

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

Grid		Depth	Width	Gross Weight / FT	Net Weight / FT	Inches	# / SF	
Main Bar	5' Deep Ribbed Main Bar	5 3/16	N/A	5.58	5.34	Main Bars Spacing	12	5.34
Cross Bar 1	2" x 1/4" CB	2	1/4	1.70	1.63	Cross Bar 1 Spacing	4	4.88
Cross Bar 2	None	0	0	0.00	0.00	Cross Bar 2 Spacing	10	0.00
Bottom Round	None	0	0	0.00	0.00	Bottom Round Spacing	8	0.00
Supplemental Bar 1	#4 Rebar	1/2	rebar	0.67	0.67	Supplemental Bar 1 Spacing	6	1.34
Supplemental Bar 2	None	0	0	0.00	0.00	Supplemental Bar 2 Spacing	3	0.00
Form Pan	20 Gauge	20 Gauge	N/A	1.5	1.50	Form Pans	12	1.50
							Sub Total	13.05
							Add for Finish	6%
							Approximate Total Steel Weight per Square Foot Excluding Attachments	13.8
Subject to Mill Tolerances								

Concrete		Weight / SF	Deduct for Concrete Displaced by Grid	Net Weight of Concrete per Foot
Weight of Concrete	115 # / ft ³			
f'c	4000 psi			
Depth of Concrete Infill	2.5 Inches	52.7	1.5	51.2
Depth of Concrete Overfill	3 Inches			
Total Depth of Concrete	5.5 Inches			

E _c =	2,573,894	<u>Weight is approximate</u>	Does not include Concrete Haunch
E _s =	29,000,000		
n =	11	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 LB / SF	0
		Approximate Total Weight of Base Product
		65.1

167 PRE-FAB DECK PANELS

