

PART 1 - GENERAL

- 1.1 SECTION INCLUDES .1 Materials, installation of roof shingles and roll roofing.
- 1.2 RELATED SECTIONS .1 Section 01 33 00 - Submittal Procedures.
.2 Section 01 45 00 - Testing and Quality Control.
.3 Section 01 61 00 - Common Product Requirements.
.4 Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
.5 Section 01 78 00 - Closeout Submittals.
- 1.3 REFERENCES .1 Canadian General Standards Board (CGSB).
.1 CAN/CGSB-37.4-M89, Fibrated, Cutback Asphalt, Lap Cement for Asphalt Roofing.
.2 CAN/CGSB-37.5-M89, Cutback Asphalt Plastic Cement.
.3 CAN/CGSB-51.34-M86, Vapour Barrier Polyethylene Sheet, for Use in Building Construction.
.2 Canadian Roofing Contractors' Association (CRCA).
.1 CRCA Roofing Specification Manual - 1997.
.3 Canadian Standards Association (CSA International).
.1 A123.5-16, Asphalt Shingles Made From Glass Felt and Surfaced With Mineral Granules.
.2 CSA A123.2-03(R2013), Asphalt-Coated Roofing Sheets.
.3 CAN/CSA-A123.3-05(R2015), Asphalt Saturated Organic Roofing Felt.
.4 CAN3-A123.51-14, Asphalt Shingle Application on Roof Slopes 1:3 and Steeper.
.5 CSA B111-1974 (R1998), Wire Nails, Spikes and Staples.
.4 Health Canada/Workplace Hazardous Materials Information System (WHMIS).
.1 Material Safety Data Sheets (MSDS).
- 1.4 SUBMITTALS .1 Submit proof of manufacturer's CCMC Listing and listing number to Departmental Representative.
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1.4 SUBMITTALS
(Cont'd)

- .2 Manufacturer's Instructions: Provide to indicate special handling criteria, installation sequence, cleaning procedures.
- .3 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.
- .4 Submit product data sheets for roof shingles. Include:
 - .1 Product characteristics.
 - .2 Performance criteria.
 - .3 Installation instructions.
 - .4 Limitations.
 - .5 Colour and finish.

1.5 SAMPLES

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 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 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management And Disposal.
 - .2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.
 - .3 Collect and separate for disposal paper plastic polystyrene corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
 - .4 Place materials defined as hazardous or toxic in designated containers.
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1.7 WASTE
MANAGEMENT AND
DISPOSAL
(Cont'd)

- .5 Divert unused asphalt shingle materials from landfill to asphalt recycling facility approved by Departmental Representative.
- .6 Dispose of unused asphaltic cement type materials at official hazardous material collections site approved by Departmental Representative.
- .7 Fold up metal banding, flatten and place in designated area for recycling.

1.8 EXTRA MATERIALS

- .1 All unused shingles remain property of owner.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Shingles: to CSA A123.1/A123.5/ASTM D3018.
 - .1 15 year warranty.
 - .2 FM 4473 Class 4 impact resistance rating.
 - .3 Type: self-seal.
 - .4 Mass: minimum 95 kg/3m² for type 1.
 - .5 Colours: black as selected by Departmental Representative.
 - .6 ASTM E108 Class A.
- .2 Ice and water shield: modified bitumen to CSA A123.2, Type M 20 kg.
 - .1 Roll roofing with self-adhesive backing (57 mil) 1.5 mm thickness.
- .3 Leading edge starter strip shingle as recommended by asphalt shingle supplier.
- .4 Asphaltic Cement:
 - .1 Plastic cement: to CAN/CGSB-37.5.
 - .2 Lap cement: to CAN/CGSB-37.4.
- .5 PVC drip edge: extruded profile of unplasticized polyvinyl chloride of minimum thickness of 0.8 mm.
- .6 Nails: to CSA B111, of galvanized steel, sufficient length to penetrate 19 mm into deck.
- .7 Staples: chisel point galvanized steel 25 mm crown 1.5 mm thick, sufficient length to penetrate 20 mm into deck tubelock nails for soffit substrates.
- .8 Ridge vent: 250 mm wide ridge cap exhaust vent 18.0 sq in./linear ft.

PART 3 - EXECUTION

3.1 APPLICATION

- .1 Do roof shingle work in accordance with CAN3-A123.51 CAN3-A123.52 CRCA Specification except where specified otherwise.
- .2 Install drip edge along eaves, overhanging 12 mm, with minimum 50 mm flange extending onto roof decking. Nail to deck at 400 mm on centre.
- .3 Install starter strip shingle.
- .4 Install ice and water shield over entire roof prior to installation of asphalt shingles.
- .5 Install shingles on roof slopes 1:3 and steeper in accordance with CAN3-A123.51.
- .6 Install ridge vent and cap with shingles.