

SECTION 07612 - Metal Roofing Systems

PART 1 GENERAL

1.01 SUMMARY

A. SECTION INCLUDES

- 1. Factory formed standing seam metal roofing panels with batten cap on seam.**
- 2. Accessories including regular and thermal seam clips, flashings, closures and sealants.**

B. RELATED SECTIONS

Section 07200 - Insulation
Section 07190 - Vapour Barrier
Section 07900 - Joint Sealant
Section 05120 - Structural steel
Section 05210 - Steel Joists
Section 05310 - Steel Deck
Section 06100 - Plywood Sheeting

C. REFERENCES

- 1. CAN/C.S.A Standard S136 latest edition for the Design of Cold Formed Steel Structural Members.**
- 2. Canadian Sheet Building Institute Standards 10M and 20M.**
- 3. National Building Code of Canada (Latest edition)**

D. SYSTEM DESCRIPTION

- 1. Roofing Panels manufactured, fabricated and installed to withstand structural and thermal movement, wind load and weather exposure to maintain manufacturer's performance criteria without defects, damage, and infiltration of water.**
- 2. Design system to -40 C to 80 C.**

E. SUBMITTALS

- 1. Submit duplicate 200 x 200 mm samples of roof system, colors and finishes, in accordance with Section 01300.**
- 2. Submit shop drawings indicating type of preformed metal panels, thicknesses of metal components, size, spacing and location of supports, connections, type and locations of fastenings, sealing, finish and colour in accordance with Section 01300**

9. Snow Fence [One] [two] pipe system:
 - Galvalume pipe minimum 32 mm diameter and 1.3 mm wall thickness.
 - Galvanized base compination fastened through cap and roof seam to subtrade under roof panels.
 - Sealant is needed between cap and bracket.
 - All bolts, nuts and washers stainless steel.
 - Acceptable Product: "CR - SFS" by Classic Roofing Systems.
10. Touch-up paint: as recommended by panel manufacturer.

PART 3. EXECUTION

A. Verification of Conditions.

1. Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion. Do not proceed until unsatisfactory conditions have been corrected.
2. Comply with manufacturer's product data, recommendations and installation instructions for substrate verification, preparation requirements and installation.

B. PREPARATION

1. Coordinate metal roofing with other work (drainage, flashing, trim, deck substrates, parapets, coping, walls) and other adjoining work to provide a non-corrosive and leak-proof installation.
2. Prevent galvanic action of dissimilar metals.

C. INSTALLATION

1. Install membrane air/vapour barrier primed to subtrade. Ensure all joints are properly lapped, sealed and tied in with roof and wall air/vapour barriers to ensure airtight construction.
2. Closely follow details shown on drawings to provide a continuous air/vapour seal.
3. Attached thermal clip panel support using fasteners of type and size recommended by the manufacturer to resist uplift forces.
4. Lay insulation in accordance with Section 07200.
5. Install starters and other parts needed for proper roof installation.
6. Install exterior roof panels using hidden seam fasteners, with folded bottom edge hooked to the starter trim, in accordance to the manufacturer's installation procedure.
7. Install Snow Fence Brackets, if needed, to subtrade in every second seam in proper distance from roof edge in accordance to the manufacturer,s recommendations. No holes allowed through the roof panels.

- 8. Install outer roof panels with folded sides and hook them to starter trim or use gable-end flashing, according to manufacturer's installation procedure**
- 9. Install batten cap, ridge cap and metal closures in accordance to the manufacturer's specifications.**
- 10. Remove manufacturer's protective film, if any, from surface of roofing panels.**
- 11. Install Snow Fence Pipes, if needed, in accordance to the manufacturer,s recommendations.**
- 12. Touch-up minor paint abrasions with touch-up paint and clean the roof by dry wiping.**
- 13. No exposed fasteners allowed, unless approved by the architect.**