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This MANU-SPEC[®] utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), 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 ProX Header, a light gauge steel header for use with non-load bearing metal stud framing. This product is manufactured by Brady Construction Innovations, Inc. 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 09 22 16
NON-STRUCTURAL METAL FRAMING

PART 1 GENERAL

1.01 SUMMARY

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

- A. Section Includes: Light gauge steel headers for use with non-load bearing metal stud framing.
- B. Related Sections:
 - 1. Division 05 40 00 Section - Cold-Formed Metal Framing.

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 01 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.

1.02 REFERENCES

- A. ASTM International:
 - 1. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - 2. ASTM A1003/A1003M Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members.
 - 3. ASTM C645 Standard Specification for Nonstructural Steel Framing Members.
 - 4. ASTM C954 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.
 - 5. ASTM C955 Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases.

6. ASTM C1007 Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories.
- B. Society of Automotive Engineers (SAE):
 1. SAE J78 Standard Specification for Steel Self-Drilling Tapping Screws.

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 01 Submittal Procedures Section.

1.03 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 01 Submittal Procedures Section.
- B. Product Data: Submit product data, including manufacturer's SPEC-DATA® sheet, for specified products.
- C. Shop Drawings: Submit drawings showing configuration, layout and load carrying capacity of headers.
- D. Engineering Calculations: Submit engineering calculations prepared by a Licensed Professional Engineer. Calculation shall include uniform lateral loads and allowable lateral loads for header members.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 01 Quality Assurance Section.

1.04 QUALITY ASSURANCE

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 01 Regulatory Requirements Section. Repetitive statements should be avoided.

- A. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies].
 1. [Code agency name].
 - a. [Report or approval number].

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 01 Product Requirements Section.

1.05 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 01 Product Requirements Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged skids with identification labels intact.
- C. Storage and Protection: Store materials protected from physical damage and in a well-ventilated area as recommended by the manufacturer.

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.

2.01 PROX HEADER (STEEL HEADER) & RELATED COMPONENTS

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

- A. Manufacturer: Brady Construction Innovations, Inc.
 1. Contact: PO Box 188619, Sacramento, CA 95818-9998; Telephone: (888) 475-7875; Fax: (818) 906-7325; website: www.ProXHeader.com or www.dietrichmetalframing.com.

Specifier Note: Edit Paragraph below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 01 Project Requirements (Product Substitutions Procedures) Section.

- B. Substitutions: No substitutions permitted.

2.02 MATERIALS

- A. ProX Header:

- 1. Steel Sheet: ASTM A653/A653M and ASTM C645.
 - a. 14 and 16 Gauge: Grade 50 with a minimum yield point of 50,000 psi (345 MPa).

Specifier Note: Retain above and/or below to conform to gauge(s) required.

- b. 18 and 20 Gauge: Grade 33 with a minimum yield point of 33,000 psi (228 MPa).

Specifier Note: Select gauge(s) below.

- 2. Thickness: [14 gauge (68 mils)] [16 gauge (54 mils)] [18 gauge (43 mils)] [20 gauge (33 mils)] [25 gauge (18 mils)].
- 3. Width: [2 1/2 inches (64 mm)] [3 5/8 inches (92 mm)] [4 inches (102 mm)] [6 inches (152 mm)] [8 inches (203 mm)].
- 4. Length: 10 feet (3.1 m).

Specifier Note: Select finish below.

- 5. Finish: [Galvanized, Class G40 in accordance with ASTM A1003 with coating weight in accordance with ASTM C645] [Galvanized, Class G60 in accordance with ASTM A1003 with coating weight in accordance with ASTM C955] [Galvanized, Class G90 in accordance with ASTM A1003 with coating weight in accordance with ASTM C645].

2.03 COMPONENTS

- A. Outer Member: ProX Outer, X 425 Series.
- B. Insert Member: ProX Insert, XT 162 Series.
- C. Internal Clip: ProX Clip Series:

- 1. Thickness: 16 gauge (54 mils).
 - 2. Width: [2 1/2 inches (64 mm)] [3 5/8 inches (92 mm)] [4 inches (102 mm)] [6 inches (152 mm)] [8 inches (203 mm)].

2.04 ACCESSORIES

- A. Internal Clip: ProX Clip Series
- B. Fasteners: Sheet metal screws in accordance with ASTM C954 or SAE J78:
 - 1. Interior: No. 8 screws.
 - 2. Exterior: No. 10 screws.

PART 3 EXECUTION

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify that substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.03 INSTALLATION

- A. Install ProX Header in accordance with ASTM C1007.

END OF SECTION