



# HIT-HY 270 injection mortar

Rods & Sleeves / Masonry



## Brick types and properties

For further information on brick types and properties, as well as edge distance spacing please consult the Technical DataSheet for HY-270 found at Hilti.se.  
 The Technical Datasheet also contains load values for brick breakout failure, local brick failure and anchor failure for various types of bricks.  
 For Recommended Loads a partial safety factor = 1.5 should be applied to all design values.

### Design tension and shear Loads – Steel failure for threaded rods HIT-V and HAS-U

Anchor size			M6	M8	M10	M12	M16
N <sub>Rd,s</sub>	HAS-U 5,8(F)	[kN]	6,7	12,0	19,3	28,0	52,7
	HAS-U 8,8(F)		10,7	19,3	30,7	44,7	84,0
	HAS-U-R		7,5	13,9	21,9	31,6	58,8
V <sub>Rd,s</sub>	HAS-U 5,8(F)	[kN]	4,0	7,2	12,0	16,8	31,2
	HAS-U 8,8(F)		6,4	12,0	18,4	27,2	50,4
	HAS-U-R		4,5	8,3	12,8	19,2	35,3
M <sub>Rd,s</sub>	HAS-U 5,8(F)	[Nm]	6,4	15,2	29,6	52,8	133,6
	HAS-U 8,8(F)		9,6	24,0	48,0	84,0	212,8
	HAS-U-R		7,1	16,7	33,4	59,1	149,7

### Design tension and shear Loads – Steel failure for internally threaded rods HIT-IC

Anchor size			M8	M10	M12
N <sub>Rd,s</sub>	HIT-IC	[Nm]	3,9	4,8	9,1
	HIT-V 5,8	[Nm]	7,2	12,0	16,8
V <sub>Rd,s</sub>	Screw 8,8		12,0	18,4	27,2
	M <sub>Rd,s</sub>	HIT-V 5,8	15,2	29,6	52,8
Screw 8,8		[Nm]	24,0	48,0	84,0