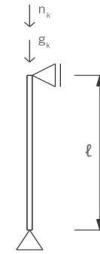


Internal walls

(no wind pressure)

Minimum panel thickness of various fire resistance classes.



Dead load	Imposed load	Height													
		2.5m				3.0m				4.0m					
g_k^*	n_k	R0	R30	R60	R90	R0	R30	R60	R90	R0	R30	R60	R90		
10,0	10,0	60 C3	80 C3	80 C3	100 C3	60 C3	80 C3	80 C3	100 C3	120 C3	80 C3	60 C3	80 C3	100 C3	120 C3
	20,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	30,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	40,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	50,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	60,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
20,0	10,0	60 C3	80 C3	80 C3	120 C3	60 C3	80 C3	100 C3	100 C3	120 C3	80 C3	60 C3	80 C3	100 C3	120 C3
	20,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	30,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	40,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	50,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	60,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
30,0	10,0	60 C3	80 C3	100 C3	120 C3	60 C3	80 C3	100 C3	100 C3	120 C3	80 C3	80 C3	80 C3	100 C3	120 C3
	20,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	30,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	40,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	50,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	60,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
40,0	10,0	60 C3	80 C3	100 C3	120 C3	60 C3	80 C3	100 C3	100 C3	120 C3	80 C3	80 C3	80 C3	100 C3	120 C3
	20,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	30,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	40,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	50,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	60,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
50,0	10,0	60 C3	80 C3	100 C3	120 C3	60 C3	80 C3	100 C3	100 C3	120 C3	80 C3	80 C3	80 C3	100 C3	120 C3
	20,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	30,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	40,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	50,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	60,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
60,0	10,0	60 C3	80 C3	100 C3	120 C3	60 C3	80 C3	100 C3	100 C3	120 C3	80 C3	80 C3	80 C3	100 C3	120 C3
	20,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	30,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	40,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	50,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	
	60,0			100 C3	120 C3			140 C5				90 C3	100 C3	120 C5	

Service class 1, Imposed load category A ($\psi_0 = 0.7$; $\psi_1 = 0.5$; $\psi_2 = 0.3$), $k_{mod} = 0.8$

*In the table the CLT self weight is already taken into account.

Loading - bearing capacity:

a) verification as a column (compression in accordance with equivalent member method);

b) Shearing stresses.

The table is only for preliminary estimate purpose and is not a substitute for a structural analysis.

Fire resistance

$v_{1,i} = 0.63$ mm/min

$v_{2,i} = 0.86$ mm/min

R0
R30
R60
R90