



# DESIGN & BUILD WITH CONFIDENCE!

## BAILEY STRUCTURAL WALL STUDS

### What is a Structural Stud?

A **Structural Wall Stud** is a cold formed steel stud that is:

- used in interior building applications where studs are subjected to axial load.
- used in exterior building application where studs are subjected to wind load, or combined axial and wind load.
- used in a steel-framed wall system, where the loading exceeds any of the following conditions:
  - a transverse load of 10 lb/ft<sup>2</sup> (0.50 kPa)
  - a superimposed axial load of 100 lb/ft (1.46 kN/m), or a superimposed axial load of 200 lb (0.89 kN).

### Standards & Specifications

**Structural Studs must have a minimum protective coating of G60**, as required by AISI S200-07 (A4 Corrosion Protection), and North American Standards for Cold-Formed Steel Framing in accordance with ASTM A653/A653M-11. **All Bailey structural studs are G60.**

**Structural Studs must have a minimum steel thickness (base steel) of no less than 0.033 inches**, as required by ASTM C955-11c Standard Specification for Load-Bearing (Transverse & Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases 2009. **All Bailey studs have a base metal thickness greater than 0.033 inches.**





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### Product Range

Bailey Metal offers a comprehensive range of structural stud sizes, all of which are fully compliant with the applicable standards for load bearing applications\*.

Designation Thickness (mils)	Minimum Base Steel Thickness <sup>1</sup> (inches)	Design Thickness <sup>1</sup> (inches)	Standard Stud Sizing (inches) (other widths available on request)	Gauge	Colour
33	0.033	0.0346	3-5/8, 4, 6	20	White
43	0.043	0.0451	3-5/8, 4, 6, 8	18	Yellow
54	0.054	0.0566	3-5/8, 4, 6, 8	16	Green
68	0.068	0.0713	3-5/8, 4, 6, 8	14	Orange
97	0.097	0.1017	3-5/8, 4, 6, 8	12	Red

<sup>1</sup> The stated minimum thickness is 95% of the design thickness.

<sup>2</sup> Sections subject to web crippling are identified on our load tables.

\*ASTM allows for less thickness when a specific application's axial and lateral loads have been established, reviewed, and approved by a Certified Engineer.

Load tables and section properties are available at [www.bmp-group.com](http://www.bmp-group.com), or you can call your local Bailey representative.

**For more information about Bailey Metal's entire line of heavy gauge structural products, please call your nearest Bailey location, or visit our website at [www.bmp-group.com](http://www.bmp-group.com).**



## FOR YOUR ASSURANCE OF QUALITY LOOK FOR THE BAILEY NAME

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