

This installation instruction is made for the following products: SYNSTEP L340, SYNSTEP S360, SYNSTEP G380, SYNSTEP 100, SYNSTEP T440, SYNSTEP V480, SYNSTEP R600, SYNSTEP U640, SYNSTEP PRO 720, and SYNSTEP MAX960.

Application Guidelines:

- For slopes of 2:12 and above, roll out SYNSTEP series underlayment horizontally, keeping the printed side upwards.
- Maintain a horizontal overlap of 4 inches and a vertical overlap of 6 inches. Anchor the laps about an inch from the edge.
- For shallow slope installations, a 50% plus 1-inch overlap is advisable. For specific low-slope guidelines, consult with local authorities.
- Avoid using SYNSTEP series for slopes below 2:12.

Fastening:

- For immediate roofing, secure SYNSTEP series using corrosion-resistant nails with a 3/8-inch head and a 1-inch leg. Alternate anchoring positions marked on the product are also valid.
- If exposed for up to 60 days, use 1-inch cap roofing nails (plastic or metal), ensuring to fasten at all marked positions. Avoid staples as they nullify the warranty.

Anchoring:

- All nails must be perpendicular to the roof deck, flush, and snug against the underlayment and the deck.
- For seams and joints that need sealing, employ a low solvent roofing cement compliant with ASTM D-4586 Type 1 or Federal Spec SS-153 Type 1. Viable alternatives include butyl rubber, urethane, and EPDM-based sealants.

Extended Exposure:

- If SYNSTEP series remains exposed between 24 hours to 60 days, fasten it to the structural roof deck using at least 1-inch diameter cap nails. For optimal performance, have the coarse edge upwards.
- During prolonged exposure in challenging weather, consider wider lap overlaps or apply suitable sealants or adhesive tapes to the laps.

Safety Precautions:

- Ensure strict adherence to safe roofing practices in line with OSHA and local building codes.
- On steep slopes, employ safety gear like tie-offs, toe boards, safety ropes, ladders, and personal harnesses.
- Avoid walking on unsecured underlayment and always wear suitable footwear.
- Be vigilant; foreign elements, weather conditions, and roof pitch can alter traction.

- Depending on conditions, materials might need support on the roof. Don't forget to seal any nail holes post blocking removal. For any unique requirements or additional guidelines, always refer to the ARMA recommendations when installing shingle underlayments and flashings. Ensure the underlayment is water-tight during installation, especially if using metal fasteners over plastic. Product performance issues arising from using metal/tin cap fasteners are not covered under the product warranty.
- Always adhere to safe roofing protocols in line with OSHA guidelines and your local building codes. Exercise extreme caution when navigating sloped roof surfaces and the underlayment in particular.
- Avoid stepping on unfastened underlayment or any unstable roofing materials on inclined roofs. Environmental factors like dust, moisture, or scattered debris can make the roof slippery. The introduction of foreign substances can significantly alter the grip on the underlayment or any other roofing material on an inclined surface. Neglecting to use the right safety gear and footwear could lead to grave injuries or even fatal accidents.

The underlayments must be installed in accordance with the subsections of IBC Section 1507 and IRC Section R905 applicable to the roof covering being installed. The underlayments must be laid with the print side up, with laps as required by the applicable Code, evaluation report, or manufacturer's instructions, whichever is more restrictive.

Ice Barrier: In areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier, two layers of the underlayments solidly cemented together with a low solvent based roofing cement, complying with ASTM D4586 Type 1, may be used provided the ice barrier extends up the roof a minimum distance of 24 inches inside the interior wall line of the building. The underlayments installed in the field of the roof must overlap the ice barrier.

Note: For use in the state of Florida, the underlayment must be installed in accordance with the provisions of Sections 1507 and 1518 of the FBC.