Checklist – CAC064M
Concrete Pavement Base – Assessment of Nominated Mix Submission (Hold Point 1) – MRTS40

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| **Contractor** |  | **Date** |  | **Review No.** |  |
| **Contract No.** |  | **Project No.** |  | **Project Name** |  |

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| --- | --- | --- | --- |
| **Nominated mix number** |  | **Nominated mix type (tick):**Fixed-form pavingSlipform pavingTransition zone pavingSteel fibre reinforced | [ ] [ ] [ ] [ ]  |

| Reference | Requirements | Addressed | Comments/Observations |
| --- | --- | --- | --- |
| General requirements |
| 7.7.3 | All required details provided as a single submission |  |  |
| 7.7.3 (a) | Completed verification checklist provided |  |  |
| 7.7.3 (b) | Contractor certification that the mix and its constituents meet the requirements of MRTS40 |  |  |
| 7.7.3 (c) | NATA endorsed test results for all tests |  |  |
| 7.7.3 (d)7.4, N.3.2 | Nominated slump |  |  |
| Material constituents |
| 7.7.3 (e)(i)6.2.1, 6.2.2 | Cement:* Type
* Supplier
* Product name
* ATIC registration number
* Source
* TMR registration
 |  |  |
| 7.7.3 (e)(ii)6.2.1, 6.2.3 | Supplementary cementitious materials:* Type
* Supplier
* Product name
* ATIC registration number
* Source
* TMR registration
 |  |  |
| 7.7.3 (e)(iii)6.8Appendix C5 (if required) | Water:* Source
* Test results (if not from a reticulated drinking water supply
 |  |  |
| 7.7.3 (e)(iv)6.3 | Chemical admixtures:* Proprietary source
* Type
* Name
* Dosage
* Certification of compatibility if more than one admixture is used
 |  |  |
| 7.7.3 (e)(v)6.1.1, 6.1.2 | Aggregates (general):* Source
* Geological type
* Moisture condition on which mix design is based (oven dry, saturated surface dry or nominated moisture content)
* Quarry Registration Certificate (including its Testing Frequency Schedule)
 |  |  |
| 7.7.3 (e)(vi)7.7.3 (e)(vii)6.1.4, 6.1.6 | Fine aggregate:* Particle size distribution (individual)
* Material passing 75 µm sieve (total fine)
* Material finer than 2 µm (total fine)
* Methylene blue value (individual)\*
* Deleterious fines index (individual)\*
* Compacted bulk density (individual)
* Particle density (individual)
* Water absorption (individual)
* Soundness (sodium sulfate) (individual)
* Light particles (total fine)
* Organic impurities (total fine)
* Sugar presence (total fine)
* Acid insoluble residue (total fine)
* Micro-Deval abrasion loss (total fine)\*
* Flow Cone time (total fine)\*
* Alkali-aggregate reactivity (individual)\*
* Petrographic analysis (individual)

Tests marked \* are not always required. |  |  |
| 7.7.3 (e)(vi)7.7.3 (e)(vii)6.1.5, 6.1.6 | Coarse aggregate:* Compacted bulk density (individual)
* Particle density (saturated-surface-dry) (individual)
* Water absorption (individual)
* Particle size distribution (individual)
* Material passing 75 µm (total coarse)
* Material finer than 2 µm (individual)
* Particle shape, 2:1 and 3:1 ratios (individual)
* Flakiness index (individual)
* Wet strength (individual)
* Wet/dry strength variation (individual)
* Degradation factor (individual)
* Weak particles (individual)
* Light particles (total coarse)
* Fractured faces (individual)\*
* Foreign materials content (individual)\*
* Alkali-aggregate reactivity (individual)\*
* Petrographic analysis (individual)

Tests marked \* are not always required. |  |  |
| 7.7.3 (e)(vii)7.7.2 | NATA endorsed test results for all constituent tests, including aggregates tested within 18 months before the commencement of paving |  |  |
| N.2.1N.3.5.1 | Steel fibre source and properties (where relevant) |  |  |
| N.3.4 | Steel fibre dose rate (where relevant) |  |  |
| Mix design |
| 7.7.3 (f)(i)7.1, 7.2 | Constituent quantities, per yielded cubic metre of concrete |  |  |
| 7.7.3 (f)(ii)6.1.3, 6.1.4, 6.1.5 | Nominated particle size distributions for aggregates, including fine, coarse and combined particle size distributions |  |  |
| Trial batch |
| 7.7.2 | NATA endorsed test results for all trial batch tests, and trial mix tested within 18 months before the commencement of paving |  |  |
| 7.7.3 (g)7.4 | Trial batch slump |  |  |
| 7.7.3 (g)(i)7.1, 7.2 | Constituent quantities, per yielded cubic metre of concrete |  |  |
| 7.7.3 (g)(ii)N.3.1 | Compressive strength at age seven days (F7) |  |  |
| 7.7.3 (g)(iii)7.3, N.3.1 | Compressive strength at age 28 days (F28) |  |  |
| 7.7.3 (g)(iv)N.3.1 | Flexural strength at age seven days (Ff7) |  |  |
| 7.7.3 (g)(v)7.3, N.3.1 | Flexural strength at age 28 days (Ff28) |  |  |
| 7.7.3 (g)(vi) | Indirect tensile strength at age 28 days (Ft28) |  |  |
| 7.7.3 (g)(vii)7.5 | Drying shrinkage |  |  |
| 7.7.3 (g)(viii)7.4 | Vebe reading (for slipform mixes) |  |  |
| 7.7.3 (g)(ix)7.6, N.3.3 | Air content |  |  |
| 7.7.3 (g)(x)7.6 | Bleeding |  |  |
| 7.7.3 (g)(xi) | Age factors (AF) (optional). For ages beyond 28 days, results may be provided progressively as they become available. |  |  |
| 7.7.3 (g)(xii) | Unit mass for all compressive, flexural and tensile strength specimens |  |  |
| Other |
| 7.7.3 (e)(vi)7.6 | Chloride ion content |  |  |
| 7.7.3 (e)(vi)7.6 | Sulfate ion content |  |  |

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| Audited by: |  |  |  |
| Name |  | Signature |  | Date |  |