

The Executed Agreement including General Conditions and Supplementary Conditions, Division 01, applicable Drawings and amendments are part of and are to be read in conjunction with this Section.

PART 1 - GENERAL

1.1 SUMMARY OF SECTION

- .1 As summarized and described, but not restricted to the following:
 - .1 Provide masonry reinforcement and connectors for masonry.
 - .2 This section to be read in conjunction with Section 04 05 00 Common Work Results for Masonry.

1.2 REFERENCES

- .1 American Society for Testing and Materials International (ASTM):
 - .1 ASTM A269/A269M-14e1, Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service
- .2 Canadian Standards Association (CSA):
 - .1 CAN/CSA A370-14, Connectors for Masonry.
 - .2 CAN/CSA A371-14, Masonry Construction for Buildings.
 - .3 CSA S304-14, Design of Masonry Structures.
 - .4 CSA W47.1-09 (R2014), Certification of companies for fusion welding of steel
- .3 National Building Code of Canada (NBC) 2010.

1.3 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature including installation instructions, MSDS sheets, specifications and data sheets in accordance with Section 01 33 00 Submittal Procedures.
- .2 Samples
 - .1 Submit one (1) sample of all masonry reinforcing accessories, fasteners, etc. if requested.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Bar Reinforcement:
 - .1 To CAN/CSA A371, Grade 400 W, deformed billet bars, uncoated finish.

- .2 Masonry Tie at Laterally Load Bearing Steel Stud Back Up:
 - .1 Product Type: Bayonet style
 - .2 Components:
 - .1 Slotted Block Plate - Type I: Length to suite stone width and thickness of membrane, insulation, and air space.
 - .2 V-Tie: Length to provide placement of legs at centerline of solid unit stone.
 - .3 Finish: All Stainless Steel components; Stainless Steel to ASTM A269.

2.2 FASTENERS

- .1 Use stainless steel screws with stainless steel anchors.
- .2 Use zinc corrosion protected screws with stainless steel anchors.
- .3 Never use nails to attach anchors.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Prior to placing mortar, obtain Consultant's approval of placement of reinforcement and connectors.

3.2 GENERAL INSTALLATION

- .1 Install masonry connectors and reinforcement in accordance with CSA A370, CSA A371 and CSA S304.
- .2 Prior to placing mortar, obtain Consultant's approval of placement of reinforcement and connectors.
- .3 Field welding to be performed by licensed welders having current welders' certificates to CSA W47.1 (steel).

3.3 INSTALLATION

- .1 Reinforcement:
 - .1 Place joint reinforcement spaced at 16" vertically in accordance with CSA A371 unless otherwise indicated.
 - .2 Lap joint reinforcement ends minimum 12".
 - .3 Reinforce and grout masonry units and bond beams in accordance with CSA A371 unless otherwise indicated.
 - .4 Install vertical reinforcing steel with a minimum clearance of ½" from the masonry and not less than one bar diameter between bars.
 - .5 Secure reinforcing steel in place. Inspect steel connections before grouting.

- .6 Provide cleanout openings at bottom of cores containing reinforcement.
- .7 Fill cells containing reinforcement and anchor bolts solidly with grout.

- .2 Bonding and Tying:
 - .1 Bond walls using metal connectors in accordance with NBC 2010, CSA S304, CSA A371 and as indicated.

- .3 Lateral Support and Anchorage:
 - .1 Provide lateral support angles and anchorage in accordance with structural drawings and specifications in accordance with CSA A370, CSA A371 and CSA S304.1
 - .2 Verify the top course of the wall is supported and tied to the structure.
 - .3 Provide masonry anchorage ties to laterally load bearing stud walls in strict accordance with manufacturer's recommendations.
 - .4 Coordinate erection of masonry assemblies with installation of lateral support and anchorage.

END OF SECTION