**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 |
| --- | --- | --- | --- |
| MRTS72Clause 5.3 | **HP1** **New manufacturing procedure*** *Check with Structures Construction Materials if innovative procedure is proposed*
 |  |  |
| MRTS72Clause 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 9.2MRTS70Clause 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 11Clause 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 9.7Clause 9.8Clause 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 |  |