



Product Evaluation Report

PER-07022

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Progressive Engineering Inc.

Initial Listing
December, 2007

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Goshen, Indiana 46528

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Listed Product

Various Sheet Good Laminations

Listed For

Robert Weed Plywood Corporation

705 Maple Street
Bristol, IN 46507

Progressive Engineering Inc. is an accredited Testing Laboratory and Third Party Quality Control Agency. This **Product Evaluation Report** represents a product that *Pei* has a follow-up service agreement with. This **Product Evaluation Report** in no way implies warranty for this product or relieves **Robert Weed Plywood Corporation** of their liabilities for this product. *Pei* is accredited to ISO Standard 17020 and 17025. This **PER** is an official document if it is within one year of the initial or re-approved date.

Approved Laminator / Distributor

Robert Weed Plywood Corporation

705 Maple Street
Bristol, IN 46507

RWP West LLC

462 River Dock Road
Weiser, ID 83672

Listing Details

The Various Sheet Good Laminations covered under this **Product Evaluation Report** are used for cabinets, side walls, decorative wall panels, interior trim and door skins, which are supplied to the Manufactured Housing, RV, and Park Model markets.

These Various Sheet Good Laminations have been tested and evaluated to ASTM E84 for Flame Spread and ASTM E1333 Formaldehyde Emissions per HUD and California CARB 93120 regulations for Plywood and Particleboard. Along with this Listing, is a quarterly ongoing testing program and inspection service of **Robert Weed Plywood Corporation** Quality Control Documentation.

Substrate Descriptions

Hardwood Plywood (Meranti / Lauan) consists of layers of wood veneer that are stacked together, usually oriented with the grains running at the right angle, having been bonded together using an adhesive with the assistance of heat and pressure. The adhesive product is purchased from a supplier.

Particle Board is an engineered wood product that is manufactured from wood particles such as wood chips, sawmill shavings or saw dust that is pressed and bound together with a synthetic resin. The synthetic resin product is purchased from a supplier.

MDF or Medium-Density Fiberboard, is an engineered wood product manufactured by breaking down hardwood and softwood residuals into wood fibers. Wood fibers are combined with wax and/or a resin binder, purchased from a supplier, and formed into panels by applying high temperature and pressure.

Laminated Products

The previously mentioned Substrates are laminated by **Robert Weed Plywood Corporation** with vinyl, paper, High Pressure Laminate (HPL) or wood veneers to alter the appearance of the Substrate. The lamination process uses only tested and approved adhesives and laminates. The lamination process follows an approved Quality Control Program.

Code Compliance

ANSI A119.2/NFPA 1192
Standard on Recreational Vehicles

HUD 24 CFR Part 3280.308
HUD 24 CFR Part 3280.406

ANSI A119.5 Recreational Park
Trailers

- ASTM E 84 - Rating = 200 or less
- FMVSS 302 Flame Spread Rating
- ASTM E1333 - Formaldehyde Emissions Level = .2 ppm or less for Hardwood Plywood and .3ppm or less for Particleboard.
- CARB Phase 2 Formaldehyde Emissions Level = .05 ppm or less for Hardwood Plywood (CC) and .09ppm or less for Particleboard and .11ppm or less for MDF.

Listed Products

The following **Products** in Table 1 meet the requirements set forth by HUD for Formaldehyde levels under .2 ppm for HWPW (Meranti) and .3 ppm for Particleboard as well as RVIA/CARB Phase 2 requirements for Formaldehyde levels under .05 ppm for HWPW (VC/CC) and .09 ppm for Particleboard.

Table 1 - Listed Products (As of July, 2018)

Description	Substrate	Overlay	Glue
Hardwood Plywood (Meranti)	2.7 to 18mm Meranti	30 - 50gm Paper	White + GL350
	2.7 to 18mm Meranti	30 - 50gm Paper	White + GL371
	2.7 to 18mm Meranti	4 Mil Vinyl	White
	2.7 to 18mm Meranti	4 Mil Vinyl	White + GL352
MDF	1/8"	4 Mil Vinyl	8200
Particle Board	3/8", 5/8", 3/4"	30 - 50gm Paper	White
	3/8", 5/8", 3/4"	30 - 50gm Paper	White + GL350
	3/8", 1/2" 5/8", 3/4"	4 Mil Vinyl	White
	3/8"	4 Mil Vinyl	8200

The following **Products** in Table 2 meet the Flame Spread requirements as tested per ASTM E84:

Table 2 - Listed Products (As of August 2015)

Description	Substrate	Overlay	Glue	FSI Class ¹
Lauan Plywood	2.7 to 18mm Meranti	30- 50gm Paper	PPR Glue + White GL342	C
	2.7 to 18mm Meranti	2-4 Mil Vinyl	White	B
	2.7 to 18mm Meranti	2-4 Mil Vinyl	GL352	B
Particle Board	5.3mm Particleboard	30 - 50gm Paper	PPR Glue + White GL342	C
	5.3mm Particleboard	2-4 Mil Vinyl	White	C
MDF	1/8"	30 - 50gm Paper	PPR Glue + White GL342	C
	1/8"	2-4 Mil Vinyl	White	C
Gypsum	5/16"	30 - 50gm Paper	PPR Glue+ White GL342	A
	5/16"	2 - 4 Mil Vinyl	White	A
Hardboard	1/10"	30 - 50gm Paper	PPR Glue + White GL342	C
	1/10"	2 - 4 Mil Vinyl	White	C
RW027096	2.7mm	RAW	RAW	C
Superlite RVX	2.7mm (PP Scrim)	30-50gm Paper	PUR Glue	B
	2.7mm (PP Scrim)	2-4 Mil Vinyl	PUR Glue	B
	2.7mm (PP Scrim)	30 - 50gm Paper	GL338 + XL 302	A
	2.7mm (PP Scrim)	2 - 4 Mil Vinyl	GL338 + XL 302	A

Note:

1. FSI = Flame Spread Index (A = 25 or Less, B = 26 - 75, C = 76 - 200)

The following **Products** in Table 3 meet the Flame Spread requirements as tested per CAN/ULC-S102:

Table 3 - Listed Products (January 2015) per CAN/ULC-S102

Description	Thickness	Overlay	Glue	FSI ¹
Lauan	5.2	45 gm Paper	FR	135
		4 mil Vinyl	White	116
Gypsum	1/2"	4 mil Vinyl	White	13
		5.5 mil Vinyl	White	8

Note:

1. FSI = Flame Spread Index (A = 25 or Less, B = 26 - 75, C = 76 - 200)

The following **Products** in Table 4 meet the Flame Spread requirements for a Burn Rate of LESS than 4" per minute as tested per FMVSS 302:

Table 4 - Listed Products (As of July, 2018)

Description	Substrate	Overlay	Glue
Hardwood Plywood (Meranti)	2.7 to 18mm Meranti	30-50gm Paper	White + GL350
	2.7 to 18mm Meranti	4 - 6 Mil Vinyl	White
	3.0 to 18mm Meranti	2-4 Mil Vinyl	GL352
Particleboard	5.3mm Particleboard	30 - 50gm Paper	White + GL350
	5.3mm Particleboard	4 Mil Vinyl	GL352
	5.3mm Particleboard	4 - 6 Mil Vinyl	White
MDF	1/8"	30 - 50gm Paper	White + GL350
	1/8"	4 Mil Vinyl	GL352
	1/8"	4 - 6 Mil Vinyl	White
Azdel Composite	2.7 to 3.6mm	4 - 6 Mil Vinyl	GL365
	2.7mm	.035 FILON (Duralite)	GL365

Note:

1. Thickness of finished goods are approximates

Product Labeling

All the Various Sheet Goods that are to be covered by this **Product Evaluation Report** must be labeled with at least the following information:

1. FMVSS 302 & HUD 3280 Specifications
2. Material Thickness
3. This **Product Evaluation Report** number & *Pei* Name or Logo
4. Time and Date Code Stamp

This information can be provided in one or both of the following ways;

1. Each Board can have this information applied to the back side.
2. A separate card / label with this information applied to each bundle or unit of boards.

Quality Assurance Documentation

A Follow-up Listing & Inspection Agreement between *Progressive Engineering Inc.* and *Robert Weed Plywood Corporation*

A Quality Control Manual for *RWP West LLC* - Weiser, ID - Various Sheet Good Laminations - Dated: 7/18/2018

A Quality Control Manual for *Robert Weed Corporation* - Bristol, IN - Various Sheet Good Laminations - Dated: 7/18/2018

A SDS sheet from *Robert Weed Plywood Corporation* for Composite Wood Products

All testing documentation is kept on file at *Robert Weed Plywood Corporation* facility in Bristol, Indiana and at *Pei*.

Test Report FH - 2064- Flame Spread Test to ASTM E84 - Dated: April 19, 2010

Test Report FH - 2079 Flame Spread Test to ASTM E84 - Dated: May 25, 2010

Test Report FH - 2176 Flame Spread Test to ASTM E84 - Dated: March 11, 2011

A *Pei* test report No. 2009-0180 - FMVSS 302 Flammability Test - Dated: January 8, 2009

A *Pei* test report No. 2009-0180 (B) - FMVSS 302 Flammability Test - Dated: January 8, 2009

A *Pei* test report No. 2009-1101 - FMVSS 302 Flammability Test - Dated: September 10, 2009

A *Pei* test report No. 2010-0382 - FMVSS 302 Flammability Test - Dated: March 15, 2010

A *Pei* test report No. 2010-0383 - FMVSS 302 Flammability Test - Dated: March 15, 2010

A *Pei* test report No. 2010-0385 - FMVSS 302 Flammability Test - Dated: March 15, 2010

A *Pei* test report No. 2010-0597 - FMVSS 302 Flammability Test - Dated: May 10, 2010

A *Pei* test report No. 2011-0284 - FMVSS 302 Flammability Test - Dated: January 31, 2011

A *Pei* test report No. 2012-0342 - FMVSS 302 Flammability Test - Dated: February 8, 2012

A *Pei* test report No. 2013-0234 - FMVSS and CMVSS 302 Flammability Test - Dated: January 28, 2013

A *Pei* test report No. 2013-0362 - FMVSS and CMVSS 302 Flammability Test - Dated: March 6, 2013

A *Pei* test report No. 2013-0774 - FMVSS and CMVSS 302 Flammability Test - Dated: June 4, 2013

A *Pei* test report No. 2013-0857 - FMVSS and CMVSS 302 Flammability Test - Dated: June 24, 2013

A *Pei* test report No. 2014-0392 - FMVSS and CMVSS 302 Flammability Test - Dated: March 5, 2014

A *Pei* test report No. 2015-0317 - FMVSS and CMVSS 302 Flammability Test - Dated: February 9, 2015

A *Pei* test report No. 2015-0652 - FMVSS and CMVSS 302 Flammability Test - Dated: April 14, 2015

A *Pei* test report No. 2016-0563 - FMVSS and CMVSS 302 Flammability Test - Dated: March 9, 2016

A *Pei* test report No. 2017-0566 - FMVSS and CMVSS 302 Flammability Test - Dated: April 11, 2017

A *Pei* test report No. 2018-6144 - FMVSS and CMVSS 302 Flammability Test - Dated: April 23, 2018

Test Report FC-4540/F14717 - Formaldehyde Large Chamber Verification Test Report ASTM E1333 - Dated: September 25, 2008

Test Report 08-002-774 (A) - CAN/ULC-S102 Surface Burning Characteristics of "OE-GL" Laminated Gypsum Panel System - Dated: October 6, 2008

Test Report 08-002-774 (B) - CAN/ULC-S102 Surface Burning Characteristics of "Design 4" Laminated Gypsum Panel System - Dated: October 6, 2008

Test Report 14-08217 - Standard Method of Test for Surface Burning Characteristics of Building Materials - Dated: August 19, 2014

Test Report 14-08218 - Standard Method of Test for Surface Burning Characteristics of Building Materials - Dated: August 19, 2014

Test Report 15-08266 - Standard Method of Test for Surface Burning Characteristics of Building Materials - Dated: August 28, 2015.