



SVH-15 threaded sleeve

Standard internally threaded sleeve for use in cracked and uncracked concrete for formwork applications

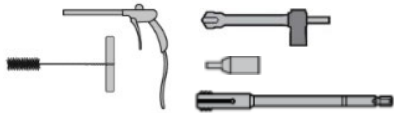
SVH-15 system



SVH-15 sleeve



HIT injection mortars



Standard HIT accessories and tools

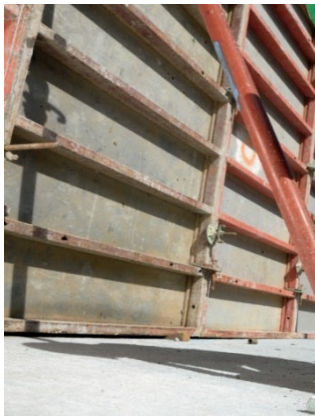


HDE doser

Benefits

- Fast, simple and safe setting with a wide range of HIT mortars with SafeSet system
- Technical values for cracked and non-cracked concrete, with various drilling methods (including hammer, hollow and diamond drilling)
- Recovery of the entire Dywidag rod (15) (no pointing, no cutting off)

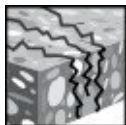
Application



The SVH-15 is an anchor sleeve to be used in combination with DOKA/Dywidag 15 rods for temporary installations of single-sided formworks, formwork attachments or slab-edge formworks in various projects such as in road construction or building construction.

The SVH-15 shall be used in combination with Hilti HIT injection mortars systems as described in the following document. Once the SVH-15 is set in the base material and the Dywidag rod is installed on SVH-15, the system will transfer loads from the formwork to the base material.

Base material



Concrete (cracked)



Concrete (uncracked)

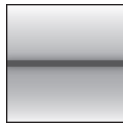


Dry concrete



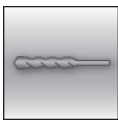
Wet concrete

Load conditions



Static/
quasi-
static

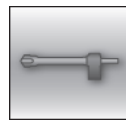
Installation conditions



Hammer drilled holes



Diamond drilled holes



Hollow drill bit drilled holes

HIT injection mortars compatibility



HIT-HY
200-A V3



HIT-HY
200-R V3



HIT-HY
170



HIT-RE
500-V4

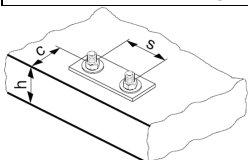


Item No	Specification	Outer diameter	Sales packaging quantity
47909	SVH-15 threaded sleeve	27 mm	5

SVH-15 installation and performance data according to Hilti Technical Data

Performance, tensile load				Sleeve element SVH-15 with mortar ...			
				HIT-HY 200 -A V3, -R V3, -A, -R drilling: HD HDB DD+RT	HIT-HY 170 drilling: HD HDB	HIT-RE 500 V4	
- use together with Doka, Dywidag or equivalent rods, diameter 15 mm, ultimate resistance ≥ 156 kN							
- static or quasi-static loading only							
- use in dry or watersaturated concrete- Temperature range of the base material in-service: - 40° C to + 40° C							
- no shear load performance determined							
- given performance applies for short term-loading only							
Uncracked concrete	C20/25	N_{Rk}	[kN]	86		86	
		N_{Rd}	[kN]	57		41	
		N_{rec}	[kN]	38		27	
	C50/60	N_{Rk}	[kN]	107		107	
		N_{Rd}	[kN]	59		51	
		N_{rec}	[kN]	39		34	
Cracked concrete	C20/25	N_{Rk}	[kN]	54		/	
		N_{Rd}	[kN]	36			
		N_{rec}	[kN]	24			
	C50/60	N_{Rk}	[kN]	54			
		N_{Rd}	[kN]	36			
		N_{rec}	[kN]	24			
Characteristic spacing	s_{cr}	for $h \geq 295$ mm	[mm]	510			
		for $h = h_{min} = 230$ mm	[mm]	736			
						for values in-between linear interpolation allowed	
Characteristic edge distance	c_{cr}	for $h \geq 295$ mm	[mm]	255			
		for $h = h_{min} = 230$ mm	[mm]	368			
						for values in-between linear interpolation allowed	
Load reduction factors	α_s	for spacing between s_{cr} and s_{min}	[-]	MIN [(0,5 + (s [mm] / 1020); 1]			
	α_c	for edge distance between c_{cr} and c_{min}	[-]	MIN [(0,5 + (c [mm] / 510); 1]			
Drilling methods: HD = Hammer drilling with cleaning according IFU, HDB = hollow drilling with Hilti hollow drill bit according IFU, DD+RT = diamond drilling with roughening with Hilti Roughening tool TE-YRT (cleaning according IFU), DD = diamond drilling without roughening (cleaning according IFU)							

Installation			
Outer diameter of the element	d	[mm]	27
Nominal diameter of the drill bit	d_0	[mm]	30
Effective anchorage and drill hole depth	h_{ef}	[mm]	170
Thread engagement length	h_s	[mm]	≥ 80
Minimum base material thickness	h_{min}	[mm]	230
Minimum spacing and edge distance	s_{min}	[mm]	130
	c_{min}	[mm]	90
Temperature range for installation	see IFU of the used mortar		
Working time	t_{work}	see IFU of the used mortar	
Minimum curing time	t_{cure}	see IFU of the used mortar	
Instruction for drilling, cleaning and injection			see IFU of the used mortar





HIT-HY 200-A (V3)/HIT-HY 200-R (V3)/HIT-HY 170/HIT-RE 500 (V4)

		IT					
HIT-HY 200-A (V3)/-R (V3)							TE 35 – TE 70
RE 500 V4							
HIT-HY 170							

