

Injection mortar UPM11

Load table

Recommended loads¹⁾ ²⁾ for a single anchor in masonry for pre-positioned installation.

Type	Compressive brick strength f_b [N/mm ²]	Drill hole diameter d_0 [mm]	Minimum drill hole depth h_0 min [mm]	Effective anchorage depth h_{ef} [mm]	Content UPM 11 [scale units]	Maximum installation torque $T_{inst,max}$ [Nm]	Recommended load F_{rec} [kN]	Minimum spacing $s_{min} \parallel$ / $s_{min} \perp$ [mm]	Minimum edge distance $c_{cr} = c_{min}$ [mm]
Solid brick Mz									
M6	≥ 12	8	80	75	3	4	13)	240 / 75	100
M8	≥ 12	10	80	75	3	4	13)	240 / 75	100
M10	≥ 12	12	80	75	4	4	1.7	240 / 75	100
M12	≥ 12	14	80	75	5	4	1.7	240 / 75	100
Solid sand-lime brick KS									
M6	≥ 12	8	80	75	3	4	13)	80 / 300	60
M8	≥ 12	10	80	75	3	4	13)	80 / 300	60
M10	≥ 12	12	80	75	4	4	1.7	80 / 300	60
M12	≥ 12	14	80	75	5	4	1.7	80 / 300	60
Perforated sand-lime brick KSL									
M6 mit UPM-SH 12x50 K	≥ 12	12	55	50	5	4	0.8	100 / 115	60
M8 mit UPM-SH 12x85 K	≥ 12	12	90	85	10	4	0.8	100 / 115	60
M8 mit UPM-SH 16x130 K	≥ 12	16	135	130	15	4	0.8	100 / 115	80
M10 mit UPM-SH 16x85 K	≥ 12	16	90	85	12	4	0.8	100 / 115	80
M12 mit UPM-SH 20x85 K	≥ 12	20	90	85	15	4	0.8	100 / 115	80
Vertically perforated brick Hlz									
M6 mit UPM-SH 12x50 K	≥ 12	12	55	50	5	4	0.8	240 / 115	100
M8 mit UPM-SH 12x85 K	≥ 12	12	90	85	10	4	0.8	240 / 115	100
M8 mit UPM-SH 16x130 K	≥ 12	16	135	130	15	4	0.8	240 / 115	100
M10 mit UPM-SH 16x85 K	≥ 12	16	90	85	12	4	0.8	240 / 115	100
M12 mit UPM-SH 20x85 K	≥ 12	20	90	85	15	4	0.8	240 / 115	100
Lightweight concrete hollow block Hbl									
M6 mit UPM-SH 12x50 K	≥ 4	12	55	50	5	4	0.6	250 / 250	100
M8 mit UPM-SH 12x85 K	≥ 4	12	90	85	10	4	0.6	250 / 250	100
M8 mit UPM-SH 16x130 K	≥ 4	16	135	130	15	4	0.6	250 / 250	100
M10 mit UPM-SH 16x85 K	≥ 4	16	90	85	12	4	0.6	250 / 250	100
M12 mit UPM-SH 20x85 K	≥ 4	20	90	85	15	4	0.6	250 / 250	100
Concrete hollow block Hbn									
M6 mit UPM-SH 12x50 K	≥ 4	12	55	50	5	4	0.6	250 / 250	100
M8 mit UPM-SH 12x85 K	≥ 4	12	90	85	10	4	0.6	250 / 250	100
M8 mit UPM-SH 16x130 K	≥ 4	16	135	130	15	4	0.6	250 / 250	100
M10 mit UPM-SH 16x85 K	≥ 4	16	90	85	12	4	0.6	250 / 250	100
M12 mit UPM-SH 20x85 K	≥ 4	20	90	85	15	4	0.6	250 / 250	100

¹⁾ The application conditions of the manufacturer must be taken into account. In perforated and hollow bricks, use the ASTA/UPM-A anchor rod in combination with the UPM-SH sieve sleeve.

²⁾ Recommended anchor load capacities for tensile load, transverse load, and oblique tensile load at any angle without considering the influence of axial and edge distances.

³⁾ For masonry with superimposed load, the recommended load can be increased to 1.4 kN.