



TopShield® SG-30 Synthetic Underlayment



Control No. 5031013

CODE COMPLIANCE:
CCRR 0470

CERTIFIED TO:

**ICC-ES AC188
ASTM D8257
ASTM E 108 (Class A)**

Refer to the Intertek Directory of Building Products
(<https://bpdirectory.intertek.com>)
for detailed information

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CMI TopShield SG-30 Synthetic Roof Underlayment INSTALLATION GUIDELINES

CMI TopShield SG-30 Synthetic Roof Underlayment is a premium water barrier mechanically adhered synthetic roofing underlayment. It must be installed in a good, ventilated space.

Follow all building codes applicable to your geographic region and structure and construction type.

Storage: CMI TopShield SG-30 Synthetic Roof Underlayment Should be stored at room temperature, upright in the original package in a dry and properly ventilated area. Keep away from open flames, sparks and harmful substance, and store away from any carcinogenic elements. Only rolls intended for the same-day installation should be removed from the storage area & packing.

USE: CMI TopShield SG-30 Synthetic Roof Underlayment must be covered by primary roofing materials within 180 days of application. It is designed for use under asphalt and synthetics shingles, Metal Roofing, Tile, Slate and Cedar Shakes.

This product does not require removal of a release liner like other self-adhered products and therefore avoids complications associated with installing a self-adhered underlayments. No more wasted materials during the installation process or issues removing the underlayment from the deck for re-roof or alterations.

ROOF DECK PREPARATION:

- Protrusions from the deck area must be removed and roof decks shall have no voids, damaged or unsupported areas. Deck surfaces shall be free of debris, be dry and moisture free.

- CMI TopShield SG-30 Synthetic Roof Underlayment may be applied directly to a plywood, OSB, or concrete roof surface and should be fully covered as soon as possible or within 180 days of installation. Priming of the deck is not required for attaching to wood surfaces when the temperature is above 40°F.

- For cold weather applications its suggested to have a recommended primer prior application of CMI TopShield SG-30 Synthetic Roof Underlayment

- For re-roofing projects any damaged sheathing of any kind must be replaced, roof deck to be cleaned to remove dust dirt and other loose materials including sharp objects like nails. Make sure the deck is free from any kind of debris before installation. Do not install over old roof covering materials.

- It's not recommended to use mineral salts for removal of ice or snow.

APPLICATION:

- For best results CMI TopShield SG-30 Synthetic Roof Underlayment should be installed on a dry roof deck when ambient air temperatures, membrane and substrate is over 40°F (4.4°C).

- For low slope applications between 2:12 and 4:12 it is recommended to double the vertical and horizontal overlap.

- For slopes 4:12 and greater CMI TopShield SG-30 Synthetic Roof Underlayment is to be installed horizontally (parallel to the eave) with the printed side up using the provided lap lines. Use 6" vertical laps and 4" horizontal laps. In case of special requirement, underlayment can be laid vertically also. Underlayment to be installed in shingle lap fashion starting at the bottom edge of the roof deck to ensure that the water runs over the overlaps without getting under the material. Align the underlayment to the edge of the rake and eaves. It should be applied under the metal drip edge along the rakes and over the metal drip edge along the eaves unless otherwise specified by local building codes. Do not fold the underlayment over the roof edge unless this edge is to be subsequently covered over by a drip edge or other flashing material. CMI TopShield SG-30 Synthetic Roof Underlayment to be fastened using the nail pattern as printed on the product. All anchoring must be performed snug and hammered flush and at 90 degrees to the roof deck, ensuring the material surface is held tightly with the roof deck. Do not install fasteners over unsupported areas/voids. Extend product a minimum of 12" past all hips and valleys and lap up onto walls and abutments a minimum of 8". For batten secured installations use appropriate length ring shank nails or screws to secure battens to the roof deck, staples are not recommended. Do not install battens over cap nails.

- CMI TopShield SG-30 Synthetic Roof Underlayment may be installed using corrosion resistant roofing nails having a 3/8-inch (9.5 mm) diameter head. Low profile plastic or metal cap corrosion resistant nails with 1-inch (25.4 mm) caps may be used when preferred or required by local codes. The corrosion resistant fasteners should be long enough to penetrate through the sheathing or a minimum of 3/4 inch (19.1 mm) into solid decking. CMI TopShield SG-30 Synthetic Roof Underlayment must be installed in accordance with the provisions of sections 1507 and 1518 of the FBC.

- Install fasteners 12" on center (o.c) along course and end over-laps and a single row 24" on center along the middle line of the field. Use the printed pattern as a guide.

- For eave installation CMI TopShield SG-30 Synthetic Roof Underlayment should be applied over the metal drip edge at the eave. This should be installed above the maximum ice dam build-up line in most geographic areas. Consult your local building code for specific requirements.

- Repair holes, fish mouths, tears, and any other penetration damage to the CMI TopShield SG-30 Synthetic Roof Underlayment with a round self-adhered patch or synthetic underlayment with suitable adhesive. It should be extending the damaged area by 6 inches in all directions and ensure no damages. Do not install fasteners through membrane over any unsupported areas of the structural deck, such as over joints between adjacent structural panels.

- For higher elevations, high wind or wind driven rain it is recommended to cover the entire roof deck with CMI TopShield SG-30 Synthetic Roof Underlayment.

PRECAUTIONS:

CMI TopShield SG-30 Synthetic Roof Underlayment is not designed or intended for indefinite outdoor exposure. Final roof should be installed within 180 days of membrane installation.

Depending on roof pitch and surface conditions, "blocking" may be required to support roofing material placed on the roof. Remember to seal the fastener holes that secured that blocking after they have been removed.

Protect any completed roof areas to avoid damage during roof installation and material transportation by installing protective boardwalks to enable passage of people, equipment and products across the area.

Be careful not to load excess material on the roof deck in one area. Disburse the weight of material over structural supports where possible to prevent collapse of roof.

CAUTION-READ GOOD SAFETY PRACTICES BELOW:

As with any roofing product, always follow safe roofing practices and codes (OSHA) and always use wear proper fall protection equipment when working on roofs. Release liners are slippery, and any kind of slippery materials should be removed from work area immediately after application. Use caution when walking or standing on underlayments as slip resistance may vary with surface conditions, weather, footwear, and roof slope. Failure to use proper safety equipment and footwear can result in serious injury.

NO WARRANTY, EXPRESS OR IMPLIED, IS GIVEN AS TO THE MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, OR OTHERWISE FOR APPLICATIONS OUTSIDE THE SCOPE OF THESE INSTALLATION GUIDELINES.

QC TRACKING CODE

325.00 mm

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