

FORM 485



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

SECTION 485 INSTALLATION OF ASPHALT CURB

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485.01 SCOPE

This specification covers the requirements for the installation of asphalt curb on top of existing pavement. See Form 1274 "Asphalt Curb".

485.02 MATERIALS

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

Emulsion to prepare the paved shoulder for the curb and to be used in finishing the asphalt curb, shall comprise undiluted SS-1h emulsion conforming to ASTM D977-85, or RS-1k emulsion conforming to ASTM D977-85.

485.03 EQUIPMENT

The asphalt paver shall be supplied with a template capable of being attached to the paver so that the required cross section is provided.

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

The equipment shall meet the approval of the Engineer, before it may be used in the work.

485.04 CONSTRUCTION

If there is no existing paved shoulder on which to construct the asphalt curb, then paving operations to provide a paved shoulder shall be completed, before installing the asphalt curb.

The surface of the existing asphalt on which the asphalt curb is to be placed shall be cleaned, and all dirt, and all loose and broken materials shall be removed.

Should the pavement, where asphalt curb is to be placed, be older than one year, then treatment with emulsion will be required. The treatment shall extend for the full length of the proposed curb, and shall be of a width extending 150 mm, from the proposed back of the curb, towards the proposed front.

Where SS-1h emulsion is used, the SS-1h shall be applied undiluted, at the rate of 0.5 ℓ/m^2 . Where RS-1k emulsion is used, the RS-1k shall be applied at the rate of 0.15 ℓ/m^2 .

The emulsion shall be allowed to dry until it reaches the required state of tackiness before the curb is placed.

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

The asphalt curb 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 1274 "Asphalt Curb". The asphaltic curb shall be constructed to the lines required by the Engineer.

The asphalt curb 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 curb after compaction shall be of uniform texture, smooth and true to the required lines and cross 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 curb and parallel to the edge.

After the compacted asphalt curb has cooled to ambient temperature, the Contractor shall spray the exposed surfaces of the curb with emulsion to a distance 1500 mm beyond the front edge. 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/m². Where RS-1k emulsion is used the rate of application shall be 0.15 l/m².

485.05 MEASUREMENT FOR PAYMENT

Measurement for payment for the installation of asphalt curb, shall be the length in metres, rounded to one decimal place, as measured along the roadside face of the curb.

Curb installed outside of the lines required by the Engineer will not be measured for payment.

485.06 BASIS OF PAYMENT

Payment at the contract price for installation of asphalt, curb shall be compensation in full for all materials, labour, and use of equipment: to supply all materials including surface course asphaltic mix and emulsion, to clean the surface on which the curb is to be placed, to apply emulsion to the underlying shoulder, to construct the curb to the required lines and section, to compact the curb, 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 in places.

Should pavement be required to widen existing pavement to construct a base for the curb, then such pavement shall be compensated for separately, in accordance with the provisions of Section 330 "Hot Mix Asphaltic Concrete".