

**PART 1 GENERAL**

**1.1 Section Includes**

- .1 Materials and installation of asphalt shingles and roll roofing.

**1.2 Related Sections**

- .1 Section 07 62 00 – Sheet Metal Flashing and Trim.

**1.3 References**

- .1 Canadian General Standards Board (CGSB).
  - .1 CAN/CGSB-37.4, Fibrated, Cutback Asphalt, Lap Cement for Asphalt Roofing.
  - .2 CAN/CGSB-37.5, Cutback Asphalt Plastic Cement.
  - .3 CAN/CGSB-51.32, Sheathing, Membrane, Breather Type.
  - .4 CAN/CGSB-51.34, Vapour Barrier Polyethylene Sheet, for Use in Building Construction.
- .2 Canadian Roofing Contractors' Association (CRCA).
  - .1 CRCA Roofing Specification Manual.
- .3 Canadian Standards Association (CSA).
  - .1 CAN/CSA-A123.1/A123.5, Asphalt Shingles Made From Organic Felt and Surfaced With Mineral Granules/Asphalt Shingles Made From Glass Felt and Surfaced With Mineral Granules.
  - .2 CSA A123.2, Asphalt-Coated Roofing Sheets.
  - .3 CAN/CSA-A123.3, Asphalt Saturated Organic Roofing Felt.
  - .4 CAN3-A123.51, Asphalt Shingle Application on Roof Slopes 1:3 and Steeper.
  - .5 CAN3-A123.52, Asphalt Shingle Application on Roof Slopes 1:6 to Less Than 1:3.
  - .6 CSA B111, Wire Nails, Spikes and Staples.
- .4 National Research Council Canada (NRC)/Institute for Research in Construction (IRC) - Canadian Construction Materials Centre (CCMC).
  - .1 CCMC, Registry of Product Evaluations.

**1.4 Extra Materials**

- .1 Provide maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
- .2 All unused shingles remain property of owner.

**1.5 Submittals**

- .1 Manufacturer's Instructions: Provide to indicate special handling criteria, installation sequence, cleaning procedures.
- .2 Submit product data sheets for asphalt shingles. Include:
  - .1 Product characteristics.
  - .2 Performance criteria.
  - .3 Installation instructions.
  - .4 Limitations.
  - .5 Colour and finish.
- .3 Submit duplicate samples of full size specified shingles.

**1.6 Delivery, Storage And Handling**

- .1 Deliver, handle, store and protect materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Provide and maintain dry, off-ground weatherproof storage.
- .3 Remove only in quantities required for same day use.

**1.7 Waste Management And Disposal**

- .1 Place materials defined as hazardous or toxic in designated containers.
- .2 Ensure emptied containers are sealed and stored safely for disposal away from children.
- .3 Use the least toxic sealants, and adhesives necessary to comply with requirements of this section.
- .4 Close and seal tightly. Remove from site and dispose of all packaging materials at appropriate recycling facilities.
- .5 Place used hazardous sealant tubes and adhesive containers in areas designated for hazardous materials.

**1.8 Measurement For Payment**

- .1 No measurement for payment is to be made under this section. Include costs in lump sum for items in which this item is required.

**PART 2 PRODUCTS**

**2.1 Materials**

- .1 Asphalt shingles: to CSA A123.1/A123.5.
- .1 Type: self-seal, standard, pattern rectangular
  - .2 Mass: minimum 33 kg/3m<sup>2</sup>
  - .3 Colours: as selected by Departmental Representative
- .2 Roofing underlayment: self-adhesive, non-woven glass fibre matt coated with SBS modified bitumen, minimum thickness 1.8 mm, bottom surface release film, top surface sanded.
- .3 Continuous Ridge Vent: minimum 285 mm wide durable, copolymer plastic ridge vent, providing minimum 357 cm<sup>2</sup>/m net free vent area, capable of accepting asphalt shingle cap over for shingle finish.
- .4 Cement: Plastic cement: to CAN/CGSB-37.5.
- .5 Nails: to CSA B111, of galvanized steel, sufficient length to penetrate 19 mm into deck.

**PART 3 EXECUTION**

**3.1 Application**

- .1 Do asphalt shingle work in accordance with CAN3-A123.51/CAN3-A123.52, NBC/CRCA Specification, except where specified otherwise.
- .2 Install layer of self-adhesive roof underlayment over the entire roof area.
- .3 Install drip edge along eaves, overhanging 12 mm, with minimum 50 mm flange extending onto roof decking. Nail to deck at 400 mm oc.
- .4 Install bottom step flashing (soaker base flashing) interleaved between shingles at vertical junctions.
- .5 Install asphalt shingles on roof slopes 1:3 and steeper in accordance with CAN3-A123.51 supplemented as follows:

- .6 Install asphalt shingles on roof slopes 1:6 to less than 1:3 in accordance with CAN3-A123.52 supplemented as follows.

**END OF SECTION**