



HIT-HY 170 injection mortar



Basic loading data (for a single anchor)

All data in this section applies to:

- Correct setting (See setting instruction)
- No edge distance and spacing influence
- Steel failure
- Base material thickness as specified in the table
- One typical embedment depth, as specified in the table
- One anchor material, as specified in the tables
- Concrete C 20/25, $f_{ak,cube} = 25 \text{ N/mm}^2$
- Temperature range I (min. base material temp. -40°C , max. long/short term base material temp.: $+24^\circ\text{C}/40^\circ\text{C}$)

Embedment depth ^{a)}

Anchor size			M8	M10	M12	M16	M20	M24
HIT-V								
Embedment depth	h_{ef}	[mm]	80	90	110	125	170	210
Base material thickness	h	[mm]	110	120	140	165	220	270
HIS-N								
Embedment depth	h_{ef}	[mm]	90	110	125	170	-	-
Base material thickness	h	[mm]	120	150	170	230	-	-

a) The allowed range of embedment depth is shown in the setting details.

For hammer drilled holes, hammer drilled holes with Hilti hollow drill bit:

Recommended Loads: (1)

Anchor size			M8	M10	M12	M16	M20	M24
Non-cracked concrete								
Tension N_{Rd}	HAS-U 5.8	[kN]	8,6	13,5	19,7	29,9	50,9	73,2
	HAS-U 8.8		11,9	21,9	31,9	53,3	-	-
Shear V_{Rd}	HAS-U 5.8	[kN]	5,1	8,6	12,0	22,3	34,9	50,3
	HAS-U 8.8		7,4	13,1	19,4	36,0	-	-
Cracked concrete								
Tension N_{Rd}	HAS-U 5.8	[kN]	-	7,4	10,9	16,5	-	-
	HAS-U 8.8		-	8,6	12,0	22,3	-	-

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.