



Designation: B744/B744M – 05(Reapproved 2011)

Standard Specification for Aluminum Alloy Sheet for Corrugated Aluminum Pipe¹

This standard is issued under the fixed designation B744/B744M; 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 reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope*

1.1 This specification covers aluminum alloy sheets used in the fabrication of corrugated aluminum pipe intended for use for storm water drainage, underdrains, culverts, and similar uses. The material is furnished corrugated in cut lengths, and uncorrugated in coils and cut lengths.

1.2 The values stated in either inch-pound units or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[B209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate](#)

[B209M Specification for Aluminum and Aluminum-Alloy Sheet and Plate \(Metric\)](#)

[B666/B666M Practice for Identification Marking of Aluminum and Magnesium Products](#)

2.2 *American National Standards:*²

[H35.2 Dimensional Tolerances for Aluminum Mill Products](#)

[H35.2M Dimensional Tolerances for Aluminum Mill Products \[Metric\]](#)

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *fabricator*—the producer of the pipe.

¹ This specification is under the jurisdiction of ASTM Committee B07 on Light Metals and Alloys and is the direct responsibility of Subcommittee B07.08 on Corrugated Aluminum Pipe and Corrugated Aluminum Structural Plate.

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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.

3.1.2 *manufacturer*—the producer of the sheet.

3.1.3 *purchaser*—the purchaser of the finished pipe.

4. Ordering Information

4.1 Orders for materials under this specification shall include the following information:

4.1.1 Name of material (aluminum alloy sheet for corrugated aluminum pipe),

4.1.2 This specification designation (including number, year, and revision letter if applicable), as ASTM B744 – ____ for inch-pound units or ASTM B744M – ____ for SI units, and

4.1.3 Specified sheet thickness, using only those thicknesses listed in [Table 1](#).

4.1.4 For sheet ordered in coils:

4.1.4.1 Sheet width,

4.1.4.2 Coil size requirements (specify maximum outside diameter (OD), acceptable inside diameter (ID), and maximum weight), and

4.1.4.3 Total quantity (mass).

4.1.5 For sheet ordered flat in cut lengths:

4.1.5.1 Sheet width and length,

4.1.5.2 Total quantity (mass or number of sheets), and

4.1.5.3 Maximum mass or number of sheets in a lift.

4.1.6 For sheet ordered corrugated:

4.1.6.1 Sheet width (overall) and length,

4.1.6.2 Corrugation size (pitch and depth) (see [8.4](#)),

4.1.6.3 Total quantity (mass or number of sheets), and

4.1.6.4 Maximum mass or number of sheets in a lift.

4.2 Additionally, orders for materials under this specification shall include the following information when requested by the purchaser:

4.2.1 Whether certification is required.

NOTE 1—Typical ordering descriptions are as follows: (1) Aluminum alloy sheet for corrugated aluminum pipe, conforming to ASTM B744 – ____; 0.060-in. thickness; 1000 sheets, 25½ by 60 in., with 2⅔ by ½ in. corrugations; maximum 300 sheets per lift. (2) Aluminum alloy sheet for corrugated aluminum pipe, conforming to ASTM B744M – ____; 2.67-mm thickness by 760-mm width; 25 000 kg total; coils 1200 mm OD max, 600 mm ID min, 5000 kg max each coil; certified with test report.

5. Chemical Composition

5.1 The sheet material shall conform to the chemical composition limits in Specifications [B209](#) [[B209M](#)].

*A Summary of Changes section appears at the end of this standard