



HIT-CT 1 injection mortar



Static and quasi-static loading (for a single anchor)

All data in this section applies to

- Correct setting
- 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, $f_{ct,cube} = 25 \text{ N/mm}^2$
- Temperature range I
- (min. base material temperature -40°C, max. long term/short term base material temperature: +24°C/40°C)

Embedment depth and base material thickness

Anchor-size		M8	M10	M12	M16	M20	M24
Typical embedment depth	h_{ef} [mm]	80	90	110	125	170	210
Base material thickness	h_{min} [mm]	110	120	140	161	214	266

For hammer drilled holes and Hilti hollow drill bit ^{a)}:

Recommended Loads for HAS-U 5.8:

Anchor-size		M8	M10	M12	M16	M20	M24
Tensile N_{Rd}	[kN]	8,6	12,3	18,1	24,9	40,3	56,5
Shear V_{Rd}	[kN]	5,1	8,6	12,0	22,3	34,9	50,3

- a) Hilti hollow drill bit available for element size M12-M24.
 b) 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.

Recommended Loads for Rebar:

Anchor-size		ø8	ø10	ø12	ø14	ø16	ø20	ø25
Tensile N_{Rd}	[kN]	5,6	8,4	12,3	16,4	18,7	33,9	52,4
Shear V_{Rd}		6,7	10,5	14,8	20,0	26,2	41,0	64,3

- 1) Hilti hollow drill bit available for element size M12-M25.