

ComFlor 80 Span table - Normal Weight Concrete

Props	Span	Fire Rating	Slab Depth (mm)	Mesh Type	Bar No	MAXIMUM SPAN (m) Deck Thickness (mm)					
						0.9			1.2		
						Total Applied Load (kN/m ²)					
						3.5	5.0	10.0	3.5	5.0	10.0
No Temporary props	Simple span	1 hr	150	A142	0	3.70	3.22	2.41	4.10	3.57	2.67
		1 hr	160	A252	0	4.08	3.90	2.75	4.36	4.28	2.99
		1.5 hr	160	A252	0	3.75	3.17	2.35	3.92	3.36	2.51
	slab & deck	2 hr	170	A393	0	4.00	3.46	2.42	4.29	3.41	2.48
		1 hr	150	A193	0	4.16	-	-	4.44	-	-
		1 hr	150	A142	1	4.16	4.16	4.16	4.44	4.44	4.44
	Double span slab & deck	1 hr	150	A142	0	4.29	3.85	2.94	4.70	4.10	3.10
		1.5 hr	160	A252	0	4.10	3.94	2.98	4.68	4.07	3.10
		2 hr	170	A393	0	3.97	3.92	2.93	4.55	3.93	2.98
		1 hr	150	A193	0	4.28	4.28	-	5.06	-	-
		1 hr	150	A142	1	4.28	4.28	4.28	5.06	5.08	-

Quick Reference Tables: All spans are shown in metres and are based on supported unpropped conditions.

The load/span table above shows typical spanning condition for the ComFlor 80 profile. For variations of slab depth, loading conditions (including point loads), support conditions and the use of lightweight concrete we recommend the use of the Comdek software, available from Tegral.

Spans: Spans are measured centre to centre of support, support width is 150mm in tables.

Construction Load: of 1.5kN/m² is taken into account in accordance with BS5950: Part 4 no allowance has been made for heaping of concrete during the casting of the slab.

Deflection: Construction stage L/130 or 30mm (ponding has been taken into account).

Fire Insulation: the minimum slab thickness indicated in each table satisfies the fire insulation requirements of BS5950: Part 8.