



ROOFERS' ADVANTAGE PRODUCTS, INC. | GUIDE SPECIFICATION

SECTION 07 65 00

FLEXIBLE FLASHING: FLASH DECK® SHINGLE BASE

PART 1 – GENERAL

1.01 SUMMARY

This Section specifies the Flash Deck® Shingle Base high-temperature (HT), self-adhering (SA) underlayment used as a secondary water barrier for shingle roofing systems.

Related Sections:

[SPECIFIER NOTE: Edit the section list below to suit project requirements. For asphalt shingle installations, ensure Sections 06 16 00 (Sheathing), 07 31 13 (Asphalt Shingles), and 07 62 00 (Sheet Metal Flashing and Trim) are retained to properly capture Flash Deck Shingle Base and Strip-In applications.]

- [] **Section 06 16 00** – Sheathing (For the wood or plywood deck surface the underlayment adheres to)
- [] **Section 07 27 00** – Air Barriers / Water-Resistive Barriers (For building envelope continuity and secondary water barrier specs)
- [] **Section 07 31 13** – Asphalt Shingles (The primary section for architectural [dimensional / laminated], 3-tab [strip], or luxury/designer asphalt shingles, including Class 4 Impact-Resistant [IR] or Algae-Resistant [AR] lines requiring **Class A** fire resistance classification when installed in assembly with Flash Deck® Shingle Base underlayment in accordance with ASTM E108 or UL 790 standards)
- [] **Section 07 62 00** – Sheet Metal Flashing and Trim (Crucial for Flash Deck Strip-In applications around valleys, eaves, rakes, chimneys, and roof penetrations)
- [] **Section 07 71 00** – Roof Specialties (For perimeter edge metals, drip edges, and related accessories)

1.02 SYSTEM ADVANTAGES & INSTALLATION PROTECTION

- **A. Eave Detailing Options:** System provides architectural flexibility with three distinct eave installation tiers (Standard, Enhanced, and Superior) allowing specifiers and contractors to tailor eave protection to local climate, exposure severity, and building construction.
- **B. Valley Reinforcement:** Incorporates a high-performance dual-layer approach by requiring a dedicated Flash Deck® Strip-In membrane installed in the valley profile prior to Flash Deck® Shingle Base application, fortifying high-flow water zones against failure and providing under-construction protection.
- **C. Wall Flashing Tie-Ins:** Mandates specialized strip-in detailing over the vertical leg of all wall flashings along a pre-snapped chalk line, creating a secondary water barrier at critical roof deck-to-wall transitions.
- **D. Enhanced Ice Barrier Protection:** Exceeds standard building code requirements. While the International Residential Code (IRC) mandates an ice barrier extending only to a point at least 24 inches inside the interior wall line, Flash Deck® specifications require extending the underlayment a full 36 inches inside the interior wall line for superior, code-surpassing protection against ice damming and wind-driven water intrusion.

1.03 SYSTEM PERFORMANCE & CODE APPROVALS

Regulatory Requirements:

- **Material Standards:** Meets or exceeds ASTM D1970 standard specifications for self-adhering polymer modified bituminous sheet materials.
- **Code & Regulatory Compliance:** Engineered to comply with applicable national building code requirements for steep-slope roof underlayment and secondary water barriers.
- **Florida Building Code (FBC) Approval:** Approved under **FL 47826** 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-1056**. Independent third-party test reports, laboratory certifications, and regional product evaluation documentation are available upon formal request through manufacturer channels.
- **Class A Fire Classification:** Flash Deck® Shingle Base underlayment is engineered and tested to maintain Class A fire resistance classifications when installed in assembly with approved fiberglass asphalt shingle roof coverings in accordance with ASTM E108 or UL 790 standards.

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 non-asphaltic butyl adhesive composition, release liner, and surface 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 –20°F and 240°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) up to 30-year extended limited warranty.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- **Basis-of-Design Manufacturer:** Roofers' Advantage Products, Inc. | **Flash Deck® Shingle 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® Shingle Base**
- **B. High-Temperature (HT) Self-Adhering (SA) Sheet Underlayment:** Non-Woven Polypropylene Faced: ASTM D1970/D1970M, high-traction, with the underside of the facer being coated with a pressure-sensitive butyl rubber covered with a removable split release liner backing; immediate-bond technology; cold-applied.
- **C. High-Temperature Underlayment: Flash Deck® Shingle Base**
 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:** 3 feet by 100 feet (300 sq. ft. per roll).
 4. **Weight:** 467.12 GSM (28.5 lbs. per 300 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.

[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® Shingle Base**
- **B. [] Comparable Product:** GAF; StormGuard® / WeatherWatch®
- **C. [] Comparable Product:** Owens Corning; Titanium® PSU30

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.
- **B. Priming:** Required for concrete/masonry using butyl-compatible primer. Not required for clean wood decks above 5°F.

3.02 INSTALLATION

1. **Valleys:** Install 9-inch Flash Deck® Strip-In prior to primary underlayment, working from eave to ridge. Crease lengthwise to conform to valley profile, center in valley, and press firmly into place. Overlap Flash Deck® Shingle Base centered in the valley onto the already installed Flash Deck® Strip-In. Flash Deck® Strip-In is not a complete standalone valley detail and must always be covered by a primary self-adhered Flash Deck® Shingle Base

2. **Eaves (General):** Work from eave (low point) to ridge (high point), extending membrane at least 36 inches inside the interior wall line. At the eave edge, coordinate sequencing with drip edge and Flash Deck® Strip-In per selected eave detailing tier.
3. **General Sequencing & Laps:** Work from eave (low point) to ridge (high point). Extend membrane 36 inches inside the interior wall line. Maintain 4-inch horizontal head laps and 10-inch vertical end laps. Stagger vertical laps by a minimum of 6 feet.
4. **Adhesion & Seaming:** Peel release liner and apply membrane. Broom the field and hand-roll all seams and overlaps using a weighted roller to activate the pressure-sensitive adhesive bond.
5. **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.
6. **Eave Detailing (Select one):**

[**SPECIFIER NOTE:** Select one eave detailing option below to suit project requirements based on exposure severity and local wind/water loads. For detailed installation diagrams, see drawings SHG-1, SHG-2, and SHG-3, or contact our technical support team directly at tech@roofersadvantage.com.]

- **A. Standard:** [] Install drip edge first directly onto roof deck; apply Flash Deck® Shingle Base over nail flange to the nose of drip edge.
- **B. Enhanced:** [] Apply Flash Deck® Shingle Base onto fascia; install drip edge; seal drip edge nail flange with Flash Deck® Strip-In.
- **C. Superior:** [] Install Flash Deck® Strip-In on roof deck extending onto fascia; install drip edge; apply Flash Deck® Shingle Base over top of drip edge flange, covering all fasteners.

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 and detail flashings.

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 rolled and bond-verified prior to primary roof installation. Repair surface damage or lacerations using a round patch extending 6" beyond the damaged area or a 9" Flash Deck® Strip-In extending 6" beyond damage, and roll entire patch to bond.

END OF SECTION

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