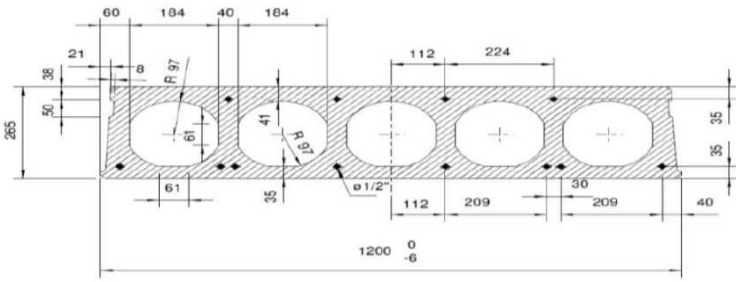


## TECHNICAL SPECIFICATION: PRE-STRESSED HOLLOW PANEL, PARTEK, thickness 265mm

panel identification: PSP 265

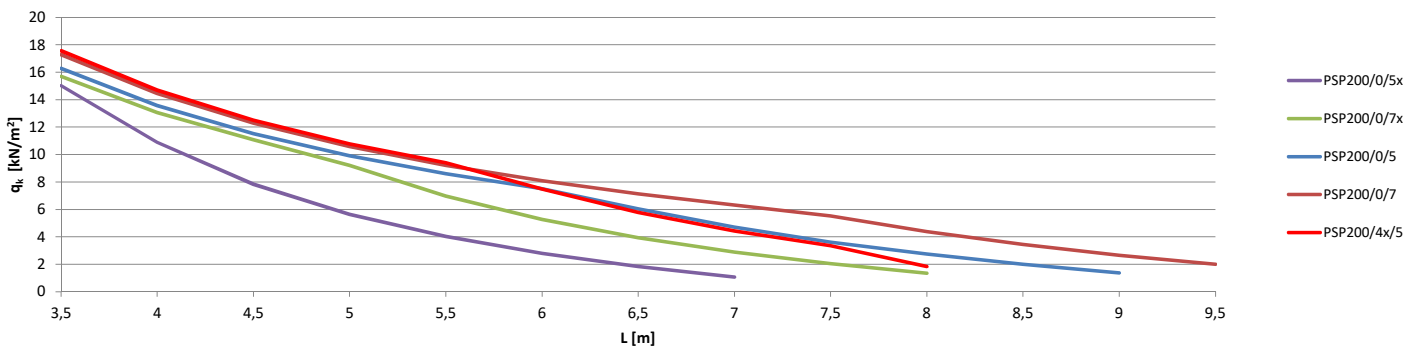


Width of panel taper in mm
320 - 370
540 - 590
765 - 820
985 - 1040

### Basic Technical Data

Thickness	265	mm	Ambient environment class	XC1,S1
Section area	0,16	m <sup>2</sup>	Concrete class	C50/60
Weight of poured ceiling	3,75	kN/m <sup>2</sup>	Pre-stressing steel class	ST 1570 /1770N/mm <sup>2</sup> - Relax 2 ST 1660 /1860N/mm <sup>2</sup> - Relax 2
Hollow panel weight	3,6	kN/m <sup>2</sup>	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	7,9	l/m <sup>2</sup>		
Thermal resistance	0,18	m <sup>2</sup> K/W		

Permitted usable load of pre-stressed ceiling panels PARTEK PSP265



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 <sub>p</sub> Top mm <sup>2</sup>	A <sub>p</sub> Bottom mm <sup>2</sup>	M <sub>cr</sub> * [kNm/1,2]	M <sub>Rd</sub> [kNm/1,2]	V <sub>Rd</sub> [kN/1,2]	5	6	7	8	9	10	11	12							
<b>PSP 200mm</b>						Permitted load in characteristic values [kN/m <sup>2</sup> ]														
PSP265 - 0/8x	0	416	99,3	117,0	81,7	15,04	9,90	6,07	3,58	1,88	0,66									
PSP265 - 0/6	0	558	117,5	156,7	84,9	15,81	12,20	9,67	6,34	4,06	2,42									
PSP265 - 0/8	0	744	139,4	206,1	88,6	16,70	12,93	10,30	8,35	6,77	4,61	2,98	1,75							
PSP265 - 0/10	0	930	159,8	254,0	92,0	17,51	13,60	10,87	8,85	7,30	6,07	4,21	2,78							
PSP265 - 4x/6	208	558	113,8	158,6	89,5	16,91	13,11	9,84	6,47	4,16	2,15									

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  $g=1.5 \text{ kN/m}^2$ .