Guide Specification - Section 05 40 00

Cold-Formed Metal Framing (short form)

Short-form guide specification for structural and curtain-wall cold-formed steel framing. Edit bracketed [options] to suit the project; delete what does not apply. This guide is not a substitute for the design professional’s specification.

PART 1 - GENERAL

1.1 SUMMARY. Section includes load-bearing and non-load-bearing [exterior curtain-wall] cold-formed steel framing: studs, track, bridging, bracing, clips and accessories.

1.2 REFERENCES. ASTM A653, A1003, A780, C955, C1007, C1513; AISI S100, S202, S240; the building code adopted by the authority having jurisdiction.

1.3 DELEGATED DESIGN. [Engage a qualified professional engineer licensed in the project state to design framing, connections and bracing for the loads and deflection limits indicated.] Design to AISI S100 and S240.

1.4 SUBMITTALS. Product data for each member (dimensions, thickness, yield strength, coating, section properties); shop drawings [signed and sealed]; mill test reports or certificates of compliance on request; installer qualifications.

1.5 QUALITY ASSURANCE. Members identified per ASTM A1003 with manufacturer, thickness, coating and yield strength. Welding by qualified welders where required.

1.6 DELIVERY, STORAGE AND HANDLING. Store off the ground, covered and ventilated; protect from corrosive materials; replace damaged members.

PART 2 - PRODUCTS

2.1 SOURCE. Framing members supplied by Nordic and Norden LLC, Branchburg, NJ, or approved equal complying with this Section.

2.2 MATERIALS. Steel sheet to ASTM A1003, minimum yield strength [33] [37] [50] ksi as indicated; metallic coating [G60] [G90] per ASTM A653.

2.3 MEMBERS. C-shaped studs with stiffening lips and U-shaped track per ASTM C955, sizes and minimum base steel thickness as indicated (e.g. 600S162-54). Track: same thickness as studs unless indicated, leg [1-1/4"] [2"].

2.4 ACCESSORIES. Bridging, clips, web stiffeners, deflection connectors and bracing of the type, size and thickness indicated, same coating as members.

2.5 FASTENERS. Self-drilling screws per ASTM C1513, corrosion-resistant coated; powder-actuated and expansion anchors as indicated on the drawings. Touch-up: zinc-rich paint per ASTM A780.

PART 3 - EXECUTION

3.1 EXAMINATION. Verify supports, substrates and tolerances before installation.

3.2 INSTALLATION. Install per approved shop drawings, AISI S240, ASTM C1007 and the manufacturer’s instructions. Provide full bearing of studs in track; install bridging and bracing before loading; provide deflection connections at structure as indicated. Do not cut members except as detailed.

3.3 TOLERANCES. Plumb, level and true to line within 1/8" in 10' unless indicated otherwise.

3.4 REPAIR. Touch up welds and damaged coating with zinc-rich paint.

END OF SECTION