

**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 and this product has a Follow-up Service / Inspection 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**  
February, 2016

**Re-Approved**  
February, 2021

See all **Pei ES** Listings at: [www.p-e-i.com](http://www.p-e-i.com)

**Report Owners**

|                                                                        |                                                            |
|------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Cady Bag Company, LLC</b><br>41 Project Circle<br>Pearson, GA 31642 | <b>Lasalle Bristol</b><br>601 C.R. 17<br>Elkhart, IN 46515 |
|------------------------------------------------------------------------|------------------------------------------------------------|

**Product**

**TITANFlex-Wrap**

**Approved Manufacturing Locations**

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

**Evaluation Report Information**

**Cady Bag Company Contact:** Douglas Smith - (912) 422-3298  
[www.cadybag.com](http://www.cadybag.com)

**General Details**

**TITANFlex-Wrap** is manufactured by **Cady Bag Company, LLC** and 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®** and a Follow-up Inspection Service Agreement with (*Pei*) *Progressive Engineering Inc.* The product manufacturer is audited on a quarterly basis by *Pei*.

**Product Description**

**TITANFlex-Wrap** is a woven, polymeric fabric manufactured with a micro-perforated polymeric coating. The micro-perforations allow this product to act as a vapor permeable membrane in accordance with the IRC and IBC definition. The fabric has a nominal weight of 1.95 ounces per square yard and is packaged in rolls of varying sizes. When tested in accordance with ASTM E84, **TITANFlex-Wrap** has a flame-spread index of 0 and a smoke-developed index of 20.

**General Product Use**

**TITANFlex-Wrap** is intended for use as a water-resistive barrier in accordance with the IRC and IBC minimum requirements. This product may be used on buildings of Type I, II, III, or IV construction when the building height is less than 40-feet. **TITANFlex-Wrap** may be installed on buildings of Type I, II, III, or IV construction over 40-feet in height when installed in accordance with 2015 IBC Section 1403.5, Exception 1, 2018 IBC Section 1402.5, Exception 1. There is no height limit for installation over Type V construction. **TitanFlex-Wrap** has a moisture vapor permeance rating of 5 perms (2.9x10<sup>-10</sup>kg/Pa · s · m<sup>2</sup>) or greater when tested in accordance with the desiccant method using Procedure A of ASTM E96.

**TITANFlex-Wrap** shall be installed in accordance with the **Cady Bag Company, LLC** Installation Instructions which shall be made easily available to the installer. The following general use items apply to installation of this product:

1. **TITANFlex-Wrap** must be installed over exterior sheathing or insulation on the exterior side of the wall.
2. Fasteners must be corrosion resistant nails or staples with minimum 1-inch crown. Spacing of the fasteners shall be no greater than 16-inches along studs and 8-inches along the top and bottom sill plates.
3. A minimum 1/2-inch fastener penetration into framing is required when **TITANFlex-Wrap** is installed over nonstructural sheathing or foam insulation boards.
4. Vertical and horizontal seams must be overlapped at least 6-inches unless otherwise required by the **Cady Bag Company, LLC** Installation Instructions.
5. **TITANFlex-Wrap** shall be covered by an approved exterior wall covering complying with the applicable building code. Follow the **Cady Bag Company, LLC** Installation Instructions for guidance on exterior wall covering requirements.

**Building Code Compliance**

| 2012 International Residential Code |                    | 2015 International Residential Code |                      | 2018 International Residential Code |                      |
|-------------------------------------|--------------------|-------------------------------------|----------------------|-------------------------------------|----------------------|
| Section R703.2                      | Section R703.6.3   | Section R703.2                      | Section R703.7.3     | Section R703.2                      | Section R703.7.3     |
| Section R703.9.2.1                  | Section R703.9.2.2 | Section R703.9.2 (4)                | Section R703.9.2 (5) | Section R703.9.2 (4)                | Section R703.9.2 (5) |
|                                     |                    | Section R703.12.3                   |                      | Section R703.12.3                   |                      |
| 2012 International Building Code    |                    | 2015 International Building Code    |                      | 2018 International Building Code    |                      |
| Section 1403.5                      | Section 1404.2     | Section 1403.5                      | Section 1404.2       | Section 1402.5                      | Section 1403.2       |

**Standard Compliance**

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

**ASTM E96** - Standard Test Methods for Water Vapor Transmission of Materials

**ICC-ES AC38** - Acceptance Criteria for Water Resistive Barriers

**Product Documentation**

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

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

A **Cady Bag Company, LLC** Quality Control Manual for **TITANFlex-Wrap** - Dated: 3/30/2021

A **Cady Bag Company, LLC** - **TITANFlex-Wrap** Installation Instructions

A Test Report No. 01.14430.01.251 - Investigation of the Surface Burning Characteristics of a Nominal 0.035-in Thick Micro-perforated, Woven Polymeric Building Wrap Trade Name: **TITANFlex-Wrap** - Dated: 11/24/2009

A Test Report No. CBC-002-02-01 -ICC-ES AC35: Acceptance Criteria for Water Resistive Barriers (March 1, 2008): **TITANFlex-Wrap** - Dated: 11/6/2009

A *Pei* Test Report No. 2018-6173 - ASTM E96 Water Vapor Transmission Test on TITANFlex-Wrap Tested to Procedure A - Desiccant Method - Dated: 5/10/2018

**Product Labeling**

The **TITANFlex-Wrap** must be labeled with at least the following information;

- 1. **Cady Bag Company, LLC** Name and Address
- 2. A *Pei Evaluation Service*® Evaluation Mark
- 3. *Pei ES* Product Evaluation Report No. PER-15093
- 4. **Cady Bag Company, LLC** Manufacturing Traceability Information

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

**Acceptable Evaluation Marks**



**Figure 1 - TITANFlex-Wrap Water-Resistive Barrier**