

**ITEM 03551.0463 M - INSTALLING RECYCLED STRUCTURAL-GRADE  
PLASTIC LAGGING FOR SOLDIER PILE AND  
LAGGING WALL**

**DESCRIPTION**

This work shall consist of supplying the materials and labor necessary to install recycled structural plastic lagging for a soldier pile and lagging wall where indicated on the plans and as directed by the Engineer.

**MATERIALS**

Provide recycled structural-grade plastic lumber that meets the following performance requirements:

| <b>Property</b>              | <b>Test Standard</b> | <b>Strain at Test Value</b> | <b>Test Value Range</b> |
|------------------------------|----------------------|-----------------------------|-------------------------|
| <b>Modulus of Elasticity</b> | ASTM D-6109          | 1%                          | 1380 – 3450 MPa         |
| <b>Flexural Strength</b>     | ASTM D-6109          | 3%                          | 13.9 – 34.5 MPa         |

Provide recycled structural-grade plastic lumber with the actual minimum dimensions shown on the plans.

Provide a UV Stabilized color within the tone range shown below. The final tone or tones of Gray will be determined by the Engineer at the time of construction.

Dark Gray

Medium Gray

Light Gray

**QUALIFIED SUPPLIERS**

Unless otherwise approved by the Engineer, the following shall apply:

**American Composite Timbers, Inc.**

366 Veterans Memorial Highway  
Commack, NY 11725  
Contact: Anthony Noto  
Phone: 631-543-9200  
Fax: 631-543-5899  
Email: tony\_noto@yahoo.com

**American EcoBoard, Inc.**

200 Finn Court  
Farmingdale, NY 11735  
Contact: Tony Conte  
Phone: 516-753-5151  
Fax: 516-753-5165  
Email: tonyec@aol.com

**Seaward International, Inc.**

Clearbrook Industrial Park  
P.O. Box 98  
Clearbrook, VA 22624  
Contact: Alan Potts  
Phone: 540-667-5191  
Fax: 540-667-7987  
Email: apotts@seaward.com

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**USPL**

P.O.Box 88

Langhorne, PA 19047

Contact: Paul Bracegirdle

Phone: (215) 369-1520

Fax: (215) 369-1521

Email: bracegirdlep@USPL.net

Or equal as approved by the Engineer.

**CONSTRUCTION DETAILS**

All lagging shall have a 3.1mm uniform spacing between adjacent boards, as approved by the Engineer.

Install horizontal lagging in a manner approved by the Engineer so that the unsupported soil height is a maximum of one (1) meter at all times. If the method chosen for attaching the lagging to the soldier piles requires reattachment of lagging to the soldier piles due to planned excavation on both sides of the wall, reattach the lagging at no additional cost to the State.

**METHOD OF MEASUREMENT**

The number of square meters of wall satisfactorily installed between the payment lines shown on the plans or as revised, in writing, by the Engineer.

**BASIS OF PAYMENT**

Include in the unit price bid the cost of furnishing all labor, materials and equipment necessary to complete the work, including waling, bracing, connections and lagging removal, where required. No additional payment will be made when a wall is excavated on both sides. No additional payment will be made if lagging is placed behind concrete.