

Point	Load	Influence Ordinate or Area	M (kip-ft)	Strip Width (ft)	M (kip-ft per ft)	Multiple Presence Factor	Dyn. Allow.	Load Factor	Factored M_u (kip-ft/ft)
B	Slab 0.115 kip/ft	+1.9 ft ²	+0.22	1	+0.22	n/a	n/a	1.25	+0.28
	FWS*0.035 kip/ft	+5.0 ft ²	+0.18	1	+0.18	n/a	n/a	1.50	+0.27
	Railing 0.383 kip	-2.1 ft	-0.82	1	-0.82	n/a	n/a	0.90	-0.74
	Wheel 16.0 kip	+1.7 ft	+27.50	7.7	+3.59	1.20	1.33	1.75	+10.03
Total									+9.84
C	Slab 0.115 kip/ft	-7.4 ft ²	-0.85	1	-0.85	n/a	n/a	1.25	-1.06
	FWS*0.035 kip/ft	-8.6 ft ²	-0.30	1	-0.30	n/a	n/a	1.50	-0.45
	Railing 0.383 kip	+0.8 ft	+0.32	1	+0.32	n/a	n/a	0.90	+0.29
	Wheel 16.0 kip	-1.8 ft	-29.00	6.5	-4.46	1.00	1.33	1.75	-10.38
Total									-11.60

* FWS is taken to front face of railing

Note: The factored moments shown in the table are based upon the load modifiers η_D , η_R , and $\eta_I = 1.0$.

CALCULATION OF FACTORED MOMENTS

Figure 61-2F