



Designation: **C955—15 C955 – 15^{ε1}**

Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases¹

This standard is issued under the fixed designation C955; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

^{ε1} NOTE—Fig. 1 was revised editorially to remove an unnecessary asterisk in Dec. 2015.

1. Scope*

1.1 This specification covers steel studs, runners (tracks), and bracing or bridging (with a base steel minimum thickness of not less than 0.0329 in. (0.836 mm)) for screw application of gypsum panel products and metal plaster bases in load-bearing (transverse and axial) construction assemblies. Steel of lesser thickness shall be permitted in additional engineered products.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

2. Referenced Documents

2.1 ASTM Standards:²

[A653/A653M](#) Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

[A792/A792M](#) Specification for Steel Sheet, 55 % Aluminum-Zinc Alloy-Coated by the Hot-Dip Process

[A875/A875M](#) Specification for Steel Sheet, Zinc-5 % Aluminum Alloy-Coated by the Hot-Dip Process

[A1003/A1003M](#) Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members

[C11](#) Terminology Relating to Gypsum and Related Building Materials and Systems

[C954](#) Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness

2.2 AISI Standard:³

[S100](#) North American Specification for the Design of Cold-Formed Steel Structural Members

[S200](#) North American Standard for Cold-Formed Steel Framing—General Provisions—2007 Edition

3. Terminology

3.1 Definitions:

3.1.1 Definitions shall be in accordance with Terminology [C11](#).

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *members, n*—studs, runners, tracks, bracing, bridging, accessories, or other items manufactured in accordance with this standard.

3.2.2 *structural member, n*—a member in a steel framed system in which the loading exceeds any of the following conditions: a transverse load of 20 lbf/ft (290 N/m) of member length, or an axial load, exclusive of sheathing, of 200 lbf (890 N) per member.

4. Materials and Manufacture

4.1 Members shall be manufactured from steel meeting the requirements of Specification [A1003/A1003M](#).

4.2 The minimum steel thickness (base steel) shall be not less than 0.0329 in. (0.84 mm).

¹ This specification is under the jurisdiction of ASTM Committee [C11](#) on Gypsum and Related Building Materials and Systems and is the direct responsibility of Subcommittee [C11.02](#) on Specifications and Test Methods for Accessories and Related Products.

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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 Iron and Steel Institute (AISI), 1140 Connecticut Ave., NW, Suite 705, Washington, DC 20036, [http://www.steel.org](#).

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

4.3 Individual measurements before the application of protective coating shall be not less than 95 % of the specified design thickness.

4.4 Members shall have a protective coating in accordance with **Table 1**, CP 60 minimum.

4.5 Edges of members shall be manufactured to minimize burrs and sharp edges.

4.6 Factory punch-outs, when provided, shall be located along the centerline of the webs of members and shall have center-to-center spacing of not less than 24 in. (610 mm). Web punch-outs maximum width shall be the lesser of 0.5 times the member depth, d, or 2½ in. (64 mm). Web punch-out length shall not exceed 4 ½ in. (114 mm). Minimum distance between the end of the member and the near edge of the web punch-out shall be 10 in. (254 mm). The size of the factory punch-outs shall not exceed the size used in design and the center-to-center spacing shall not be less than that used in design.

4.7 The properties and strength of members shall be computed in accordance with the AISI S100.

5. Dimensions and Permissible Variations

5.1 Data for calculating design performance shall be supplied by the manufacturer.

5.2 The width of the surface to which the sheathing board is attached shall be not less than 1¼ in. (32 mm).

5.3 Runners (track) shall be formed in a U-shaped configuration, having a depth compatible with that of the studs of the same nominal size.

5.4 Minimum height of runner (track) flanges shall be 1¼ in. (32 mm).

5.5 Members shall be manufactured within the limits as shown in **Table 2** and **Fig. 1**.

5.6 Bracing and bridging shall have configuration and steel thickness to provide secondary support for the studs in accordance with the AISI S100.

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[ASTM C955-15e1](https://standards.iteh.ai/catalog/standards/sist/89d99b00-9dda-438a-8a7e-711e05f0f449/astm-c955-15e1)

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TABLE 1 Coating Designations

Coating Classification	Coating Designator	Minimum Coating Requirements			
		Zinc-Coated ^A oz/ft ² (g/m ²)	Zinc Iron ^B oz/ft ² (g/m ²)	55 % Al-Zinc ^C oz/ft ² (g/m ²)	Zinc-5 % ^D oz/ft ² (g/m ²)
Metallic Coated	CP 60	G60 (Z 180)	A60 (ZF 180)	AZ 50 (AZM 150)	GF 30 (ZGF 90)
	CP 90	G90 (Z 275)	Not Applicable	AZ 50 (AZM 150)	GF 45 (ZGF 135)
Painted Metallic	PM	The metallic coated substrate shall meet the requirements of metallic coated. In addition, the paint film shall have a minimum thickness of 0.5 mil (0.013 mm) per side (primer plus topcoat) with a minimum primer thickness of 0.1 mil (0.002 mm) per side. ^E			

^A Zinc-coated steel sheet as described in Specification **A653/A653M**.

^B Zinc-iron alloy-coated steel sheet as described in Specification **A653/A653M**.

^C 55 % Aluminum-zinc alloy-coated steel sheet as described in Specification **A792/A792M**.

^D Zinc-5 % aluminum alloy-coated steel sheet as described in Specification **A875/A875M**.

^E In accordance with the requirements of Specification **A1003/A1003M**.