

FORM 486



GOVERNMENT OF NEWFOUNDLAND AND LABRADOR
Department of Transportation and Works
Highway Design Division

SECTION 486 INSTALLATION OF ASPHALT GUTTER

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486.01 SCOPE

This specification covers the requirements for the installation of asphalt gutter. See Form 1273 "Asphalt Gutter".

486.02 MATERIALS

Material for use in constructing the asphalt gutter shall comprise hot asphaltic mix conforming to the requirements for surface course, as set forth in Section 330 "Hot Mix Asphaltic Concrete".

Emulsion to finish the surface of the gutter shall comprise: undiluted SS-1h conforming to ASTM D977-85, or RS-1k emulsion conforming to ASTM D977-85.

486.03 EQUIPMENT

The hand operated roller for compacting shall weigh not less than 135 kg.

486.04 CONSTRUCTION

The gutter shall have the section as shown in Form 1273 "Asphalt Gutter", or as required by the Engineer. The gutter shall be constructed to the lines required by the Engineer.

Should Selected Granular Base Course Class "A", not be present where it is required to place asphalt gutter, then Excavation for Foundations operations shall be carried out to facilitate the placing of Class "A". The Class "A" shall be placed to the required lines and contoured to the required section. Hand work may be required to obtain the required section and smooth lines.

The Class "A" shall be compacted using the hand operated roller. However, in areas that cannot be reached by the roller, the compaction shall be carried out with hand tampers.

Asphalt shall not be placed until the Class "A" has been contoured to the required smooth lines and section, and compacted.

The asphaltic mix shall be placed to the required smooth lines, thickness and width with the use of a mold to attain the required gutter shape. The asphalt gutter shall be constructed using the approved asphalt paver and template. The asphaltic mix shall be placed to the dimensions after compaction, as shown on Form 1273 "Asphalt Gutter". The asphaltic gutter shall be constructed to the lines required by the Engineer.

Asphaltic mix shall not be placed unless the surface is dry and the air temperature is at least 7°C.

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The asphalt gutter shall be compacted using the hand operated roller. However, in areas that cannot be reached by the roller, the compaction shall be carried out with hot hand tampers.

The surface of the asphalt gutter after compaction shall be of uniform texture, smooth and true to the required lines and section. The finished surface shall be free from depressions exceeding 3 mm as measured from the bottom edge of a 3 m straight edge placed anywhere along the surface of the gutter parallel to the edge. After the compacted asphalt gutter has cooled to ambient temperature, the Contractor shall spray the exposed surface with emulsion. The emulsion shall be applied before the surface becomes contaminated by any material which would prevent bond. Where SS-1h emulsion is used, undiluted SS-1h shall be applied at the rate of 0.5 ℓ/m^2 . Where RS-1k emulsion is used the rate of application shall be 0.15 ℓ/m^2 .

486.05 MEASUREMENT FOR PAYMENT

Measurement for payment will be by the length and width as constructed according to the instructions of the Engineer, and such measurements will be computed into square metres, rounded to one decimal place.

486.06 BASIS OF PAYMENT

Payment at the contract price for installation of asphalt gutter shall be compensation in full for all labour, materials and use of equipment: to carry out such hand work as is required to place and contour the underlying Class "A" to the required smooth lines and section, to compact the Class "A", to construct the gutter to the required lines and section, to compact the gutter, to supply emulsion for finishing, and to finish the curb with emulsion.

The Contractor shall be deemed to have allowed in his prices for hand work, should hand work be necessary to complete the work as required.

However, payment for the actual supply of the surface course hot mix, and the Selected Granular Base Course Granular "A" , shall be in accordance with the provisions of Section 330 "Hot Mix Asphaltic Concrete", and Section 315 "Selected Granular Base Course" respectively.