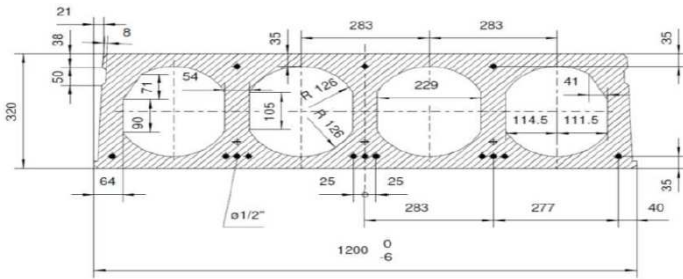


TECHNICAL SPECIFICATION: PRE-STRESSED HOLLOW PANEL, PARTEK, thickness 320mm

panel identification: **PSP 320**

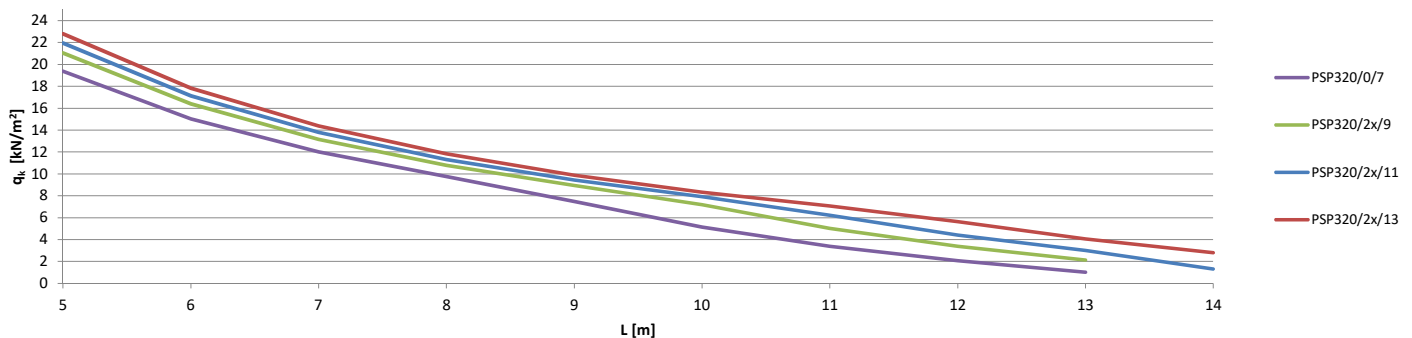


Width of panel taper in mm
380 - 450
665 - 730
950 - 1020

Basic Technical Data

Thickness	320 mm	Ambient environment class	XC1,S1
Section area	0,18 m ²	Concrete class	C50/60
Weight of poured ceiling	4,03 kN/m ²	Pre-stressing steel class	ST 1570 /1770N/mm ² - Relax 2 ST 1660 /1860N/mm ² - Relax 2
Hollow panel weight	3,83 kN/m ²	Applied standards	ČSN EN 1990; ČSN EN 1992-1-1 ČSN EN 1168+A3
Minimum supporting length	L/100, min.100mm	Fire resistance (standard)	REI 60
Joint fill concrete need	9,1 l/m ²		
Thermal resistance	0,2 m ² K/W		

Permitted usable load of pre-stressed ceiling panels PARTEK PSP320



Note: The values shown in the table do not substitute for static calculation.

TYPE OF REINFORCEMENT	Cross-sectional characteristics					Ceiling part span L [m]												
	A _p Top mm ²	A _p Bottom mm ²	M _{cr} * [kNm/1,2]	M _{Rd} [kNm/1,2]	V _{Rd} [kN/1,2]	5	6	7	8	9	10	11	12	13	14	8,5	9	9,5
PSP320mm						Permitted load in characteristic values [kN/m ²]												
PSP320 - 0/7	0	651	166,6	227	108,3	21,35	16,65	13,37	10,84	7,54	5,17	3,42	2,09	1,05				
PSP320 - 2x/9	104	837	189,6	285,5	115,7	23,15	18,10	14,62	12,04	10,06	7,56	5,34	3,65	2,33				
PSP320 - 2x/11	104	1023	210,6	334,8	119,9	24,17	18,96	15,33	12,66	10,61	8,99	6,57	4,69	3,23	2,06			
PSP320 - 2x/13	104	1209	235,3	392,8	123,7	25,09	19,71	15,97	13,21	11,10	9,43	8,06	5,95	4,31	3,00			

Reinforcement values: top reinforcement / bottom reinforcement (number without identification - rope Ø 12.5)
(number with identification X - rope Ø 9.3)

The specified values of permitted usable load are reduced by the weight of the ceiling panel and permanent load $g=1.5$ kN/m².