

**MULTI-PARTY FRAMEWORK AGREEMENT FOR
PAVEMENT AND ASSOCIATED WORKS 2026 FOR
TIPPERARY COUNTY COUNCIL**

**FRAMEWORK WILL BE ESTABLISHED INITIALLY
FOR 12 MONTHS WITH THE OPTION TO EXTEND
FOR A FURTHER 2 PERIODS OF 12 MONTHS.**

**Volume C - Preamble to the Revised Pricing
Document**



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1. Definitions

The Requirements for Measuring and Pricing (RMP) in TII Publications (Standards) is published as a collective group of documents under the Construction and Commissioning activity within the TII Publications system. Unless the context otherwise requires within the RMP, the following words and expressions shall have the meanings hereby respectively assigned to them, that is to say:

- a) "Conditions of Contract" means the Conditions included in the Contract;
- b) words and expressions to which meanings are assigned in the Conditions of Contract have the same meanings in the RMP;
- c) words and expressions to which meanings are assigned in the Specification and Drawings referred to in the Conditions of Contract have the same meanings in the RMP;
- d) "Bill of Quantities" means a list of items giving brief identifying descriptions and estimated quantities of work comprised in the execution of the works to be performed;
- e) "Preliminary Item" means an item in respect of works, general obligations and risks antecedent to or involved in the execution of the Contract and which is set out in a "Preliminaries" section of the Bill of Quantities;
- f) "Finishings" means the miscellaneous surfacings, furniture and ancillary features that are added to any part of a structure;
- g) "Existing Ground Level" means the level of the ground before any work under the Contract is carried out;
- h) "Hard Material" means one or both of the following:
 - i. material so designated in the Preambles to Bill of Quantities;
 - ii. material which requires the use of blasting, breakers or splitters for its removal but excluding individual masses less than 0.20 cubic metres
- i) "Culvert" means an enclosed channel or pipe designated as a culvert in the Contract;
- j) "Type of Pavement" means one of the following designs of pavement
 - k) flexible;
 - l) flexible composite;
 - m) rigid;
- n) "Designated Outline" means the designated outline shown on the Drawings;
- o) "Drawings" means "drawings in the Contract".

Note: A Designated Outline is shown as enclosing each structure to be designed by the Contractor and each structure for which a choice of designs is offered. The Designated Outline delineates the limits of measurement of work to be included for each structure (with the exception of those works scheduled as not to be included).

2. Preambles to Bill of Quantities

General Directions

1. The Requirements for Measuring and Pricing (RMP) in TII Publications (Standards) is published as a collective group of documents under the Construction and Commissioning activity within the TII Publications system. The Bill of Quantities has been prepared in accordance with the RMP
2. In the Bill of Quantities, the sub-headings and item descriptions identify the work covered by the respective items, read in conjunction with the matters listed against the relevant marginal headings "Item Coverage" in the different parts of the RMP, these Preambles and the amendments to the RMP immediately following these Preambles. The nature and extent of the work is to be ascertained by reference to the Works Requirements and Contract Conditions. The rates and prices entered in the Bill of Quantities shall be deemed to be the full inclusive value of the work covered by the several items including the following, unless expressly stated otherwise:
 - (i) Labour and costs in connection therewith.
 - (ii) The supply of materials, goods, storage and costs in connection therewith including delivery to Site. Taking delivery of materials and goods supplied by others, unloading, storage, and costs in connection therewith.
 - (iii) Plant and costs in connection therewith.
 - (iv) (Fixing, erecting and installing or placing of materials and goods in position.
 - (v) Temporary Works.
 - (vi) The effect on the phasing of the Works or any element of the Works to the extent set forth or reasonably implied in the documents on which the tender is based.
 - (vii) General obligations, liabilities and risks involved in the execution of the Works set forth or reasonably implied in the documents on which the tender is based.
 - (viii) Establishment charges, overheads and profit.

- (ix) Waste.
- (x) Attendance and transport for sampling and testing carried out by the Employer's Representative, tests carried out by the Contractor, supplying results of tests carried out by the Contractor and providing test certificates.
- (xi) Supply and delivery of samples to the Employers Representative in accordance with the particular requirements of Appendix 1/6.
- (xii) Complying with Quality Assurance schemes and providing certificates of conformity. (xiii) Preparation and supply of detailed working drawings.
- (xiii) Awaiting approvals and or consents

Measurement

The measurement of work shall be computed net from the dimensions stated in the Contract unless otherwise stated in the RMP. Where the tender documents provide for the Contractor to select the type of buried structure (where the structure is not within Designated Outlines) to be constructed then the measurement of all work in each area so affected shall be based upon the thinnest pavement construction and surfacing over structures permitted by the Contract in that area for the particular type of buried structure the Contractor has elected to construct.

Pricing of Items

Each individual item shall have a rate or price entered against it. Rates and prices shall be expressed to two decimal places. Reserved Sums and Contract Sums for Specialists will be provided by the Contracting Authority. Prices entered for attendance and management of specialist works will remain as tendered, even after the Reserved Sums are replaced with actual sums following the tendering of specialists works. These prices may not be less than zero.

Alternative Specified Materials, Designs and Options Within Types of Pavement

Not Use

Privately and Publicly Owned Services or Supplies

The information in the Contract as to the whereabouts of existing services and mains is believed to be correct but the Contractor shall not be relieved thereby of his obligations under the Contract. The Contractor shall include in his rates and prices for locating and taking measures for the support and full protection of pipes, cables and other apparatus during the progress of the Works, obtaining the written consent of the appropriate authority to interrupt the service or supply and for keeping the Employer's Representative informed of all arrangements he makes with the owners of privately owned services or supplies, Statutory Undertakers and Public Authorities as appropriate.

Labours

Not Used

Roadworks Overall Requirements

The Contractor shall allow in his rates and prices for complying with requirements in respect of pavement construction, horizontal alignments, surface levels and surface regularity of pavement courses, cold weather working, use of surfaces by traffic and construction plant, and general requirements for sub-bases and bases.

Works Within and Below Any Water Condition

The Contractor shall allow in his prices for any items of structures designed by the Contractor provided under CC-RMP-2500, for taking measures required to execute work in any condition where there is a presence of any type of water.

Dealing with Flow

1. The Contractor shall allow in his rates and prices for taking measures to deal with the existing flow of water, sewage and the like.
2. Not Used

Site Limitations and Constraints

The Contractor shall allow in his rates and prices for complying with any limitations and constraints on the use of the Site.

Hard Material

For the purposes of the Contract the following are designated as Hard Material in accordance with Section 2 Definitions, paragraph 1(i)(i):

- a) rock strata;
- b) those deposits designated by limits shown on the Drawings;

- c) existing pavements, footways, paved areas (but excluding unbound materials) and foundations in masses in excess of 0.20 cubic metres.

Equivalent Products and Materials

1. Where the Contractor offers an equivalent product or material in place of the one identified or specified, which is accepted for incorporation into the Works by the Employer's Representative, then the rates and prices in the Bill of Quantities shall be deemed to include for all the obligations and costs associated with the incorporation of the equivalent into the Works, including design, provision of data and drawings, certificates, awaiting approvals, resubmissions and modifications and amendments to the Works.
2. Unless specifically stated to the contrary in the Contract the measurement of the Works affected by the incorporation of the equivalent products and materials shall be based on the Tender documents and not on the Works as amended and completed to incorporate the equivalent products and materials.

Permanent Works Designed by the Contractor

Where the Contract requires part(s) of the Works to be designed by the Contractor, the rates and prices in the Bill of Quantities shall include for all the obligations and costs associated with the incorporation of the Contractor's design into the Works, including design, provision of data and drawings, certificates, awaiting approvals, resubmissions and modifications and amendments to the Works

Structures Designed by the Contractor

Earthworks within the Designated Outlines shall not be included by the Employer in the earthworks schedules.

Alterations for Road Authorities

Not Used

Amendments to the Requirements for Measuring and Pricing

For the purposes of the Contract the Requirements for Measuring and Pricing is amended in accordance with the pages immediately following

3. Amendments to the Requirements for Measuring and Pricing

Series 100: Preliminaries

Traffic Safety and Management

Itemisation 29

Additional Separate items shall be provided Appointment as Project Supervisor for the Construction Stage in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
II	1 for a Project to the value of less than €10,000.00
	2 for a Project to the value between €10,000.00 and €100,000.00
	3 for a Project to the value > €100,000.00
	4. No entry

Item Coverage 30

Add the following to Item Coverage in paragraph 30:

(t) Procurement and installation of variable message signage as per Appendix 1/17

(v) Maintenance and upkeep of variable message signage prior to and during the works

(w) Agreement with Employer's Representative of content of messages on variable message signage;

(x) Removal of variable message signage at end of Works;

(y) Production of Site Traffic Management File

(z) Designed by competent personnel in accordance with Chapter 8 of the Traffic Signs Manual and operated by competent personnel.

Temporary Diversion for Traffic

Item Coverage 37

Add the following to Item Coverage in paragraph 37:

- (k) Production of Site Traffic Management File
- (l) Procurement and installation of variable message signage as per Appendix 1/17
- (m) Maintenance and upkeep of variable message signage prior to and during the works
- (n) Agreement with Employer's Representative of content of messages on variable message signage;
- (o) Removal of variable message signage at end of Works;
- (p) Designed by competent personnel in accordance with Chapter 8 of the Traffic Signs Manual and operated by competent personnel.

Road Sweeping and Cleaning

Unit 47 The unit of measurement shall be:

(i) Road Sweeping and cleaning.... Per/day

Project Supervisor for the Construction Stage

Itemisation 64

Additional Separate items shall be provided for Appointment as Project Supervisor for the Construction Stage in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
I	2 Acceptance of Appointment as Project Supervisor for the Construction Stage for a Project to the value of less than €10,000.00
	3 Acceptance of Appointment as Project Supervisor for the Construction Stage for a Project to the value between €10,000.00 and €100,000.00
	4 Acceptance of Appointment as Project Supervisor for the Construction Stage for a Project to the value > €100,000.00

Add the following paragraphs 82, 83, 84, 85, 86,86,88,89,90, 91,92,93,94,95,96,97,98,99,100,101

TCC Branding & Signage

Unit	82	The unit of measurement shall be: (i) Supply install and maintain all TCC branding and signage..... item
Measurement	83	TCC branding and signage shall be measured once only.
Itemisation	84	Separate items shall be provided for TCC Branding and signage in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
I	1 Supply install and maintain all TCC branding and signage as per as per Appendix 12/1

TCC Branding & Signage

The items for TCC Branding & Signage in accordance with the

Preambles to the Bill of Quantities General Direction include
for:

Item coverage 85

- (a) Manufacture, Supply install and maintain all TCC branding and Signage.
- (b) take up or down and set aside for reuse or remove to store off Site (CC-RMP-00200 paragraph 11);
- (c) maintaining and servicing equipment.
- (d) compliance with the Traffic Signs Manual.

Extra over for series 100 works outside of normal working hours (as commonly referred to as nightworks) as directed by the Employers Representative.

Unit 86 The unit of measurement shall be:

- (i) Extra over for series 100 works outside of normal working hours (*as commonly referred to as nightworks*) as directed by the Employers Representative..... %

Measurement 87

Extra over for series 100 works outside of normal working hours (as commonly referred to as nightworks) as directed by the Employers Representative shall be measured once only.

Itemisation 88

Separate items shall be provided Extra over for series 100 works outside of normal working hours (as commonly referred to as nightworks) as directed by the Employers Representative shall be measured once only in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
I	1 Extra over for series 100 works outside of normal working hours (as commonly referred to as nightworks) as directed by the Employers

Representative shall be measured once only.

Extra over for series 100 works outside of normal working hours (as commonly referred to as nightworks) a as directed by the Employers Representative

The items for Extra over for series 100 works outside of normal working hours (as commonly referred to as nightworks) as directed by the Employers Representative shall be measured once only in accordance with the Preambles to the Bill of Quantities General Direction include for:

Item coverage	89	(a) As per the relevant item coverage for the relevant rate/item as per CC-RMP-100, CC-RMP-200, CC-RMP-600, CC-RMP-700, rate/item as per CC-RMP-1200.
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Series 600 – Earthworks

Geotextile

Itemisation 59

Additional Separate items shall be provided in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
III	(or similar approved) as per Appendix 6.5 and table 6.5.3
	(or similar approved) as per Appendix 6.5 and table 6.5.2
	or similar approved) as per APPENDIX 6/5 and table 5.5.1, with Self Adhesive Coating

Geotextile

Add the following to Item Coverage in paragraph 46

Item coverage 60-

(i) installation in line with manufacturer's instructions and specifications.

Series 700 Pavements

Sub-base

Itemisation

4

Additional Separate items shall be provided for Sub-base in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
III	1. 0- 150m3
	2. 151- 300m3
	3. > 300m3
	4. 0- 15m3
	5. 16 - 30m3

Pavement

Itemisation

8

Additional Separate items shall be provided for Pavement in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
VI	6.to provide access at entrances to level of new works
VIII	7. to restore hardcore entrances and frontage to new works level
	1. 0- 500m2
	2. 501-2000m2
	3 > 2000m2
	4 0- 150m2
	5. 151 - 500m2
	6.>500m2
	7. 0-50m2
	8. >50m2

Regulating Course

Unit

10

Change the following unit of measurement in paragraph 10:

- (i) cement bound regulating material..... tonnes

Itemisation 13

Additional Separate items shall be provided for Regulating Course in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
II III	6. No Entry
	1. conversion factor 0.43 cubic metres per tonne
IV	2. No Entry
	3. 0-300T
	4. >300T

Surface Treatment

Itemisation 18

Additional Separate items shall be provided for Surface Treatment in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
V	1.No Entry
	2.For Cycleways
VI	1. 0- 50m2
	2. 50-500m2
	2. > 500m2

Cold Milling

Itemisation 28

Additional Separate items shall be provided for Cold Milling in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
III	1. 0- 50m2
	2. 50-500m2

3. > 500m2

Repair System

Itemisation 49

Separate items shall be provided for in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
VI	4. In inlay
VII	1. 0 to 25 m2
	2. 25 to 100 m2
	3.> 100 m2

Repair System

Add the following to Item Coverage in paragraph 50 Item coverage

(o) roll formation and blind as required.

Sampling of the existing pavement and laboratory testing in accordance with the specification CCMA guidance document for LA'S on Management of materials arising from Roadworks

Units 51 The unit of measurement shall be:

(i) Sampling of the existing pavement and laboratory testing in accordance with the Specification & CCMA guidance document for LA'S on Management of materials arising from Roadworks... item

Measurement 52 Sampling of the existing pavement and laboratory testing in accordance with specification & CCMA guidance document for LA'S on Management of materials arising from Roadworks shall be measured once only.

Itemisation 53 Separate items shall be provided for in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
I	1 Sampling of the existing pavement and laboratory testing in

accordance with the Specification & CCMA guidance document for LA'S on Management of materials arising from Roadworks

Sampling of the existing pavement and laboratory testing in accordance with the specification, CCMA guidance document for LA'S on Management of materials arising from Roadworks

Item coverage	54	The items for Sampling of the existing pavement and laboratory testing in accordance with the specification CCMA guidance document for LA'S on Management of materials arising from Roadworks in accordance with the Preambles to the Bill of Quantities General Directions include for (a) Sampling of the existing pavement and laboratory testing in accordance with the specification & CCMA guidance document for LA'S on Management of materials arising from Roadworks. (b) Sampling to be in accordance with Appendix 1 Environmental Sampling and Analysis Protocol for further use of reclaimed asphalt planings (RAP) (c) The following tests shall be carried out. • Solvent Extraction Method (Dichloromethane or similar solvent); • SARA by Iatroscan – Saturates (lube oil), Aromatics, Resins, Asphaltenes; • SVOC forensic scan including Alkylated Naphthalene series (biomarkers) and 16 PAHs; and • Reporting of above results including classification of coal tar as present/absent and estimate of coal tar (%). (d) Testing to be in accordance with • Transport Infrastructure Ireland (TII), Specification for Road Works Series 900 - Road Pavements – Bituminous Materials (CC-SPW-00900). • Transport Infrastructure Ireland (TII), Specification for Road Works Series 800 - Road Pavements – Unbound and Cement Bound Mixtures (CCSPW-00800).
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Rebate for haulage of Wet Mix UGM A (formerly Clause 806) to site by Council's own transport

Units	55	The unit of measurement shall be: (i) Rebate for haulage of Wet Mix UGMA (formerly Clause 806) to site by Council's own transport..... tonnes
Measurement	56	Rebate for haulage of Wet Mix UGMA (formerly Clause 806) to site by Council's own transport shall be measured once only.
Itemisation	57	Separate items shall be provided for in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
I	1 No Entry

Rebate for haulage of items *Wet Mix UGMA* (formerly Clause 806) to site by Council's own transport

The items for Rebate for haulage of items Wet Mix UGMA (formerly Clause 806) to site by Council's own transport in accordance with the Preambles to the Bill of Quantities General Direction include for:

Item coverage	58	(a) loading into transport; (b) multiple handling of material; (c) selection and separation of materials; (d) keeping materials free of water; (e) haulage and deposition in temporary stockpiles including the provision of sites for stockpiles;
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Extra over rate

Units	59	The unit of measurement shall be: (i) Extra over rate..... m2
Measurement	60	Extra over rate shall be measured once only.
Itemisation	61	

Separate items shall be provided for in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
I	1 for SMA surfaces for aggregates specified as > 65 PSV dec
	2.for HRA surfaces for chippings specified as > 65 PSV dec

Extra over rate

The items for in accordance with the Preambles to the Bill of Quantities General Direction include for:

Item coverage 62 The items for Extra over rate in accordance with the Preambles to the Bill of Quantities General Directions include for: As per paragraph 9 of CC-RMP-00700

Prepare a report for samples taken (700/56) to identify inert/reusable materials and or the presence of hazardous materials not for reuse.

Units 63 The unit of measurement shall be:
(i) Prepare a report for samples taken (700/56) to identify inert/reusable materials and or the presence of hazardous materials not for reuse... item

Measurement identify 64 Prepare a report for samples taken (700/56) to

inert/reusable materials and or the presence of hazardous materials not for reuse shall be measured once only.

Itemisation 65 Separate items shall be provided for in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
I	1 Prepare a report for samples taken (700/56) to identify inert/reusable materials and or

the presence of hazardous materials not for reuse
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Prepare a report for samples taken (700/56) to identify inert/reusable materials and or the presence of hazardous materials not for reuse.

Item coverage 66

The items for Prepare a report for samples taken (700/56) to identify inert/reusable materials and or the presence of hazardous materials not for reuse in accordance with the Preambles to the Bill of Quantities General Directions include for:

- (a) As per paragraph 9 of CC-RMP-00700
- (b) Prepare a report for samples taken (700/56) to identify inert/reusable materials and or the presence of hazardous materials not for reuse.
- (c) The laboratory carrying out analysis shall be accredited to INAB/UKAS or similar.
- (d) Chemical analysis reporting shall be in final format to MCERTS accreditation or similar.

Warm Mix Asphalt

Warm Mix Asphalt (WMA) is a bituminous mixture that incorporates a chemical or organic additive which allows the material to be manufactured at lower production temperatures. Warm Mix Asphalt is produced and applied at a temperature around 20 – 40 °C lower than an equivalent “Hot Mix Asphalt” (HMA). This reduces the amount of fuel required to dry and heat the aggregates in the bituminous material, resulting in lower energy consumption and lower CO2 emissions. Specifications for Warm Mix Asphalt are set out in *TII’s CC-SPW-00900* [7].

The additive is the only compositional difference between the HMA and WMA mixtures. Warm Mix Asphalts are widely used across Europe and since 2021, Highways England has been requesting all those involved in

the construction and maintenance of the strategic road network, to use warm mix asphalts as part of its Net Zero Plan [8]. Furthermore, DOT's recent ***Circular RW 12/2024*** encourages Local Authorities to specify warm mix asphalt in a minimum of 25% of their 2025 regional and local road maintenance programmes where Stone Masic Asphalt or Asphalt Concrete is being proposed, increasing to a minimum of 50% in 2026.

SUMMARY WARM MIX ASPHALT	
BENEFITS	RESTRICTIONS
No changes to the traditional hot mix process except the addition of an additive	Not permitted for HRA or PA surface courses
Existing TII Specifications -Series 900 specifications in place for warm mix	
Case Study 2 indicates that the use of warm mix may achieve carbon savings over the use of hot mix. The carbon savings may be increased through the additional use of Reclaimed Asphalt (RA)	
Reduction in VOCs (Smoke) at work site	
Cost Neutral to the Local Authority	
Suitable & permitted in base, binder courses and SMA surface course	

Table 8 Stone Mastic Asphalt – Product Composition and Properties

hEN reference	EN 13108 – 5 Stone Mastic Asphalt						
Table column reference	1	2	3	4	5	6	7
Layer	Binder	Binder	Binder	Surface	Surface	Surface	Surface
Mixture designation	SMA 14 bin des	SMA 10 bin des	SMA 6 bin des	SMA 14 surf des	SMA 10 surf des	SMA 14 surf des	SMA 10 surf des
Sieve Size	% by mass passing						
20	100			100		100	
14	90 to 100	100		90 to 100	100	90 to 100	100
10	35 to 60	90 to 100	100	35 to 60	90 to 100	35 to 60	90 to 100
6,3	20 to 45	30 to 55	90 to 100	20 to 45	30 to 55	20 to 45	30 to 55
4			22 to 45				
2	15 to 30	20 to 35	20 to 34	15 to 30	20 to 35	15 to 30	20 to 35
0,063	6 to 12	6 to 12	8 to 14	6 to 12	6 to 12	6 to 12	6 to 12
Binder content B _{min} ¹							
Paving grade	5,6	5,8	6,0			5,6	5,8
PMB 65/105-60	5,4	5,6	5,8	5,6	5,8		
Binder grade							
40/60	✓	✓	✓			✓	✓
70/100	✓	✓	✓				
PMB 65/105-60	✓	✓	✓	✓	✓		
Additives							
Stabilising additives (fibres) % by mass	0,3 to 1,5	0,3 to 1,5	0,3 to 1,5			0,3 to 1,5	0,3 to 1,5
Properties							
Binder drainage ²	D _{0,3}	D _{0,3}	D _{0,3}	D _{0,3}	D _{0,3}	D _{0,3}	D _{0,3}
Air Void content minimum ³	V _{min} 2,0	V _{min} 2,0	V _{min} 2,0	V _{min} 2,0	V _{min} 2,0	V _{min} 2,0	V _{min} 2,0
Air Void content maximum ³	V _{max} 8,0	V _{max} 8,0	V _{max} 8,0	V _{max} 5,0	V _{max} 5,0	V _{max} 5,0	V _{max} 5,0
Water sensitivity ⁴	ITSR ₈₀	ITSR ₈₀	ITSR ₈₀	ITSR ₈₀	ITSR ₈₀	ITSR ₈₀	ITSR ₈₀
Resistance to permanent deformation ²	WTS _{AIR} 1,0 PRD _{AIR} 0,0	WTS _{AIR} 1,0 PRD _{AIR} 0,0	WTS _{AIR} 1,0 PRD _{AIR} 0,0	WTS _{AIR} 1,0 PRD _{AIR} 0,0	WTS _{AIR} 1,0 PRD _{AIR} 0,0	WTS _{AIR} 1,0 PRD _{AIR} 0,0	WTS _{AIR} 1,0 PRD _{AIR} 0,0
Temperature of the mixture – maximum ³							
40/60	190	190	190			190	190
70/100	180	180	180				
PMB 65/105-60	3	3	3	3	3		
Notes	¹ The minimum binder content, expressed as B _{min} , is corrected for FPC purposes to B _i in accordance with CC-GSW-00900, Clause 5.3.3. ² Test methods and test conditions contained in Table 19 ³ Supplier Declared Value ⁴ Does not apply to Warm Mix Asphalts. The manufacturer's requirements for the Warm Mix Asphalt additive shall apply instead.						

Surface regularity	Temperature of the mixture – minimum ⁴					
	Delivery	Rolling	Delivery	Rolling	Delivery	Rolling
40/60	130	100	130	100	130	100
70/100	125	90	125	90	125	90
PMB 65/105-60	145	115	145	115	145	115

Table 9 Stone Mastic Asphalt – Requirements of the Works

hEN reference	EN 13108 – 5 Stone Mastic Asphalt													
Table column reference	1		2		3		4		5		6		7	
Layer	Binder		Binder		Binder		Surface		Surface		Surface		Surface	
Mixture designation	SMA 14 bin des		SMA 10 bin des		SMA 6 bin des		SMA 14 surf des		SMA 10 surf des		SMA 14 surf des ²		SMA 10 surf des ²	
Alignment, levels, tolerances, thickness & regularity (mm)														
Horizontal alignment														
See Clause 702														
Levels														
See Clause 702														
Tolerances	± 6		± 6		± 6		± 6		± 6		± 6		± 6	
Adjacent to surface water or linear drainage channel	+ 10 - 0		+ 10 - 0		+ 10 - 0		+ 10 - 0		+ 10 - 0		+ 10 - 0		+ 10 - 0	
Layer thickness - nominal	30 to 60		20 to 50		15 to 40		35 to 50		25 to 50		35 to 50		25 to 50	
Layer thickness - minimum	25		15		10		30		20		30		20	
Surface regularity														
see Clause 702														
Temperature of the mixture – minimum ⁴														
40/60	Delivery	Rolling	Delivery	Rolling	Delivery	Rolling	Delivery	Rolling	Delivery	Rolling	Delivery	Rolling	Delivery	Rolling
	130	100	130	100	130	100					130	100	130	100
70/100	125	90	125	90	125	90								
PMB 65/105-60	145	115	145	115	145	115	145	115	145	115				
Properties														
Air voids minimum ¹	V _{min} 2,0		V _{min} 2,0		V _{min} 2,0									
Air voids maximum ¹	V _{max} 8,0		V _{max} 8,0		V _{max} 8,0									
Water sensitivity ¹	ITSR ₈₀		ITSR ₈₀		ITSR ₈₀		ITSR ₈₀		ITSR ₈₀		ITSR ₈₀		ITSR ₈₀	
Resistance to permanent deformation ¹	WTS _{AIR} 1,3 PRD _{AIR} 16,0		WTS _{AIR} 1,3 PRD _{AIR} 16,0		WTS _{AIR} 1,3 PRD _{AIR} 16,0		WTS _{AIR} 1,3 PRD _{AIR} 16,0		WTS _{AIR} 1,3 PRD _{AIR} 16,0		WTS _{AIR} 1,3 PRD _{AIR} 16,0		WTS _{AIR} 1,3 PRD _{AIR} 16,0	
Surface Macrotexture (mm) ¹														
Mandatory speed of traffic > 60km/hr														
Average per 1000m - minimum	na		na		na		1,3		1,1		1,3		1,1	
Average per 1000m - maximum	na		na		na		1,8		1,6		1,8		1,6	
Average for a set of 10 measurements - minimum	na		na		na		1,0		0,9		1,0		0,9	
Mandatory speed of traffic ≤ 60km/hr and roundabouts														
Average per 1000m - minimum	na		na		na		1,0 ³		1,0		1,0 ³		1,0	
Average per 1000m - maximum	na		na		na		1,8 ³		1,6		1,8 ³		1,6	
Average for a set of 10 measurements - minimum	na		na		na		0,9 ³		0,9		0,9 ³		0,9	
Notes														
¹ Test methods and test conditions contained in Table 20														
² These mixture designations shall not be permitted for use on roads carrying greater than 100 cv/lane/day														
³ Restricted conditions apply, refer to DN-PAV-03023														
⁴ Does not apply to Warm Mix Asphalts. The manufacturer's requirements for the Warm Mix Asphalt additive shall apply instead.														

⁴ Does not apply to Warm Mix Asphalts. The manufacturer's requirements for the Warm Mix Asphalt additive shall apply instead.

WARM MIX ASPHALT

Refer to TII CC-GSW-00900-10

Series 1200 - Traffic Signs and Road Markings

Add the following unit of measurement in paragraph 9:

- (ii) marking and removal of words..... no.

Removal of Road Markings

Itemisation 16

Additional Separate items shall be provided for and signage in accordance with Section 3 of CC-RMP-00010 paragraphs 3 and 4 and the following:

Group	Feature
II	12. Words
IV	6. No Entry
V	3.No Entry
VI	5. No Entry
VII	2.No Entry
VIII	2.No Entry
IX	2.No Entry

4. Schedule of Rates

Please see Schedule of Rates attached.