



## Standard Specification for Expanded-Metal Bulkhead Panels<sup>1</sup>

This standard is issued under the fixed designation F 1071; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 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:

A 36/A 36M Specification for Carbon Structural Steel<sup>2</sup>  
D 3951 Practice for Commercial Packaging<sup>3</sup>

#### 2.2 Other Documents:

ABS Rules for Building and Classing Steel Vessels<sup>4</sup>  
AWS D1.1 Structural Welding Code<sup>5</sup>

### 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 D 3951.

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 D 3951.

### 9. Keywords

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

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee F-25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.03 on Outfitting.

Current edition approved Feb. 15, 1994. Published April 1994. Originally published as F 1071 – 87. Last previous edition F 1071 – 87.

<sup>2</sup> *Annual Book of ASTM Standards*, Vol 01.04.

<sup>3</sup> *Annual Book of ASTM Standards*, Vol 15.09.

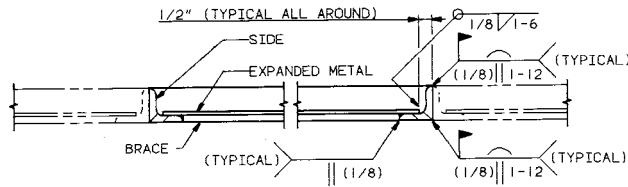
<sup>4</sup> Available from the American Bureau of Shipping, ABS Plaza, 16855 Northchase Dr., Houston, TX 77060.

<sup>5</sup> Available from American Welding Society, 550 N.W. Le Jeune Rd., Miami, FL 33126.

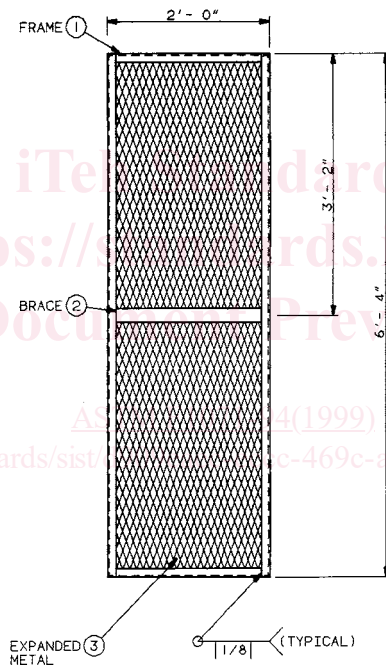
TABLE 1 Expanded-Metal Bulkhead Panel Materials

NOTE 1—1 in. = 25.4 mm.

Item Number	Description
1	Frame angle, 1 1/4 × 1 1/4 × 1/4 in., Specification A 36/A 36M
2	Brace flatbar, 1/4 × 2 in., Specification A 36/A 36M
3	Expanded metal 13-gage thick × 1/2-in. flat pattern × 23 in. wide, Specification A 36/A 36M
4	Expanded metal 13-gage thick × 1/2-in. flat pattern × 35 in. wide, Specification A 36/A 36M



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