



City of Estevan

Construction Specifications

SECTION 1051
CONCRETE FORMWORK

1.0 GENERAL

This section governs the requirements for steel and wood formwork used in the construction of cast in place concrete structure, flatwork, and elements.

2.0 MATERIALS

2.1 Sawn Lumber

Lumber shall not be bent, warped, twisted, battered, or worn out and shall be sawn so that lines and shapes will be accurately maintained. Lumber shall be of sufficient strength to resist the pressure of wet concrete and adequately braced to remain in place. Sawn lumber shall conform to CAN/CSA-269.3 and falsework to CAN/CSA-269.1.

2.2 Plywood

Plywood for forms shall be Douglas fir, concrete form grade, conforming to CSA0121.

2.3 Metal Forms

Metal forms shall be made of sheet or plate steel with rib stiffening sufficient to resist the pressure of wet concrete.

2.4 Form Stripping Agent

Form stripping agent shall be a colourless mineral oil, free of kerosene or other volatile substances, with viscosity between 15-24 mm²/s at 40°C and a flashpoint no less than 150°F.

2.5 Shoring

Shoring shall be either lumber or steel.

3.0 INSTALLATION

Install formwork in conformance with CAN/CSA-269.3 to line and grade provided by the Engineering Services Division on grade sheets, so that the weight or fluid pressure of wet concrete will not result in noticeable deflection. Ensure that all joints are sufficiently tight to prevent leakage of mortar.

Treat forms with oil prior to placing reinforcement. Wet down untreated forms to prevent shrinkage prior to placing concrete.

Shore and place to withstand expected forces.

Construct forms so that they may be dismantled and removed without damaging concrete.

Ensure expansion joint fillers and reinforcing steel can be accommodated. Obtain Engineering Services Division's approval before pouring concrete and stripping forms. Strip forms only after concrete has gained sufficient strength to safely support all superimposed loads.

SECTION 1051
CONCRETE FORMWORK

4.0 MEASUREMENT AND PAYMENT

- 4.1 The work items in this section shall be deemed incidental to the supply and installation of cast-in-place Portland Cement Concrete.