

PART 1 - GENERAL

- |                                    |    |  |
|------------------------------------|----|--|
| <u>1.1 DESCRIPTION</u>             | .1 | This section specifies the requirements for supply and installation of mooring devices as follows:<br>.1 Supply and installation of Type "B1" mooring cleats on new cleat blocks as specified.   |
| <u>1.2 RELATED WORK</u>            | .1 | Section 02 41 16 - Sitework, Demolition, and Removal.  |
|                                    | .2 | Section 03 10 00 - Concrete Forming and Accessories.   |
|                                    | .3 | Section 03 20 00 - Concrete Reinforcing.   |
|                                    | .4 | Section 03 30 00 - Cast-in-Place Concrete.   |
| <u>1.3 MEASUREMENT FOR PAYMENT</u> | .1 | <u>Mooring Cleats - Type "B1":</u><br>.1 The supply and installation of Type "B1" mooring cleats including reinforced concrete pedestal will be measured by the unit secured in place. Contractor to provide all concrete, reinforcing steel, anchor bolts, nuts, washers, grout, fastenings, paint, plant, equipment, and labour as incidental to unit cost.<br><br>.2 The supply and installation of Type "B1" mooring cleats forming part of the floating docks will not be measured for payment. Only mooring cleats on the marginal wharf will be measured for payment. |

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- .1 Mooring Devices:
  - .1 Mooring Cleats Type "B1":  
galvanized cast iron cleats, 36.2kg  
weight as dimensioned on the  
drawing.
  - .2 Mooring rings galvanized cast  
iron dimensioned on drawings.
  - .3 Anchor Bolts and Nuts: to ASTM  
A307, galvanized.
  - .4 Non-Shrink Grout: pre-mixed  
compound of non-metallic aggregate  
and plasticizing agents, capable of  
developing minimum compressive  
strength of 50MPa at 28 days.
  - .5 Galvanizing: to CSA G164,  
minimum zinc coating 610 g/m<sup>2</sup>.
  - .6 Welding: to CSA W59.
  - .7 Sealer: to Section 07 92 10.
  - .8 Concrete: to Section 03 30 00.
  - .9 Concrete Reinforcement: to CSA  
G30.12M, Grade 400.
  - .10 Primer: Alkyd undercoat,  
exterior oil ferrous metal primer,  
similar to Pittsburgh 6-208.
  - .11 Paint: Alkyd/Oil Resin paint  
similar to Pittsburgh Paints  
"Brilliant Red (Safety Red)" Product  
ID 7-801. Paint to conform to  
CAN/CGSB-1.61-2004.

### 2.2 SHOP DRAWINGS

- .1 Submit fabricator's shop drawings on  
cleats in accordance with Section 01  
33 00 - Submittal Procedures.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- .1 Mooring Cleats - Type "B1":
  - .1 Install concrete cleat block  
and pedestals for Type "B1" cleats  
as indicated.
  - .2 Install concrete cleat blocks  
monolithically with deck.

- .3 Secure cleats with 25mm diameter anchor bolts as indicated.
- .4 After cleat installation is complete, bolt holes in cleats to be filled with approved waterproofing compound.

### 3.2 GROUT

- .1 Set all mooring cleats at locations and elevations indicated or as directed by the Departmental Representative. Grout under base of cleat using a non-shrink, non-metallic type of grout after tightening of anchor bolts or positioning wedges. Grout must be approved by Departmental Representative. Fill anchor bolt holes with approved sealer. Ensure that temperatures of foundation, air, base and grout are within range specified by grout manufacturers.
- .2 Do not grout until approval given by Departmental Representative.

### 3.3 PAINTING

- .1 Paint ferrous metal portion of mooring cleat.
- .2 Use one (1) coat of exterior oil ferrous metal primer and two (2) coats of alkyd/oil resin paint as specified. Paint materials for each coat to be product of a single manufacturer as specified. Ensure previous coat of primer or paint is dry before second coat is applied.

END OF SECTION