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 paving  Slipform paving  Transition zone paving  Steel 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)  6.8  Appendix 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.2.1  N.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 |  |