
CONCRETE FORMING
AND ACCESSORIES

Section 03 10 00

Breakwater Construction and
Floating Docks
Petite Forte, NL
P/N: R.714115

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PART 1 - GENERAL

1.1 RELATED
SECTIONS

- .1 Section 03 20 00 - Concrete Reinforcing.
- .2 Section 03 30 00 - Cast-in-Place Concrete.

1.2 REFERENCES

- .1 Canadian Standards Association (CSA)
 - .1 CAN/CSA-A23.1-09, Concrete Materials and Methods of Concrete Construction.
 - .2 CAN/CSA-086-09, Engineering Design in Wood.
 - .3 CSA 0121-08, Douglas Fir Plywood.
 - .4 CSA 0151-09, Canadian Softwood Plywood.
 - .5 CSA 0153-M1980 (R2008), Poplar Plywood.
 - .6 CAN3-0188.0-M78, Standard Test Methods for Mat-Formed Wood Particleboards and Waferboard.
 - .7 CSA 0437 Series-93 (R2006), Standards for OSB and Waferboard.
 - .8 CSA S269.1-1975 (R2003), Falsework for Construction Purposes.
 - .9 CAN/CSA-S269.3-M92 (R2008), Concrete Formwork.

1.3 SHOP DRAWINGS

- .1 Submit shop drawings for formwork and falsework in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Indicate method and schedule of construction, shoring, stripping and re-shoring procedures, materials, arrangement of joints, special architectural exposed finishes, ties, liners, and locations of temporary embedded parts. Comply with CSA S269.1, for falsework drawings Comply with CAN/CSA-S269.3 for formwork drawings.
- .3 Indicate formwork design data, such as

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permissible rate of concrete placement, and
temperature of concrete, in forms.

- .4 Indicate sequence of erection and removal of
formwork/falsework as directed by
Departmental Representative.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Formwork materials:
 - .1 Use formwork materials to
CAN/CSA-A23.1.
- .2 Form ties:
 - .1 Removable or snap-off metal ties, fixed
or adjustable length, free of devices leaving
holes larger than 25 mm diameter in concrete
surface.
- .3 Form release agent: non-toxic, chemically
active release agents containing compounds
that react with free lime present in concrete
to provide water insoluble soaps, preventing
set of film of concrete in contact with form.
- .4 Falsework materials: to CSA-S269.1.
 - .1 Materials required to bear grade marks,
or be accompanied with certificates, test
reports or other proof of conformity.
- .5 Premoulded joint fillers:
 - .1 Bituminous impregnated fibreboard to
ASTM D1751.

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PART 3 - EXECUTION

3.1 FABRICATION AND
ERECTION

- .1 Fabricate and erect falsework in accordance with CSA S269.1.
- .2 Fabricate and erect formwork in accordance with CAN/CSA-S269.3 to produce finished concrete conforming to shape, dimensions, locations and levels indicated within tolerances required by CAN/CSA-A23.1.
- .3 Align form joints and make watertight. Keep form joints to minimum.
- .4 Clean formwork in accordance with CAN/CSA-A23.1, before placing concrete.

3.2 REMOVAL AND
RESHORING

- .1 Leave formwork in place for 5 days after placing concrete.
- .2 Remove formwork when concrete has reached 75% of its design strength or minimum period noted above, whichever comes later, and replace immediately with adequate reshoring.
- .3 Re-use formwork and falsework subject to requirements of CAN/CSA-A23.1.