



ROOFERS' ADVANTAGE PRODUCTS, INC. | GUIDE SPECIFICATION

SECTION 07 65 00

FLEXIBLE FLASHING: FLASH DECK® NAIL BASE

PART 1 - GENERAL

1.01 SUMMARY

- **A. Section Includes:** This Section specifies the Flash Deck® Nail Base high-performance, mechanically attached synthetic underlayment used as a secondary weather-resistant and dry-in layer for metal and asphalt steep-slope roofing systems.
- **B. System Application Context:** Flash Deck® Nail Base is engineered as a high-strength synthetic dry-in underlayment for the primary field of the roof. Where code or design requires enhanced perimeter protection, Nail Base is specified to accompany Flash Deck® Metal Base or Flash Deck® Shingle Base self-adhered systems allowing self-adhered membranes to protect vulnerable eaves, valleys, and rakes while Nail Base covers the remaining field efficiently across shingle and metal installations.

Related Sections:

[**SPECIFIER NOTE:** Edit the section list below to suit project requirements. Ensure Sections 06 16 00 (Sheathing), 07 62 00 (Sheet Metal Flashing and Trim), and the appropriate primary roofing section (Section 07 31 13 for asphalt shingles or Section 07 41 13 for metal roof panels) are retained based on the specified roof covering.]

- [] **Section 06 16 00** – Sheathing (For the wood or plywood deck substrate the underlayment is mechanically fastened to)
- [] **Section 07 27 00** – Air Barriers / Water-Resistive Barriers (For building envelope continuity where applicable)
- [] **Section 07 31 13** – Asphalt Shingles (Retain for shingle roof covering installations)
- [] **Section 07 41 13** – Metal Roof Panels and Metal Shingles (Retain for structural, architectural, snap-lock metal roof panels, or metal shingle/tile installations)
- [] **Section 07 62 00** – Sheet Metal Flashing and Trim (Crucial for perimeter edge metals, valleys, and wall flashings)

1.02 SYSTEM ADVANTAGES & INSTALLATION PROTECTION

- **A. Extended UV Exposure Window:** Engineered to withstand up to 6 months (180 days) of direct UV exposure, vastly outperforming standard industry synthetics rated for only 30 to 90 days. Providing contractors with a substantial buffer against unexpected project delays or prolonged delivery times for primary roofing procurement.
- **B. Superior Tear Strength & Material Weight Profile:** Features an advanced, non-spunbound 11 mil woven polypropylene (PP) core that delivers exceptional nail-pull and tear-resistance values under heavy foot traffic, while maintaining an ultra-lightweight 25 lbs. per 10-square roll profile for effortless handling.

- **C. Dual-Target Precision Fastening Matrix:** Incorporates a precision-engineered dual-target marking system (explicitly mapping out fastening locations for standard application and double-fastening locations for extreme weather), ensuring exact, code-compliant fastener concentration without guesswork.
- **D. Metal and Shingle Dual-Compatibility Architecture:** Formulated and tested to perform seamlessly under both metal panel roof systems and asphalt shingles, serving as a versatile, high-performance dry-in layer for multiple-trade operations.
- **E. Enhanced Perimeter Protection:** Exceeds standard applications where no self-adhered field sheet is required. Flash Deck® Nail Base installations shall incorporate a dedicated Flash Deck® Strip-In membrane along all perimeters (eaves and rakes) prior to installing the Flash Deck® Nail Base and drip edge assemblies, ensuring complete perimeter defense.

1.03 SYSTEM PERFORMANCE & CODE APPROVALS

Regulatory Requirements:

- **Material & Industry Standards:** Meets or exceeds ASTM D8257 standard specifications for mechanically attached polymeric roof underlayment used in steep-slope roofing. Exceeds the physical performance requirements of traditional Type I and Type II asphalt-saturated organic felt underlayment (ASTM D226).
- **Model Building Codes:** Compliant with current International Building Code (IBC) and International Residential Code (IRC) requirements for steep-slope roof underlayment.
- **Florida Building Code (FBC) Approval:** Approved under **FL 26047** for compliance with Florida residential and commercial building requirements. *(Note: Approved for use throughout the State of Florida excluding the High Velocity Hurricane Zone (HVHZ) as defined by the FBC).*
- **Texas Department of Insurance (TDI) Compliance:** Compliant with Texas Department of Insurance wind load and coastal construction requirements.
- **Quality Assurance & Independent Testing:** Certified under QAI Certification **CERus-1020**. Independent third-party test reports, laboratory certifications, and regional product evaluation documentation are available upon formal request through manufacturer channels.

1.04 SUBMITTALS

- **A. Product Data:** Submit manufacturer's Technical Data Sheets (TDS).
- **B. Installation Instructions:** Manufacturer's printed Installation Protocols.
- **C. Samples:** Submit manufacturer's standard roll sample (6" × 6" minimum size) illustrating the woven polypropylene construction, surface print matrix, and film profile.

1.05 QUALITY ASSURANCE

- **A. Installer Qualifications:** Installer shall be a **Roofers' Advantage® Butyl Deck Certified** Contractor with a minimum of 3 years of experience in installing similar products.
- **B. Special Inspector:** Minimum 5 years of experience meeting qualifications in accordance with current code requirements.

- **C. Safety Compliance:** All installations shall follow OSHA safety guidelines, including the use of fall arrest systems and appropriate slip-resistant footwear.

1.06 DELIVERY, STORAGE AND HANDLING

- **A. Delivery:** Deliver materials in unopened, factory-labeled packages.
- **B. Storage:** Store rolls upright in a dry, ventilated area. Maintain storage temperatures between 10°F and 179°F. Keep away from flames, sparks, and solvents.
- **C. Shelf Life:** 2-year shelf life under proper storage conditions.
- **D. Load Time:** Product is subject to standard manufacturing and freight lead times of 4 to 6 weeks; ordering schedules must be coordinated accordingly with Roofers' Advantage Products, Inc.

1.07 CLOSEOUT SUBMITTALS

- **Manufacturer's Warranty:** Roofers' Advantage Warranty Company, LLC (RAWC) 30-year extended limited warranty on asphalt shingle installations and up to 50-year extended limited warranty matching metal roofing warranty duration.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- **Basis-of-Design Manufacturer:** Roofers' Advantage Products, Inc. | **Flash Deck® Nail Base**
- **Address:** 4 Valhalla Way, Wakefield, NH 03872
- **Website:** www.roofersadvantage.com
- **Toll-Free Phone:** 888-YELO NOW (935-6669)
- **Direct Line:** 603-522-5200
- **Technical Support:** tech@roofersadvantage.com

2.02 MATERIALS

- **A. Basis-of-Design Product:** Roofers' Advantage Products, Inc. | **Flash Deck® Nail Base**
- **B. Mechanically Attached Underlayment:** Non-Woven / Woven Polypropylene Synthetic: ASTM D8257, high-traction, engineered for exceptional tear resistance, secure walkability, and up to 6 months of UV exposure.
- **C. Mechanically Attached Underlayment: Flash Deck® Nail Base**
 1. **Composition:** Non-spunbound 11 mil woven polypropylene (PP) core engineered for exceptional tear resistance, high tensile strength, and secure walkability.
 2. **Nominal Thickness:** 11 mils. – Advanced woven polymer construction achieves superior nail-pull and tear-resistance values under heavy foot traffic at optimized 11 mils, eliminating dead weight while maintaining maximum jobsite durability.

3. **Dimensions:** 4 feet by 250 feet (1,000 sq. ft. per roll).
4. **Weight:** Nominal weight of 3.25 oz./sq. yd. (110 g/sq. m) (25 lbs. per roll).
5. **Service Temperature Range:** -40°F to 240°F.
6. **UV Exposure Window:** 6 Months (180 Days) maximum outdoor exposure.
7. **Tear Resistance:** In accordance with ASTM D4073: Longitudinal: 75.5 lbf (340 N) and Traverse: 82.3 lbf (366 N).

[SPECIFIER NOTE: To establish a closed proprietary specification (Basis of Design only), delete the comparable products below. Retain the comparable products only if the project requires an open bidding format.]

- **A. Basis of Design / Primary Product:** Roofers' Advantage Products, Inc. | **Flash Deck® Nail Base**
- **B. [] Comparable Product:** GAF; FeltBuster®
- **C. [] Comparable Product:** Owens Corning; ProArmor®

2.03 ACCESSORY MATERIALS

- **A. Accessory Detail Flashing: Flash Deck® Strip-In**
 1. **Composition:** Non-woven polypropylene underlayment with "Zero-Asphalt" Butyl adhesive.
 2. **Nominal Thickness:** 17.5 mils. – Advanced non-asphaltic butyl formulation achieves superior elongation, bond strength, and nail sealability compliance under ASTM D1970 at an optimized 17.5 mils, eliminating excessive dead weight and thermal mass.
 3. **Dimensions:** 9 inches by 100 feet (75 sq. ft. per roll; 0.75 squares).
 4. **Weight:** 467.12 GSM material density (7.5 lbs. per 75 sq. ft. roll).
 5. **Service Temperature Range:** -40°F to 240°F.
 6. **UV Exposure Window:** 6 Months (180 Days) maximum outdoor exposure.
 7. **Permeability:** 0.042 (vapor barrier) per ASTM E96.
 8. **Description:** Flash Deck® Strip-In reinforces all critical roof junctions. It creates essential redundancy in valleys, effectively isolates the vertical legs of wall flashings, and provides multiple eave application options for superior deck sealing while isolating fasteners to prevent corrosion.

PART 3 - EXECUTION

3.01 EXAMINATION & PREPARATION

- **A. Substrate:** Inspect deck for structural integrity. Must be clean, dry, and free of debris, rotted wood, or protrusions.

3.02 INSTALLATION

1. **Layout & Direction:** Install Flash Deck® Nail Base horizontally with the printed surface facing up, working from eave (low point) toward the ridge (high point).

2. **Laps:** Maintain a minimum 4-inch horizontal head lap and 12-inch vertical end lap.
3. **Fastener Concentration:**
 - **Standard Application:** Place fasteners in each printed bullseye mark and ignore the circle marks.
 - **Extreme Weather Applications:** For extended periods of exposure or anticipated extreme wind/weather conditions, double the fastening strength by placing nails in both bullseye and circle marks printed on the underlayment.
4. **Fastener Spacing & Types:**
 - **Preferred Fasteners:** Standard roofing nails with a 83" head provide the best protection against water infiltration and are the preferred fastener for most Flash Deck® Nail Base applications, spaced every 12" in the seams and staggered every 24" along two rows in the field.
 - **Cap Nails:** 1" plastic or metal cap nails may be used when required by local building code or if unusually high winds are forecast during installation.
 - **Staple Application (Short-Term Only):** Staples are acceptable only if the primary roofing material will be installed the same day and permitted by local code. When utilizing staples, apply a continuous line along the seams with minimal staples in the field.
5. **Drip Edge Sequencing:**
 - **Eave Edge (Bottom):** Install Flash Deck® Nail Base over the drip edge at eaves to facilitate positive water shedding.
 - **Rake Edge:** Install Flash Deck® Nail Base under the drip edge at the rakes to facilitate positive water shedding.
6. **Wall Detailing:** Install Flash Deck® Strip-In along a pre-snapped chalk line to fully encapsulate the vertical legs of metal wall flashings (step, continuous, and headwall), sealing this critical transition against water intrusion.
7. **System Detailing (Select one):**

[**SPECIFIER NOTE:** Select one system detailing option below to suit project requirements based on exposure severity and local wind/water loads. For detailed installation diagrams, contact our technical support team directly at tech@roofersadvantage.com.]

- **A. [] Code-Required SA Integration:** Install code-required self-adhered (SA) Flash Deck® Metal Base or Flash Deck® Shingle Base in conjunction with Flash Deck® Nail Base at required eave, rake, and valley transitions.
- **B. [] Standalone Nail Base with Strip-In:** Standalone Flash Deck® Nail Base installation where code does not require a self-adhered base sheet. Use Flash Deck® Strip-In at all roof perimeters (eaves and rakes) in conjunction with Flash Deck® Nail Base for enhanced perimeter protection.
- **C. [] Standalone Flash Deck Nail Base:** Standalone Flash Deck® Nail Base installation without the use of Flash Deck® Metal Base, Flash Deck® Shingle Base, or Flash Deck Strip-In.

3.03 PROTECTION

- **A. UV Exposure:** Install primary roof cladding within 6 months (180 days) maximum outdoor exposure.
- **B. High-Traffic:** Install protective boardwalks or walk pads during material loading and construction operations to prevent surface scuffing, punctures, or damage to installed underlayment.

3.04 FIELD QUALITY CONTROL

- **Inspection:** Verify that the roof deck is secure and that fastener placement and spacing comply with structural requirements. Ensure no voids and verify that all product overlaps have been properly aligned and secured prior to primary roof installation. Repair surface damage or lacerations using a patch extending 6" beyond the damaged area or a 9" Flash Deck® Strip-In extending 6" beyond damage, and secure perimeter edges.

END OF SECTION