



Installation Guide

Arcno

High-Performance Synthetic Underlayment

For Metal • Tile • Slate • Wood • Asphalt • Synthetic Shingles

Product Overview

Arcno synthetic underlayment is a top choice for roofing professionals, delivering superior protection against water intrusion, moisture buildup, mold, and rot. Its premium, non-slip, wrinkle-free surface ensures fast, clean, and safe installation, performing flawlessly under virtually all steep-slope roofing materials—including metal, tiles, slate, wood, asphalt, and synthetic shingles. Lightweight, durable, and highly reliable, Arcno keeps roofs secure and long-lasting, even in extreme weather.

Deck Prep

Arcno should be applied to a properly prepared dry deck that is smooth, clean and free from any depressions, projections, or protruding nails. Acceptable roof deck materials are minimum 3/8 inch plywood, minimum 7/16 inch OSB, or minimum 6 inch roof deck boards. Roof decks should be structurally sound and meet or exceed minimum requirements of the roof deck manufacturer and local building codes.

Use

Arcno must be covered by primary roofing within 180 days of application and is designed for use under asphalt or synthetic shingles, metal in residential applications, and cedar shakes that have been primed.

Application

Slopes from 4:12 and higher: Arcno is to be laid out horizontally (parallel) to the eave with the printed side up. Horizontal laps should be 4 inches and vertical laps should be 6 inches and anchored approximately 1 inch in from the edge. End laps in a succeeding course should be located at least 6 feet from laps in the preceding course. Slopes 2:12 to less than 4:12: Cover the deck with two layers of Arcno. Begin by fastening a 22 inch wide strip of Arcno along the eaves with the minimal fasteners need to hold the course in place. Place a full-width sheet over the 22 inch course and overlap each successive course by 50 % plus 1 inch. Additional fasteners may be required in high. wind regions per local building codes. Vertical lap requirements are the same as 4:12 and higher slopes. Slopes less than 2:12: Arcno is not recommended for use.



Fasteners

Provided there is no rain or high winds, Arcno can be anchored with staples, cap staples or corrosive resistant 3/8 inch head X 1 inch leg roofing nails (ring, shank preferred, smooth leg acceptable), when covered with primary roofing on the same day. If Arcno will not be covered on the same day and up to 180 days, then product must be attached to the roof deck using a minimum 1 inch diameter plastic or metal cap roof nail (ring shank preferred, smooth leg acceptable). Miami-Dade approved tin tags/metal caps are also acceptable, and it is recommended for best performance to use with the rough edge facing up. For extended exposure, it is required that Arcno be anchored in all locations printed on the facer. Consult local building codes for fastener type and spacing requirements. For extended exposure conditions where driving rain or strong winds are expected, it is recommended to take additional precautions such as doubling the lap widths. Alternatively, or in addition to, a compatible sealant could be used between the laps or a peel and stick tape could be applied to the overlaps.

Anchoring

All anchoring nails must be flush, 90 degrees to the roof deck, and tight with the underlayment surface and the structural roof deck. Where seams and joints require sealant or adhesive, use a low solvent plastic roofing cement meeting ASTM D4586 Type1, or Federal Spec SS-153 Type 1 such as Karnak, Henry, DAP, MB, Geocel or equivalent. Acceptable alternatives are butyl rubber, urethane, and EDPM based caulk or tape sealant.

Precautions

Personal Protection: When working on roofs, always wear appropriate personal protective equipment (PPE), including non-slip footwear, safety harness, gloves, and safety glasses to prevent falls from height or cuts from membrane materials and tools.

Environmental Conditions: Avoid installation in high winds, rain, snow, ice, or extreme temperatures (too hot or too cold), as these conditions can affect membrane performance and compromise safety.

Handling Penetrations: Properly prepare and seal roof penetrations (such as chimneys, vents, skylights, etc.) using roof-specific waterproof sealants or self-adhesive membrane patches to maintain continuous waterproofing and airtightness.

Maintenance & Warranty

Arcno do not need special maintenance after installed; Lifetime warranty from the day of installation if it is quality defects.

Visit us at arksynthetics.com for questions, call (778)3251557



Remark:

Recommendations on methods, materials, and construction details are provided by Ark Synthetics based on current knowledge and experience. They serve as a general guide for designers, contractors, and manufacturers. Installation should also consider local conditions, project-specific requirements, and guidance from designers or other qualified professionals. For project assistance, contact: info@arksynthetics.com

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