

ITEM 457

TIMBER PRESERVATIVE & TREATMENT

457.1 Description. This item shall govern for the preservative, and for the seasoning, preparation and treatment of piles, posts, timbers, lumber and service poles, when treatment is specified on the plans or called for in the specifications. Unless otherwise specified on the plans, the preservative and retention shall be as shown in Table 1 of this item.

457.2 Materials. Except as otherwise provided herein, American Wood Preservers' Association (AWPA) Standard Specification shall govern for materials and methods of treatment, including seasoning, incising, preservatives, treatment and inspection for treatment. Pre-treated stock will not be accepted, except in emergencies. In such cases, special permission must be obtained from the Engineer.

Except for falsework and for temporary trestle work during construction, untreated timber piling shall be used only below permanent ground water level. Untreated timber piling shall not be used in water which is infested by marine borers.

457.3 Paintability. All guard posts and sign posts shall be steam cleaned after treatment to assure paintability. Timber other than guard posts and sign posts shall be cleaned for paintability.

457.4 Treatment of Cuts. When it is necessary to bore holes or to cut pressure treated material after treatment, or when any treated surface is badly scarred, the hole, cut or scarred surface shall be given a multi-application of a concentrated solution of the same type preservative as that used in the original treatment as specified in AWPA Standard M4. The supplier of the timber products shall furnish suitable liquid preservative for field treatment upon request from the Engineer. Heating of the preservative and the method of application to the damaged or cut areas shall be as specified in AWPA Standard M4.

457.5 Quality Assurance. AWPA Standard Specifications shall govern for materials and methods of incising preservatives, treatment and inspection of treatment.

Inspection shall be by a Commercial Laboratory, at the Contractor's expense at the site of the treatment plant to determine compliance with net penetration and retention requirements. Unsuitable materials shall be rejected.

Table No. 1

MATERIALS & APPLICATION

The Contractor shall provide the minimum net retention of preservative (lbs. per cu. ft.) for Longleaf Southern Pine or Dense Southern Pine as follows, unless otherwise specified.

<u>PRODUCT</u>	<u>CREOSOTE (AWPA P1)</u>	<u>CREOSOTE-COAL TAR SOLUTION (AWPA P12)</u>	<u>PENTACHLORA -PHENOL (AWPA P8 & P9)</u>	<u>WOLMANIZING</u>
Piling Per AWPA C3				<u>0.60CCA-C</u>
Land or Freshwater Use	12	—	0.60	
Coastal Water Use	—	20	—	
Posts Per AWPA C5	6	—	0.30	
Bridge & Fender Timbers Per AWPA C2	25	—	0.60	
Lumber OTHER than Bridge & Fender Timbers Per AWPA C2	20	—	0.40	
<u>Wood In Direct Contact with the Ground</u>				<u>0.40CCA-C</u>
<u>PRODUCT</u>	<u>CREOSOTE (AWPA P1)</u>	<u>CREOSOTE-COAL TAR SOLUTION (AWPA P12)</u>	<u>PENTACHLORA -PHENOL (AWPA P8 & P9)</u>	<u>WOLMANIZING</u>

Wood Not In
Direct Contact
with the Ground

0.25CCA-C

Service
Poles Per
AWPA C4 7.5 — 0.38

Wolmanizing material shall be manufactured by the Koppers Company, or approved equal. Prior to wolmanizing, all timber shall be air seasoned until the air content is below 20 percent. Wolmanizing shall be in accordance with applicable AWPA standards.

457.6 Identification. Each piece or bundle of treated timber products shall bear a legible brand mark or tag indicating the name of the treater, date of treatment and the specification symbol to which the treatment conforms.

457.7 Payment. Payment for all work prescribed herein will be included in the unit prices bid for "Timber for Structures", "Timber Piling", "Timber Post Guard Fence", or other Timber Products, as the case may be.

There are line code(s), description(s), and unit(s) for this item.

END OF ITEM 457

SUMMARY SHEET

ITEM 457 - TIMBER PRESERVATIVE & TREATMENT

Other Specifications Required
None

Reference Standards

I. AWWA Standard Specifications

C2

C3

C4

C5

M4

P1

P8

P9

P12

Description

Describes seasoning and treatment of materials to be used as piles, posts or poles, bridge and fender timber.

Payment

None, the work performed under this Item shall be incidental to the Item, "Timber for Structures".

DO NOT INCLUDE THIS SHEET IN CONTRACT SPECIFICATIONS