



PRODUCT: *PlyDry III Roof Underlayment*
DIVISION: Thermal and Moisture Protection (07)
SECTION: Steep Slope Roofing (07 30 00)

Report Holder:
Shepherd Distribution
2505 Marina Dr.
Elkhart, IN 46514

Manufacturing Location(s):
As noted above

1. SUBJECT:
PlyDry III Roof Underlayment.

2. SCOPE:
NTA, Inc. has evaluated the above product(s) for compliance with the relevant sections of the following codes:

- 2006 International Building Code® (IBC)
- 2006 International Residential Code® (IRC)
- Federal Manufactured Home Construction and Safety Standards, 24 CFR §3280

NTA, Inc. has evaluated the following properties of the above product(s):

- Roof underlayment performance in accordance with ICC-ES AC188.

3. USES
PlyDry III Roof Underlayment is intended for use as an alternative to the ASTM D226 and ASTM D4869, Type I (No. 15) or Type II (No. 30) roofing underlayment specified in Chapter 15 of the IBC and Chapter 9 of the IRC. *Ply Dry III* is for use in factory built structures only.

4. DESCRIPTION:
PlyDry III Roof Underlayment is intended for use as an alternative to the Type I (No. 15) and Type II (No. 30) underlayments specified in Chapter 15 of the IBC, and Chapter 9 of the IRC.

PlyDry III Roof Underlayment is composed of a single ply of kraft paper coated on each side with a water repellent black coating and has a nominal weight of 35.5 lbm/100 ft² and a nominal thickness of 8.5 mils. *PlyDry III Roof Underlayment* is produced in 6-inch to 204-inch-wide by 1000-foot to 3000-foot-long rolls.

5. INSTALLATION:

PlyDry III Roof Underlayment shall be fabricated, identified and installed in accordance with this report, the manufacturer's published installation instructions, and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report shall govern. ^{NACU1} The installation instructions shall be available at the point of installation.

PlyDry III Roof Underlayment must be installed over solid sheathing. Minimum roof slope is 2:12 (17% slope). Roof slopes from 2:12 (17%) up to 4:12 (33%), where the roof is covered with asphalt shingles, double underlayment application is required.

EXCEPTION: Double underlayment application is not required on manufactured housing construction complying with 24 CFR §3280.

Prior to application, the deck surface shall be free of dust, dirt, loose nails, and other protrusions. Damaged sheathing shall be replaced. The underlayment is laid horizontally (parallel to eave) and may be installed with either side facing upward. For roof slopes from 2:12 (17%) up to 4:12 (33%), underlayment shall be applied in two layers with successive sheets overlapping a minimum of 19-inches. For roof slopes 4:12 (33%), or greater, underlayment shall be applied in one layer with successive sheets lapped a minimum of 2-inches. Overlaps shall run with the flow of water in a shingling fashion. The underlayment shall be fastened only as necessary to hold it in place

PlyDry III Roof Underlayment applied in areas subject to high winds (as defined by the IRC), shall be applied with corrosion-resistant fasteners. These fasteners are to be applied along the overlap, not farther apart than 36 inches on center

In areas of the roof required to have an ice barrier under the IBC or IRC, two layers of the *PlyDry III Roof Underlayment* shall be cemented together with a low-solvent-based roofing cement complying with ASTM 4586 (asbestos-free), for a minimum distance inside the exterior wall line of the building as specified by the applicable code. As an alternative, a self-adhering polymer modified bitumen sheet, complying with ASTM D1970 or the ICC-ES Acceptance Criteria for Severe Climate Underlayments (AC48), shall be applied.

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The ice barrier shall be applied over the solid substrate in sufficient courses equal to the distance inside the exterior wall line of the building that is specified in the appropriate section of the applicable code. *PlyDry III Underlayment* shall overlap the ice barrier.

Installation of the roof covering can proceed immediately following the underlayment application. *PlyDry III Roof Underlayment* is intended for installation on factory built structures and the product must be covered by a roof covering or otherwise protected from the elements prior to leaving the production facility. Direct exposure to sunlight, wind, and/or rain shall be avoided during storage and prior to covering the underlayment with a roof covering. All factory installed underlayment exposed to the elements after installation must be covered by plastic or similar protection until roof covering is applied on-site.

6. CONDITIONS OF USE:

PlyDry III Roof Underlayment described in this report complies with the codes listed in Section 2.0, subject to the following conditions:

- 6.1. *PlyDry III Roof Underlayment* shall be fabricated, identified and installed in accordance with this report, the manufacturer's published installation instructions, and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report shall govern. ^{NACU1} The installation instructions shall be available at the point of installation. Underlayment shall only be installed in factory built structures in facilities meeting the requirements of Section 5.
- 6.2. *PlyDry III Roof Underlayment* must be fabricated in the facility(ies) listed in this report. ^{NACU2}
- 6.3. Installation in manufactured housing complying with 24 CFR §3280 is subject to DAPIA review and approval prior to use.
- 6.4. *PlyDry III Roof Underlayment* shall only be used with other roof component, such as asphalt shingles as applicable.
- 6.5. Installation is not permitted in classified roof assemblies where the classified assembly relies on the resistance of the underlayment for obtaining the assembly classification.
- 6.6. Installation is limited to roofing systems that do not involve hot asphalt or coal-tar pitch.
- 6.7. *PlyDry III Roof Underlayment* is limited to use on roofs with a slope of 2:12 (16.67%) or greater. ^{ACU7}

- 6.8. *PlyDry III Roof Underlayment* use is limited to roofs with ventilated attic spaces. ^{ACU6}
- 6.9. *PlyDry III Roof Underlayment* is manufactured in the production facility(ies) noted in this report and under a quality control program approved by NTA, Inc.
- 6.10. *PlyDry III Roof Underlayment* is limited to use on structures or occupancies where non-classified roof coverings are permitted. ^{ACU2}
- 6.11. *PlyDry III Roof Underlayment* is not to be exposed to more than incidental Ultraviolet Rays. ^{ACU5}
- 6.12. *PlyDry III Roof Underlayment* is not to be used on substrates other than solid sheathing. ^{ACU8}
- 6.13. *PlyDry III Roof Underlayment* must be mechanically fastened to the sheathing or rafters. ^{ACU11}

7. EVIDENCE SUBMITTED:

NTA, Inc. has examined the following evidence to evaluate this product:

- 7.1. Review of plant quality assurance manual
- 7.2. Plant certification inspection of manufacturer's production facilities, test procedures, frequency and quality control sampling methods, test equipment and equipment calibration procedures, test records, dates and causes of failures when applicable.
- 7.3. Qualification test data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188)
- 7.4. Follow-up quality assurance audits of the production facility(ies) in accordance with NTA, *ISSOP 3.3* General Inspection Procedure
- 7.5. Follow-up inspections and testing in accordance with NTA, Inc. Inspection Methods 11, 13 and 18 (IM11, IM13 and 18).

Evaluation evidence and data are on file with NTA, Inc. NTA, Inc. is accredited by the International Accreditation Service (IAS) as follows:

ISO17020 Inspection Agency (AA-682)

ISO17025 Testing Laboratory (TL-259)

ISO Guide 65 Product Certification Agency (PCA-102)

The scope of accreditation related to testing, inspection or product certification pertain only to the test methods and/or standard referenced therein. Design parameters and the application of building code requirements, such as special inspection, have not been reviewed by IAS and are not covered in the accreditation. Product evaluations are performed under the direct supervision of Professional Engineers licensed in all jurisdictions within the United States as required by the building code and state engineering board rules.

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8. FINDINGS:

All *PlyDry III Underlayment* is manufactured under an in-plant Quality Assurance program to insure that the production quality meets or exceeds the requirements of the relevant sections of the codes listed in Section 2.0, ICC-ES AC188, and the criteria established by NTA, Inc. Furthermore, *PlyDry III Underlayment* must comply with the conditions of this report.

This report expires one year from the issue date noted below.

9. IDENTIFICATION:

Each eligible roll of *PlyDry III Underlayment* shall be permanently marked to provide the following information:

- a) The NTA, Inc. listing mark, shown below;
- b) NTA's Listing No. SHP080205-52
- c) name & address of manufacturer;
- d) product name and/or model number;
- e) nominal thickness;
- f) nominal width and length;
- g) lot or batch number.



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