

BEST PRACTICES OVERVIEW

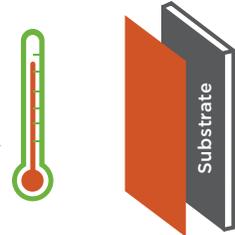
WrapShield SA (Self-Adhered) is a fully adhered version of the WrapShield Weather Resistive Barrier/Air Barrier membrane.

Note: The installation process of the fully adhered is different than WrapShield mechanically attached due to the unique properties of the permeable adhesive applied to the backside of the material. The adhesive is protected by a silicone release paper which is removed during the installation process.

- WrapShield SA building layout should be planned prior to application to minimize waste, this process will assist locating penetrations that will need to be correctly detailed to ensure a weather and air tight installation.
- WrapShield SA can be installed in a vertical or horizontal direction.
- Always install in a **“weatherboard or shingle fashion”** with the lower courses lapped under the upper courses.
- All penetrations including windows and doors must be installed in proper sequence to ensure a **“weatherboard or shingle fashion”** end result.
- **All overlaps must be a minimum of 3” on horizontal and vertical seams.**
- Inside and outside vertical corners should be minimum 6” of overlap.
- Vertical seams should be staggered from floor to floor, or separated by a WrapShield SA horizontally applied strip.
- Recommend using a roller to enhance adhesion in borderline temperature conditions: substrate ambient temperature near 20° F.

SUBSTRATE INFORMATION

- The substrate condition is crucial to the adhesion performance of any adhesive membrane.
- Substrates must be clean and free of any contaminants.
- Substrate surface must be dry to the touch with the ambient temperature above 20°F.
- WrapShield SA can be applied to a wide variety of sheathing substrates:
*GlasRoc • DensGlass Gold • Most rigid insulation • Pre-painted steel • OSB • Precast concrete • Concrete block
Plywood • Aluminum (painted or mill finish) • Cast-in-place concrete • Galvanized metal • Rigid vinyl
Steel • Anodized aluminum*
- Primer is not required.



INSTALLATION PRACTICES

During the installation process, WrapShield SA must be protected at the leading edge to ensure liquid water does not travel behind the membrane.



Ribbit Tip: At the end of each work day protect the leading edge from water intrusion.



ADHESIVE CURING TIME

Normal curing time is approx. 6 hours.
Full adhesion will vary depending on job site weather conditions.



FLOOR LINE MOVEMENT

- Buildings are designed to accommodate thermal and seismic movement.
- WrapShield SA must be installed to allow this movement throughout the life of the structure.
- To accommodate floor-line movement: Limit coverage area to a single floor and shingle subsequent layers over the top leading edge.

WrapShield SA IS NON-DIRECTIONAL

- Install pieces vertically or horizontally.
- Ensure “weatherboard manner” by installing pieces over the top of the pieces below.
- Pieces are easily cut to size.



PENETRATIONS

- Window and door penetrations can be detailed pre or post installation of the field membrane.
- Always ensure weatherboard result is achieved.

BEST PRACTICES OVERVIEW (cont.)

ORIGINAL PACKAGING FUNCTIONS AS DISPENSER - (available on video at www.vaproshield.com)

- Keep WrapShield SA in original packaging
- Carefully lift one end of the product out of the box and slide the plastic wrap towards the opposite end.
- Insert roll into end.
- Replace the roll in the box/dispenser and carefully remove the tape in the middle of the roll.
- Keep plastic roll cover to protect partial rolls during installation.

KEEP PACKAGING



MANAGEABLE LENGTHS – (available on video at www.vaproShield.com)

- Pre-cut material into individual manageable lengths for installation by pulling material off the main roll to the desired length.
- Cut material square to the factory edges.
- Re-roll material same direction it came off the roll, with the release paper outward.
- Cut material to desired length with extended blade razor knife.



Ribbit Tip: Pre-cut material to flash windows, door openings, mechanical and electrical penetrations, and other building components that have the same or similar sizes. Tape and label pre-cut material on the release film with a marker, designate location, size and/or other important information.

SINGLE WORKER VS. TWO WORKER INSTALLATION

- Using the material at its full width, 57", vertical installation can be easily accomplished by a single worker.
- Horizontal installation of the full width material is best accomplished by two workers.
- Partial width rolls are easily installed by a single worker.
- Please see the sketches of installation methods and view the videos on our website for further clarification.

VERTICAL AND HORIZONTAL INSTALLATION: (available on video at www.vaproshield.com)

Horizontal installation of the WrapShield SA material is similar to the vertical installation method. The material can be applied either left to right, or right to left.



BEST PRACTICE INSTALLATION SEQUENCE

1. Snap a level chalk line for guidance
2. Pre-cut material to desired length
3. Roll material with release paper facing OUTWARD
4. Starting at a corner of the roll, peel back **approx. 6"** of release paper
5. Cut the release paper with razor knife and tear the cut portion of the release paper exposing **approx. 6"** of glued surface
6. Using hand pressure, **lightly** apply the exposed glue surface to the substrate
7. Starting in the middle, use your hands to smooth out air bubbles, releasing the air to each side
8. **APPLIES ONLY TO VERTICAL INSTALLATION** - Allow the rolled up material to drop down the wall, **with the remainder of the release paper still attached**, checking for proper alignment
9. Reposition as needed - the material is very forgiving allowing for easy re-alignment
10. When aligned, **apply heavy hand pressure** across the entire adhered section
11. Roll up the material with release paper facing OUTWARD
12. **Slowly pull the release paper** down the wall, allowing the rolled up material to unfurl
13. Lightly smooth out air bubbles with wallpaper trowel
14. Continue until all the release paper has been removed
15. Pull back and reposition material (if necessary) as it unfurls
16. Apply heavy pressure to the entire substrate to ensure full adhesion
17. Proceed with next step, ensuring a **3" minimum overlap** to the adjoining material, always in a **weatherboard** manner

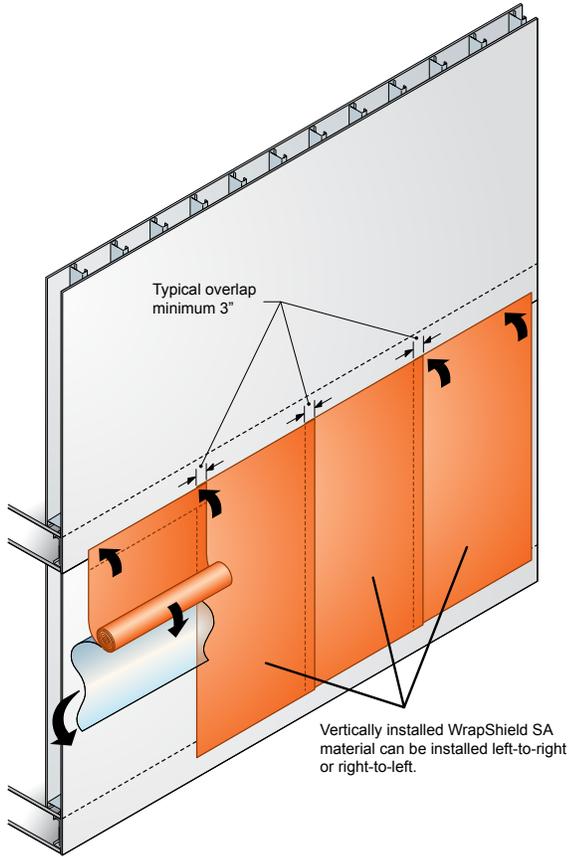
INSTALLATION BEST PRACTICES

- Avoid scoring the membrane at locations where the material overlaps onto the adjacent piece.
- Allow the top layer of material to span across the underlying layer without attempting to force the material into a 90° bend.
- Avoid stretching the material during installation at inside and outside corners.
- A full 6" overlap in either direction is recommended vertically at inside and outside corners.

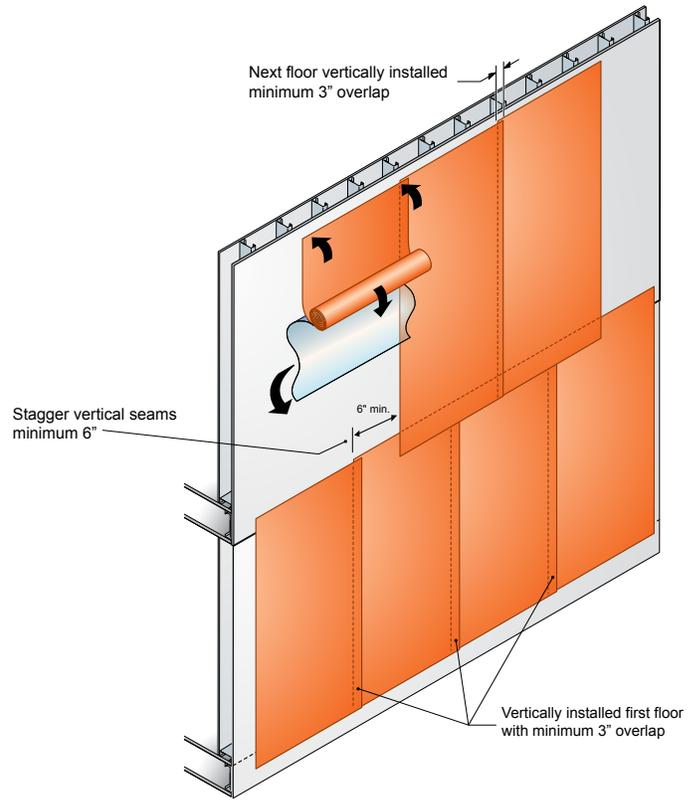
STORAGE

- Must be stored vertically
- Must be kept dry
- Must be stored in temperatures between 40° F and 90° F

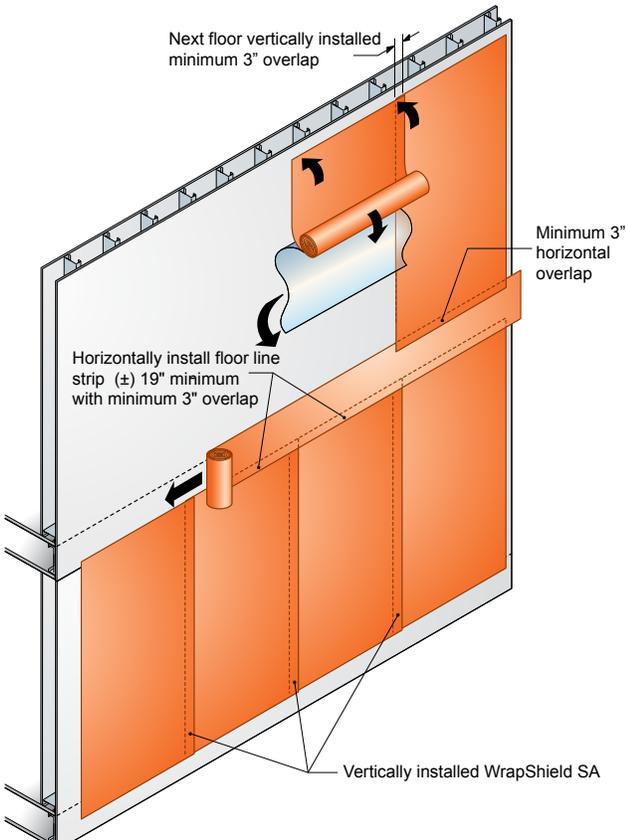
★ THIS IS NOT A SEQUENCE OF INSTALLATION STEPS. EACH IS A SEPERATE SITUATION.



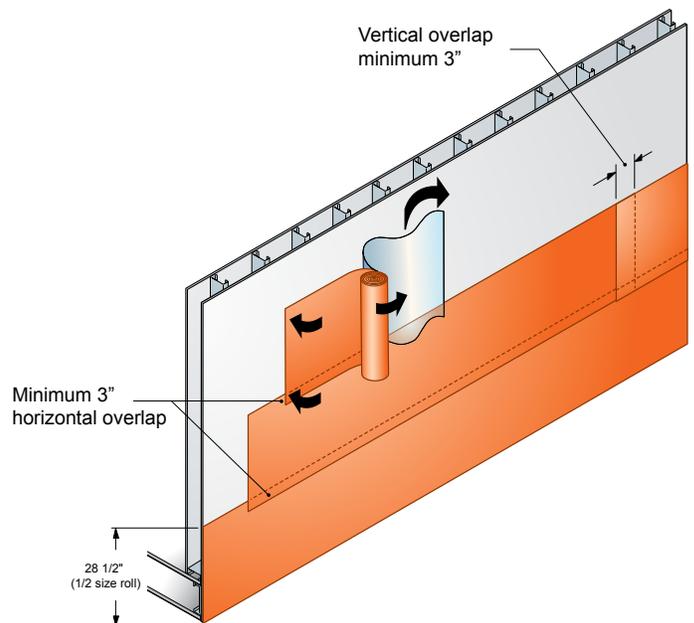
VERTICAL INSTALLATION



MULTI FLOOR VERTICAL OVERLAP

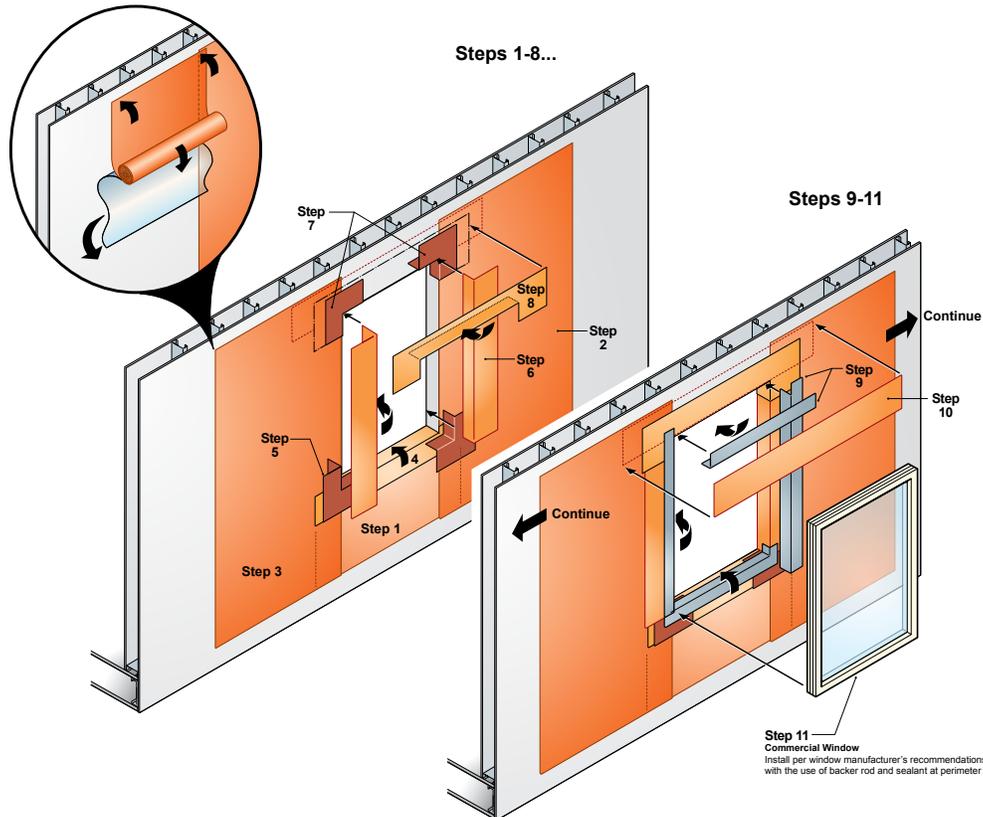


VERTICAL INSTALLATION
HORIZONTAL FLOOR LINE



HORIZONTAL INSTALLATION

STEP BY STEP COMMERCIAL WINDOW FLASHING



GENERAL GUIDELINES FOR FLASHING A COMMERCIAL WINDOW OPENING WITH WRAPSHIELD SA

1. **BELOW window opening**
Install field membrane section, flush with rough sill opening and 9" past jamb width on each side.
 2. **RIGHT side of window**
Install field membrane section, flush with rough jamb opening.
 3. **LEFT side of window**
Install field membrane section, flush with rough jamb opening.
 4. **BOTTOM of window opening**
Install sill wrap 9" below sill and 9" past jambs on each side. On each side, cut material flush with jamb openings. Fold over material into rough sill opening, extending the full depth of the framing.
 5. **BOTTOM left and right corners**
Install WrapShield VaproFlashing Formed Corners using VaproSpray Adhesive.
 6. **RIGHT AND LEFT SIDES**
Install jamb wrap. Cut flashing to the height of the rough opening, extending 9" on the face and covering the full depth of the jamb framing.
 7. **TOP left and right corners**
Install WrapShield VaproFlashing Formed Corners using VaproSpray Adhesive.
 8. **HEAD of window opening**
Install head wrap 9" above head and 9" past jambs on each side. On each side, cut material flush with jamb openings. Fold over material into rough sill opening, extending the full depth of the framing.
 9. **WINDOW PERIMETER**
Install VaproAluma Tape where window manufacturer's silicone sealant will be used. Start VaproAluma Tape at the sill, then jambs, conclude with the head. When using 4" VaproAluma Tape, extend onto the rough opening face 2" and 2" into the depth of the opening. Note: when using 9" VaproAluma Tape, extend 7" into the rough opening.
- IMPORTANT NOTE: tape must be rolled with a "j" roller to activate the adhesive primer built into the tape.**
10. **HEAD of window opening**
Install field membrane material flush with the head rough opening, extending 9" on each side, **over the top of the VaproAluma Tape in shingle fashion.**
 11. Install window per manufacturer's recommendations with the use of backer rod and sealant along perimeter at VaproTape.

LIMITATIONS: WrapShield SA can be exposed for up to 120 days prior to being covered by the cladding system. All substrates must be clean, dry to the touch and free of dust and or contaminants prior to application of the WrapShield SA. Temperature must be above 20° F for adhesion to be effective on most substrates.



VaproShield LLC 20-Year Product Warranty

Job #:
Purchase Date:
Installation Date:

Owner Name:
 Address:
 City/State/Zip:

Project Name:
 Address:
 City/State/Zip:

Installer Name:
 Address:
 City/State/Zip:

PRODUCT:

Date Issued:

VaproShield products are manufactured using a spun bonded, triple layer, high-density polypropylene fabric.

LIMITED PRODUCT WARRANTY AND DISCLAIMER*:

<p>A) PRODUCTS TO WHICH WARRANTY APPLIES:</p> <ol style="list-style-type: none"> 1). WALLSHIELD® 2). WRAPSHIELD® 3). WRAPSHIELD SA® SELF-ADHERED 4). WRAPSHIELD HS ® 5). ReNewShield™ 6). SLOPESHIELD® 7). SLOPESHIELD SA® SELF-ADHERED 8). VAPROFLASHING™ 9). FACTORY FORMED CORNERS™ <p>B) LIMITED WARRANTY: The WallShield, WrapShield, WrapShield SA, WrapShield HS, ReNewShield, SlopeShield and SlopeShield SA products are suited for their intended use as an underlayment, weather resistive barrier, or as an air barrier. VaproShield will warrant its products for a period of twenty (20) years from the date of purchase. VaproShield will replace any faulty product, provided the product used is installed per the published installation instructions and details. VaproShield installation instructions are provided with the products and are available at www.vaproshield.com, or by calling VaproShield toll free at 1-866-731-7663.</p> <p>This warranty is transferable upon sale of the project, but in no event does it extend beyond 20 years from the date of original purchase of the product. Any and all claims must be made in writing within 20 business days after the owner discovers or obtains knowledge of any defect in the product(s). VaproShield must be given reasonable opportunity to inspect the allegedly defective product and all damage prior to alteration or removal of the product or any surrounding building components.</p> <p>All claims must be made in accordance with the claims and inspection procedure noted herein.</p>	<p>This warranty shall not apply to, and VaproShield shall not be liable for, any damages arising in whole or in part from any one or more of the following:</p> <ol style="list-style-type: none"> 1) WallShield, WrapShield, WrapShield SA, WrapShield HS, ReNewShield, SlopeShield, or SlopeShield SA that is not stored or installed in accordance with VaproShield's installation instructions in effect at the time of the installation. 2) Improper building practices or design not in accordance with the applicable building code or industry standards, or any deviation from approved construction plans or specifications. 3) Damage to WallShield, WrapShield, WrapShield SA, WrapShield HS, SlopeShield, or SlopeShield SA resulting from causes other than normal weather conditions, including impact of falling objects, "Acts of God," earthquakes, hurricanes, flood, fire, hailstorms, high winds, cascading roof/floor water, ponding water, immersion in water, or improper installation of any building component. 4) Defects in the structure or a component of the structure (e.g., window, door, or wall system), premature deterioration of the building materials, or non-standard use of the VaproShield products. 5). Contamination of membrane with building site chemicals including, but not limited to, surfactants or substances that adversely affects its water resistance. 	<p>OPEN JOINT APPLICATIONS: VaproShield will warrant material for any open jointed cladding systems when VaproShield's details and Best Practices are followed.</p> <p>VAPROTAPE: When applicable, according to installation instructions, VaproTape or approved sealants must be utilized with mechanically attached membrane products for warranty to apply.</p> <p>C) DISCLAIMER: This warranty is limited to product replacement. This warranty is the sole warranty and is being provided in lieu of any other warranties, whether express or implied. Neither VaproShield LLC nor any of its affiliated companies, including product manufacturers and suppliers, shall be liable for labor costs, consequential damages (such as personal injuries or damage to property) of any kind, loss of profits, loss of use, or any other damage or injury, whether known or unknown, that is caused or alleged to have been caused in whole or in part by any VaproShield product.</p> <p>This Warranty is not valid unless and until Vaproshield product has been paid for in full.</p>
---	--	---