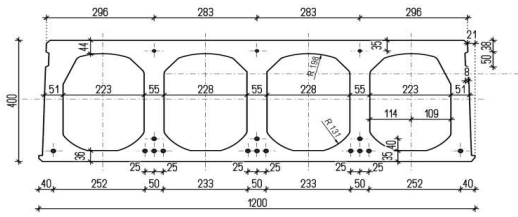


TECHNICAL SPECIFICATION: PRE-STRESSED HOLLOW PANEL, PARTEK, thickness 400mm panel identification: **PSP 400**

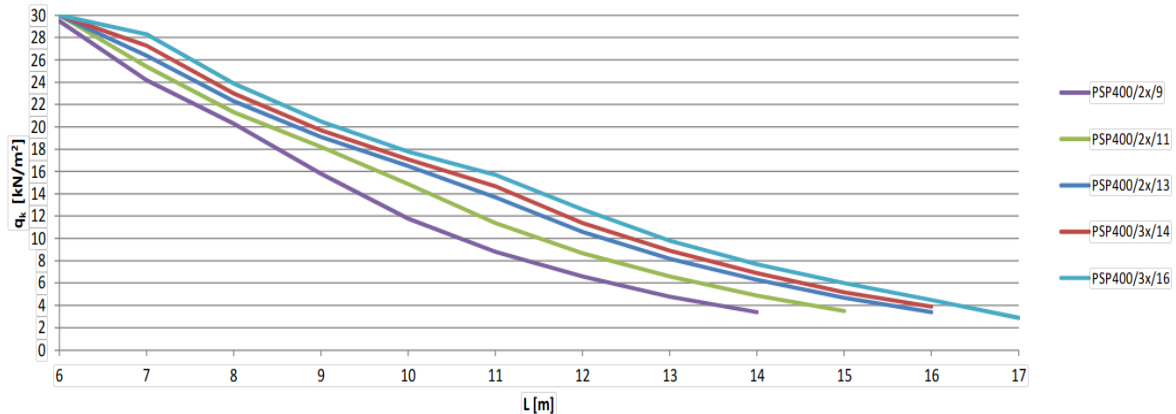


Width of panel taper in mm
380 - 460
660 - 740
950 - 1020

Basic Technical Data

Thickness	400 mm	Ambient environment class	XC0,C1
Section area	0,208 m ²	Concrete class	C50/60
Weight of poured ceiling	4,6 kN/m ²	Pre-stressing steel class	ST 1570 /1770N/mm ² - Relax 2
Hollow panel weight	4,34 kN/m ²	Applied standards	ČSN EN 1992-1-1 ČSN EN 1168+A2
Minimum supporting length	L/100, min.100mm	Fire resistance (standard)	REI 45
Joint fill concrete need	10,5 l/m ²		
Thermal resistance	0,29 m ² K/W		

Permitted usable load of pre-stressed ceiling panels PARTEK PSP 500



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]	6	7	8	9	10	11	12	13	14	15	16	17
PSP 400mm						Permitted load in characteristic values [kN/m ²]											
PSP400 - 2x/9	102	837	269,4	383,3	182,0	29,50	24,20	20,30	15,80	11,80	8,80	6,60	4,80	3,40			
PSP400 - 2x/11	102	1023	452,8	300,6	213,2	30,00	25,40	21,30	18,20	14,90	11,40	8,70	6,60	4,90	3,30		
PSP400 - 2x/13	102	1209	529,9	335,1	247,2	30,00	26,30	22,20	19,00	16,50	13,70	10,60	8,20	6,30	4,70	3,40	
PSP400 - 3x/14	153	1302	558,3	351,1	263,0	30,00	27,30	23,00	19,70	17,10	14,70	11,40	8,90	6,90	5,20	3,90	
PSP400 - 3x/16	153	1488	608,6	372,0	283,7	30,00	28,30	23,90	20,50	17,80	15,70	12,60	9,80	7,70	6,00	4,50	2,90

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