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Initial Approval
January, 1996

Re-Approved
April, 2019

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Report Owner

Decatur Wood Products

P.O. Box 85
Paw Paw, MI 49079

Approved Manufacturing Locations

Decatur Wood Products

79201 North M-51
Decatur, MI 49045

Products

1x9 & 1x10 Bleacher Seating Boards
Plywood Bleacher Walking Deck/Footboard

Evaluation Report Information

Decatur Wood Products Contact: Robert Osmick
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General Details

The **Bleacher Seating Boards** are manufactured from Southern Yellow Pine and are currently used in Public School Gymnasiums, Multi-Purpose Facilities and State Leased Service Buildings. The bleacher Seating Boards are intended for interior use only.

The **Plywood Bleacher Walking Deck** is cut from APA 19/32", 5-Ply, group I, Exterior Grade, C-C plugged or A-C Appearance Plywood. The plywood is intended to be used for the walking areas of an indoor Bleacher.

Product Descriptions

The **Bleacher Seating Boards** are manufactured from pieces of Southern Yellow Pine (SYP) by edge gluing and finger-jointing wood pieces into a nominal 1x9 or 1x10 continuous plank. Each individual piece used is a minimum of 5-1/2" long. The exact plank sizes are; 1x9 is 3/4" x 8-7/8" and the 1x10 is 3/4" x 10" and can be cut to any length. The boards are mill finished on all sides and sealed with a moisture resistance polyurethane, followed by a second coat of high gloss polyurethane on wear surfaces.

The Bleacher Seating boards have been tested and evaluated for Bending, Tension, Compression and Shear Strength characteristics to meet design loads and requirements of the Building codes listed under Code Compliance of this Product Evaluation Report (**PER**).

The **Plywood Walking Deck/Footboard** is cut from full sheets of plywood so as to orient the strong axis of the plywood pieces perpendicular to the supports of the bleacher structure. Wear surfaces of the plywood are laminated with .025" to .030" polyethylene or sealed with two coats of polyurethane clear coat.

General Product Usage and Limitations

1. These Products shall be installed in accordance with the manufacturer's Installation Instructions along with the approved Bleacher Assembly drawings and subject to the conditions of this **PER**. A copy of the manufacturer's Installation Instructions shall be made easily available to the installer.
2. This **PER** does not address the Bleacher Assembly, required fastening or required bleacher structure.
3. These Products are not to be used in or near interior corrosive environments.
4. These Products have been evaluated for live loading only.

Design Values

Table 1. Southern Yellow Pine Bleacher Planks

Design Values	Value
Compression Perpendicular to Grain, F_{cperp}	565
Weak Axis Bending, F_b	2443
Modulus of Elasticity, E	1.33E+06
Tension, F_t	1963
Horizontal Shear, F_v	175
Maximum span at 100psf	51"
1x9 Maximum Span at 120plf	40.0"
1x10 Maximum Span at 120plf	42.75"
Maximum Cantilever	4"

Table 2. Bleacher Walking Deck/Footboard

19/32" APA Plywood	C-C Plugged, 5-ply, Group I, Exterior Grade 20oc Span Rating
	A-C Appearance Grade, 5-ply, Group I, Exterior Grade
Maximum Span	22.73" center to center of supports
Grain Direction	Perpendicular to supports
Minimum Support width	1.15"
Static Uniform Load	106 psf

Code Compliance

<u>2012 International Building Code®</u>	<u>2015 International Building Code®</u>	<u>2018 International Building Code®</u>
Section 1028.1.1 Table 1607.1-24 ICC 300-2012	Section 1029.1.1 Table 1607.1-24 ICC 300-2012	Section 1029.1.1 Table 1607.1-24 ICC 300-2017

Product Documentation

- A Product Evaluation Service Agreement between *Pei Evaluation Service* and **Decatur Wood Products**
- A Follow-up Inspection Service Agreement between *Progressive Engineering Inc.* and **Decatur Wood Products**
- A Quality Control Manual for Bleacher Plank Manufacturing - Dated: April, 2019
- Pei* test report no. 1994-1908 - 1x9 Finger Jointed and Edge Jointed Lumber Tests
- Pei* test report no. 1995-0218 - 1x9 Southern Yellow Pine Finger Jointed & Edged Jointed Lumber Test.
- Pei* test report no. 1995-1802 - 1x9 Southern Yellow Pine Finger Jointed & Edge Jointed Lumber Tests, Finger Length .40"
- Pei* test report no. 2019-6068 - Qualification of New Finger-Joint Adhesive 1 x 9 Southern Yellow Pine Finger Jointed and Edge Jointed Lumber Tests
- A calculation for Uniform Loading Dated 12/15/2017.
- Calculations for 120 plf Loading Dated 12/14/17 & 4/10/2019 & 4/12/2019.
- A calculation for Deck Board Uniform Live Load Capacity Dated 4/7/18

Product Labeling

All Bleacher Planks, Walking Deck and Footboards that are covered by this **PER** must be labeled with at least the following information:

1. Each products intended use
2. Manufacturing Date Code
3. Manufacturer's name or Logo
4. This **PER** number & *Pei Evaluation Service* (*Pei ES*) name or Evaluation Mark
5. Each individual piece or each shipping bundle can be labeled.

Acceptable Evaluation Marks



Figure 1 - Assembled Bleacher Planks