HRD-C HRD-P		- Innovative screw design for better hold - Flexible embedment depth (approved at 50mm and 70mm) - Suitable for fastening thicknesses up to 260mm - Available in 4 different materials for optimum suitability in all corrosive environments - Pre-assembled for optimum handling and fastening quality
	Concrete		
	Fire resistance		

Recommended loads ^{a)}

Anchor size		HRD 8	HRD 10	
		$h_{nom}=50mm$	$h_{nom}=50mm$	$h_{nom}=70mm$
Tensile N_{rec}	[kN]	2,9	2,9	5,4
Shear V_{rec}	[kN]	3,9 / 3,7 ^{b)}	6,1 / 5,8 ^{b)} / 6,1 ^{a)}	

Anchor version		Benefits
 HSV Carbon steel  Concrete		- torque-controlled mechanical expansion allows immediate load application - long thread length accommodates various - cold formed to prevent breaking if bent - raised impact section prevents thread damage during installation. - anchor size is the same as drill bit size for easy installation.

Recommended loads

Anchor size		M8	M10	M12	M16
Tensile $N_{rec}^{a)}$	[kN]	3,4	4,5	6,0	11,6
Shear $V_{rec}^{a)}$	[kN]	3,2	5,0	7,1	13,2

Size available

8x75	10x90	12x75	12x100	12x150	16x120	16x140
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Anchor version		Benefits
 HSA Carbon steel  Concrete  Fire resistance  European Technical Approval  CE conformity  Hilti anchor design software		- two setting depths - setting mark

Recommended loads

Anchor size		Standard embedment depth						Reduced embedment depth					
		M6	M8	M10	M12	M16	M20	M6	M8	M10	M12	M16	M20
Tensile $N_{rec}^{a)}$													
HSA	[kN]	2,4	5,7	7,6	11,9	18,5	25,1	2,0	4,3	5,7	8,5	12,3	16,5
Shear $V_{rec}^{b)}$													
HSA	[kN]	3,7	6,9	11,1	17,4	31,4	48,6	3,7	6,9	11,1	17,0	31,4	48,6

Size available

6x50, 65, 85, 100	8x57, 75, 92, 115, 137	10x68, 90, 108, 120, 140	20x125, 170
12x80, 100, 120, 150, 180, 220, 240, 300	16x100, 120, 150, 90, 240		

Anchor version	Benefits
 HKV Carbon steel with lip  Concrete	- Simple and well proven - approved, tested and confirmed by everyday jobsite experience - reliable setting thanks to simple visual check - versatile - for medium-duty fastening with bolts or threaded rods - available in various materials and sizes for maximized coverage of possible applications

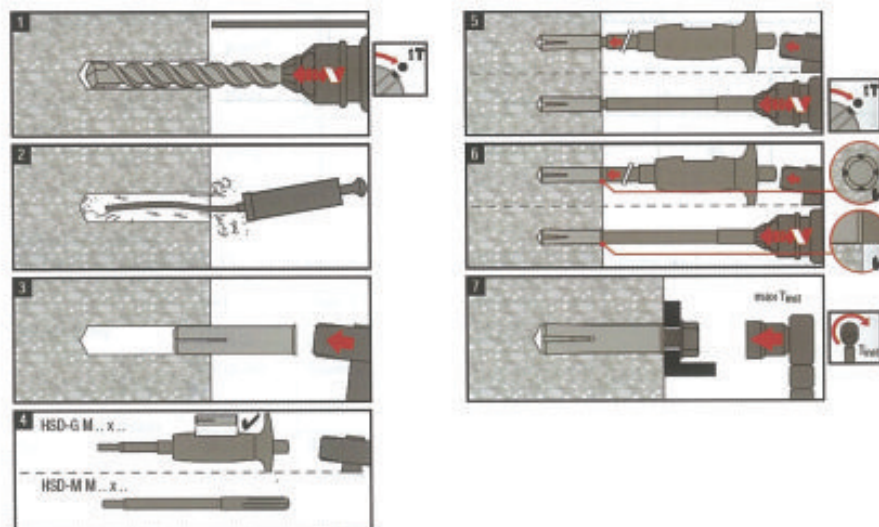
Recommended loads

Anchor size	M6x25	M8x30	M10x30	M10x40	M12x50	M16x65
Tensile N_{rec} [kN]	2,0	2,8	2,8	4,3	6,0	12,6
Shear V_{rec} [kN]	2,9	4,9	5,7	6,3	10,5	19,3

Exoansions plugs



Anchor size	M6x25	M8x30	M8x40	M10x30	M10x40	M12x50	M16x65
Rotary hammer	TE 2 - TE 16					TE 16 - 50	
Machine seeting tool HSD-M	6x25	8x30	8x40	10x30	10x40	12x50	16x65
Hand Setting tool HSD-G							
Other tools	hammer, torque wrench, blow out pump						



Grinder Consumables	Application	Product
	Premium line - High performance diamond cutting Disc (delivers high cutting speed and life) Each disc meant for cutting specific base material: • Concrete • Masonry • Natural stone & Synthetic stone	Premium line - 5" Diamond cutting Disc  DC-D 125/C1 : Medium / soft concrete DC-D 125/C2 : Hard concrete DC-D 125/M1 : Masonry DC-D 125/M2 : Natural stone & synthetic stone
	Classic line - Multi purpose diamond cutting Disc for cutting all base material like: • Concrete • Masonry • Natural stone & Synthetic stone	DC-D Classic line - 4", 5", 7", 9" Diamond cutting Disc  DC-D 100/20/GP: for 4" angle grinder DC-D 125/22.2/GP: for 5" angle grinder DC-D 180/22.2/GP: for 7" angle grinder DC-D 230/22.2/GP: for 9" angle grinder
	Classic line - Multi purpose diamond cup wheel for concrete grinding disc for grinding: • Bulging of concrete columns and beams • Leveling of water slops • Industrial flooring • Concrete suttering joints	DG-CW classic line- 4", 5", 7" Diamond Diamond cupwheel  DG-CW 100/20/SR: for 4" angle grinder DG-CW 125/22.2/SR: for 5" angle grinder DG-CW 180/22.2/SR: for 7" angle grinder
	• Cutting Steel and other metals, Suitable for use with all angle grinder and cutters, wide range of cutting applications	AC-D metal cutting disc- 4", 5", 7", 9" Abrasive disc  • Inox disc : Extra thin cutting disc (1 to 1.8 mm thickness) - cutting sheet metal and stainless steel • 2.5 mm thick cutting disc : cutting all metal including stainless steel
	• High performance grinding disc for Steel and other metals, Suitable for use with all angle grinder and cutters, wide range of cutting applications	AG-D metal grinding disc - 4", 5", 7", 9" Abrasive disc  3.2 mm thick disc : comes only 4" diameter for both cutting and grinding application 6.4 mm thick disc : abrasive grinding disc

Important notice

1. Construction materials and conditions vary on different sites. If it is suspected that the base material has insufficient strength to achieve a suitable fastening, contact the Hilti Technical Advisory Service.
2. The information and recommendations given herein are based on the principles, formulae and safety factors set out in the Hilti technical instructions, the operating manuals, the setting instructions, the installation manuals and other data sheets that are believed to be correct at the time of writing. The data and values are based on the respective average values obtained from tests under laboratory or other controlled conditions. It is the user's responsibility to use the data given in the light of conditions on site and taking into account the intended use of the products concerned. The user has to check the listed prerequisites and criteria conform with the conditions actually existing on the job-site. Whilst Hilti can give responsibility for selecting the right product for a particular application must lie with the customer.
3. All products must be used, handled and applied strictly in accordance with all current instructions for use published by Hilti, i.e. technical instructions, operating manuals, setting instructions, installation manuals and others.
4. All products are supplied and advice is given subject to the Hilti terms of business.
5. Hilti's policy is one of continuous development. We therefore reserve the right to later specifications, etc. without notice.
6. The given mean ultimate loads and characteristic data in the Anchor Fastening Technology Manual reflect actual test results and are thus valid only for the indicated test conditions. Due to variations in local base materials, on-site testing is required to determine performance at any specific site.
7. Hilti is not obligated for direct, indirect, incidental or consequential damages, losses or expenses in connection with, or by reason of, the use of, or inability to use the products for any purpose. Implied warranties of merchantability or fitness for a particular purpose are specifically excluded.

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