

## MetFloor® 60

### Single span decking / single span concrete (Fire Engineering Method)

Props	Fire Period	Slab Depth (mm)	Mesh 0.2% min. req'd	Total Applied Load (kN/m <sup>2</sup> )													
				0.9mm				1.0mm				1.2mm					
				3.5	5	7.5	10	3.5	5	7.5	10	3.5	5	7.5	10		
None	60 minutes	120	A142	3.53*	3.53*	3.52*	3.52*	3.65*	3.65*	3.65*	3.64*	3.87*	3.87*	3.87*	3.75*		
		130	A142	3.43*	3.43*	3.43*	3.43*	3.55*	3.55*	3.55*	3.55*	3.77*	3.77*	3.76*	3.76*		
		140	A193	3.34*	3.34*	3.34*	3.34*	3.46*	3.46*	3.46*	3.46*	3.67*	3.67*	3.67*	3.67*		
		150	A193	3.26*	3.26*	3.26*	3.26*	3.38*	3.38*	3.38*	3.38*	3.59*	3.59*	3.59*	3.59*		
		160	A252	3.19*	3.19*	3.19*	3.19*	3.31*	3.31*	3.31*	3.31*	3.51*	3.51*	3.51*	3.51*		
		170	A252	3.12*	3.12*	3.12*	3.12*	3.24*	3.24*	3.24*	3.24*	3.44*	3.44*	3.44*	3.44*		
		180	A252	3.06*	3.06*	3.06*	3.06*	3.18*	3.18*	3.18*	3.18*	3.38*	3.38*	3.38*	3.38*		
		190	A393	2.99*	2.99*	2.99*	2.99*	3.12*	3.12*	3.12*	3.12*	3.31*	3.31*	3.31*	3.31*		
		200	A393	2.93*	2.93*	2.93*	2.93*	3.06*	3.06*	3.06*	3.06*	3.25*	3.25*	3.25*	3.25*		
		None	90 minutes	130	A142	3.43*	3.43*	3.43*	3.42*	3.55*	3.55*	3.55*	3.54*	3.77*	3.77*	3.76*	3.75*
140	A193			3.34*	3.34*	3.34*	3.34*	3.46*	3.46*	3.46*	3.46*	3.67*	3.67*	3.67*	3.66*		
150	A193			3.26*	3.26*	3.26*	3.26*	3.38*	3.38*	3.38*	3.38*	3.59*	3.59*	3.59*	3.59*		
160	A252			3.19*	3.19*	3.19*	3.19*	3.31*	3.31*	3.31*	3.30*	3.51*	3.51*	3.51*	3.51*		
170	A252			3.12*	3.12*	3.12*	3.12*	3.24*	3.24*	3.24*	3.24*	3.44*	3.44*	3.44*	3.44*		
180	A252			3.06*	3.06*	3.06*	3.06*	3.18*	3.18*	3.18*	3.18*	3.38*	3.38*	3.38*	3.37*		
190	A393			2.99*	2.99*	2.99*	2.99*	3.12*	3.12*	3.12*	3.12*	3.31*	3.31*	3.31*	3.31*		
200	A393			2.93*	2.93*	2.93*	2.93*	3.06*	3.06*	3.06*	3.06*	3.25*	3.25*	3.25*	3.25*		
None	120 minutes			140	A193	3.34*	3.34*	3.33*	3.33*	3.46*	3.46*	3.45*	3.45*	3.67*	3.67*	3.66*	3.66*
				150	A193	3.26*	3.26*	3.25*	3.25*	3.38*	3.38*	3.37*	3.37*	3.59*	3.59*	3.58*	3.58*
		160	A252	3.19*	3.19*	3.19*	3.18*	3.31*	3.30*	3.30*	3.30*	3.51*	3.51*	3.50*	3.50*		
		170	A252	3.12*	3.12*	3.12*	3.11*	3.24*	3.24*	3.24*	3.23*	3.44*	3.44*	3.43*	3.43*		
		180	A252	3.06*	3.06*	3.06*	3.06*	3.18*	3.18*	3.18*	3.17*	3.38*	3.38*	3.37*	3.37*		
		190	A393	2.99*	2.99*	2.99*	2.99*	3.12*	3.12*	3.11*	3.11*	3.31*	3.31*	3.31*	3.30*		
200	A393	2.93*	2.93*	2.93*	2.93*	3.06*	3.06*	3.06*	3.06*	3.25*	3.25*	3.25*	3.25*				

### Double span decking / continuous concrete

Props	Fire Period	Slab Depth (mm)	Mesh 0.2% min. req'd	Total Applied Load (kN/m <sup>2</sup> )													
				0.9mm				1.0mm				1.2mm					
				3.5	5	7.5	10	3.5	5	7.5	10	3.5	5	7.5	10		
None	60 minutes	120	A142	3.90	3.89*	3.89*	3.60*	4.21	4.19*	4.00*	3.67*	4.58*	4.57*	4.10*	3.75*		
		130	A142	3.79	3.78*	3.77*	3.77*	4.08	4.08*	4.07*	3.92*	4.49	4.47*	4.41*	4.03*		
		140	A193	3.68	3.68	3.67*	3.67*	3.97	3.97	3.96*	3.96*	4.39	4.39*	4.38*	4.32*		
		150	A193	3.58	3.58	3.58*	3.57*	3.87	3.87	3.86*	3.86*	4.31	4.31	4.30*	4.30*		
		160	A252	3.49	3.49	3.49*	3.49*	3.77	3.77	3.77	3.77*	4.22	4.22	4.21*	4.21*		
		170	A252	3.44	3.44	3.44	3.43*	3.69	3.69	3.69	3.68*	4.13	4.13	4.12*	4.12*		
		180	A252	3.42	3.42	3.42	3.42	3.61	3.61	3.61	3.60*	4.04	4.04	4.04	4.03*		
		190	A393	3.36	3.36	3.36	3.36	3.55	3.55	3.55	3.55	3.95	3.95	3.95	3.95		
		200	A393	3.28	3.28	3.28	3.28	3.49	3.49	3.49	3.49	3.87	3.87	3.87	3.87		
		None	90 minutes	130	A142	3.78*	3.77*	3.77*	3.77*	4.08*	4.07*	4.06*	3.94*	4.48*	4.47*	4.43*	4.03*
140	A193			3.68	3.68*	3.67*	3.66*	3.97	3.96*	3.96*	3.95*	4.39*	4.38*	4.37*	4.32*		
150	A193			3.58	3.58	3.57*	3.57*	3.87	3.87*	3.86*	3.85*	4.31	4.30*	4.29*	4.29*		
160	A252			3.49	3.49	3.49*	3.49*	3.77	3.77	3.77*	3.76*	4.22	4.21*	4.21*	4.20*		
170	A252			3.44	3.44	3.44	3.43*	3.69	3.69	3.68*	3.68*	4.13	4.13	4.12*	4.12*		
180	A252			3.42	3.42	3.42	3.42*	3.61	3.61	3.61	3.60*	4.04	4.04	4.03*	4.03*		
190	A393			3.36	3.36	3.36	3.36	3.55	3.55	3.55	3.55	3.95	3.95	3.95	3.95		
200	A393			3.28	3.28	3.28	3.28	3.49	3.49	3.49	3.49	3.87	3.87	3.87	3.87		
None	120 minutes			140	A193	3.68	3.67*	3.66*	3.66*	3.97*	3.96*	3.95*	3.94*	4.38*	4.37*	4.36*	4.35*
				150	A193	3.58	3.58	3.57*	3.57*	3.87	3.86*	3.85*	3.85*	4.31*	4.30*	4.29*	4.28*
		160	A252	3.49	3.49	3.49*	3.48*	3.77	3.77	3.76*	3.76*	4.22	4.21*	4.20*	4.20*		
		170	A252	3.44	3.44	3.43*	3.43*	3.69	3.69	3.68*	3.67*	4.13	4.13	4.11*	4.11*		
		180	A252	3.42	3.42	3.42*	3.42*	3.61	3.61	3.60*	3.60*	4.04	4.04	4.03*	4.02*		
		190	A393	3.36	3.36	3.36	3.36	3.55	3.55	3.55	3.55	3.95	3.95	3.95	3.94*		
200	A393	3.28	3.28	3.28	3.28	3.49	3.49	3.49	3.49	3.87	3.87	3.87	3.87				

## MetFloor® 60 – Propped

### Single span decking / single span concrete (Fire Engineering Method)

Props	Fire Period	Slab Depth (mm)	Mesh 0.2% min. req'd	Total Applied Load (kN/m <sup>2</sup> )													
				0.9mm				1.0mm				1.2mm					
				3.5	5	7.5	10	3.5	5	7.5	10	3.5	5	7.5	10		
One	60 minutes	120	A142	4.44*	4.20*	3.90*	3.67*	4.49*	4.25*	3.94*	3.71*	4.59*	4.33*	4.02*	3.78*		
		130	A142	4.73*	4.49*	4.17*	3.93*	4.78*	4.53*	4.21*	3.97*	4.86*	4.61*	4.29*	4.04*		
		140	A193	5.01*	4.76*	4.44*	4.20*	5.04*	4.81*	4.48*	4.23*	5.10*	4.89*	4.56*	4.30*		
		150	A193	5.21*	5.03*	4.71*	4.46*	5.25*	5.06*	4.75*	4.49*	5.31*	5.12*	4.83*	4.56*		
		160	A252	5.41*	5.23*	4.98*	4.71*	5.45*	5.26*	5.01*	4.75*	5.51*	5.32*	5.06*	4.82*		
		170	A252	5.61*	5.42*	5.17*	4.96*	5.64*	5.46*	5.20*	5.00*	5.70*	5.51*	5.26*	5.05*		
		180	A252	5.62*	5.54*	5.36*	5.16*	5.83*	5.64*	5.39*	5.19*	5.89*	5.70*	5.45*	5.24*		
		190	A393	5.46*	5.45*	5.40*	5.34*	5.78*	5.71*	5.58*	5.37*	6.07*	5.88*	5.63*	5.42*		
		200	A393	5.30*	5.30*	5.29*	5.29*	5.60*	5.59*	5.57*	5.48*	6.25*	6.07*	5.82*	5.61*		
		One	90 minutes	130	A142	4.73*	4.49*	4.17*	3.93*	4.78*	4.53*	4.21*	3.97*	4.86*	4.61*	4.29*	4.04*
140	A193			5.01*	4.76*	4.44*	4.20*	5.04*	4.81*	4.48*	4.23*	5.10*	4.89*	4.56*	4.30*		
150	A193			5.21*	5.03*	4.71*	4.46*	5.25*	5.06*	4.75*	4.49*	5.31*	5.12*	4.83*	4.56*		
160	A252			5.41*	5.23*	4.98*	4.71*	5.45*	5.26*	5.01*	4.75*	5.51*	5.32*	5.06*	4.82*		
170	A252			5.61*	5.42*	5.17*	4.96*	5.64*	5.46*	5.20*	5.00*	5.7*	5.51*	5.26*	5.05*		
180	A252			5.62*	5.54*	5.36*	5.16*	5.83*	5.64*	5.39*	5.19*	5.89*	5.70*	5.45*	5.24*		
190	A393			5.46*	5.45*	5.40*	5.34*	5.76*	5.71*	5.58*	5.37*	6.07*	5.88*	5.63*	5.42*		
200	A393			5.30*	5.29*	5.29*	5.27*	5.59*	5.59*	5.57*	5.48*	6.25*	6.07*	5.82*	5.61*		
One	120 minutes			140	A193	5.01*	4.76*	4.44*	4.20*	5.04*	4.81*	4.48*	4.23*	5.10*	4.89*	4.56*	4.30*
				150	A193	5.21*	5.03*	4.71*	4.46*	5.25*	5.06*	4.75*	4.49*	5.31*	5.12*	4.83*	4.56*
		160	A252	5.41*	5.23*	4.98*	4.71*	5.45*	5.26*	5.01*	4.75*	5.51*	5.32*	5.06*	4.82*		
		170	A252	5.61*	5.42*	5.17*	4.96*	5.64*	5.46*	5.20*	5.00*	5.70*	5.51*	5.26*	5.05*		
		180	A252	5.62*	5.54*	5.36*	5.16*	5.83*	5.64*	5.39*	5.19*	5.89*	5.70*	5.45*	5.24*		
		190	A393	5.45*	5.43*	5.40*	5.34*	5.76*	5.71*	5.58*	5.37*	6.07*	5.88*	5.63*	5.42*		
200	A393	5.29*	5.29*	5.27*	5.24*	5.59*	5.57*	5.56*	5.48*	6.25*	6.07*	5.82*	5.61*				

### Double span decking / continuous concrete

Props	Fire Period	Slab Depth (mm)	Mesh 0.4% min. req'd	Total Applied Load (kN/m <sup>2</sup> )											
				0.9mm				1.0mm				1.2mm			
				3.5	5	7.5	10	3.5	5	7.5	10	3.5	5	7.5	10
One	60 minutes	120	A252	5.02*	4.66*	4.09*	3.72*	5.07*	4.70*	4.13*	3.76*	5.14*	4.80*	4.21*	3.83*