

Table M.1a—Yield Strength Reduction Factors (SI)

Temperature (°C)	Minimum Specified Yield Strength (MPa)		
	< 310 MPa	From ≥ 310 to < 380 MPa	≥ 380 MPa
94	0.91	0.88	0.92
150	0.88	0.81	0.87
200	0.85	0.75	0.83
260	0.80	0.70	0.79

NOTE: Linear interpolation shall be applied for intermediate values.

Table M.1b—Yield Strength Reduction Factors (USC)

Temperature (°F)	Minimum Specified Yield Strength (lb/in. ²)		
	< 45,000 lb/in. ²	≥ 45,000 to < 55,000 lb/in. ²	≥ 55,000 lb/in. ²
201	0.91	0.88	0.92
300	0.88	0.81	0.87
400	0.85	0.75	0.83
500	0.80	0.70	0.79

NOTE: Linear interpolation shall be applied for intermediate values.

M.4 Tank Bottoms

M.4.1 Tanks with diameters exceeding 30 m (100 ft) shall have butt-welded annular bottom plates (see 5.1.5.6).

M.4.2 The following simplified procedure is offered as a recommended design practice for elevated-temperature tanks where significant temperature differences between the tank bottom and the lowest shell course are expected. The use of the procedure is not intended to be mandatory. It is recognized that other analytical procedures can be employed as well as that operating conditions may preclude the need for such a procedure.

Shell-to-bottom junctions in elevated-temperature tanks may be evaluated for liquid head and temperature cycles with the formulas, procedures, and exclusions given below. (See Conditions a and b in the note below, which exclude tanks from such analyses.)

NOTE: A cyclic design life evaluation need not be made if all the criteria of either of the following conditions are met.

- The design temperature difference (T) is less than or equal to 220 °C (400 °F), K is less than or equal to 2.0, and C is less than or equal to 0.5.
- A heated liquid head, in feet, greater than or equal to $0.3(D_t)^{0.5}$ is normally maintained in the tank, except for an occasional cool-down (about once a year) to ambient temperatures; T is less than or equal to 260 °C (500 °F); and K is less than or equal to 4.0. (For background information on the development of the stress formulas, design life criteria, and C and B factors, see G.G. Karcher, "Stresses at the Shell-to-Bottom Junction of Elevated-Temperature Tanks.")

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