Technical Specification

Transport and Main Roads Specifications
MRTS10 Plant-Mixed Lightly Bound Pavements

October 2017

Queensland Government

Moisture must be uniformly distributed within each layer at the time of compaction. At all times the moisture content of the material must be within the Contractor's nominated upper and lower moisture content limits.

8.2.6 Paving

Lightly bound pavements shall be constructed such that each individual layer is laid in one pass that meets the requirements of this Technical Specification without the addition of extra material except as detailed below.

The material laid ready for compaction shall not have any visible areas of segregation. Any segregated areas are to be removed and replaced with fresh mix prior to the commencement of compaction of the lot. Material removed for this reason shall be disposed of in accordance with Clause 10 of MRTS01 *Introduction to Technical Specifications* and shall trigger a nonconformance, under which the Contractor must identify the cause of the segregation and propose preventative action to prevent reoccurrence **Nonconformance**

8.2.7 Layer thicknesses

Individual compacted layer thicknesses shall be chosen to suit the construction process and the requirements of the Contract. Unless otherwise approved by the Administrator, the completed layer thicknesses (after compaction and surface preparation) shall be in accordance with Table 8.2.7.

Table 8.2.7 – Layer thickness requirements

Material	Minimum Value	Maximum Value
Lightly Bound Pavement Materials	125 mm	250 mm

Where multiple layers of the same lightly bound pavement material are placed together in a single course each layer shall be of equal thickness.

To achieve the minimum compaction standard specified, the Contractor may need to employ larger rollers than may normally be used.

Particularly where layer thickness are towards the maximum allowable limit, not less than one 21 tonne (minimum weight) vibrating steel drum roller should be used to compact plant-mixed lightly bound pavements, unless the Contractor can demonstrate that the required standards can be achieved with a smaller roller.

Additional rollers, including pneumatic tyred rollers, may also be used.

8.2.8 Surface finish

8.2.8.1 General

The finished surface of any lightly bound pavement layer shall:

- be hard and homogenous in appearance
- not be friable when subject to mechanical brooming