CODE EVALUATION REPORT

CERUS-1046

PUBLISHED: March 2025
REVISED: March 2025
EXPIRATION: March 2027

PRODUCT: **PlyDry Housewrap**

REPORT HOLDER: Henry®, a Carlisle Company

CONTACT DETAILS:
336 Coldstream Road
Kimberton, PA 19442
www.henry.com

CSI DIVISION: 07 00 00 - Thermal and Moisture Protection

CSI SECTION: 07 25 00 – Water-Resistive Barriers / Weather Barriers

APPLICABLE CODES:
2024, 2021, 2018, 2015 International Building Code (IBC)
2024, 2021, 2018, 2015 International Residential Code (IRC)

EVALUATED:
Water-resistance
Surface-burning characteristics

IAS ACCREDITED Product Certification Agency PCA-118

1.0 APPROVED FOR FOLLOWING:

APPROVED TYPES OF CONSTRUCTION:	Type IAB, Type IIAB, Type IIIAB, Type IV, Type VAB
APPROVED USE:	Water-resistive barrier for use in combustible and Types I-IV construction (40 ft building height).
APPROVED INSTALLATIONS:	Exterior walls.

2.0 DESCRIPTION:

2.1 General:

Henry's PlyDry Housewrap is a woven micro-perforated polymeric scrim with polymeric coating. The product is available in rolls of minimum and maximum sizes and coverage weights outlined in Table 1 below.

The Henry PlyDry Housewrap is an approved alternative to code prescribed materials specified in Chapter 14 of the 2024 / 2021 / 2018 / 2015 IBC and Chapter 7 of the 2024 / 2021 / 2018 / 2015 IRC. PlyDry Housewrap water-resistive barriers are equivalent to 60-minute Grade D paper described in Chapter 25 of the 2024 / 2021 IBC and Chapter 7 of the 2024 / 2021 / 2018 / 2015 IRC. The PlyDry Housewrap product is a combustible water-resistive barrier approved for use in buildings up to 40 ft (12.2 m) building height above grade, except where evidence of compliance for the exterior wall assembly is provided based on compliant evaluation to NFPA 285.

Table 1. PlyDry Housewrap Dimensions

PRODUCT	DIMENSIONS	LENGTH		WIDTH		PRODUCT WEIGHT	
		feet	m	feet	m	oz/yd^2	g/m^2
PlyDry	Minimum	195	59.4	10	3.0	1.83	62
	Maximum	100	30.5	9	2.7		

Alternate dimensions can be available on request.

3.0 DESIGN:

Use of PlyDry Housewrap water-resistive barrier does not require design. PlyDry Housewrap outlined in this report is intended to be installed with code compliant exterior wall coverings complying with Section 1403 of the 2024 / 2021 / 2018 IBC, Section 1404 of the 2015 / 2012 IBC and Section R703 of the 2024 / 2021 / 2018 / 2015 / 2012 IRC.

PlyDry Housewrap is a combustible water-resistive barrier limited to buildings of 40 ft (12.2 m) above grade, except where testing in compliance with NFPA 285 of the exterior wall assembly is provided.

4.0 INSTALLATIONS:

4.1 General:

The PlyDry Housewrap must be installed in accordance with the manufacturer's published installation inscructions, the applicable Code, and this Code Evaluation Report.

PlyDry Housewrap must be installed after wall framing is completed and before windows and doors are installed. Starting from the bottom of wall and working upwards to ensure overlaps provide water shedding at interface joints, the roll must be placed a minimum of 24 inches (610 mm) from the starting corner. PlyDry Housewrap is attached to the code complying sheathing with either:

1) No. 12 corrosion-resistant nails having minimum 1-inch-diameter (25 mm) plastic washer heads or cap heads spaced between 12 and 18 inches (305 to 457 mm) on center at each vertical stud line, or
2) No. 16 corrosion-resistant staples with minimum 1-inch (25 mm) crowns, spaced between 12 and 18 inches (305 to 457 mm) on center at each vertical stud line.

PlyDry Housewrap is unrolled around the building and fastened with fasteners and spacing described above. The printed side of PlyDry Housewrap is required installed facing the exterior. Overlaps at seams of minimum of 6 inches (203 mm) for vertical seams and 6 inches (203 mm) for horizontal seams is required except where greater overlap for applications used is specified.

Where PlyDry Housewrap is installed under exterior cement plaster (stucco) and over wood-based sheathings in jurisdictions governed by the 2024 / 2021 IBC or 2024 / 2021 IRC, installation per Section 2510.6 or Section R703.7 2021 IRC are required as outlined below:

Dry (B) Climates one of the below installation methods is required:

1. PlyDry Housewrap shall be installed in 2 layers, with each layer installed independently such that each layer provides a separate continues plant and any flashing installed in accordance with Section 1404.4 of the 2024 / 2021 IBC or Section 703.4 of the 2024 / 2021 IRC intended to drain to the water-resistive barrier is directed between the layers.
2. PlyDry Housewrap shall be installed as a single layer separated by the exterior cement plaster (stucco) by a layer of foam plastic insulating sheathing or other nonwatery absorbing layer, or a drainage space or means of drainage as required for Moist or Marine climates as outlined below, with flashing complying with Section 1404.4 of the 2024 / 2021 IBC or Section 703.4 of the 2024 / 2021 IRC draining the PlyDry Housewrap directed to drain on exterior side of the PlyDry Housewrap layer.

Moist (A) or Marine (C) Climates one of the below installation methods is required:

1. In addition to Dry (B) climate items (1) and (2) above, a space or drainage material of minimum 3/16-inches (5 mm) is required installed on the exterior of the PlyDry Housewrap.
2. In addition to Dry (B) climate item (2) above, drainage efficiency on the exterior side of PlyDry Housewrap shall be a minimum 90% determined per ASTM E2273 or ASTM E2925 Annex A2.

Where PlyDry Housewrap is installed under exterior cement plaster (stucco) and over wood-based sheathings in jurisdictions governed by Section R703.7 2024 / 2021 / 2018 / 2015 / 2012 IRC, PlyDry Housewrap shall be installed in 2 layers, with each layer installed independently such that each layer provides a separate continues plane and any flashing installed in accordance with Section 1404.4 of the 2021 IBC or Section R703.4 of the 2021 IRC intended to drain to the water-resistive barrier is directed between the layers, with the following exceptions:

1. PlyDry Housewrap is separated from the exterior plaster (stucco) by an intervening, substantially nonwater-absorbing layer or drainage space, or

Where PlyDry Housewrap is installed under cementitious coatings or exterior insulation and finish systems, installation is to follow the exterior coverings approved installation instructions.

5.0 LIMITATIONS

- Installation of PlyDry Housewrap is to comply with the applicable codes, this report and the manufacturer's installation instructions. Where differences are found between documents, the applicable code and this report must be followed.
- PlyDry Housewrap is limited to installations over solid sheathing complying with the applicable code.
- PlyDry Housewrap is intended for installation under exterior cladding complying with the applicable code.
- PlyDry Housewrap is classified as a combustible water-resistive barrier, approved for use in Types II, III and IV construction up to 40 ft (12.2 m) above grade building height.
- PlyDry Housewrap is manufactured in Richmond, VA with inspections by QAI Laboratories.

6.0 SUPPORTING INFORMATION:

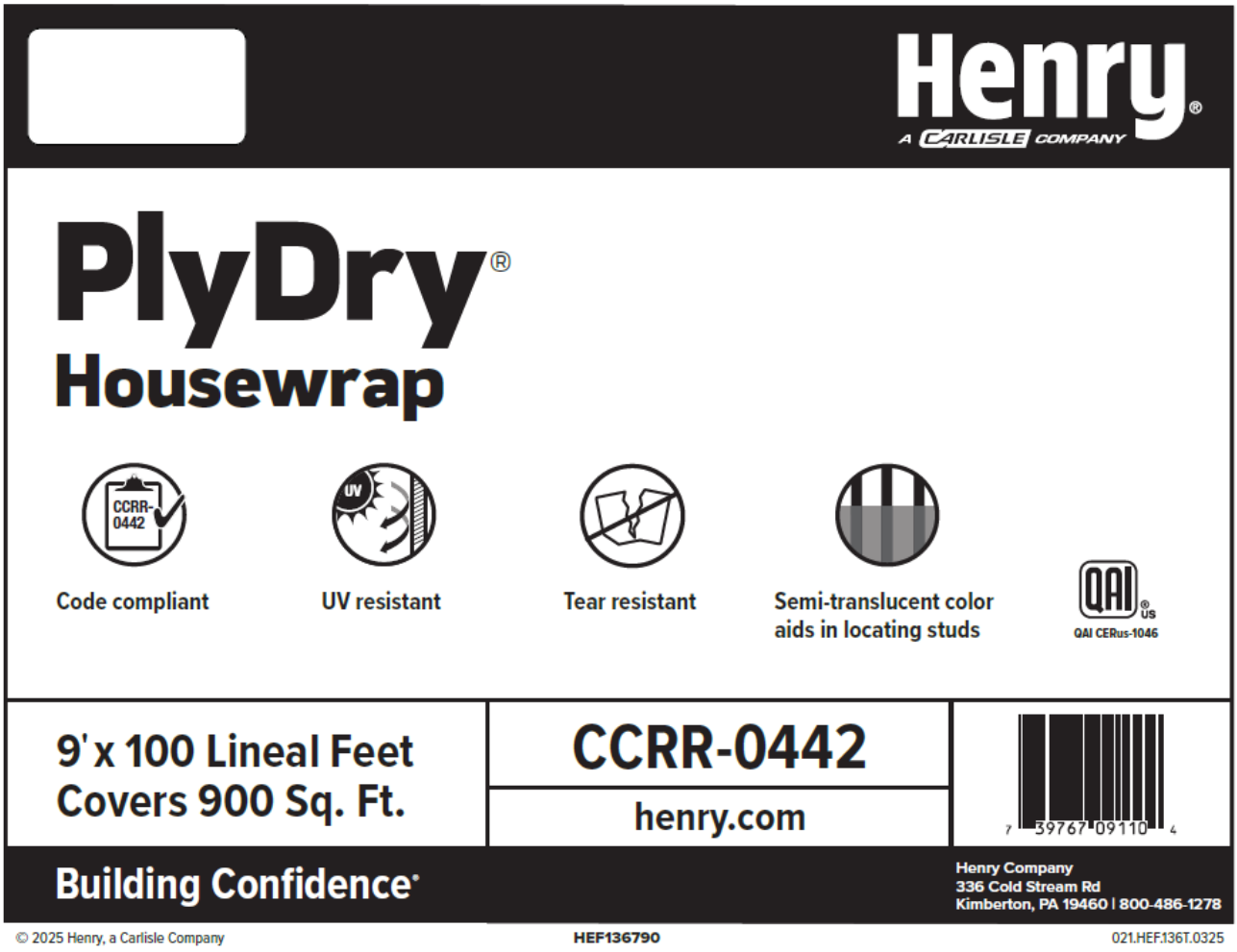
The following data has been evaluated for Henry's PlyDry Housewrap:

- Data demonstrating compliance with No. 15 felt complying with ASTM D226 Type 1 per Section 1403.2 of the 2024 / 2021 / 2018 IBC.
- Data demonstrating performance in accordance with ASTM E84.

7.0 MARKING:

Henry's PlyDry Housewrap includes the the following information on the product label:

- Product Name.
- Manufacturer.
- Country of Manufacture.
- QAI CER_{US}-1046
- QAI Certification Mark shown below:



8. ELIGIBILITY OF REPORT

QAI's Code Evaluation Report complies with Section 104.4.2.3.6.1 *Evaluation reports* of the 2024 IBC, and Section 104.11 *Research Reports* of the 2021 / 2018 / 2015 IBC. Supporting data has been evaluated by QAI for compliance of the noted materials and assemblies to the applicable code by QAI, and *approved* source as detailed below.

The attached report has been reviewed by a QAI Registered Professional Engineer approved by the specific state Board of Professional Engineers noted on the specific P.E. seal(s).

Per section 1703 of the IBC, QAI is an independent third-party testing, inspection and certification agency accredited by the International Accreditation Service, Inc. (IAS) for this specific scope (see IAS PCA-118). QAI can confirm that based on its IAS accreditation it meets IBC Section 1703.1 on Independence, Section 1703.1.2 on Equipment and Section 1703.1 on Personnel.

This Evaluation report has been designed to meet the performance requirements of IBC Section 1703.4 and contains the required information to show the product, material or assembly meets the applicable code requirements.

The product is labeled per section IBC 1703 and subject to follow-up inspection per IBC 1703.6 using QAI IAS accredited ISO/IEC 17020 inspection program (see IAS AA-723).

For more information regarding QAI Laboratories, please visit www.qai.org.

The above is an example of the QAI registered Listing mark. The Listing mark may only be used by the Report Holder per the QAI service agreement on products defined in this report. The 'us' indicator in the 4 o'clock position indicates the product complies with the properties evaluated with limitations outlined in this report for use in the US market. A 'c' indicator in the 8 o'clock position indicates the product has been evaluated for use in the Canadian market.

11. REFERENCED STANDARDS

NFPA 285 *Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components*.
ASTM D226 *Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing*.
ASTM E84 *Standard Test Method for Surface Burning Characteristics of Building Materials*
ASTM E2273 *Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies*.
ASTM E2925 *Standard Specification for Manufactured Polymeric Drainage and Ventilation Materials Used to Provide a Rainscreen Function*.

IAS ACCREDITED Product Certification Agency PCA-118