

# COSINUS SLIDE®



The table shows the load transfer capacity in [kN/m] of the Cosinus Slide® Joint at ULS for plain concrete and a joint opening of 15 mm. The values are based on the following formula which is derived from laboratory testing results.

$$V_{Rd,c} = V_{min} = 0,0525 / \gamma_c \cdot k^{3/2} \cdot f_{ck}^{1/2} \cdot 0,80 \cdot h / 1,4 \text{ [kN/m]}$$

$$\text{with: } \gamma_c = 1,50 \text{ [-]; } k = 1 + (200 / d)^{0,5} \leq 2,0; d = h - 60\text{mm}$$

Slab height h [mm]	unreinforced concrete		
	C25/30	C30/37	C35/45
160	45,3	49,6	53,5
170	48,1	52,7	56,9
180	50,9	55,8	60,2
190	53,7	58,9	63,6
200	56,6	62,0	66,9
210	59,4	65,1	70,3
220	62,2	68,2	73,6
230	65,1	71,3	77,0
240	67,9	74,4	80,3
250	70,7	77,5	83,7
260	73,5	80,6	87,0
270	75,0	82,1	88,7
280	76,4	83,7	90,5
290	77,9	85,3	92,2
300	79,4	86,9	93,9

The table only provides the material capacity at ULS (safety:  $\gamma = 1,5$ ). This table does not replace the necessary design check. The design check is available for each project upon request.

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