

# INSTALLATION GUIDE

## 4120 AQUA FLASH® 500



AQUA FLASH® 500 is a 40-mil composite sheet type membrane consisting of high density cross-laminated polyethylene film (8-mils) bonded to highly adhesive rubberized asphalt (32-mils) with a removable release liner. AQUA FLASH® 500 is a self-adhering and self-sealing flashing product designed for easy and efficient installation, especially around corners and laps. Aqua Flash® primers and mastic are part of the flashing system.

AQUA FLASH® 500 will bond to concrete, cmu, brick, exterior gypsum, wood, plywood, OSB, metal, and most air barriers. Available sizes: 12", 16", 18", 24", 36" x 50 lineal feet.

- Typical Flashing locations: • Masonry cavity walls • Base of walls • Head of doors and windows
  - Windowsills and any openings • Any interruption in a vertical masonry drainage plane
  - Under masonry copings with exposed stainless steel metal drip edge
- AQUA FLASH® 500 is a self-adhering flashing designed for installation when substrate and air temperatures are above 32°F and rising. Flashing should not be applied at temperatures below 32°F. If the temperature is below 40°F, a winter grade primer must be used. During installation, make sure the flashing is not exposed to UV rays for more than 30 days. Always store flashing materials in a dry, protected environment to avoid excessive heat or exposure to inclement weather. Ensure the flashing is kept in a dry location with a minimum temperature of 60°F to maintain its integrity and performance. For the best results apply flashing in clear and dry weather conditions. AQUA FLASH® 500 flashing is compatible with most insulations, air barriers, roofing membranes, and below-grade waterproofing products. Avoid using flashing with oil-based, wax-based, or polysulfide sealants, as well as with creosote products to prevent compatibility issues.
- Ensure all surfaces are clean, dry, and free from loose rust, dirt, and dust. The surface should be reasonably smooth without any large projections. Remove any oil, grease, or other contaminants where masonry flashing will be installed. AQUA FLASH® 500 flashing during installation should be free from any wrinkles, sags, gaps or drooping thereby eliminating any possible migration of water behind the membrane. All air/vapor barrier products, whether brush applied or spray-applied must be fully cured before flashing installation. Curing times can vary depending on the product and environmental conditions, so "dry to the touch" is not sufficient. Wire-Bond strongly recommends conducting a test on a project sample panel before proceeding with the full installation on the building.
- In applications where drip edge is desirable, install a (#4165) stainless steel drip edge below the horizontal leg of the masonry flashing. To prevent moisture from entering below the flashing level, ensure that masonry ledge is clean and dry. Apply two continuous 3/8" horizontal beads of (#4121R) Aqua Flash® mastic along the masonry ledge, positioning the beads approximately 1 1/2" back from the face of the veneer. No sealant is to be applied to the leading edge of the flashing. Carefully place the stainless steel drip edge over the beads of sealant, pressing firmly to ensure full contact

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to create a watertight seal. Ensure that each section of the drip edge overlaps the next by at least 4 inches. Apply beads of sealant between the overlapping sections to create a continuous and effective moisture barrier. Consider installing (#4166) stainless steel pre-formed inside and outside corner drip edges before placing the flexible flashing to ensure optimal performance and aesthetics. This process also applies to masonry areas supported by steel angles.

- In applications where drip edge is is not desirable, align the flexible flashing  $\frac{1}{2}$ " -  $\frac{3}{4}$ " back from the face of the veneer and use a roller to firmly press the flashing into place for proper adhesion to the surfaces. This process ensures proper adhesion while eliminating wrinkles, trapped air, sags, gaps, or drooping, effectively preventing any potential water migration behind the membrane. The use of (#4121W/S) Aqua Flash® primers may be required to achieve proper adhesion of the flashing to the substrate.

- In applications where drip edge is used, unroll and cut it into manageable lengths of 8 to 10 feet for easier handling and to prevent misalignment. Ensure all surfaces are clean, dry, and free of loose rust, dirt, and dust before installation. For proper adhesion of the flashing to the substrate, the use of Aqua Flash® primers (#4121W/S) may be necessary. Guidance on when Aqua Flash® primers should be used is provided on the last page of the instructions. Always refer to this section to confirm the need for primer application. As you proceed with the installation, carefully peel the release liner as needed from the back of the flashing. Begin the flashing installation by positioning it  $1\frac{1}{2}$ " back from the face of the veneer, ensuring it rests securely on top of the stainless steel drip edge. No sealant is to be applied to the leading edge of the flashing. Extend the flashing horizontally across the solid flat surface of the cavity, then turning it vertically against the substrate, extending at least 6 inches above the drainage mesh. For proper corner installation, extend the flashing fully beyond each corner in both directions to ensure complete coverage. Overlap all sections by 4 to 6 inches, without applying sealant between the overlaps, as the adhesive backing provides a secure seal. Firmly press the flashing onto the surface using a handheld roller to ensure proper adhesion and a secure bond. This is a critical task regardless of whether or not you use stainless steel pre-formed inside or outside corner units. Consider installing (#4194-#4196) stainless steel pre-formed inside and outside corners and end dams before placing the flexible flashing to ensure optimal performance.

- Once the flexible flashing is installed, use a handheld roller to firmly press the flashing onto the surfaces. This process ensures proper adhesion while eliminating wrinkles, trapped air, sags, gaps, or drooping, effectively preventing any potential water migration behind the membrane. Apply a continuous  $\frac{3}{8}$ " bead of Aqua Flash® mastic at the overlap seams and press down with a suitable tool to ensure a tight uniform seal.

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- Select an appropriate (#4200 or #4210) termination bar profile made from Aluminum or stainless steel. The use of a termination bar is a requirement when installing flashing onto the vertical substrate. Position the termination bar along the top edge of the flashing's vertical leg, ensuring both the flashing and termination bar are located above the drainage mesh. Secure the termination bar to the substrate using the specified fasteners, ensuring a tight fit and preventing gaps between the bar and substrate. Apply a continuous  $\frac{3}{8}$ " bead of Aqua Flash® mastic along the top edge of the termination bar, where it meets the flashing and substrate. Smooth the mastic with a suitable tool to ensure a tight uniform seal.
- To ensure the proper installation of flexible membrane flashings, it is essential to prevent the material from drooping or sagging into the masonry cavity. Architectural drawings should detail the use of filler support material beneath the flashing to establish a sloped configuration, ensuring proper drainage and preventing bridging gaps. Inspect the entire flashing installation to ensure the termination bar is securely fastened, Aqua Flash® mastic is properly applied, and all penetrations are sealed with no gaps that could compromise the system's integrity. All work should adhere to accepted trade practices to maintain quality and performance. AQUA FLASH® 500 is UV-resistant for up to 30 days; however, protect the flashing system from falling debris, damage from other trades, and environmental factors to preserve its effectiveness.
- Wire-Bond recommends conducting a test on a project sample panel before proceeding with the full installation on the building. To ensure a secure and watertight sealed system at substrates, a termination bar must be installed, and Aqua Flash® mastic must be applied when using AQUA FLASH® 500 flashing. Please refer to the product data submittal for additional materials compatible with AQUA FLASH® 500.
- AQUA FLASH® 500 is not designed for use as an exposed flashing. AQUA FLASH® 500 must be secured and covered to protect from tearing during severe weather/prolonged exposure while waiting for exterior wythe veneer installed. To make repairs, cut a piece of AQUA FLASH® 500 to extend 6 inches beyond the edges of the damaged area in all directions. Secure the patch by pressing it firmly into place with a hand roller. Apply a continuous  $\frac{3}{8}$ " bead of Aqua Flash® mastic along the lapped seams, then smooth the mastic with an appropriate tool to create a tight uniform seal. For the best results apply flashing repairs in clear and dry weather conditions.
- Wire-Bond is not responsible for incompatibility resulting from the use of primers and sealants other than AQUA FLASH® 500 products.

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- AQUA FLASH® 500 is warranted to meet the specifications listed herein and is tested to assure conformance to the physical properties listed in the Technical Data Table.
- For storage, maintain a temperature range between 25°F and 120°F. Keep the products protected from inclement weather and excessive heat to preserve their quality and performance.

The following is a list of typical construction substrate surfaces the AQUA FLASH® 500 adheres to and our recommendations for priming:

1. Concrete, Masonry, Composition Board, and DensGlass:
  - These substrates must always be primed before application.
2. Metal, OSB, Plywood, and Wood:
  - Only prime surfaces that are pitted, show signs of oxidation or a weathered surface
3. DensDeck Prime, Housewrap, Rigid Vinyl/PVC, and Zip Panel System:
  - These substrates do not require priming.
4. ICF Foundations:
  - AQUA FLASH® 500 adheres to polymer-faced ICF. Do not prime ICF surfaces.
5. Rigid Insulation Board:
  - Foil-faced rigid insulation boards do not need priming.

Please feel free to contact a Wire-Bond representative if you have any questions.

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