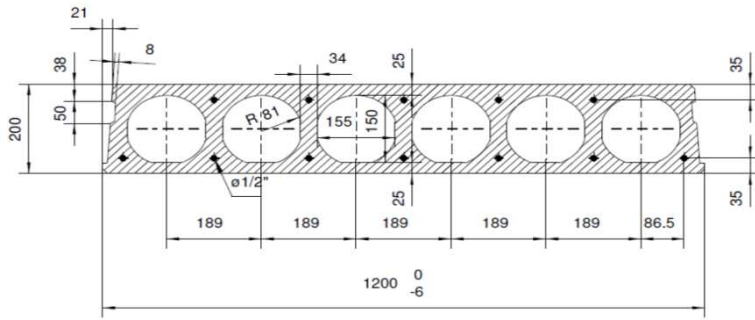


TECHNICAL SPECIFICATION: PRE-STRESSED HOLLOW PANEL, PARTEK, thickness 200mm

panel identification: PSP 200

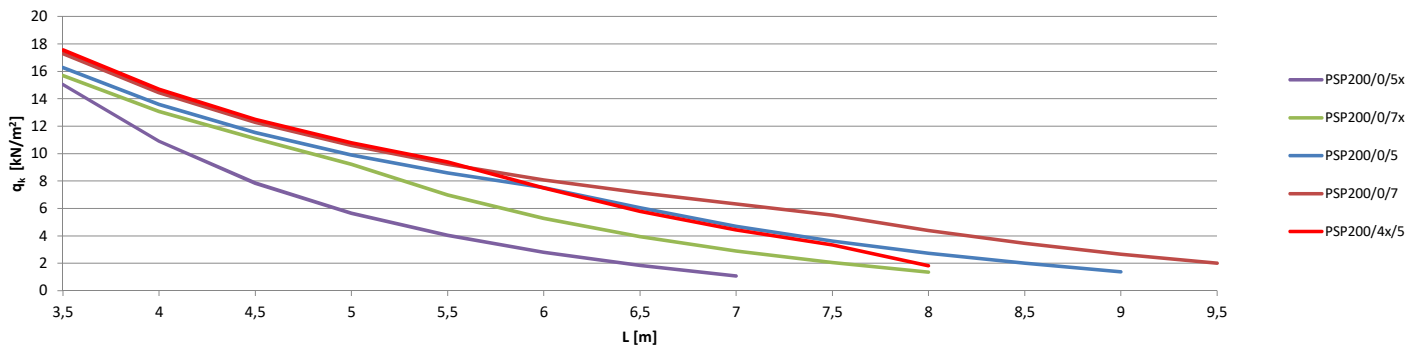


Width of panel taper in mm
260 - 310
450 - 500
640 - 690
820 - 870
1010 - 1060

Basic Technical Data

Thickness	200	mm	Ambient environment class	XC1,S1
Section area	0,12	m ²	Concrete class	C50/60
Weight of poured ceiling	2,99	kN/m ²	Pre-stressing steel class	ST 1570 /1770N/mm ² - Relax 2 ST 1660 /1860N/mm ² - Relax 2
Hollow panel weight	2,77	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	4,7	l/m2		
Thermal resistance	0,16	m ² K/W		

Permitted usable load of pre-stressed ceiling panels PARTEK PSP200



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]	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5
PSP 200mm						Permitted load in characteristic values [kN/m ²]												
PSP200 - 0/5x	0	260	48,0	52,6	58,4	15,40	10,93	7,86	5,67	4,04	2,81	1,85	1,08					
PSP200 - 0/7x	0	364	57,3	73	60,5	17,32	14,44	12,32	9,29	7,04	5,33	3,99	2,94	2,08	1,38			
PSP200 - 0/5	0	465	66,2	93,1	62,5	18,02	15,08	12,85	11,09	9,67	7,81	6,11	4,76	3,67	2,78	2,04	1,42	
PSP200 - 0/7	0	651	81,0	127,8	65,7	19,13	16,04	13,69	11,85	10,35	9,12	8,09	7,21	5,81	4,64	3,67	2,86	2,17
PSP200 - 4x/5	208	465	64,4	95,9	66,4	19,37	16,25	13,88	12,01	10,18	7,91	6,14	4,74	3,61	2,68			

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