**Checklist – CAC062M**

**MRTS72 *Manufacture of Precast Concrete Elements* incorporating MRTS70 *Concrete* and MRTS71 *Reinforcing Steel***

*This checklist can be used for both special class and normal class precast concrete elements. Exclusions for normal class elements are marked (\*).*

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| **Contractor** |  | **Date** |  | **Review No.** |  |
| **Contract No.** |  | **Project No.** |  | **Project Name** |  |
| **Unit Numbers** |  | **Unit Types** |  | **Date(s) Manufactured** |  |

| Reference | Documentation / Inspection | Addressed | Comments/Observations |
| --- | --- | --- | --- |
| MRTS72  Clause 5.3 | **HP1** **New manufacturing procedure**   * *Check with Structures Construction Materials if innovative procedure is proposed* |  |  |
| MRTS72  Clause 5.4 | **HP2 Product and supplier details**   * Drawings (no reinforcement detail required) * Quality plan * Precast registration certificate * Design approval (if applicable) * Casting programme * MRTS70 (HP8)   + Mix design approval certificate (\*)   + Project-specific requirements * MRTS71 (HP1)   + Reinforcing supplier’s registration certificate * MRTS71 (HP6)   + Welding procedure specification * MRTS71 (HP8)   + Certified lifting diagram for large reinforcing cage |  |  |
| MRTS72 Clause 5.4.1 | **HP3 Sample Panel**   * Visual inspection |  |  |
| MRTS71 (ATS 5310) Clauses 5-7 | **Steel reinforcement**   * Delivery dockets / bundle tags   + Registered supplier   + Grade and ductility class * Visual inspection   + Surface condition   + Storage   + Shape/Size   + Welding |  |  |
| MRTS72 Clause 9.2  MRTS70  Clause 16.3 | **WP1 Placement of concrete**   * Pre-pour visual inspection   + Reinforcement position   + Cover-to-reinforcement / spacers   + No foreign material   + Thermocouples (if temperature monitoring is required by MRTS70)   + Electrical conductivity of reinforcement (if required)   + Lifting anchor position   + Formwork compliant |  |  |
| MRTS70 Clause 11  Clause 16.4 | **Concrete Delivery**   * Delivery docket (approved mix (\*)) * Field sheet   + Slump/spread result (\*)   + Batch/arrival times   + Concrete temperature   + Ambient conditions * Visual inspection   + No surprises |  |  |
| MRTS70 Clause 16.5 | **Placement and Compaction**   * Visual Inspection   + Concrete   + Placement   + Compaction   + Evaporation retardation   + Curing |  |  |
| MRTS72 Clause 9.7  Clause 9.8  Clause 10.1 | **WP2 Product Inspection**   * Visual Inspection   + Surface finish   + Defects   + Dimensions   + Cracking   + Product marking |  |  |
| MRTS72 Clause 11 | **HP4 Material Data Record**   * Concrete strength report (NATA-endorsed) (\*) * Lot register * As-constructed dimensions * Heat-accelerated curing charts |  |  |

**Additional items for consideration**

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*Delete below section if not required*

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