



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/ft² (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.**





BAILEY STRUCTURAL WALL STUDS

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 ¹ (inches)	Design Thickness ¹ (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

¹ The stated minimum thickness is 95% of the design thickness.

² 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, 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.



FOR YOUR ASSURANCE OF QUALITY LOOK FOR THE BAILEY NAME

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