

Capacity tables for PAPS and PJJ

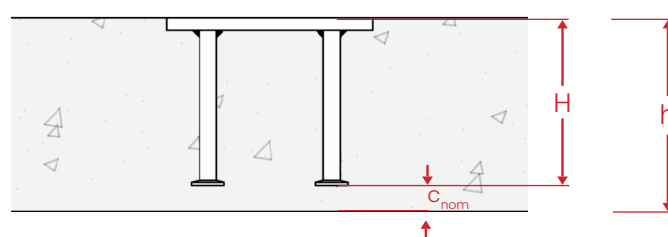
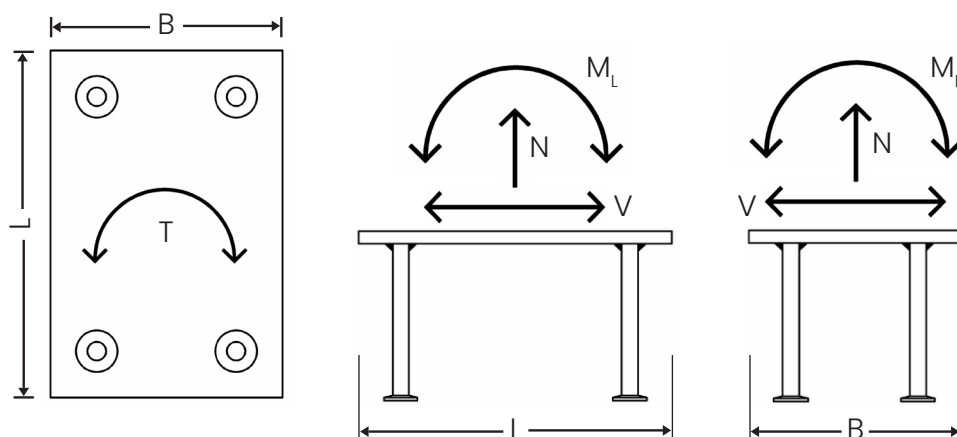
Capacity tables for overview. More sizes of PJJ and materials for PAPS (for example stainless steel plate) is available at Pretec's website and Pretec Fastening Plate software.

Assumptions for table 1-2.

- Cracked concrete without supplementary reinforcement. Concrete C30/37.
- Large edge distances where they are large enough to not influence capacities.
- Punching failure or pure compression is not considered. Should be checked separately according to EN 1992-1-1 and EN 1993-1-8 if applicable.
- Tables are for a single static action active at a time. For combined loading and short edge distances, see Pretec Fastening Plate software.
- An installation tolerance of 10% of plate side dimension, maximum 15mm, is considered. Relative to centric placement of fastening.

EN 1992-1-1, EN 1992-4, EN 1993-1-1, EN 1993-1-8, EKS 12

Load directions and dimensions.



$$h_{\min} = H + c_{\text{nom}}, \text{ where } c_{\text{nom}} \text{ is minimum concrete cover}$$

Table 1. PAPS S355J2

Dim, PAPS BxL-H	N _{Rd} [kN]	V _{Rd} [kN]	M _{L,Rd} [kNm]	M _{B,Rd} [kNm]	T _{Rd} [kNm]	Minimum fastening area BxL direction. For M and N [mm]
50×100-68	9,7	31,2	0,92	0,34	1,06	7x70
50×100-108	22,5	31,2	1,47	0,52	1,40	25x80
100×100-68	20,0	46,2	1,20	1,20	1,9	55x55
100×100-108	45,6	63,6	2,7	2,7	3,9	79x79
100x150-70	20,7	53,8	1,9	1,44	2,9	35x85
100×150-110	43,6	68,3	4,3	3,0	5,0	65x120
100×200-72	19,0	50,7	2,0	1,34	3,5	15x83
100×200-112	50,1	85,3	6,0	3,6	7,6	35x150
100×200-162	81,2	85,3	8,2	5,7	7,6	55x163
150×150-72	18,5	49,2	1,7	1,7	3,1	50x50
150×150-112	48,9	83,6	4,8	4,8	6,9	102x102
150×150-162	79,9	83,6	8,0	8,0	6,9	120x120
200×200-72	23,0	61,2	2,6	2,6	5,1	38x38
200×200-112	56,7	88,9	7,0	7,0	9,3	127x127
200×200-162	89,6	134,7	11,4	11,4	14,1	150x150
100×300-165	90,6	137,5	15,5	6,6	16,0	45x245
200×300-165	100,8	140,5	17,8	13,1	18,0	110x225
250×250-165	107,4	142,7	17,0	17,0	20,0	161x161
300×300-165	110,5	143,9	19,8	19,8	21,1	200x200

Table 2. PJL

Dim, PJL LxB-H	N_{Rd} [kN]	V_{Rd} [kN]	$M_{L,Rd}$ [kNm]	$M_{B,Rd}$ [kNm]	T_{Rd} [kNm]	Minimum fastening area LxB direction. For M and N [mm]
150x150-223	127	122	12,3	12,3	9,2	60x60
300x200-283	201	307	37,2	25,7	41,2	190x90
250x250-223	158	203	26,4	26,4	30,3	100x100
300x300-283	214	319	41,2	41,2	49,9	150x150

For other sizes of PJL, see Pretec Fastening Plate.