Checklist – CAC072M
MRTS70 Concrete (insitu, special class) incorporating MRTS71 Reinforcing Steel

This checklist applies to concrete cast insitu and designated special (S) class. Precast concrete can be managed using the checklists for MRTS24 (Culverts), MRTS25 (Steel Reinforced Pipes), MRTS26 (Fibre Reinforced Pipes), MRTS72 (Other Precast) or MRTS73 (Prestressed Concrete).

Concrete cast insitu and designated normal (N) class can be managed by using Checklist CAC073M.

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| Contractor |  | Date |  |
| Contract No. |  | Project No. |  | Project Name |  |
| Lot Ref. |  | Lot Description |  |

| Reference | Documentation / Inspection | Addressed | Comments/Observations |
| --- | --- | --- | --- |
| MRTS70Clause 15.1Clause 9.2 | HP1 Mix Design* Mix design (4 weeks)
* Test results
* Strength
* Aggregate grading (piles)
* Water retention (piles)
* Chloride content
* Aggregates

Is a trial mix required? |  |  |
| MRTS70Clause 15.3 | HP2 Falsework* Drawings
* Procedure (4 weeks)
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| MRTS71(ATS 5310)Clause 4.2 | HP1 Supply of Reinforcement* TMR Registration Certificate
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| MRTS71(ATS 5310)Clause 5.17 | HP1 Supply of Mechanical Bar Splices* TMR Registration
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| MRTS71(ATS 5310)Clause 8 | HP2 Hot Bending of Reinforcement* Procedure
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| MRTS71(ATS 5310)Clause 10.7, 11 | HP6 Welding of Reinforcement* Welding procedure specification

**HP7, HP8 Welding of Stainless Steel Reinforcement*** TMR Registration
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| MRTS71(ATS 5310)Clauses 7.9, 10.7 | HP3, HP6 Fabrication of Reinforcing Cage* Cage fabricator's TMR registration certificate
* Lifting design
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| MRTS70Clause 15.4 | HP3 Formwork* Visual inspection
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| MRTS70Clause 5.2Clause 10 | HP4 Construction Procedures* On site batching (6 weeks)
* Long distance concreting (6 weeks)
* Hot weather concreting (2 weeks)
* Curing (2 weeks)
* Concrete temperatures (4 weeks)
* Underwater placement (2 weeks)
* Surface dressing and repair
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| MRTS71(ATS 5310)Clauses 5, 6 | Steel Reinforcement* Delivery dockets / bundle tags
* Visual inspection
* Surface condition
* Storage
* Shape / size
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| MRTS71(ATS 5310)Clause 7.11 | HP4 Electrical Conductivity* If required
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| MRTS70Clause 15.6MRTS71(ATS 5310)Clause 7 | HP5 (MRTS70) Pre-pour Inspection* Visual inspection
* Reinforcement position
* Cover / spacers
* No foreign material
* Thermocouples (if necessary)
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| MRTS70Clause 15.6Clause 11 | Concrete Delivery* Delivery docket (approved mix)
* Field sheet
* Slump / spread result
* Batch / arrival times
* Concrete temperature
* Ambient conditions
* Visual inspection
* No surprises
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| MRTS70Clause 15.6 | Placement and Compaction* Visual Inspection
* Concrete
* Placement
* Compaction
* Evaporation retardation
* Curing
 |  |  |
| MRTS70Clause 15.7 | **HP6 Removal of Formwork*** Concrete Strength Report
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| MRTS70Clause 15 | Post-pour Inspection* Visual inspection
* Surface finish
* Dimensions
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| MRTS70Clause 12 | Material Data Record* Concrete strength report (NATA-endorsed)
* Concrete strength summary
* Temperature charts (if necessary)
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Additional items for consideration

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