Stabilized Road Base

**length _____ mtr x width _____ mtr x depth _____ mm = _____ m³**

Example: length 1,000 mtr x width 6 mtr x depth 0.150 mm = 900 m³

_____ m³ x _____ ltr/m³ = _____ total ltrs (total ltrs for base road)

Example: 900 m³ x 4 ltr/m³ = 3,600 total ltrs (total ltrs for base road)

- Total liters of AGB is standard at 4 ltrs/m³. This can vary depending on conditions.
  - such as low amount of fines, extremely high amount of fines that create greater surface areas, steep incline, extremely heavy weight, etc.
- This (4ltrs of AGB) is then diluted for disbursing based on the correct OMC for depth of the road. Perform the OMC task. Understand that water is the vehicle that carries the AGB. The AGB needs to coat each particulate of the soil/sand.
- Check the equipment is the correct size for mixing the required quantities of AGB & H₂O for disbursing.
- Discuss and determine equipment’s ability to control distribution flow rates.

**OMC**

Calculate total amount of liquid required to achieve OMC, the point at which mixture is loose and saturated but not muddy. Refer to **Calculate current moisture content to OMC**

Total _____ ltrs/m³ for OMC minus _____ AGB ltrs/m³ = _____ ltrs of H₂O to be added

Example: Total 36 ltrs/m³ for OMC minus 4 AGB ltrs/m³ = 32 ltrs of H₂O to be added

The dilution rate of AGB:H₂O will then be 1:8.

**Distribution Flow Rate**

Formula: 1m (100) ÷ depth (mm) = %. This is % of a m³.

Example: 100 ÷ 0.150 = 6.66%, 100 ÷ 0.200 = 5.00%, 100 ÷ 0.100 = 10.00%

Total amount of AGB&H₂O/m³ divide by % = Distribution Flow Rate per m².

_____ total ltrs ÷ _____ % = _____ flow rate m²

Example: 36 total ltrs ÷ 6.66 = 5.4 ltr/m² distribution flow rate

(Alternate example: 22 total ltrs ÷ 6.66 = 3.30 ltr/m² distribution flow rate)

+/- is OK, always round up, wetter is better, as the soil/sand with the AGB:H₂O gets thoroughly mixed

**Topseal / Surface Coat**

**length _____ mtr x width _____ mtr = _____ m²**

Example: length 1,000 mtr x width 6 mtr = 6,000 m²

_____ m² x 0.25ltr = _____ AGB ltrs for topseal

Example: 6,000 m² x 0.25ltr = 1,500 AGB ltrs for topseal

Generally 0.25 ltr of AGB & 0.75 ltr of H₂O per m² is OK
At 1ltr of AGB&H₂O/m² the Topseal Flow Rate is 1ltr/m²