



Standard Specification for Expanded-Metal Bulkhead Panels¹

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1. Scope

1.1 This specification covers steel expanded-metal bulkhead panels suitable for use in storerooms, shops, and as protection against personnel hazards.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

2. Referenced Documents

2.1 *ASTM Standards*:²

A36/A36M Specification for Carbon Structural Steel
D3951 Practice for Commercial Packaging

2.2 *Other Documents*:

ABS Rules for Building and Classing Steel Vessels³
AWS D1.1 Structural Welding Code⁴

3. Classification

3.1 Bulkhead panels are furnished in three types as follows.

3.1.1 *Type I*—Universal bulkhead panels for use as either a right-hand or left-hand panel.

3.1.2 *Type II*—Right-hand bulkhead panel.

3.1.3 *Type III*—Left-hand bulkhead panel.

3.2 Bulkhead panels are furnished in two classes as follows.

3.2.1 *Class A*—Bulkhead panels, 2 ft (610 cm).

3.2.2 *Class B*—Bulkhead panels, 3 ft (915 cm).

3.3 Bulkhead panels Types II and III, Class A only, are furnished in three sizes as follows.

3.3.1 *Size 1*—76 in. (195 cm) high.

3.3.2 *Size 2*—64 in. (165 cm) high.

3.3.3 *Size 3*—40 in. (100 cm) high.

4. Ordering Information

4.1 Orders for expanded-metal panels under this specification shall include this specification number, type, class, and size.

5. Materials and Manufacture

5.1 *Materials*—See [Table 1](#).

5.2 *Manufacture*:

5.2.1 Welding shall be in accordance with AWS D1.1 or the ABS Rules for Building and Classing Steel Vessels.

5.2.2 Panels shall be welded and fabricated as shown in [Figs. 1-6](#).

5.2.3 After panels have been shipped to the contractor, the panels will be assembled into bulkheads by welding or bolting by others.

6. Tolerances

6.1 *Tolerances*— $\pm 1/16$ in. (1.5 mm).

7. Workmanship, Finish, and Appearance

7.1 Expanded-metal panels shall be free from all cracks, burrs, sharp edges, and other defects.

7.2 The panel manufacturer shall apply a nonhazardous corrosion-inhibiting primer coating to all panel assemblies.

8. Packaging and Package Marking

8.1 Expanded-metal bulkhead panels shall be individually packed for shipment and storage in accordance with Practice [D3951](#).

8.2 In addition to any special marking required by the contract or purchase order, each expanded-metal panel package shall be marked in accordance with Practice [D3951](#).

9. Keywords

9.1 bulkhead panels; expanded-metal bulkhead panels; panels; steel bulkhead panels

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

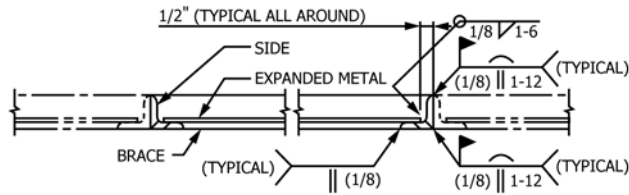
³ Available from American Bureau of Shipping (ABS), ABS Plaza, 16855 Northchase Dr., Houston, TX 77060, <http://www.eagle.org>.

⁴ Available from American Welding Society (AWS), 8669 NW 36 St., #130, Miami, FL 33166-6672, <http://www.aws.org>.

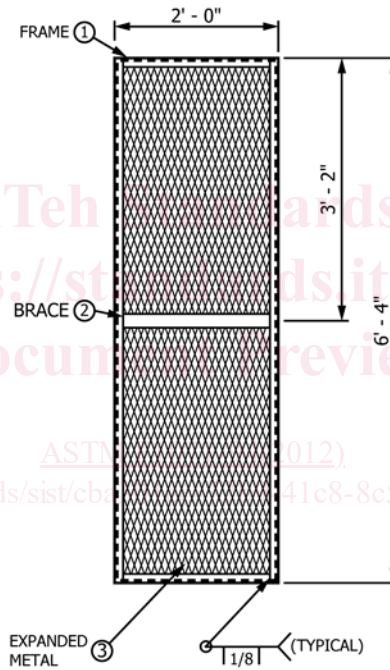
TABLE 1 Expanded-Metal Bulkhead Panel Materials

NOTE 1—1 in. = 25.4 mm.

Item Number	Description
1	Frame angle, 1¼ × 1¼ × ¼ in., Specification A36/A36M
2	Brace flatbar, ¼ × 2 in., Specification A36/A36M
3	Expanded metal 13-gage thick × ½-in. flat pattern × 23 in. wide, Specification A36/A36M
4	Expanded metal 13-gage thick × ½-in. flat pattern × 35 in. wide, Specification A36/A36M



TYPICAL SECTIONAL PLAN VIEW
(SEVERAL PANELS WELDED OR BOLTED TOGETHER)



NOTE 1—1 in. = 25.4 mm.

FIG. 1 Expanded-Metal Bulkhead Panel—Type 1, Class A, Size 1