



# Product Evaluation Report

PER-13066

## This Document Published By:

*Progressive Engineering Inc.*

Initial Listing  
July, 2013

Re-Approved  
February, 2019

58640 State Road 15  
Goshen, Indiana 46528

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[www.p-e-i.com](http://www.p-e-i.com)

### Listed Product

**Wood Grained Trim and Mouldings for  
H.U.D. Monitoring 3280.203 & 3280.308**

Listed For  
**By-Pass Paint Shop, Inc.**

1132 N. Nappanee Street  
Elkhart, IN 46514

### Approved Manufacturers

By-Pass Paint Shop, Inc.  
1580 Kauffman Road,  
Landisville, PA 17538

By-Pass Paint Shop, Inc.  
1541 S.W. 112th Avenue,  
Ocala, FL 34471

*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 Listing and Inspection Service Agreement with. This **Product Evaluation Report** in no way implies warranty for this product or relieves *By-Pass Paint Shop, Inc.* 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 renewal date.

### Listing Details

The wood grained moulding and trim that are covered under this evaluation report are used for different size and style pieces which are supplied to the Manufactured Housing Industry.

These various moulding and trim pieces have been tested and evaluated to ASTM E1333-12 for Formaldehyde Emissions per HUD 24 CFR Part 3280.308 and to HUD 24 CFR Part 3280.203 for establishment of flame spread rating. The material has also been tested in accordance with FMVSS 302 Flame Spread requirements. Along with this Evaluation Report is a quarterly ongoing testing and inspection program for *By-Pass Paint Shop, Inc.* Quality Control Documentation.

### Substrate Descriptions

**Hardboard** is of higher density and hardness than a softwood. Hardwood species are more varied than that of a softwood. Hardwoods are generally more resistant to decay when used for exterior applications. *By-Pass Paint Shop, Inc.* typically uses Ash and Maple for their substrates. Many of these pieces are used as doors jambs, window trim, casings and base just to name a few of the products.

**Particleboard** is a composite wood that is made in rigid sheets or panels from compressed wood chips. This product is often covered with a vinyl or paper overlay. Many of these pieces are used as jambs and stiles just to name a few of the products.

**MDF** is a manufactured wood product that is composed of wood fibers that are mixed with a resin binding system after being pressed together. MDF has a smooth surface which makes it ideal for painting. Some of the items that *By-Pass Paint Shop, Inc.* offers are painted MDF pieces for use as door casings, ceiling cove, crown moulding and battens.

**Lauan** is a decorative composite plywood that is made in rigid sheets or panels from lauan trees. This product is often covered with a vinyl or paper overlay. Many of these pieces are used as jambs and stiles just to name a few of the products.

### Finished Products

Previously mentioned substrates have a finished stain, painted surface or overlay applied by *By-Pass Paint Shop, Inc.* to alter the appearance of the substrate. The finishing process uses only tested and approved stains and finishes. The finishing process follows an approved Q.C. Program.

**Compliance**

**HUD 24 CFR Part 3280.203**

**HUD 24 CFR Part 3280.308**

**ASTM E84-12c-** Standard Method of Test for Surface Burning Characteristics of Building Materials

**ASTM E 84 = 200 or less**

**Formaldehyde Emissions Level = .2 ppm or less for Particleboard.**

**ASTM E1333-12-** Standard Test Method for Determining Formaldehyde Concentrations in Air and Emission Rates from Wood Products Using a Large Chamber

**FMVSS 302 -** Flammability of Interior Materials test per Federal Motor Vehicle Safety Standard (FMVSS) 302 as stated in the Code of Federal Regulations Title 49, Volume 5, Section 571.302 (10-1-08 Edition) and Canadian Motor Vehicle Standards (CMVSS) 302.

**FMVSS 302 Flame Spread Rating**

**Listed Products**

The following **Products** in Table 1 meet the requirements set forth by HUD for Formaldehyde levels under .3 ppm for Particleboard and .5ppm for Lauan.

<b>Table 1 - Listed Products</b>			
Description	Substrate - Style	Overlay	Adhesive
Particleboard	Trim	50 Gram Paper	Hotmelt EVA
Radiata Pine Plywood	Trim	50 Gram Paper	Hotmelt EVA
Lauan	Trim	4 Mil Vinyl	Hotmelt EVA

The following **Products** in Table 2 meet the requirements set forth by RVIA and HUD for Flame Spread rating of 200 or less per ASTM E84:

<b>Table 2 - Listed Products</b>			
Description	Substrate - Style	Stain	Sealant / Top Coat
Hardwood (Ash)	Trim	Marrakesh	Clear Coat

The following **Products** in Table 3 - meet the Flame Spread requirements for a Burn Rate of LESS than 4" per minute as tested per FMVSS 302:

<b>Table 3 - Listed Products</b>			
Description	Substrate - Style	Stain	Sealant / Top Coat
Hardwood	Trim	Marrakesh	Top Coat

**Product Labeling**

All Products that are to be covered by this **PER** must be labeled with at least the following:

1. The Formaldehyde Emissions Level per HUD
2. The Flame Spread Rating = 200 or less per ASTM E84
3. The Customer Part Number
4. This **PER** number & *Pei* Name or Logo

**Quality Assurance Documentation**

A Follow-up Listing & Inspection Agreement between *Progressive Engineering Inc.* and *By-Pass Paint Shop, Inc.*

A Quality Control Manual for Compliance with 24 CFR 3280.308 - Dated: 2/2019

All testing documentation is kept on file at *By-Pass Paint Shop, Inc.* facility located in Elkhart, Indiana and at *Pei* Test Report No. 13-06000 - ASTM E84-12c - Standard Test Method for Surface Burning Characteristics of Building Materials - Dated: 6/3/2013

*Pei* Test Report No. 2013-0660 - FMVSS302 and CMVSS 302 - Flammability of Interior Materials Test per Federal Motor Vehicles Safety Standard Number 302 & Canada Motor Vehicle Safety Standard Number 302 - Dated: 5/8/2013

*Pei* Test Report No. 2016-0869 - FMVSS302 and CMVSS 302 - Flammability of Interior Materials Test per Federal Motor Vehicles Safety Standard Number 302 & Canada Motor Vehicle Safety Standard Number 302 - Dated: 4/26/2016

*Pei* Test Report No. 2016-0869(B) - FMVSS302 and CMVSS 302 - Flammability of Interior Materials Test per Federal Motor Vehicles Safety Standard Number 302 & Canada Motor Vehicle Safety Standard Number 302 - Dated: 5/9/2016

*Pei* Test Report No. 2016-0869(C) - FMVSS302 and CMVSS 302 - Flammability of Interior Materials Test per Federal Motor Vehicles Safety Standard Number 302 & Canada Motor Vehicle Safety Standard Number 302 - Dated: 6/2/2016