



3400 - SPECIFICATION FOR BINDER, FILLER AND BLENDER SAND

3400.1 DESCRIPTION

- 3400.1.1 The work shall consist of removing overburden, excavating, screening if required, loading, and hauling binder, filler and blender sand; dumping and stockpiling or spreading the material at a mixing site, and adding the material at the screener, crusher, central mixing plant or on the road.

3400.2 MATERIALS

- 3400.2.1 Sources of the material will be made available to the Contractor by the Ministry.

3400.2.1.1 Binder, filler and blender sand sources are not definitely located.

- 3400.2.2 The material shall consist of fine graded mixtures of sand, silt, and/or clay and shall be free from organic or other deleterious material.

- 3400.2.3 The approximate sieve analysis and plasticity index requirements for the material shall be as designated in Table 3400.2.T1:

Table 3400.2.T1 – Binder, Filler And Blender Sand Properties

Sieve Designation	Percent by Weight Passing Canadian Metric Sieve Series		
	Binder	Filler	Blender Sand
5.0 mm	100	100	100
400 µm	100	90	25
71 µm	50	25	10
Maximum Plasticity Index	10	0	0

- 3400.2.4 The specified requirements for each material will be determined by the Engineer and will be controlled by the average sieve analysis and plasticity index of the crushed or screened aggregate to which the material is to be added.

3400.3 CONSTRUCTION

- 3400.3.1 To facilitate locating, testing, and acquiring the materials; the Contractor shall provide the Engineer with sufficient advance notice of mixing site locations.

- 3400.3.2 Overburden shall be removed from material deposits in accordance with Specification 2260 For Removal Of Overburden.

- 3400.3.3 The Engineer will determine if the binder, filler and blender sand shall be screened.

3400.3.3.1 The screen size shall be a 5 mm slotted screen unless otherwise authorized by the Engineer.

3400.3.3.2 Only material passing the designated screen will be considered binder, filler or blender sand.

3400.3.3.3 The Engineer will determine if a shredder or pulverizer shall be used to break down any clay lumps remaining in the binder, filler or blender sand after it is screened.

- 3400.3.4 Binder, filler and blender sand shall be hauled in accordance with Specification 2405 For Haul On The Basis Of The Kilometre.
- 3400.3.5 Stockpiles of binder, filler and blender sand shall be constructed in accordance with Specification 3600 For Stockpiling Aggregates, and shall be shaped to ensure maximum run-off of precipitation.
- 3400.3.6 Binder, filler and blender sand shall be added using a separate conveyor system.
- 3400.3.7 Binder, filler and blender sand feeds shall be accurately controlled and coordinated.
- 3400.3.8 The quantity of binder, filler and blender sand to be added will be determined by the Engineer in accordance with the requirements of the Final Product being produced.

3400.4 MEASUREMENT

- 3400.4.1 Binder, Filler And Blender Sand will be measured in tonnes.
- 3400.4.2 The haul distance for binder, filler and blender sand will be measured from the source to the mixing site on the basis of haul routes approved by the Engineer.

3400.5 PAYMENT

- 3400.5.1 Payment for Binder, Filler And Blender Sand will be at the applicable rate stipulated in the Special Provisions. The stipulated rate will be full compensation for completing the work except for those activities for which specific provision for payment is made in this section.
 - 3400.5.1.1 There will be no compensation for excess quantity of binder, filler and blender sand stockpiled at the mixing site; and its corresponding haul.
- 3400.5.2 Payment for Hauling Binder, Filler And Blender Sand will be at the applicable Standard Haul Rates as stipulated in the Special Provisions.
- 3400.5.3 If the Contract includes a bid item for Removal Of Overburden, payment will be made in accordance with Specification 2260 For Removal Of Overburden. Otherwise, payment for the Removal Of Overburden will be on an Extra Work basis.
- 3400.5.4 All work required for the shredding or pulverizing of binder, filler and blender sand shall be performed on an Extra Work basis.