

PART 1 - GENERAL

1.1 DESCRIPTION

- .1 This Section specifies the requirements for the supply and installation of pressure treated timber wales, blocking, curbs and other items as indicated on Drawings.

1.2 MEASUREMENT FOR PAYMENT

- .1 Dimension Timber
Pressure treated dimension timber supplied and secured in the work will be measured for payment by the cubic metre. This item includes all timbers for deck, pile caps, wales, fenders, cross-bracing, curbing, together with all bolts, anchor bolts, washers, nuts, and rubberised sealant required to secure the above items to the timber piles and to each other.
- .2 Ladders
Pressure treated timber ladders supplied and secured in the work will be measured by the unit. This item includes all timber, steel rungs, holdfasts together with all bolts, nuts and washers required to fasten the ladder units to the timber wales.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Timber: Use timber graded and stamped in accordance with applicable grading rules and standards of associations or agencies approved to grade lumber by Canadian Lumber Standards Administration Board of CSA.
- .2 Species:
.1 Softwood timber: Coast Douglas Fir, Eastern Hemlock, Eastern Hemlock, Pacific Coast Hemlock, White or Red Pine conforming to CSA 0141-05 (R2014) for softwood lumber, Group A, select grade, free from splits, checks and wane.
.2 Hardwood timber: Birch or Maple

to National Hardwood Lumber Association (NHLA) requirements, construction grade.

- .3 Preservative Treatment: to CSA 080-Series97 Commodity Standard .18, Table 1 for coastal waters, chromated copper arsenate (CCA) or ammoniacal copper arsenate (ACA). Use of creosote oil NOT permitted.
- .4 Miscellaneous steel:
Bolts, nuts, washers: to ASTM A307-83A. All steel material shall be hot dipped galvanized

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Construct softwood timber caps, wales and splice blocks to dimensions and configurations indicated on plans and connect to timber piles to the elevation shown on the plans using the wale connection detailed on the plans. Pile caps shall be spliced at a pile location. Splice connections to be 250x250x1200mm long secured with bolts at each end as indicated.
- .2 Wale and pile caps timbers will be 250mm x 250mm (unless noted otherwise) in cross-section supplied in approximately 6000mm lengths.
- .3 Wale splices will be so arranged such that the splice block is placed at approximately the midpoint of two pile bents and shall be staggered such that the top and bottom wales are not spliced between the same pile bents.
- .4 Construct softwood stringers to dimension and configurations indicated on plans. Support and secure stringers to pile caps and wales as indicated. Stringers shall be full length to

dimensions indicated.

- .5 Construct hardwood timber decking to dimensions and configurations indicated on plans and secure to stringers with 2 galvanized spikes at each end of the decking member.
- .6 Construct softwood timber fenders to dimensions and configurations indicated on plans and bolt to timber wales at locations shown on plans using galvanized machine bolts at both the top and bottom wales.
- .7 Construct softwood timber cross bracing to dimensions and configurations indicated on plans and bolt to timber piles at locations shown on plans.
- .8 Construct ladders of softwood timber and galvanized steel to dimensions and configurations indicated on plans and bolt to both timber wales in locations shown on plans.
- .9 All washers and bolt heads will be countersunk such that the bolt heads to not extend past the harbour side plan of the timbers or the contractor may use carriage-head bolts to fasten the fenders and ladders to the timber wales.
- .10 Where it is necessary to cut or countersink pressure treated timber on site treat sawn face with two (2) liberal coats of brush applied copper naphthanate preservative. Allow first coat to fully penetrate wood before applying second coat.
- .11 Curbing & Blocking:
 - .1 The work comprises the furnishing of all equipment, labour and materials

necessary for the provision of all curbing, blocks, etc. and related work as specified herein and indicated on the drawings.

.2 Blocking shall be pressure treated hardwood.

.3 Hardware including pins, bolts, washers, nails and all other items necessary to be incorporated into the work shall be as specified and as indicated.

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