§ 154.172 Contiguous steel hull structure.

(a) Except as allowed in paragraphs (b) and (c) of this section, plates, forgings, forged and rolled fittings, and rolled and forged bars and shapes used in the construction of the contiguous steel hull structure must meet the thickness and steel grade in Table 1 for the temperatures under §§ 154.174(b) and 154.176(b).

(b) For a minimum temperature, determined under §§ 154.174(b) and 154.176(b), below −25 °C (−13 °F), the contiguous steel hull structure must meet § 54.25-10 for that minimum temperature.

(c) If a steel grade that is not listed in Table 1 has the equivalent chemical properties, mechanical properties, and heat treatment of a steel grade that is listed, the steel grade not listed may be specially approved by the Commandant (CG–522), for use in the contiguous hull structure.

§ 154.174 Transverse contiguous hull structure.


(b) The transverse contiguous hull structure of a vessel having cargo containment systems with secondary barriers must be designed for a temperature that is:

1. Colder than the calculated temperature of this hull structure when:
   (i) The temperature of the secondary barrier is the design temperature, and
   (ii) The ambient cold condition under § 154.176(b)(1)(ii) and (iii) are assumed;
   or
2. Maintained by the heating system under § 154.178.


§ 154.176 Longitudinal contiguous hull structure.

(a) The longitudinal contiguous hull structure of a vessel having cargo containment systems without secondary barriers must meet the standards of