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This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Manual of Practice*, including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies column and beam single-step clips. These products are manufactured by Claw International. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles.

**SECTION 05090
 METAL FASTENINGS**

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. Snap-on wallboard clips for beams and columns.

Specifier Note: Revise paragraph below to suit project requirements. Add section numbers and titles per CSI *MasterFormat* and specifier's practice.

B. Related Sections:

1. Division 1 Section: Submittal Procedures.
2. Division 1 Section: Quality Control.
3. Division 1 Section: Closeout Submittals.
4. Division 7 Section: Applied Fireproofing.
5. Division 9 Section: Gypsum Board.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section. Retain only those reference standards to be used within the text of this Section. Add and delete as required for specific project.

1.2 REFERENCES

- A. General:** Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction.

Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.3 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures.
- B. Product Data: Submit manufacturer's product data and installation instructions for snap-on wallboard clips. Include assembly instructions for possible fire ratings.
- C. Drawings:
 - 1. Submit shop drawings detailing installation procedures, including layout, dimensions and connections.
- D. Quality Assurance:
 - 1. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
 - 2. Manufacturer's Instructions: Manufacturer's installation instructions.

Specifier Note: Coordinate paragraph below with Part 3 Field Quality Requirements Article. Retain or delete as applicable.

- E. Manufacturer's Field Reports: Indicate and interpret test results for compliance with performance requirements.
- F. Closeout Submittals: Submit the following:
 - 1. Warranty: Warranty documents specified herein.

1.4 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
 - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during installation, approving acceptable installer and approving method of installation.
 - 3. Fabricator Qualifications: Fabrication performed in quality controlled manufacturing environment by experienced fabricators.
- B. Preinstallation Meetings: Conduct preinstallation meeting to verify project requirements, manufacturer's installation instructions and manufacturer's warranty requirements. Comply with Division 1 Project Management and Coordination (Project Meetings) Section.

1.5 PERFORMANCE REQUIREMENTS

- A. Provide detailed installation instructions for fire-rated assemblies to maintain performance criteria stated by manufacturer.

1.6 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Section.
- B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- C. Delivery, Storage and Protection:
 - 1. Deliver materials in original sealed manufacturer's packaging.
 - 2. Store materials in dry, secure location.
 - 3. Store in accordance with manufacturer's written instructions.

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section.

1.7 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract Documents.

1.08 WASTE MANAGEMENT & DISPOSAL

Specifier Note: State information that will assist the contractor with dealing with disposal of construction waste materials in ways other than using landfill resources.

- A. Deposit packaging materials in appropriate container onsite for recycling or reuse.
- B. Avoid using landfill waste disposal procedures when recycling facilities are available.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.1 SNAP-ON WALLBOARD CLIP

- A. Manufacturer: Claw International, 4215 Nicols Road - Eagan, MN 55122; Telephone: (317) 726-6350; Fax: (651) 905-3766 ; E-mail: corey@clawintl.com; website: www.clawintl.com.
- B. Proprietary Products/Systems:
 - 1. The Claw:
 - a. 1 1/2 inch thick x 2 inch wide x 2 3/8 inch (38 x 51 x 60 mm) long, galvanized steel, snap-on clip.
 - 2. Support Angle:
 - a. 25 gauge (No. 25 MSG) (0.0209 inch (0.531 mm) thick) galvanized steel angle with 1 1/2 inch (38 mm) legs.
 - b. Length: 1 inch (25.4 mm) shorter than assembly length.
 - 3. Screws:
 - a. 1 inch (25.4 mm) and 1 5/8 inch (41 mm) self-drilling, self-tapping, Type 'S' steel.
 - 4. Gypsum Board:
 - a. 5/8 inch (15.9 mm) thick, Type C or IP-X2.
 - 5. Corner Bead:
 - a. 26 gauge (No. 26 MSG) (0.0179 inch (0.455 mm) thick) galvanized steel angle with 1 1/4 inch (32 mm) legs.
 - 6. Nails:
 - a. 4d x 1 3/8 inch (35 mm) long.

Specifier Note: Edit article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.2 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

Specifier Note: The Claw beam and column clip will not fit structural members with flanges smaller than that on a W10 x 49 (W250 x 73) section.

2.3 LIMITATIONS

- A. Structural Member: Minimum section size of W10 x 49 (W250 x 73).

PART 3 EXECUTION**3.1 MANUFACTURER'S INSTRUCTIONS**

Specifier Note: Article below is an addition to the CSI *SectionFormat* and a supplement to MANU-SPEC. Revise article below to suit project requirements and specifier's practice.

- A. Compliance: Comply with manufacturer's written data, including product technical bulletins, product catalog installation

instructions and product carton installation instructions.

3.2 EXAMINATION

A. Site Verification of Conditions:

1. Verify substrate conditions are acceptable for product installation in accordance with manufacturer's instructions.
2. Examine area to receive snap-on wallboard clips for compliance with installation clearances.

3.3 INSTALLATION

- #### A. Install in compliance with manufacturer's product data, including product technical bulletins, application and installation instructions.

Specifier Note: The following 3 sentences apply for 1-, 2-, 3- and 4-hour fire ratings.

- B. Clip snap-on wallboard clips to structural member 1 1/4 inch (32 mm) from top, 1 1/4 inch (32 mm) from bottom and 4' 0" (1219 mm) oc.
- C. Center support angle over clips. When splicing angles, place joint over beam clips.
- D. Attach gypsum board to support angle 1 1/4 inch (32 mm) from top, 1 1/4 inch (32 mm) from bottom and 12 inches (305 mm) oc with 1 inch (25.4 mm) long self-drilling, self-tapping Type S steel screws.

Specifier Note: Include following sentence for 2-, 3- and 4-hour fire ratings.

- E. Attach second layer gypsum board 1 1/4 inch (32 mm) from top, 1 1/4 inch (32 mm) from bottom and 12 inches (305 mm) oc with 1 5/8 inch (41 mm) long, self-drilling, self-tapping Type S steel screws.

Specifier Note: Include following sentence for 3- and 4-hour fire ratings.

- F. Center support angle over assembly and attach third layer gypsum board starting 9 inches (229 mm) from bottom of column and at 12 inches (305 mm) oc with 1 inch (25.4 mm) long self-drilling, self-tapping Type S steel screws. Place screws minimum 1 inch (25.4 mm) and maximum 1 1/4 inch (32 mm) from edge of board.

Specifier Note: Include following sentence for 4-hour fire rating.

- G. Attach fourth layer gypsum board starting 6 inches (152 mm) from bottom of column and at 12 inches (305 mm) oc with 1 5/8 inch (41 mm) long self-drilling, self-tapping Type S steel screws. Place screws minimum 1 inch (25.4 mm) and maximum 1 1/4 inch (32 mm) from edge of board.
- H. Attach corner bead to gypsum board starting 6 inches (152 mm) from bottom of column and at 12 inches (305 mm) oc with 4d x 1 3/8 inch (35 mm) nails. Place nails minimum 3/4 inch (19.1 mm) and maximum 1 1/8 inch (29 mm) from edge of board.
- I. Cover corner bead with one layer of joint compound.

3.4 FIELD QUALITY CONTROL

Specifier Note: Use the following Articles only when manufacturer's field services are desired to verify the quality of the installed components. Establish the number and duration of periodic site visits required by Manufacturer and specify below. Consult Manufacturer for services required. Delete if field services are not required.

- A. Have manufacturer of products supplied under this Section review Work involved in handling, installation/application and protection of its product[s], and submit written reports in acceptable format to verify compliance of Work with Contract.
- B. Protect installed product from damage during construction.

3.5 COMPLETION & CLEANUP

- A. After installation, inspect product for any damage. Repair or replace damaged installed products.
- B. On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION