



STAINLESS STEEL BAR GRATING

# stainless steel information

## TRU-WELD STAINLESS STEEL BAR GRATING

Tru-Weld Stainless Steel Bar Grating provides a long-term durable grating solution for caustic atmospheres where corrosion resistance and minimum carbide precipitation are important considerations. Typical applications include stairs and platforms within chemical production and storage, food processing plants, and water and wastewater treatment facilities. Your choice of 304, 304L, 316, or 316L Stainless Steel grades are available.

Heat from the Electroforge welding process discolors the surface of the stainless steel in the weld area. For this reason, Tru-Weld Stainless Steel Bar Grating is best suited for industrial uses where cosmetic appearance is not a factor.



## STAINLESS STEEL CONVERSION FACTORS

When considering load conditions for stainless steel bar grating, please apply the calculations in the table below to the values shown in the carbon steel load tables on pages 12 and 13.

**METRIC LEGEND**

- U = Safe Uniform Load (kPa)
- C = Safe Concentrated Load (kN/metre of grating width)
- D = Deflection (mm)

**IMPERIAL LEGEND**

- U = Safe Uniform Load (lbs./ft.<sup>2</sup>)
- C = Safe Concentrated Load (lbs./foot of grating width)
- D = Deflection (inches)

STAINLESS STEEL GRADE	LOAD/DEFLECTION	MULTIPLY CARBON STEEL LOAD TABLES BY:	BASED ON MAXIMUM ALLOWABLE FIBRE STRESS
304 Stainless Steel	U	1.111	20,000 P.S.I. (137.9 MPa)
	C	1.111	
	D	1.151	
304L Stainless Steel	U	0.917	16,500 P.S.I. (113.8 MPa)
	C	0.917	
	D	0.949	
316 Stainless Steel	U	1.111	20,000 P.S.I. (137.9 MPa)
	C	1.111	
	D	1.151	
316L Stainless Steel	U	0.917	16,500 P.S.I. (113.8 MPa)
	C	0.917	
	D	0.949	