

### § 178.362-3

be staggered alternately in two rows, at  $\pm 1.2$  cm (0.5-inch) from the line midway between the O.D. and I.D. of the rings. For specifications 20WC-5 and 20WC-6, bolts may be staggered alternately in two rows at  $\pm 2.5$  cm (1 inch) from the line midway between the O.D. and I.D. of the rings.

(3) Rod ends must be threaded and secured with lock nuts and steel washers, or equivalent device, to provide at least a 2.5 cm (1 inch) diameter bearing surface on each end. Ends of the rods must terminate 1.4 cm (0.75-inch) below the surface of the plywood for specifications 20WC-1 and 20WC-2. For specifications 20WC-3, 20WC-4, 20WC-5 and 20WC-6, the ends of the rods must terminate 3.7 cm (1.5 inches) below the surface of the plywood, and that portion of each end disc which extends beyond the rod ends must be further held in place with lag screws at least 10 cm (4 inches) long.

(e) Thickness of wooden shell:

(1) Specification 20WC-1: At least 10 cm (4 inches) thick.

(2) Specification 20WC-2: At least 7.5 cm (3 inches) thick.

(3) Specification 20WC-3: At least 13 cm (5 inches) thick for the jacket wall, and at least 15 cm (6 inches) thick for the end discs. In addition, at least 3 plywood chines, 5 cm (2 inches) wide and protruding 5 cm (2 inches) beyond the outer surfaces, must be located at each end and midway along the length of the jacket.

(4) Specification 20WC-4: At least 15 cm (6 inches) thick for the jacket wall, and at least 15 cm (6 inches) thick for the end discs. In addition, at least 3 plywood chines, 5 cm (2 inches) wide and protruding 5 cm (2 inches) beyond the outer surfaces, must be located at each end and midway along the length of the jacket.

(5) Specifications 20WC-5 and 20WC-6: At least 15 cm (6 inches) thick for the jacket wall, and at least 20 cm (8 inches) thick for the end discs. In addition, at least 5 plywood chines, 5 cm (2 inches) wide and protruding 5 cm (2 inches) beyond the outer surfaces, must be located at each end and equal-

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ly spaced along the length of the jacket.

[Amdt. 178-35, 39 FR 45252, Dec. 31, 1974. Re-designated by Amdt. 178-97, 55 FR 52716, Dec. 21, 1990, and amended by Amdt. 178-99, 58 FR 51534, Oct. 1, 1993; 66 FR 45387, Aug. 28, 2001]

### § 178.362-3 Closure.

(a) Closure for the wooden protective jacket is provided by the steel reinforcing rods. The end cap (lid) must fit tightly to the body of the jacket to prevent a heat path to the inside of the jacket. The lid joint for specifications 20WC-3, 20WC-4, 20WC-5, and 20WC-6, may not be coplanar with the end of the inner containment vessel.

(b) Specifications 20WC-2 and 20WC-6. Locking ring closure, if used, must conform to §178.354-4. Flanged closure, if used, must have at least 8 steel bolts (at least 6 mm (0.25-inch) diameter for 20WC-2 or 1.2 cm (0.50-inch) diameter for 20WC-6) and lock nuts (or equivalent device), spaced not more than 13 cm (5 inches) between centers.

[Amdt. 178-35, 39 FR 45252, Dec. 31, 1974. Re-designated by Amdt. 178-97, 55 FR 52716, Dec. 21, 1990, as amended at 63 FR 37462, July 10, 1998; 66 FR 45387, Aug. 28, 2001]

### § 178.362-4 Tests.

Prior to each use, each jacket must be visually inspected for defects such as improper bonding, cracking, corrosion of steel rods, and improperly fitting closure lid, or other manufacturing defects. Particular attention must be given to any separation of the plywood discs and rings which would provide a heat path to the inside of the jacket.

[Amdt. 178-35, 39 FR 45252, Dec. 31, 1974. Re-designated by Amdt. 178-97, 55 FR 52716, Dec. 21, 1990]

### § 178.362-5 Painting.

Each jacket (other than 20WC-2 and 20WC-6) must be completely painted with a high quality exterior weather resistant paint.

[Amdt. 178-35, 39 FR 45252, Dec. 31, 1974. Re-designated by Amdt. 178-97, 55 FR 52716, Dec. 21, 1990]