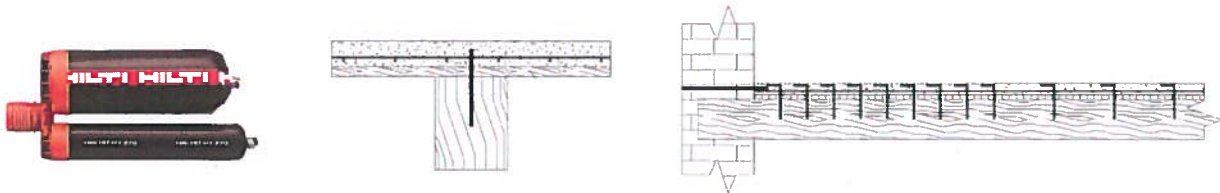


Hilti HIT-HY 270 applicable for wood connections



Application commentary:

- Typical refurbishment application where new concrete ceilings get established within an existing building
- HIT-HY 270 can be used with rebars or anchor rods to connect the concrete unit with either the existing masonry (mostly walls) or wood (mostly ceiling beams)
- HIT-HY 270 released application conditions:
 - Embedment depth: $h_{ef} = 10d$
 - Minimum edge distance: 70mm
 - Nominal borehole diameter (timber drill bits):
 - $d = d_s + 2$ for threaded rods
 - $d = d_s + 4$ for rebars
 - Timber moisture content: < 12%
 - Exposure: dry, internal
 - Installation direction: Perpendicular to the grain of timber

Tension load results:

Steel element Diameter d_s [mm]	HIT-V rod / rebar			
	8	10	12	16
Solid Timber N_{rec} [kN]	-	1,0	1,5	2,0
Gluelam N_{rec} [kN]	2,0	3,0	4,0	5,0

Verification of shear resistance according to state of the art.
E.g. analogues EC5

Kaufering
18.12.2014


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Technical data & Approval


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