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1-2. Member versus
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American Iron and
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Light Steel Framing Design Standards

AISI Cold-Formed Steel Framing Design Guide, Second Edition Page i. Cold-Formed Steel Framing Design Guide . Preface . This publication is intended as a guide for designers of cold-formed steel framing (CFSF) systems for buildings. CFSF products include cold-formed studs, joists, rafters, trusses and

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miscellaneous bracing
and connection
components.

Cold-Formed Steel Framing Design Guide, Second Edition

systems incorporating
lightweight steel
framing (LSF) members
for low rise commercial
and medium and high
rise residential
applications. It is the
logical complement to
the "Lightweight Steel

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Framing Design Manual" published in 1991 by the CSSBI as a design guide for Structural Engineers. A general description of lightweight steel framing

Lightweight Steel Framing

ARCHITECTURAL

Cold-Formed Steel Design Manual . consists of six Parts. This information is supplemental to the

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2001 edition of the .
North American
Specification for the
Design of Cold -Formed
Steel Structural
Member. s. Each part
in the . Design Manual .
should be used in
conjunction with the .
Specification,
Commentary . and the
other parts, where
appropriate.

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

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33ksi steel. 54mil
(16ga), 68mil (14ga)
and 97mil (12ga)
products are produced
with 50ksi steel unless
otherwise noted.

Designation thickness
(mils) Thickness

(gauge) Design (in)

Minimum thickness1

(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

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2017 technical design guide COLD- FORMED STRUCTURAL FRAMING ...

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configuration provides installation and design advantages which create efficiencies no other light steel framing (LSF) load bearing wall stud can provide.

Table of Contents - The Steel Network

A6.1 Base Steel Thickness In no case shall the minimum base steel thickness be less than 95% of the design thickness. A6.2

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Minimum Flange Width For C-shapemembers intended to receive sheathing, the minimum flangewidth shall be 1- 1/4 inch (31.8 mm). For track, the minimum flangewidth shall be 1 inch (25.4 mm).

AISI STANDARD - American Iron and Steel Institute

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Light Steel Framing in reSidential ConStruCtion

Chapter 9
STRUCTURAL CONCEPT
FOR LIGHT GAUGE

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STEEL FRAME SYSTEM

9.1 BACKGROUND

Steel is widely used in the construction of multi-storey buildings. However, steel construction is seldom used and is traditionally considered uneconomical for landed properties. In many parts of the world, timber or structural brickwork is preferred whereas

Chapter 9

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STRUCTURAL CONCEPT FOR LIGHT GAUGE STEEL FRAME ...

previously managed the ISAT cold-formed steel engineering division. Prior to ISAT, she worked at several Bay Area engineering consulting firms and developed experience in the design of multifamily residential structures, seismic upgrades of commercial buildings,

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and light-gage steel
tenant improvements.
She is a member of the
SEAONC Seismology

Seismic Design of Cold-Formed Steel Lateral Load- Resisting ...

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brightness. 2. Please allow slight manual measurement deviation for the data.

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