

**Norway House Hospital Residences and out buildings
Asphalt Shingle replacement.**

ASPHALT SHINGLES
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1 General

1.1 SECTION INCLUDES

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

1.2 RELATED SECTIONS

- .1 Section 01355 - Waste Management Disposal.
- .2 Section 01357 - Hazardous Materials.

1.3 REFERENCES

- .1 Canadian Roofing Contractors' Association (CRCA).
 - .1 CRCA Roofing Specification Manual - 2012
 - .2 Product : IKO Cambridge AR Fiberglass Laminate shingle or approved equal, product literature and Technical Data to be submitted.
- .2 Canadian Standards Association (CSA International).
 - .1 Standards:ASTM D3462
 - .2 ASTM D3018
 - .3 ASTM D3161- Class F
 - .4 ASTM E108 - Class A
 - .5 ASTM D7158 - Class H
 - .6 CSA A123.5
 - .7 CSA A123.51
 - .8 CSA A123.52
- .1 Health Canada/Workplace Hazardous Materials Information System (WHMIS).
 - .1 Material Safety Data Sheets (MSDS).

1.4 SUBMITTALS

- .1 Submit WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01357 - Hazardous Materials. WHMIS acceptable to Health Canada for asphalt shingles.
- .2 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

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- .1 Deliver, handle, store and protect materials in accordance manufacturers requirements.
 - .2 Provide and maintain dry, off-ground weatherproof storage.
- 1.6 WASTE MANAGEMENT AND DISPOSAL: All waste materials to be removed from site.
Handle waste materials not reused, salvaged, or recycled in accordance with appropriate regulations and codes.
- 2 Products
MATERIALS:
- .1
Asphalt shingles: to CSA A123.1/A123.5.
 - .1 Type: pattern rectangular.
 - .2 Fiberglass Laminate shingles.
 - .4 Colours: To be chosen at time of Award from Winnipeg Stock as manufactured by IKO or approved equivalent.
 - .2 Asphaltic Cement: Fibergum or equal

Drip edge: extruded profile of prefinished aluminum of minimum thickness of 0.8 mm.
Colour to match existing fascia.
 - .4 Nails: to CSA B111, of aluminum, sufficient length to penetrate 19 mm into deck.
- 3 Execution
- 3.1 REMOVAL OF EXISTING ROOFING, Remove existing roofing, flashings and underlay, and expose sheathing or shingle lath of roof.
 - .2 Withdraw existing shingle and flashing nails, set those which break off. Leave surfaces free from dirt and loose material.
 - .3 Replace cut out portions of sheathing or lath with sheathing of equal sectional dimensions, and specified grade. Seat each end on rafter, with 19 mm bearing, and secure to rafter.
 - 3.2 APPLICATION: Do asphalt shingle work in accordance with manufactures instructions except where specified otherwise.
 - .2 Supply and install 3 courses of ice and water shield membrane horizontally on both sides of roof at eaves, and in valleys on wood deck.

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- .3 Supply and install Synthetic Roofing Underlayment to balance of wood deck.
IKO-Roof Guard-cool grey, or Resisto, or approved equal.
- .4 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.
- .5 Install bottom step flashing (soaker base flashing) interleaved between shingles at vertical junctions.
- .6 Tab all shingles with plastic asphalt cement to CGSB 37-GP-5M. Use Fibergum or equal.

END OF SECTION