

Declaration of Performance

DoP/CQ/M7508

1	Unique identification of the product-type <p style="text-align: center;">M7508 Carnsew Quarry</p>																																																																																																																		
2	Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) <p style="text-align: center;">Asphaltic Concrete AC 6 dense surf 100/150</p>																																																																																																																		
3	Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: <p style="text-align: center;">Bituminous Mixtures : Asphaltic Concrete : Surface Course</p>																																																																																																																		
4	Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5): <p style="text-align: center;">Colas Ltd, Rowfant, Crawley, West Sussex RH10 4NF</p>																																																																																																																		
5	Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2): <p style="text-align: center;">Not Applicable</p>																																																																																																																		
6	System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V: <p style="text-align: center;">System 2+</p>																																																																																																																		
7	In case of the declaration of performance concerning a construction product covered by a harmonised standard: Notified factory production control certification body No. 0086 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control number 0086-CPD-590156.																																																																																																																		
8	Not Applicable																																																																																																																		
9	Declared Performance <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Essential characteristics</th> <th style="width: 40%;">Performance</th> <th style="width: 30%;">Harmonised Technical Specification EN</th> </tr> </thead> <tbody> <tr> <td>1. Adhesion of binder to aggregate 2. Stiffness 3. Resistance to permanent deformation 4. Resistance to fatigue 5. Skid resistance 6. Resistance to abrasion 7. Reaction to Fire 8. Dangerous substances 9. Durability 10. Noise Absorption</td> <td></td> <td style="text-align: center;">13108-1: 2006</td> </tr> <tr> <td>2, 3, 4, 5, 9, 10</td> <td> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Target grading passing sieve</th> </tr> <tr> <th style="text-align: center;">Sieve (mm)</th> <th style="text-align: center;">Passing (%)</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">10</td><td style="text-align: center;">100</td></tr> <tr><td style="text-align: center;">6.3</td><td style="text-align: center;">98</td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">47</td></tr> <tr><td style="text-align: center;">1</td><td style="text-align: center;">32</td></tr> <tr><td style="text-align: center;">0.25</td><td style="text-align: center;">15</td></tr> <tr><td style="text-align: center;">0.063</td><td style="text-align: center;">5</td></tr> </tbody> </table> </td> <td style="text-align: center;">EN 12697-1: 2012</td> </tr> <tr> <td>1, 2, 3, 4, 5, 6, 9, 10</td> <td>Target binder content (%)</td> <td style="text-align: center;">7.3</td> </tr> <tr> <td>1, 2, 3, 4, 5, 9, 10</td> <td>Minimum void content</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Maximum void content</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>2, 3, 4, 5, 9, 10</td> <td>Maximum Voids filled with Bitumen</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Minimum Voids filled with Bitumen</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Minimum Voids in Mineral Aggregate</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>3</td> <td>Minimum Marshall Stability</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Maximum Marshall Stability</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Minimum Marshall Flow</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Maximum Marshall Flow</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Minimum MQ</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Maximum MQ</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Resistance to Permanent Deformation</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>1, 9</td> <td>Water sensitivity</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>1, 2, 3, 4, 9</td> <td>Minimum temperature (°C)</td> <td style="text-align: center;">130</td> </tr> <tr> <td></td> <td>Maximum Temperature (°C)</td> <td style="text-align: center;">170</td> </tr> <tr> <td>2, 9</td> <td>Minimum Stiffness</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Maximum Stiffness</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>3, 9</td> <td>Maximum creep rate</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>4, 9</td> <td>Resistance to fatigue</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>6, 9</td> <td>Resistance to abrasion</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>7, 9</td> <td>Reaction to Fire</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>8, 9</td> <td>Dangerous substances</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td></td> <td>Mixture SATS durability index</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>9</td> <td>Low temperature property</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>9</td> <td>Fracture toughness</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>9</td> <td>Resistance to fuel for application on airfields</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>9</td> <td>Resistance to de-icing fluids for application on airfields</td> <td style="text-align: center;">NPD</td> </tr> <tr> <td>1, 4</td> <td>Binder Drainage</td> <td style="text-align: center;">NPD</td> </tr> </tbody> </table>			Essential characteristics	Performance	Harmonised Technical Specification EN	1. Adhesion of binder to aggregate 2. Stiffness 3. Resistance to permanent deformation 4. Resistance to fatigue 5. Skid resistance 6. Resistance to abrasion 7. Reaction to Fire 8. Dangerous substances 9. Durability 10. Noise Absorption		13108-1: 2006	2, 3, 4, 5, 9, 10	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Target grading passing sieve</th> </tr> <tr> <th style="text-align: center;">Sieve (mm)</th> <th style="text-align: center;">Passing (%)</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">10</td><td style="text-align: center;">100</td></tr> <tr><td style="text-align: center;">6.3</td><td style="text-align: center;">98</td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">47</td></tr> <tr><td style="text-align: center;">1</td><td style="text-align: center;">32</td></tr> <tr><td style="text-align: center;">0.25</td><td style="text-align: center;">15</td></tr> <tr><td style="text-align: center;">0.063</td><td style="text-align: center;">5</td></tr> </tbody> </table>	Target grading passing sieve		Sieve (mm)	Passing (%)	10	100	6.3	98	2	47	1	32	0.25	15	0.063	5	EN 12697-1: 2012	1, 2, 3, 4, 5, 6, 9, 10	Target binder content (%)	7.3	1, 2, 3, 4, 5, 9, 10	Minimum void content	NPD		Maximum void content	NPD	2, 3, 4, 5, 9, 10	Maximum Voids filled with Bitumen	NPD		Minimum Voids filled with Bitumen	NPD		Minimum Voids in Mineral Aggregate	NPD	3	Minimum Marshall Stability	NPD		Maximum Marshall Stability	NPD		Minimum Marshall Flow	NPD		Maximum Marshall Flow	NPD		Minimum MQ	NPD		Maximum MQ	NPD		Resistance to Permanent Deformation	NPD	1, 9	Water sensitivity	NPD	1, 2, 3, 4, 9	Minimum temperature (°C)	130		Maximum Temperature (°C)	170	2, 9	Minimum Stiffness	NPD		Maximum Stiffness	NPD	3, 9	Maximum creep rate	NPD	4, 9	Resistance to fatigue	NPD	6, 9	Resistance to abrasion	NPD	7, 9	Reaction to Fire	NPD	8, 9	Dangerous substances	NPD		Mixture SATS durability index	NPD	9	Low temperature property	NPD	9	Fracture toughness	NPD	9	Resistance to fuel for application on airfields	NPD	9	Resistance to de-icing fluids for application on airfields	NPD	1, 4	Binder Drainage	NPD
Essential characteristics	Performance	Harmonised Technical Specification EN																																																																																																																	
1. Adhesion of binder to aggregate 2. Stiffness 3. Resistance to permanent deformation 4. Resistance to fatigue 5. Skid resistance 6. Resistance to abrasion 7. Reaction to Fire 8. Dangerous substances 9. Durability 10. Noise Absorption		13108-1: 2006																																																																																																																	
2, 3, 4, 5, 9, 10	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Target grading passing sieve</th> </tr> <tr> <th style="text-align: center;">Sieve (mm)</th> <th style="text-align: center;">Passing (%)</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">10</td><td style="text-align: center;">100</td></tr> <tr><td style="text-align: center;">6.3</td><td style="text-align: center;">98</td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">47</td></tr> <tr><td style="text-align: center;">1</td><td style="text-align: center;">32</td></tr> <tr><td style="text-align: center;">0.25</td><td style="text-align: center;">15</td></tr> <tr><td style="text-align: center;">0.063</td><td style="text-align: center;">5</td></tr> </tbody> </table>	Target grading passing sieve		Sieve (mm)	Passing (%)	10	100	6.3	98	2	47	1	32	0.25	15	0.063	5	EN 12697-1: 2012																																																																																																	
Target grading passing sieve																																																																																																																			
Sieve (mm)	Passing (%)																																																																																																																		
10	100																																																																																																																		
6.3	98																																																																																																																		
2	47																																																																																																																		
1	32																																																																																																																		
0.25	15																																																																																																																		
0.063	5																																																																																																																		
1, 2, 3, 4, 5, 6, 9, 10	Target binder content (%)	7.3																																																																																																																	
1, 2, 3, 4, 5, 9, 10	Minimum void content	NPD																																																																																																																	
	Maximum void content	NPD																																																																																																																	
2, 3, 4, 5, 9, 10	Maximum Voids filled with Bitumen	NPD																																																																																																																	
	Minimum Voids filled with Bitumen	NPD																																																																																																																	
	Minimum Voids in Mineral Aggregate	NPD																																																																																																																	
3	Minimum Marshall Stability	NPD																																																																																																																	
	Maximum Marshall Stability	NPD																																																																																																																	
	Minimum Marshall Flow	NPD																																																																																																																	
	Maximum Marshall Flow	NPD																																																																																																																	
	Minimum MQ	NPD																																																																																																																	
	Maximum MQ	NPD																																																																																																																	
	Resistance to Permanent Deformation	NPD																																																																																																																	
1, 9	Water sensitivity	NPD																																																																																																																	
1, 2, 3, 4, 9	Minimum temperature (°C)	130																																																																																																																	
	Maximum Temperature (°C)	170																																																																																																																	
2, 9	Minimum Stiffness	NPD																																																																																																																	
	Maximum Stiffness	NPD																																																																																																																	
3, 9	Maximum creep rate	NPD																																																																																																																	
4, 9	Resistance to fatigue	NPD																																																																																																																	
6, 9	Resistance to abrasion	NPD																																																																																																																	
7, 9	Reaction to Fire	NPD																																																																																																																	
8, 9	Dangerous substances	NPD																																																																																																																	
	Mixture SATS durability index	NPD																																																																																																																	
9	Low temperature property	NPD																																																																																																																	
9	Fracture toughness	NPD																																																																																																																	
9	Resistance to fuel for application on airfields	NPD																																																																																																																	
9	Resistance to de-icing fluids for application on airfields	NPD																																																																																																																	
1, 4	Binder Drainage	NPD																																																																																																																	
10	The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.																																																																																																																		
Signed for and on behalf of the manufacturer by:																																																																																																																			
Name & Function		Carl Fergusson	Director - Airports, Asphalt & projects																																																																																																																
Place & Date of Issue		Carnsew Quarry	07 July 2014																																																																																																																
Signature																																																																																																																			