

**Part 1 General****1.1 RELATED SECTIONS**

- .1 Division 01 – General Requirements.
- .2 Section 04 05 00 - Common Work Results for Masonry.
- .3 Section 04 22 00 – Concrete Unit Masonry.

**1.2 REFERENCES**

- .1 Canadian Standards Association (CSA International).
  - .1 CAN/CSA-A23.1/A23.2-09, Concrete Materials and Methods of Concrete Construction/Methods of Test for Concrete.
  - .2 CAN/CSA-A179-04(R2009), Mortar and Grout For Unit Masonry.
  - .3 CAN/CSA-A371-04 (R2009), Masonry Construction for Buildings.
  - .4 CAN/CSA-G30.18-2009, Carbon Steel Bars for Concrete Reinforcement.
  - .5 CAN/CSA-S304.1-04 (R2010), Masonry Design for Buildings.

**1.3 SUBMITTALS**

- .1 Product Data:
  - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 00 10 – General Instructions.
  - .2 Submit two copies of WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 00 10 – General Instructions. Indicate VOC's for epoxy coatings and galvanized protective coatings and touch-up products.
- .2 Manufacturer's Instructions: Submit manufacturer's installation instructions.

**1.4 FIELD MEASUREMENTS**

- .1 Make field measurements necessary to ensure proper fit of members.

**1.5 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 00 10 – General Instructions.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.

**Part 2 Products****2.1 MATERIALS**

- .1 Bar reinforcement: to CAN/CSA-A371 and G30.18, Grade 400.

- .2 Wire reinforcement: to CAN/CSA-A371-04 (R2009) and CSA G30.14, truss type.

## **2.2 FABRICATION**

- .1 Fabricate reinforcing in accordance with CAN/CSA-A23.1-09.
- .2 Ship reinforcement, clearly identified in accordance with drawings.

## **2.3 SOURCE QUALITY CONTROL**

- .1 Upon request inform Departmental Representative of proposed source of material to be supplied.

## **Part 3 Execution**

### **3.1 MANUFACTURER'S INSTRUCTIONS**

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

### **3.2 GENERAL**

- .1 Supply and install masonry reinforcement in accordance with CAN/CSA-A371-04 (R2009), CAN/CSA-A23.1-09 and CSA-S304.1-04 (R2010) unless indicated otherwise.
- .2 Prior to covering reinforcement, obtain Structural Engineer's approval of placement of reinforcement and connectors.
- .3 Supply and install horizontal reinforcement to masonry as indicated.
- .4 Supply and install vertical reinforcing as indicated.
- .5 Coordinate with other work including exterior and stud space insulation, exterior sheathings, air and vapour barriers, masonry, drywall, mechanical, electrical and plumbing systems.

### **3.3 GROUTING**

- .1 Grout masonry in accordance with CSA-S304.1-04 (R2010), CAN/CSA-A371-04 (R2009), and CSA-A179-04 (R2009).and as indicated.

### **3.4 LATERAL SUPPORT AND ANCHORAGE**

- .1 Supply and install lateral support and anchorage in accordance with CSA-S304.1-04 (R2010) and as indicated.

### **3.5 FIELD BENDING**

- .1 Do not field bend reinforcement and connectors except where indicated or authorized by Departmental Representative.
- .2 When field bending is authorized, bend without heat, applying a slow and steady pressure.

- .3 Replace bars and connectors which develop cracks or splits.

**3.6 FIELD TOUCH-UP**

- .1 Touch up damaged and cut ends of galvanized reinforcement steel and connectors with compatible finish to provide continuous coating.

**3.7 CLEANING**

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

**END OF SECTION**