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|                              | RUBBER FENDERS | Section 35 59 15 |
| P/N: R.100138.001            |                | Page 1           |
| Harbour Development          |                |                  |
| Prosser Rock, St. John's, NL |                | 2019-01-01       |

## PART 1 - GENERAL

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|------------------------------------|--|
| <u>1.1 DESCRIPTION</u>             | .1 This section specifies requirements for the supply and installation of cylindrical hung fenders.  |
| <u>1.2 DIMENSIONS</u>              | .1 Check existing site dimensions and report discrepancies to Departmental Representative before commencing work.  |
| <u>1.3 SHOP DRAWINGS</u>           | .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.  |
| <u>1.4 MEASUREMENT FOR PAYMENT</u> | .1 <u>Cylindrical Hung Fenders</u> : The supply and installation of cylindrical hung rubber fenders will be measured by the unit of fender supplied and secured in the work (one unit being a 9.1m long fender). Include all related costs in the unit price, including but not limited to, bolts, plates, angles, galvanizing, chains, fenders and all related materials. |

## PART 2 - PRODUCTS

- |                                |   |
|--------------------------------|---|
| <u>2.1 CYLINDRICAL FENDERS</u> | .1 Reaction per metre length based on 50% deflection with +/- 10% tolerance: 164 kN/m.<br>.2 Energy per metre length based on 50% deflection with +/- 10% tolerance: 11.8 kN-m.<br>.3 Colour: black.<br>.4 Length: 9.1m as per drawings.<br>.5 Outside diameter: as per drawings. |
| <u>2.2 HARDWARE</u>            | .1 Fender hardware, bolt type anchor shackles hot dipped galvanized.<br>.2 Forged, quenched and tempered stainless steel  |

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|------------------------------|----------------|------------------|
|                              | RUBBER FENDERS | Section 35 59 15 |
| P/N: R.100138.001            |                | Page 2           |
| Harbour Development          |                |                  |
| Prosser Rock, St. John's, NL |                | 2019-01-01       |

cotter pins.

.3 Grade 3 chain, hot dipped galvanized.

.4 Pad eye connectors and fasteners as per drawings.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

.1 Install rubber fenders in locations and to details shown on drawings.

.2 Rubber fenders shall be installed in strict accordance with manufacturer's recommendations.