

SECTION 07 41 13

CSI-LG-SL™

LIGHT GAUGE SNAP LOCK STANDING SEAM ROOFING SYSTEM

Manufacturer Specification

CSI Architectural Metal LLC

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes

Provide a complete CSI-LG-SL™ Light Gauge Snap Lock Standing Seam Roofing System including factory roll-formed snap lock standing seam roof panels, concealed fastening system, attachment clips, flashings, trims, closures, fasteners, accessories and related components required for a complete roofing installation.

Related Sections:

06 10 00 Rough Carpentry
07 21 00 Thermal Insulation
07 25 00 Weather Barriers
07 27 00 Air Barriers
07 60 00 Flashing and Sheet Metal
07 92 00 Joint Sealants

Work Not Included:

Structural framing, roof deck, sheathing, waterproofing, underlayment, air/vapor barriers, drainage, lightning protection, snow retention, rooftop equipment and curbs unless specifically included.

1.02 REFERENCES

ASTM, AAMA, ASCE 7, International Building Code, SMACNA Architectural Sheet Metal Manual and Aluminum Design Manual.

1.03 PERFORMANCE REQUIREMENTS

Provide a complete concealed-fastened roofing system capable of resisting design wind, dead, live, snow and seismic loads where applicable. Provide concealed clips permitting thermal movement without permanent deformation. Attachment spacing shall be determined by project-specific engineering.

1.04 SUBMITTALS

Submit Product Data, Shop Drawings, Roof Layout Drawings, Engineering Calculations where required, Finish Samples, Panel Samples, Flashing Details, Attachment Details, Installation Instructions and Warranty Documents.

1.05 QUALITY ASSURANCE

Manufacturer shall demonstrate experience producing architectural standing seam roofing systems. Installer shall demonstrate successful completion of comparable work. Conduct preinstallation conference and provide mock-up when required.

1.06 DELIVERY, STORAGE AND HANDLING

Deliver materials protected. Store elevated above ground. Protect finishes. Prevent moisture accumulation. Handle with clean gloves.

1.07 WARRANTY

Provide Material, Finish, Fabrication and Installer Workmanship Warranties where required.

PART 2 - PRODUCTS

2.01 MANUFACTURER

CSI Architectural Metal LLC
Odessa, Florida

Product:
CSI-LG-SL™
Light Gauge Snap Lock Standing Seam Roofing System

2.02 SYSTEM DESCRIPTION

Factory roll-formed architectural snap lock standing seam roofing system. Concealed fastening. No field mechanical seaming required. Continuous panel lengths where practical. Installed over continuous solid substrate. Suitable for commercial, institutional, hospitality, civic, airport, educational and custom residential applications.

Panels may be installed vertically or horizontally. Tapered panels are available.

2.03 MATERIALS

Aluminum, Stainless Steel, Copper, Brass, Galvanized Steel and Galvalume Steel.

2.04 PANEL DIMENSIONS

Coverage widths from 7.5 inches to 30 inches.

Typical seam heights:

1 inch

1-1/2 inches

Panel lengths up to approximately 52 feet subject to project requirements.

2.05 ATTACHMENT

Provide concealed fixed and sliding clips. Clip spacing by project-specific engineering. Exposed fasteners are not permitted unless specifically indicated.

2.06 ACCESSORIES

Starter strips, ridge assemblies, hip flashings, valley flashings, eave trim, rake trim, counter flashings, penetration flashings, expansion joints, closures, fasteners, sealants within CSI scope and miscellaneous sheet metal.

2.07 FINISHES

PVDF AAMA 2605, anodized, mill finish, stainless steel, copper, titanium zinc, custom RAL, metallic and matte finishes.

2.08 FABRICATION

Fabricate in accordance with approved Shop Drawings. Precision roll-forming. Uniform snap-lock engagement. Matching flashings. Minimize oil canning. No cracked bends.

2.09 PERFORMANCE TESTING

Where specified, assemblies may comply with ASTM E283, ASTM E331, ASTM E1592, UL 580 Class 90, UL Class 4, Miami-Dade PA125 and TAS 100-95 based on project-specific testing.

2.10 QUALITY CONTROL

Inspect material, dimensions, finish, panel profile, fabrication, packaging and shipping.

PART 3 - EXECUTION

3.01 EXAMINATION

Verify substrate, dimensions and readiness before installation.

3.02 INSTALLATION

Install in accordance with approved Shop Drawings, manufacturer's instructions and project-specific engineering. Maintain alignment. Install concealed clips at engineered spacing. Snap adjacent panels together without mechanical seaming. Allow for thermal movement. Minimum roof slope 3:12 unless approved otherwise.

3.03 FLASHINGS

Install flashings true to line with continuous water-shedding transitions.

3.04 FIELD QUALITY CONTROL

Verify alignment, snap-lock engagement, attachment and flashing installation. Replace damaged components.

3.05 CLEANING

Remove protective film promptly. Clean finished surfaces. Remove debris. Protect completed work.

3.06 WARRANTY CLOSEOUT

Submit Manufacturer's Warranty, Finish Warranty, Maintenance Recommendations, Cleaning Instructions and Record Drawings where required.

END OF SECTION 07 41 13