

## **SECTION 918**

### **DECK DRAINS**

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#### **918.01 SCOPE**

The scope of this specification is to cover the supply and installation of deck drains in both new construction and rehabilitation projects.

#### **918.02 MATERIALS AND FABRICATION**

Deck drains shall be of material supplied in accordance with CSA G40.21 "Structural Quality Steels" Grade 300W.

Drains shall be hot dip galvanized after fabrication to CSA G164 "Hot Dip Galvanizing of Irregularly Shaped Articles."

The outlet pipe is to be supplied in accordance with ASTM A53 "Standard Specification for Pipe, Steel, Black, Hot-Dipped, Zinc Coated, Welded and Seamless."

#### **918.03 INSTALLATION**

Drains are to be installed in the locations shown on the plans or as otherwise accepted by the Owner's Representative.

For new deck construction, the deck drain(s) shall be put in place before the deck concrete is cast. Elevation of the deck drains shall be verified prior to the deck pour dry run.

For rehabilitation projects, the hole for the deck drain down spout shall be drilled through the concrete deck with a core bit. Breaking through the deck with a jackhammer is not permitted. The core bit shall be capable of drilling a hole of sufficient size to easily accommodate the outside diameter of the down spout. Any gap between the drilled hole and the outside of the drain down spout shall be grouted to the satisfaction of the Owner's Representative. Any other demolition and concrete reinstatement required to install the drain properly shall be completed.

The work shall entail the removal of existing drains, the supply and installation of new drains at the location shown on the drawings and the reinstatement of concrete surrounding them. The holes left by the existing drains shall be filled with new concrete.

Care shall be taken that the top of the drain is slightly below the surrounding finished surface. Sloping of the wearing surface to accommodate deck drains shall not extend into the driving lanes.

The bottom of the down spout shall extend a minimum of 300mm below any adjacent superstructure components.

The grating shall be tack welded to the catch basin.

Incorrectly placed drains shall be cause for rejection and shall be replaced as per the direction of the Owner's Representative

#### **918.04 MEASUREMENT FOR PAYMENT**

Each individual drain shall be considered one unit. Only deck drains will be measured for payment.

#### **918.05 BASIS OF PAYMENT**

Payment at the contract unit price for "Supply and Install Deck Drains" in the Unit Price Table shall be considered full compensation for all labour, equipment, plant and materials required to supply and install deck drains, including both catch basins and drainage down spouts.

For rehabilitation contracts, payment at the contract unit price for "Supply and Install Deck Drains" in the Unit Price Table shall also include costs associated with removal of existing drains, concrete demolition, concrete rehabilitation, non-shrink grout, and asphalt removal.

Any work associated with rectifying incorrectly placed drains shall not be paid for.