

SECTION 832 - SANDS FOR SPRAYED BITUMINOUS SURFACING

832.01 DESCRIPTION

This section covers the requirements relating to quality and supply of Classes 1 and 2 sands for use in sprayed bituminous surfacing.

The classes of sands to be supplied shall be as specified in the special clauses and/or the drawings and/or the schedule and/or the order.

832.02 DEFINITION

Sand

Sand is a product of rock weathering, substantially passing a 4.75 mm sieve, is generally siliceous, and is free from appreciable quantities of clay and silt. Sands used as cover material applied to a layer of bituminous binder consist mainly of particles between 5 mm and 0.075 mm in size.

832.03 MATERIALS SOURCE

Prior to commencement of work, the Contractor shall confirm the source from which the material will be obtained.

The Superintendent Council's approval shall be obtained prior to changing the source of material.

Source material which does not comply with specified requirements but from which sands of proven satisfactory performance have been produced may be accepted for use subject to the written approval of the Superintendent Council.

832.04 TESTING AND ACCEPTANCE OF SANDS

(a) General

Unless otherwise specified, testing of sands shall be based on lot testing. One sample shall be taken at random from each lot prior to delivery to stack sites. A lot shall consist of not more than 100 m² of sand which is uniform in appearance and is from the one source. Each lot shall be assigned a unique identification. The samples shall be taken not more than 30 days prior to delivery of material in the lot and tested for compliance with the specified requirements in Clause 832.04(b).

(b) Quality of Sands

- (i) Sands shall consist of hard, durable particles and shall be free from mica, clay lumps and organic matter.
- (ii) Sands shall have a Sand Equivalent value of not less than 80.
- (iii) Sands shall conform to the relevant grading requirements of Table 832.041.

Table 832.041 Grading Requirements for Sands (by mass)

Class	Percentage Passing						
	Sieve Size AS (mm)						
	9.50	4.75	2.36	1.18	0.600	0.15	0.075
1	100	85-100	55-80	25-50	0-20	0-5	0-2
2	100	85-100	70-95	50-85	20-50	0-10	0-2

832.05 DELIVERY

Delivery shall be made to stack sites as specified and shall be completed for each site by the date specified for that site, or by the date shown on the order, as appropriate. The Contractor shall give the Superintendent Council written notification of the identity of the lot from which delivery is made for each stack.

832.06 STACKS

Stacks shall be so placed that they do not unduly reduce sight distance at locations such as intersections and curves. Stacks shall not be placed under or immediately adjacent to electric power lines or under trees or structures where the overhead clearance is less than 6 m. Stacks shall be placed clear of the road formation, drains, gateways and side tracks and the toes of the stacks shall be not less than 1 m from any obstructions which could impede the operation of mechanical loading equipment.

Where sands from more than one lot are delivered to the same stack site, separate stacks shall be made for sands from each lot.

832.07 STACKING TO TEMPLATE

Unless otherwise directed or approved by the Superintendent Council, sand shall be stacked to one of the following templates.

Bed width 4.0 m, top width 1.0 m, vertical height 0.8 m (nominally 2.0 m² per metre run).

Bed width 5.0 m, top width 2.0 m, vertical height 1.0 m (nominally 3.5 m² per metre run).

832.08 MINIMUM TESTING REQUIREMENTS

The Contractor shall test the sands at a frequency which is sufficient to ensure that all materials supplied under the contract complies with the specified requirements but which is not less than that shown in Table 832.081.

Table 832.081

Test	Minimum Frequency of Testing
Grading	One per 1000 tonnes or part thereof
Sand Equivalent	At monthly intervals