054000 - Cold-Formed Metal Framing

Stephanie Weatherbee
s.weatherbee@unh.edu

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SECTION 05 4000 - COLD-FORMED METAL FRAMING

1.1 SUMMARY

A. This Section includes the following but is not limited to:

1. Exterior load-bearing wall framing.
2. Interior load-bearing wall framing.
4. Floor joist framing.
5. Roof trusses.
6. Roof rafter framing.
7. Ceiling joist framing.

1.2 PERFORMANCE REQUIREMENTS

A. Cold-Formed Steel Framing, General: Design according to AISI’s "Standard for Cold-Formed Steel Framing - General Provisions."

1. Headers: Design according to AISI’s "Standard for Cold-Formed Steel Framing - Header Design."
2. Design exterior non-load-bearing wall framing to accommodate horizontal deflection without regard for contribution of sheathing materials.
3. Roof Trusses: Design according to AISI’s "Standard for Cold-Formed Steel Framing - Truss Design."

1.3 SUBMITTALS

A. LEED Submittal:

1. Product Data for Credit MR 4.1 and Credit MR 4.2: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content.
   a. Include statement indicating costs for each product having recycled content.

1.4 QUALITY ASSURANCE

A. AISI Specifications and Standards: Comply with AISI’s "North American Specification for the Design of Cold-Formed Steel Structural Members" and its "Standard for Cold-Formed Steel Framing - General Provisions."

1. Comply with AISI’s "Standard for Cold-Formed Steel Framing - Truss Design."
2. Comply with AISI’s "Standard for Cold-Formed Steel Framing - Header Design."
1.5 MATERIALS

A. Recycled Content of Steel Products: Provide products with an average recycled content of steel products so postconsumer recycled content plus one-half of preconsumer recycled content is not less than 25 percent.

1.6 INSTALLATION, GENERAL

A. Cold-formed metal framing may be shop or field fabricated for installation, or it may be field assembled.

B. Install cold-formed metal framing according to AISI's "Standard for Cold-Formed Steel Framing - General Provisions" and to manufacturer's written instructions unless more stringent requirements are indicated.

1.7 FIELD QUALITY CONTROL

A. Testing: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.

END OF SECTION 05 4000