

**OLMAR SUPPLY INC
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**SUBMITALS FOR
COLD-FORMED METAL FRAMING**

Section includes Cold-formed metal framing for:

- Non-structural steel studs
- Structural steel studs
- Non-structural steel tracks
- Structural steel tracks
- Seismic ceiling runners
- Slotted tracks
- Notched tracks
- Angles and special shapes
- Furring and cold rolled channels
- Bridging, bracing, clips, and accessories.
- Radius track [regular,arch,elliptical]
- Welded king studs and headers

REFERENCES

American Iron and Steel Institute (AISI):

- AISI/COFS/GP-04 - AISI Standard / Standard for Cold-Formed Steel Framing - General Provisions, 2004 Edition with Commentary.
- AISI Product Standard S210-07 - AISI Standard / North American Standard for Cold-Formed Steel Framing - Product Data, 2007 Edition.
- AISI/COFS/Header-04 - AISI Standard / Standard for Cold-Formed Steel Framing - Header Design, 2004 Edition with Commentary.
- AISI/COFS/Lateral-04 - AISI Standard / Standard for Cold-Formed Steel Framing - Lateral Design, 2004 Edition with Commentary.
- AISI/COFS/Truss-04 - AISI Standard / Standard for Cold-Formed Steel Framing - Truss Design, 2004 Edition with Commentary.
- AISI/COFS/WSD-04 - AISI Standard / Standard for Cold-Formed Steel Framing - Wall Stud Design, 2004 Edition with Commentary.
- AISI/COS 2001 - AISI Standard / Standard for Cold-Formed Steel Framing - Prescriptive Method for One and Two Family Dwellings, 2001 Edition.
- AISI NASPEC/NAS-01 - North American Specification For the Design of Cold-Formed Steel Structural Members, 2001 Edition and 2004 Supplement.

ASTM International (ASTM):

A653/A653M-08 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.

C954-07 - Standard 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

C955-08a - Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks).

A1003/A1003M-08 - Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members.

C1007-08 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories.

C1513-04 - Standard Specification for Steel Tapping Screws for Cold-Formed Steel Framing Connections.

American Welding Society (AWS):
D1.1 - Structural Welding Code - Steel.
D1.3 - Structural Welding Code - Sheet Steel.

Steel Stud Manufacturers Association (SSMA).

Design Requirements:

Design steel in accordance with AISI NASPEC unless otherwise indicated.
Design loads: As indicated on Drawings.
Design framing systems to withstand design loads with maximum deflections of:
Exterior walls: Lateral deflection of [L/240.] [L/360.] [L/600.]
Interior load-bearing walls: Lateral deflection of [L/240.] [L/360.] [L/600.]
Provide for movement of framing members without damage or overstressing, sheathing failure, connection failure, undue strain on fasteners and anchors, or other detrimental effects when subject to ambient temperature range of 120 degrees F.
Design framing system to accommodate deflection of primary building structure and construction tolerances.
Design exterior non-load-bearing curtain wall framing to accommodate lateral deflection without regard to contribution of sheathing materials.

Manufacturer:

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Product Data:

Manufacturer's product literature and data sheets and installation recommendations for specified products.
Sizes and spacing of framing members.
Methods of fastening framing members to each other and to supporting systems.
Details of vertical deflection connections to structures.
Locations and spacing of lateral bracing and structural bracing systems.
Accessory products required for complete installation.
Bear seal and signature of Registered Professional Engineer licensed in State in which project is located.

Sustainable Design Submittals:

Recycled Content: Certify recycled content of metal roofing; indicate recycled content percent and whether pre-consumer or post-consumer.
Regional Materials: Certify materials extracted, processed, and manufactured within 500 mile radius of Project site.

DELIVERY, STORAGE AND HANDLING

Store materials protected from exposure to rain, snow, and other harmful weather conditions, at temperature and humidity conditions at temperature and humidity conditions per ASTM C955.

Handle products per AISI NASPEC.

MATERIALS

Galvanized Steel:

Meet or exceed requirements of ASTM A1003/A1003M or ASTM A653/A65
Coating class: [G60] [G90] per ASTM C955.
Recycled content: Approximately 35 percent, with minimum 25.5 percent classified as post

consumer and minimum 6.8 percent classified as pre-consumer.

Stud Punch-Outs: minimum 10 inches between end of member and near edge of web punch-out
And 24 inches on center thereafter, per ASTM C955

COMPONENTS

Manufactured from mill certified prime steel complying with ASTM C645
Cold formed non-structural studs : Galvanized steel C-studs
Flange length:[1-1/4 inches; 125 flange]
Web depth: [1-5/8 inches; 162 depth],[2-1/2 inches; 250 depth],[3-1/2 inches;350 depth],[3-5/8 inches
362 depth],[6 inches; 600 depth],[8 inches; 800 depth]
Minimum material thickness:[25] [22] [20] gage.[As required by design].
Minimum yield strength: [33 ksi]
Minimum coating:[G-40] [G-60],[G-90]

Cold-formed non-structural galvanized tracks complying with ASTM C645.
Flange length:[1-1/4 inches; T125 flange]
Web dept:[1-5/8 inches; 162T][2-1/2 inches; 250T] [3-1/2 inches; 350T] [3-5/8 inches; 362T] [4 inches
400T] [6 inches; 600T]
Minimum material thickness:[25] [22] [20] gage.[As required by design]
Minimum yield strength:[33 ksi]
Minimum coating:[G-40] [G-60] [G-90]

Cold-Formed Structural Studs: Galvanized steel C-studs complying with ASTM C955.
Flange length: [1-5/8 inches; 162 flange.] [2 inches; 200 flange.] [2-1/2 inches; 250 flange.] [3 inch;
300 flange.]
Web depth: [2-1/2 inches; 250 depth.] [3-1/2 inches; 350 depth.] [3-5/8 inches; 362 depth.] [4 inches;
400 depth.] 5-1/2 inches; 550 depth.] [6 inches; 600 depth.] [8 inches; 800 depth.] [10 inches; 1000
depth.] [12 inches; 1200 depth.] [As indicated on Drawings.]
Minimum material thickness: [[20] [18] [16] [14] [12] gage.] [As required by design.]
Minimum yield strength: [33 ksi.] [50 ksi.] [As required by design.]
Minimum coating:[G-60],[G-90].

Structural Track: Cold-formed galvanized steel runner tracks complying with ASTM C955.
Flange length: [1-1/4 inches; T125 flange.] [1-1/2 inches; T150 flange.] [2 inches; T200 flange.] [2-1/2
inches; T250 flange.] [3 inches; T300 flange.] [3-1/2 inches; T350 flange.]
Web: [2-1/2 inches; 250 depth.] [3-1/2 inches; 350 depth.] [3-5/8 inches; 362 depth.] [4 inches; 400
depth.] [5-1/2 inches; 550 depth.] [6 inches; 600 depth.] [8 inches; depth.] [10 inches; 1000 depth.]
[12 inches; 1200 depth.] [Track web size to match stud web size.]
Minimum material thickness: [[20] [18] [16] [14] [12] gage.] [As required by design.] [As indicated on
Drawings.] [Track thickness to match wall stud thickness.]
Minimum yield strength: [33 ksi.] [50 ksi.] [As required by design.]
Minimum coating:[G-60],[G-90]

Deflection Track: Cold-formed deep leg runner slip track.
Leg length: [2 inches; T200 flange.] [2-1/2 inches; T250 flange.] [3 inches; T300 flange.] [3-1/2
inches; T350 flange.] [As required by design.]
Web: Design to accommodate stud width for single track or interior track width for double track
system.
Minimum material thickness: [[20] [18] [16] [14] [12] gage.] [As required by design.]
Minimum yield strength: [33 ksi.] [50 ksi.] [As required by design.]
Minimum coating: [G-60],[G-90].

Seismic Ceiling Runner: Cold-formed seismic deflection track.

Leg length: [3 inches; SCR300 flange]

Web: [2-1/2 inches; 250 depth],[3-5/8 inches; 362 depth],[4 inches; 400 depth],[6 inches; 600 depth]
[8 inches; 800 depth],[10 inches; 1000 depth]

Return length:[5/8 inches notched to accommodate stud flange 8 inches on center]

Total deflection:[2 inches vertical; 2 inches horizontal]

Minimum material thickness:[20],[18],[16],[14],[12] gage

Minimum yield:[33 ksi],[50 ksi].[As required by design]

Minimum coating: [G-60],[G-90].

Slotted Track: Cold-formed slotted track .

Leg length: 2-1/2 inches; T250 flange.

Vertical slot: 1-1/2 inches long by 1/4 inch wide.

Web: [2-1/2 inches; 250 depth.] [3-5/8 inches; 362 depth.] [4 inches; 400 depth.] [6 inches; 600 depth.] [8 inches; 800 depth.] [As indicated on Drawings.]

Minimum material thickness: [20] [18] [16] [14] gage.] [As required by design.]

Minimum yield strength: [33 ksi.] [50 ksi.] [As required by design.]

Minimum coating: [G-60],[G-90].

Notched track: Cold-formed flash mounted notched track.

Leg length: [1-1/4 inches; NT125 flange]

Web: [4 inches; 400 depth],[6 inches; 600 depth]

Leg Notches: 16 inches or 24 inches on center

Minimum material thickness:[20],[18],[16],[14] gage

Minimum yield: [33 ksi],[50 ksi]

Minimum coating:[G-60],[G-90].

Angles and special shapes, complying with ASTM C955.

Minimum material thickness:[20] [18] [16] [14] [12] [10] gage.] [As required by design.]

Minimum yield strength: [33 ksi],[50 ksi] .[As required by design].

Minimum coating: [G-60],[G-90].

U-Channel (CRC Cold Rolled Channel): [150U50-54; 1-1/2 inches, 16 gage.] [075U50-54; 3/4 inch, 16 gage.] [As required by design.]

Minimum coating:[G-60]

Furring Channels:[087F125-27; 7/8 inch 22 ga] [087F125-30; 7/8 inch drywall 20 gage] [087F125-33; 7/8 inch, 20 gage.] [087F125-43; 7/8 inch, 18 gage.] [087F125-54; 7/8 inch, 16 gage.] [087F125-68; 7/8 inch 14 ga] [150F125-33; 1-1/2 inches, 20 gage.] [150F125-43; 1-1/2 inches, 18 gage.] [150F125-54; 1-1/2 inches, 16 gage.] [As required by design.]

Minimum yield:[33 ksi],[50 ksi].

Minimum coating:[G-60],[G-90]

Radius track, Arch track, Elliptical track, complying with ASTM C955

Minimum material thickness: [20],[18],[16],[14],[12],[10] gage

Method use: Spot welding trough tabs.

Minimum yield: [33 ksi],[50 ksi].

Minimum coating: [G-60],[G-90].

ACCESSORIES

Framing Accessories: As required for project, complying with ASTM C955.

Flat strapping for X-bracing.
Flat strapping and bridging for lateral bracing.
Gusset plates, Blockings,
Solid, Slotted and Clips with holes
Flat steel sheets.
Minimum material thickness:[20],[18],[16],[14],[12],[10] gage
Minimum yield:[33 ksi],[50 ksi]
Minimum coating:[G-60],[G-90]