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Light Gauge Steel  
Manual

# Light Gauge Steel Manual

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## **Light Gauge Steel Manual**

Materials a) Light

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gauge steel meeting the physical and galvanization requirements of A.S.T.M. A-653 or equal. b) Shape and Dimensions in accordance with Gypsum Association Fire Resistance and Sound Control Design Manual, page 14, as shown at left. Available flanges of 1-1/4" and Extra Wide 1-1/2".

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## **CATALOG - Steeler**

schedules, light gauge steel trusses have become a popular product for architects, engineers, builders and developers. All-Span<sup>®</sup>, Inc. can design an engineered, pre-fabricated light gauge steel truss system specifically for your project, incorporating most any design, including gables, hips, valleys, dormers, retail canopy fronts, and

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much more.

**YOUR SOURCE FOR  
COMPLETE LIGHT  
GAUGE STEEL TRUSS  
SYSTEMS**

Steel Deck section Part I, the section geometries provided by the Steel Stud Manufacturers Association, and the exemplary efforts of Richard C. Kaehler with Computerized Structural Design, S. C., in developing this .

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Design Manual. Special thanks also go to the members of the AISI Design Manual Subcommittee: Paul A. Seaburg, Chairman. Robert. E.

## **AISI Manual Cold-Formed Steel Design 2002 Edition**

Light gauge steel frame elements are manufactured, based on ASTM standard A1003, from structural steel sheet that formed

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into strong C or Z or S shapes which are able to support heavy loads. The light gauge steel is also called cold formed steel which comes from the process by which steel members are formed.

## **Light Gauge Steel Frame Building Construction**

Light-gauge steel framing materials were used exclusively to construct the two



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demonstration homes. The basic steel members were of two types—a C-shape and a U-channel or track—formed from galvanized sheet steel by a process known as cold-forming. The cold-formed steel members

## **STEEL FRAMED RESIDENTIAL CONSTRUCTION: DEMONSTRATION HOMES**

American Iron and  
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Steel Institute, "Cold-Formed Steel Framing Design Guide, Second Edition" (2007). AISI-Specifications for the Design of Cold-Formed Steel Structural Members. 160.

## **Cold-Formed Steel Framing Design Guide, Second Edition**

33ksi steel. 54mil (16ga), 68mil (14ga) and 97mil (12ga) products are produced

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with 50ksi steel unless otherwise noted.

Designation thickness  
(mils) Thickness

(gauge) Design (in)

Minimum thickness<sup>1</sup>

(in) Color code 33 20

0.0346 0.0329 White

43 18 0.0451 0.0428

Yellow 54 16 0.0566

0.0538 Green 68 14

0.0713 0.0677 Orange

97 12 0.1017 0.0966

Red

**2017 technical  
design guide COLD-**

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**FORMED  
STRUCTURAL  
FRAMING ...**

competitiveness of cold-formed steel framing in residential and light commercial building construction through improved design and installation standards.

1-2. Member versus System Design 1-3. ...

- AISI D100, Cold-Formed Steel Design Manual
- AISI D110, Cold-Formed Steel Framing Design Guide

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- AISI D111, Cold-Formed Steel Purlin Roof

## **Light Steel Framing Design Standards**

Light gauge steel construction is very similar to wood framed construction in principle - the wooden framing members are replaced with thin steel sections. The steel sections used here are called cold formed sections, meaning that

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the sections are formed, or given shape at room temperature.

## **Light Gauge Steel Construction | Light Gauge Metal Framing ...**

- Steel is “Green” because it contains a minimum of 5% recycled steel and is 100% recyclable. • Steel framing has proven performance in high wind and seismic zones. The non-

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combustibility of steel allows a significant density increase in commercial and multi-family structures, offering building owners with the potential for higher revenue.

## **Steel Framing Guide**

Light gauge steel framing for residential construction has established itself in Australia and is increasingly the

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solution of choice, including for other low-rise buildings such as hospitals and schools. Images above and below courtesy Bluescope.

## **ASI - Steel for residential construction**

light gauge steel framing for building application. LOTOSFORMING is a steel stud manufacturing of steel



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stud roll forming machine. We produce steel framing machine that is suited for any type of projects. Our metal stud machine for sale are well suited for any type of construction project. building with a Light Steel Framing is an innovative solution with numerous applications. projects.

**light gauge steel  
framing machine |**

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## **Light Gauge Steel ...**

Light Gauge Steel.  
Filters {{alert}} close  
Checkout. Please set  
quantity for the items  
that you want to add to  
the order. Add to  
Quote autorenew. 3 5/8  
in x 10 ft x 20 Gauge  
33 mil Steel Track w/ 1  
1/4 in Leg \$ 3 5/8 in x  
10 ft x 20 Gauge 33 mil  
Steel Stud w/ 1 1/4 in  
Flange ...

**J & B Materials -  
Light Gauge Steel**

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Steel Stud  
Manufacturers  
Association (SSMA) is  
the unified voice of the  
steel framing  
manufacturing  
industry. SSMA is a  
non-profit organization  
dedicated to promoting  
the use of light gauge  
steel framing in the  
building industry. SSMA  
provides a wide range of  
services to its members,  
including technical  
support, marketing  
assistance, and  
educational programs.  
SSMA is a leading  
authority on light gauge  
steel framing and is  
committed to providing  
the highest quality  
products and services to  
its members.

**Steel Framing -  
Steel Studs -**

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## **Chicago, IL | Steel Stud ...**

7-52-Light Gauge Steel connections. a- Simpson has a special catalog for light gauge steel, please use it. Do not use the Simpson wood catalog for light gauge steel unless you call the technical support of Simpson company and they say it will work. 7-53 -Light Gauge Steel studs.

**Structural Design of**  
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**Light Gauge Steel /  
Cold-formed Steel ...**

The galvanized strip steel, from which the light steel framing is formed, is generally supplied in grades of S350 to S450 to BS EN 10346:2009. These designations indicate a yield strength between 350 and 450 N/mm<sup>2</sup>. The strip steel is galvanized with a minimum G275 coating.

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**Light Steel Framing  
in reSidential  
ConStruCtion**

Resources, education,  
and project assistance  
related to the use of  
cold-formed steel  
framing in low and mid-  
rise and multi-family  
construction projects.

**Cold-formed Steel  
Framing Resources -  
BuildSteel.org**

Part of the  
international Hadley  
Group, Hadley Steel

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Framing's light gauge steel profiles have been installed in a nine-storey student accommodation in Exeter, called The Depot. The £40m development will provide accommodation for circa 600 students. Continue reading Call Us +44 (0) 121 555 1300

**Hadley Steel**  
**Framing - Hadley**

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## **Group**

SteelSmart Structural Design Software Suite for Light Steel Framing. The SteelSmart ® Structural Design Suite provides construction professionals with the structural design software tools engineered for both fast and accurate design and detailing of light steel framing (LSF) studs and connectors. SteelSmart raises the bar for the



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design and analysis of  
cold formed steel (CFS)  
by seamlessly ...

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