

PART 1 - GENERAL

1.1 SECTION INCLUDES

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

1.2 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 35 43 - Environmental Procedures.
- .3 Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .4 Section 01 45 00 – Testing and Quality Control.
- .5 Section 01 61 00 - Common Product Requirements.
- .6 Section 01 78 00 - Closeout Submittals.

1.3 REFERENCES

- .1 Canadian Roofing Contractors' Association (CRCA).
 - .1 CRCA Roofing Specification Manual - 1997.
- .2 Canadian Standards Association (CSA International).
 - .1 CAN/CSA-A123.1/A123.5-(R2010), Asphalt Shingles Made From Organic Felt and Surfaced With Mineral Granules/Asphalt Shingles Made From Glass Felt and Surfaced With Mineral Granules.
 - .2 CAN/CSA-A123.3-05(R2010), Asphalt Saturated Organic Roofing Felt.
 - .3 CAN3-A123.51-M85 (R2011), Asphalt Shingle Application on Roof Slopes 1:3 and Steeper.
 - .4 CSA B111-1974 (R12003), Wire Nails, Spikes and Staples.
- .3 Health Canada/Workplace Hazardous Materials Information System (WHMIS).
 - .1 Material Safety Data Sheets (MSDS).

1.4 SUBMITTALS

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

1.5 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.

1.6 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 and 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.
 - .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.
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- .7 Fold up metal banding, flatten and place in designated area for recycling.

1.7 EXTRA MATERIALS

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

1.8 MEASUREMENT FOR PAYMENT

- .1 No separate measurement for payment shall be made for items under this section. Include costs incidental in the Lump Sum Amount of work on the Combined Price Form.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Fiberglass asphalt shingles: to CSA A123.1, A123.5.
- .1 Type: three tab, strip self-seal, standard pattern.
 - .2 Colours: to be selected by Departmental Representative.
 - .3 Texture: to be selected by Departmental Representative.
 - .4 Warranty: limited, 30 years.
- .2 Roofing underlayment: self adhesive rubberized asphalt adhesive backed by a layer of high density cross laminated polyethylene membrane, 1.02 mm thick.
- .3 PVC drip edge: extruded profile of unplasticized polyvinyl chloride of minimum thickness of 0.8 mm.
- .4 Nails: to CSA B111, of galvanized steel aluminum, sufficient length to penetrate 19 mm into deck.
- .5 Cement: Plastic cement to CAN/CGSB-37.5.

PART 3 – EXECUTION

3.1 REMOVAL OF EXISTING ROOFING

- .1 Remove existing roofing, flashings and underlay, and expose sheathing or shingle lath of roof.
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- .2 Withdraw existing shingle and flashing nails, set those which break off. Leave surfaces free from dirt and loose material.
- .3 Departmental Representative to inspect roof sheathing.
- .4 Remove portion of sheathing affected by fungal or insect attack as directed by Departmental Representative.
- .5 Replace cut out portions of sheathing or lath with sheathing of equal sectional dimensions, and specified grade. Seat each end on rafter, with 25 mm bearing, and secure to rafter.

3.2 APPLICATION

- .1 Do asphalt 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 roofing underlayment over roof area.
- .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.