

DIVISION 03 CONCRETE

Section 03 00 00 Concrete - General

1 Design

1.1 See DC350, Part 1, Section 2, Division 03, item 03 00 00.

2 References:

- 2.1 CAN/CSA-S269.3, Concrete Formwork.
- 2.2 CAN/CSA-G30.18 , Billet-Steel Bars for Concrete Reinforcement.
- 2.3 Manual of Standard Practice - Reinforcing Steel Institute of Ontario.
- 2.4 CAN/CGSB-37.2, Emulsified Asphalt, Mineral Colloid-Type, Unfilled, for Dampproofing and Waterproofing and for Roof Coatings.
- 2.5 CAN/CGSB-51.34, Vapour Barrier, Polyethylene Sheet for Use in Building Construction.
- 2.6 CAN/CSA-A5, Portland Cement.
- 2.7 CAN/CSA-A23.1, Concrete Materials and Methods of Concrete Construction.
- 2.8 CAN/CSA-A23.2, Methods of Test for Concrete.
- 2.9 CAN/CSA-A23.5, Supplementary Cementing Materials.
- 2.10 CAN3-A266.1, Air-Entraining Admixtures for Concrete.
- 2.11 CAN3-A266.2, Chemical Admixtures for Concrete.
- 2.12 CAN3-A266.4, Guidelines for the Use of Admixtures in Concrete.
- 2.13 CAN/CSA A363, Cementitious Hydraulic Slag.

3 Quality Assurance

3.1 Have all concrete produced and delivered by a ready-mix plant that is a member of the Atlantic Provinces Ready Mixed Concrete Association (APRMCA) and holds a current "Certificate of Ready Mixed Concrete Production Facilities" issued by the Association.

4 Materials

4.1 See DC350, Part 1, Section 2, Division 03, item 03 10 00.

5 Curing Material

5.1 Curing compound for all concrete floor areas, except those which are to receive seamless flooring, epoxy or latex coatings, or quarry tile cured using CGSB Spec. 90-GP-1a or equal.

6 Formwork Materials

6.1 Use form materials to CSA Spec. CAN3 A23.1.

6.2 For form coating, use a non-staining formcoating.

7 Concrete adequately strong and leakproof formwork to CAN3-A23.1.

Section 03 10 00 Concrete Forming and Accessories

1 See DC350 Part 1, Section 2, Division 03, item 03 10 00

Section 03 20 00 Concrete Reinforcing

1 Welded steel wire fabric

1.1 to CSA G30.5.

2 See DC350 Part 1, Section 2, Division 03, item 03 20 00

Section 03 30 00 Cast -in -Place Concrete

1 See DC350 Part 1, Section 2, Division 03, item 03 30 00

Section 03 41 00 Precast Structural Concrete

1 See DC350 Part 1, Section 2, Division 03, item 03 41 00

2 For Exterior Walls, insulated pre-cast or tilt-up concrete panels are acceptable, providing:

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- 2.1 The panel has a minimum strength of 35 mPa concrete, and maximum water absorption 5% @ 28 days)
- 3 Joints in pre-cast or tilt-up concrete wall systems must contain an air chamber vented and weeped to the exterior, pressure equalized and sealed to perform as an adequate air barrier.
- 4 Refer also to DC350, Part 2, Section 2, Division 09, items 09 22 16 for steel stud back up requirements, & 07 20 00 for insulation requirements, & 07 25 00 for vapour barrier requirements.

Section 03 45 00 Precast Architectural Concrete

- 1 See DC350, Part 1, Section 2, Division 03, item 03 45 00.

END