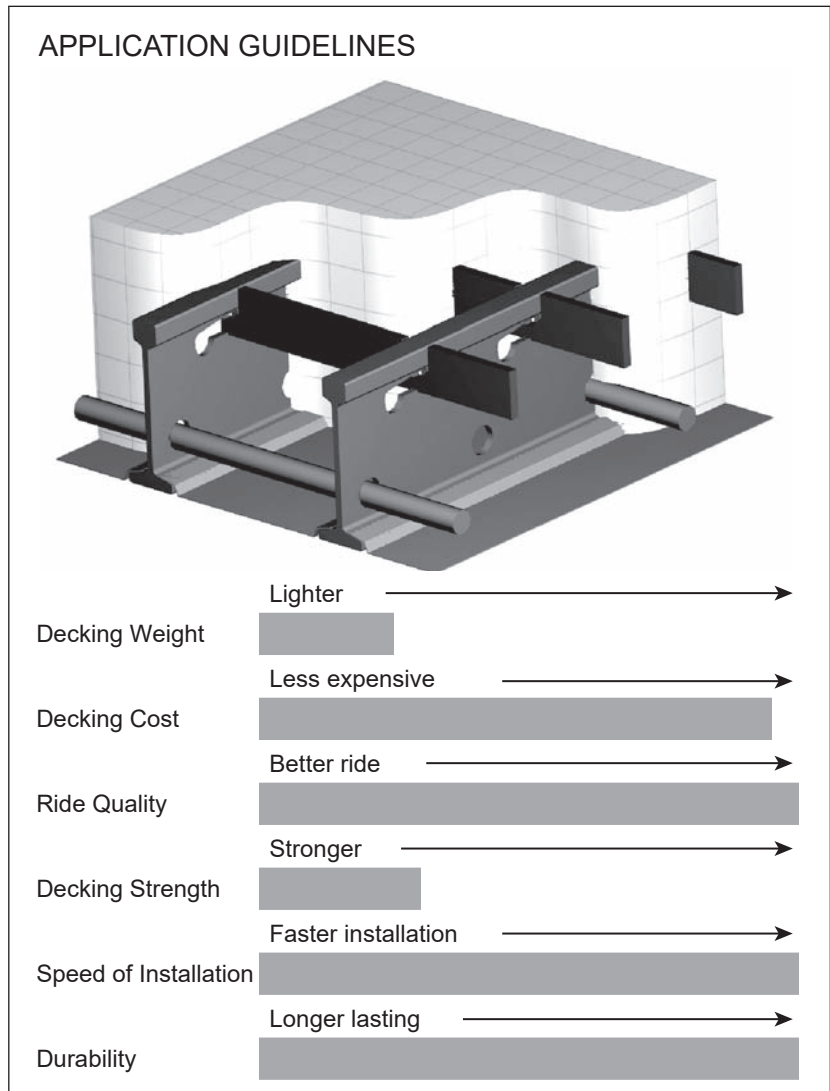


This grid is an excellent choice where dead-load reduction is not a primary goal but speed of construction, long term durability and low cost are key decision making factors.

The design table below shows the grid properties including a 1 1/2" monolithic concrete over-pour which is recommended for improved ride quality and added corrosion protection for the steel grid. The additional concrete also increases the structural properties of the composite deck section.

As with all grid reinforced concrete bridge decks, we recommend using shear studs for attaching the decking to the supporting structure for a fully composite system.

4 1/4" grids are commonly supplied with main beam spacing ranging from 6" to 12" c/c so that you can match the strength of the decking to the requirements of the application.



**4 1/4" Interlock • HS 25 Load Table**

Main Bar Spacing (in)	Minimum Sectional Properties (in <sup>3</sup> /ft)						Maximum Continuous Clear Span (ft)		Approximate Weight (lbs/sf) Incl 1 1/2 Overfill	
	Steel Only		Composite Section				Transverse Gr.50	Parallel Gr.50	Steel Only	Steel & 144#ft <sup>3</sup> Conc
	Top Steel	Bottom Steel	Positive		Negative					
			S <sub>CONC</sub>	S <sub>STEEL</sub>	S <sub>TOP</sub>	S <sub>BOTTOM</sub>				
6	3.04	3.29	63.82	4.88	52.93	3.20	7.5	6.1	16.8	81.1
8	2.28	2.47	56.78	3.79	44.26	2.43	6.2	4.8	14.3	79.3

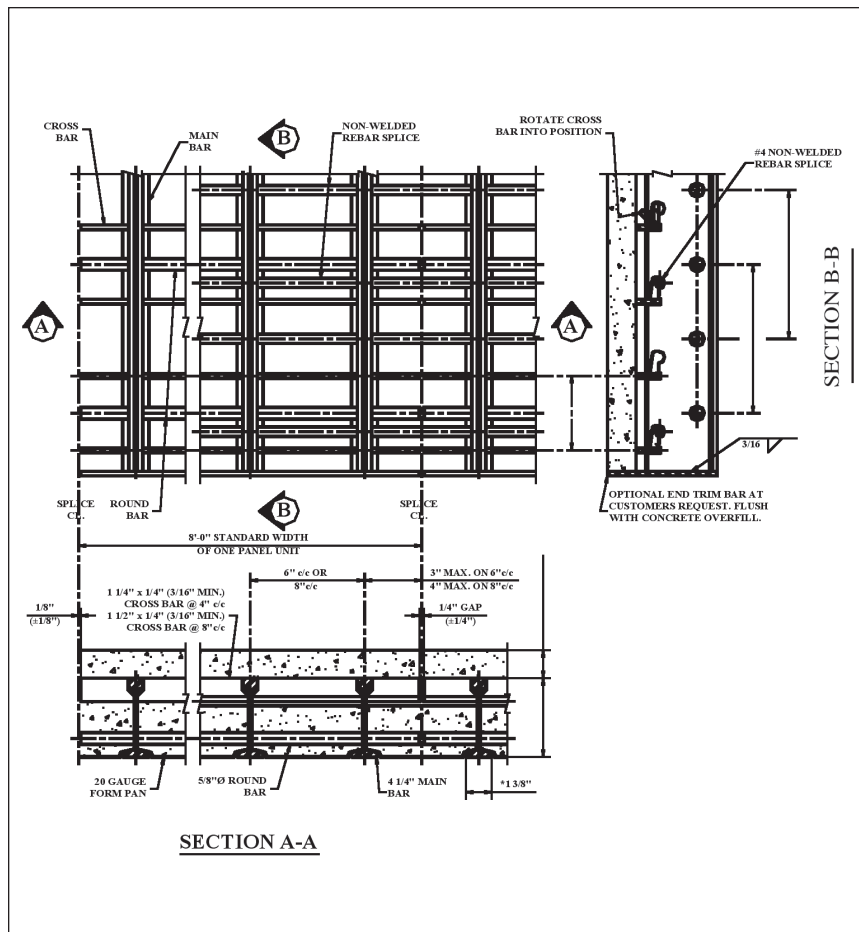
NOTE: The information contained herein has been prepared in accordance with generally accepted engineering principles. However, L.B. Foster Company is not responsible for any errors that may be contained herein. The user of the information provided herein should check the information supplied and make an independent determination as to its applicability to any particular project or application.

## Typical Specification

The steel grid bridge flooring shall be 4 1/4" Interlock as manufactured by the L.B. Foster Company, 415 Holiday Drive, Pittsburgh, Pennsylvania 15220 – Phone (412) 928-3455. The deck shall be manufactured from the following steel elements:

Main Beam (MB) @ 6" or 8" c/c	4 1/4" deep special rolled beam x 5#/LF
Cross Bar (C'Bar) @ 4" or 8" c/c	1 1/2" x 1/4" flat bar
Bottom Round Bar @ 8" c/c	5/8" Diameter round bar or #5 Rebar
Steel Specification	All steel shall be 50 ksi (A709 Gr. 50 / A572) or 50 ksi weathering (A709 Gr. 50W / A588)

### Typical Details: 4 1/4" Interlock with Concrete Overfill



The deck shall be assembled such that the tops of all elements are in the same plane and notching of the main beam top flange shall not be permitted.

Grid assembly welding will be per manufacturer's standard welding details.

Finish: Most types of coatings can be provided; common finishes are mill finish for 50 ksi weathering steel and hot dipped galvanized for 50 ksi steel-note that distortion from galvanizing will occur, request manufacturer's tolerances.

Request manufacturer's standard 4 part product specification for inclusion with project documents.