

## **PART 1 – GENERAL**

### **1.1 GENERAL INSTRUCTIONS**

- .1 Preliminary requirements
  - .1 Comply with the General Conditions, the Supplementary Conditions, and all of Division 1 General Requirements.
  - .2 Requests for substitutions for *Products* specified or indicated will not be considered unless the request is in strict accordance with Section 01630 Product Substitution Procedures.
- .2 related sections
  - .1 Section 05123 Structural Steel and Open Web Steel Joists
  - .2 Section 06100 Rough Carpentry
  - .3 Section 07212 Rigid Insulation
  - .4 Section 07465 Preformed Metal Cladding
  - .5 Section 07620 Metal Flashing and Trim
  - .6 Section 07900 Joint Sealers
- .3 submittals
  - .1 Submit all required submittals in accordance with Section 01330 Submittals.
  - .2 Samples: submit duplicate 300 mm x 300 mm samples of each sheet metal material specified in order to verify colour match.
  - .3 Shop drawings: indicate arrangement of sheets and joints, types and locations of fasteners and special shapes and relationship of panels to structural frame. Include location and configuration of snow fences and ridge vents.
- .4 qualifications
  - .1 The work of this section shall be performed by a member in good standing of the Canadian Roofing Contractors Association who shall also:
    - .1 Have a minimum of five (5) years' proven satisfactory experience.
    - .2 Have adequate equipment and skilled personnel to complete the work in an efficient and workmanlike manner.
- .5 guarantee / warranty
  - .1 The *Subcontractor* for the work of this section shall, and hereby does, warrant, and the *Contractor* does guarantee, that the sheet metal panels, related closures, fixings, and the like, *Provided* as part of the work of this section shall be free from defects for a period of two (2) years from the date of *Substantial Performance of the Work*.
  - .2 Furnish said guarantee/warranty in writing in a form acceptable to the *Consultant* and the *Owner*, signed and counter-signed by the *Contractor* and the *Subcontractor*.
- .6 inspection

- .1 All roofing and sheet metal work shall be done under the supervision of the Independent Inspection and Testing Company. The *Work* shall not be considered complete until a certificate is issued by the Independent Inspection and Testing Company.
- .2 Notify the Independent Inspection and Testing Company at least 48 hours prior to commencement of roofing work.
- .3 The cost for this inspection shall be paid for as part of the cash allowance for Independent Inspection and Testing in accordance with Section 01210 Allowances.

## 1.2 PRODUCTS

- .1 prefinished sheet metal
  - .1 Prefinished sheet steel to CSSBI Bulletin B16-94 Prefinished Sheet Steel for Building Construction.
  - .2 Base metal: continuous hot-dipped galvanized sheet steel conforming to the requirements of ASTM A-653M, nominal thickness of 0.76 mm.
  - .3 Profile: Tradition 150 in 500 mm coverage, full-length of roof slope without transverse seams, as manufactured by VicWest Steel.
  - .4 Finish: to be selected from VicWest Signature - SMP Coated Metal Line
- .2 accessories
  - .1 Ice and water shield as recommended by the sheet metal manufacturer.
  - .2 Sealant: Type 1 in accordance with Section 07900 Joint Sealers with primer and backer rods as recommended by the sheet metal manufacturer.
  - .3 Fasteners: concealed type.
  - .4 Washers: of same material as sheet metal, 1 mm thick with rubber packings.
  - .5 Ridge vents: as recommended by roofing manufacturer in locations indicated.
  - .6 Snow guards/fences: Blizzard II (S-5! DualGard) as manufactured by Rocky Mountain Snow Guards Inc. System to be engineered to integrate with standing seam roof system. Colour to match colour of standing seam roof system, or approved equivalent.
- .3 fabrication
  - .1 Hem exposed edges on underside 12 mm, mitre and seal.
  - .2 Form sections square, true and accurate to size, free from distortion and other defects detrimental to appearance or performance.

## 1.3 EXECUTION

- .1 installation
  - .1 Install in accordance with manufacturer's recommendations.
  - .2 Work shall be done to provide a neat, plumb, and square installation.
  - .3 Ice and water shield to be applied over entire extend of low roof areas, installed shingle style.
  - .4 Apply sheet metal roofing beginning at eaves.

- .5 Form side laps with stitch fastening using a continuous bead of sealant or butyl tape.
- .6 Flash roof penetrations with material matching roof panels and make watertight using a continuous bead of sealant or butyl tape.
- .7 Form valleys of sheets not exceeding 3000 mm in length. Lap joints 150 mm in direction of water flow. Extend valley sheet a minimum of 150 mm under roofing sheets. At valley line, double-fold valley and roofing sheets and make watertight using a continuous bead of sealant or butyl tape.
- .8 Panel ends to be folded and hooked into metal flashing in accordance with manufacturer's standard details and recommendations.
- .9 Attach components in a manner not restricting thermal movement.
- .10 No face fasteners are to be used at ridges, valleys, hips, eaves, or valley starter strips.
- .11 Additional blocking is required between joists or trusses in locations where snow fences are to be installed.
- .12 Fix purpose made closures to bottom edge of sheet metal roof.
- .2 cleaning of the work
  - .1 On completion of the work, remove all bitumen or foreign matter from metal roofing, and wash with soap and hot water, or a suitable washing powder, rinse with cold water and wipe dry with a clean cloth. Leave work in a first class condition to the satisfaction of the *Consultant*.
  - .2 Remove excess materials from the *Place of the Work*.

**END OF SECTION**