



Pei Evaluation Service is an accredited ISO Standard 17065 Product Certifier, accredited by the IAS. This **Product Evaluation Report** represents a product that **Pei ES** has Evaluated. This product has a Product Evaluation Service Agreement & Follow-up Inspection Service Agreement. This **Product Evaluation Report** in no way implies warranty for this product or relieves **Cady Bag Company, LLC** of their liabilities for this product. This **PER** is an official document if it is within one year of the Initial or Re-Approval date.

Initial Approval
July, 2020

Re-Approved

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Report Owner

Cady Bag Company, LLC
41 Project Circle
Pearson, GA 31642

Approved Manufacturing Locations

Cady Bag Company, LLC
41 Project Circle
Pearson, GA 31642

Product

TitanFlex MH/Modular Shingle Underlayment

Evaluation Report Information

Cady Bag Company Contact: Douglas Smith - (912) 422-3298

General Details

TitanFlex MH/Modular Shingle Underlayment is manufactured by Cady Bag Company, LLC. The manufacturing facility has an approved Quality Control Manual for manufacturing this product. **Cady Bag Company, LLC** has a Product Evaluation Service Agreement with **Pei Evaluation Service® (Pei ES)** and a Follow-up Inspection Service Agreement with **Progressive Engineering Inc. (Pei)**. The product manufacturer is audited periodically by **Pei**.

Product Description

TitanFlex MH/Modular Shingle Underlayment is a non-woven polypropylene layer laminated to a biaxial oriented polypropylene film. The approximate material thickness is .009" with a weight of 2.1 ounces per square yard.

General Product Use

TitanFlex MH/Modular Shingle Underlayment is intended for use with asphalt based shingles as an alternative to ASTM D226, Type I and ASTM D4869, Type I roofing underlayment as specified in Section R905.2.3 of the 2012 & 2015 IRC and Section R905.1.1 of the 2015 & 2018 IRC. **TitanFlex** MH/Modular Shingle Underlayment is for use in factory built structures only. This product is **not** to be used with classified or fire rated roof assemblies or as an ice barrier. The manufacturer's installation instructions provide recommendations for product repair and cold weather applications.

Building Code Compliance

International Residential Code® 2009 & 2012- Section R905.2.3

International Residential Code® 2015 & 2018 - Section R905.1.1

Federal Manufactured Home Construction and Safety Standards, 24 CFR 3280.

This Product has been Tested and Evaluated to meet ASTM D6757-07, Section 6, Table 1.

Product Installation

TitanFlex MH/Modular Shingle Underlayment shall be installed following the manufacturer's installation instructions and in accordance with Section R905.2.7 of the **2012 IRC** and Section R905.1.1 of the **2015 & 2018 IRC**. The manufacturers installation instructions must be easily available to the installer.

1. The underlayment must be installed over solid sheathing as described in the **IRC**.
2. The underlayment is laid horizontally, parallel to the eave and may be installed with either side facing upward. It is recommended to install the coated side up.
3. When using **TitanFlex** MH/Modular Underlayment in temperatures 25°F or less roofing cement is required.
4. The minimum roof slope allowed is 2:12, 17% slope.
5. Roof slopes from 2:12 up to 4:12, where the roof is covered with asphalt shingles, doubling the underlayment is required. Doubling is not required on units manufactured to the Federal Manufactured Home Construction and Safety Standards, 24 CFR 3280.
6. The minimum number of mechanical fasteners shall be used to hold the underlayment in place.
7. The shingles shall be installed immediately after the underlayment application. All roof areas not shingled for shipping reasons that have exposed underlayment, must be covered until the shingles are installed.

General Product Limitations

1. **TitanFlex** MH/Modular Shingle Underlayment used in attic or crawl space applications between the ceiling and roof deck shall be well ventilated to avoid condensation on the underside of the **TitanFlex**.
2. The installer shall consider all local codes and roofing requirements are met when installing **TitanFlex** MH/Modular Shingle Underlayment to ensure that cold weather installation, proper ventilation and roofing requirements are met.

Product Labeling

TitanFlex MH/Modular Shingle Underlayment must be labeled with at least the following;

1. **Cady Bag Company, LLC** Name and Address
2. A **Pei Evaluation Service**® Evaluation Mark
3. The Product Evaluation Report number, **PER-20124**

This information can be applied permanently to the material or by affixing a label to the rolls of material.

Acceptable Evaluation Marks



Product Documentation

A Product Evaluation Service Agreement between **Pei Evaluation Service**® and **Cady Bag Company**.

A Follow-up Inspection Service Agreement between **Progressive Engineering Inc.** and **Cady Bag Company**.

Quality Control Manual - Dated: 6/25/2020

Cady Bag Company Installation instructions - **TitanFlex** Roof Underlayment for Manufactured Housing - Dated: **6/25/2020**

A **Pei** test report No. 2013-1297 - Evaluation of Shingle underlayment to ASTM D6757 Inorganic underlayment.