

L. B. Foster Company Fabricated Products Division
Weight of Grid Deck

Grid		Depth	Width	Gross Weight / FT	Net Weight / FT	Inches	# / SF	
Main Bar	2 in	2	N/A	3.85	3.79	Main Bars Spacing	10	
Cross Bar 1	1/4 in	1	1/4	0.85	0.85	Cross Bar 1 Spacing	4	
Cross Bar 2	None	0	0	0.00	0.00	Cross Bar 2 Spacing	10	
Bottom Round	None	0	0	0.00	0.00	Bottom Round Spacing	6	
Supplemental Bar 1	None	0	0	0.00	0.00	Supplemental Bar 1 Spacing	4	
Supplemental Bar 2	None	0	0	0.00	0.00	Supplemental Bar 2 Spacing	3.75	
Form Pan	20 Gauge	20 Gauge	N/A	1.5	1.50	Form Pans	12	
							Sub Total	8.60
							Add for Finish	0.25
							Approximate Total Steel Weight per Square Foot Excluding Attachments	8.85
							Subject to Mill Tolerances	8.1
Concrete								
Weight of Concrete	145 # / ft ³	Cross	Weight / SF	Deduct for Concrete Displaced by Grid	Net Weight of Concrete per Foot			
Depth of Concrete Intill	4000 psi	2 inches	30.3	2.5	33.7			
Depth of Concrete Overfill	2 inches							
Total Depth of Concrete	1 inches							
Total Depth of Concrete	3 inches							
E _c =	3,644,147	Weight is approximate		Does not include Concrete Haunch				
E _s =	29,000,000							
n =	8	Only for Calculations of Deflection (AASHTO 8.15.3.4 & 8.7.1)						
n =	8	For all Calculations other than Deflection (AASHTO 8.15.3.4 & 10.38.1.3)						
							Superimposed Dead Load (Parapets & Median Barrier) LB / SF	0
							Approximate Total Weight of Base Product	42.8