

## SECTION 405 - REGULATION GAP GRADED ASPHALT

~~##This section cross-references Section 407.~~

~~If Section 407 is relevant, it should be included in the specification.~~

~~If Section 407 is not included in the specification, all references to it should be struck out, ensuring that the remaining text is still coherent.~~

### 405.01 GENERAL

This section shall be read in conjunction with Section 407 - Hot Mix Asphalt and covers special requirements for Regulation Gap Graded Asphalt (RGG) that are in addition to or override the requirements of Section 407.

### 405.02 AGGREGATES

The properties of the aggregates used in RGG shall comply with the requirements for Type H asphalt as specified in Clause 407.03. Reclaimed Asphalt Pavement (RAP) may be recycled by adding it to new asphalt during the mixing process subject to meeting the requirements specified in Clause 407.09(a). The use of RAP in this asphalt mix is permitted however it is limited to the addition of up to 10% RAP.

### 405.03 BINDER

Binder used in RGG shall be Class 320 bitumen in accordance with Section 407.

### 405.04 MIX DESIGN

The mix to be used shall be a VicRoads registered mix and shall comply with the requirements of Clause 407.06. The Indirect Tensile Modulus of the mix is not required to be submitted.

### 405.05 MIX DESIGN REQUIREMENTS

(a) The grading limits in the job mix shall lie within the limits specified in Table 405.051 below:

**Table 405.051 Grading Limits for Aggregates (including any filler)**

Sieve Size Australian Standards (mm)	Percentage Passing (by mass)
9.5	100
6.7	90 - 100
4.75	72 - 84
2.36	39 - 49
1.18	27 - 37
0.600	21 - 31
0.300	17 - 23
0.150	9 - 15
0.075	6 - 12

- (b) The proportions of bitumen, air voids and aggregates and filler shall lie within the limits shown in Table 405.052 below:

**Table 405.052 Proportions of Bitumen and Air Voids**

<b>Material</b>	<b>Percentage (by mass)</b>
Binder Content	5.7 – 6.3
Air Voids	2 – 5

**405.06 FREQUENCY OF INSPECTION AND TESTING AT THE MIXING PLANT**

The production tolerances on the grading aim of the mix before compaction shall be as specified for Size 7 mm in Table 407.071. The frequency of inspection and testing at the mixing plant shall be in accordance with Clause 407.10.

**405.07 CONDITIONS FOR PLACING**

RGG shall be placed in accordance with Clause 407.12 for Wearing Courses.

- HP The placement of RGG shall not commence until approval to proceed is obtained from the Superintendent Council.**

**405.08 COMPACTION**

Compaction shall be achieved using not less than 3 passes with steel wheeled rollers with a minimum overall mass of 6 tonnes. The Contractor may use a multi-wheel roller for secondary rolling however multi-wheel rolling shall be discontinued if it results in any damage to the surface of the new asphalt mat. The Contractor shall use a multi-wheel roller for compaction of small areas where the steel wheeled roller is unable to compact the newly placed mix.