

**IMPORTANT: FAILURE TO INSTALL THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND WITH JAMES HARDIE WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, AFFECT PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND VOID THE PRODUCT ONLY WARRANTY.**

### HARDIEWRAP™ WEATHER BARRIER PRODUCT DESCRIPTION

HardieWrap™ weather barrier is a non-woven, non-perforated polyolefin water-resistive barrier manufactured by James Hardie Building Products. HardieWrap™ weather barrier provides a balance of water resistance and breathability to protect homes from the elements of weather that can get behind the exterior cladding. HardieWrap™ Flashing and HardieWrap™ Seam Tape are recommended in conjunction with HardieWrap™ weather barrier to complete the HardieWrap weather barrier solution\*.

A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be installed with penetration and junction flashing in strict accordance with local building code requirements.

### STORAGE

Do not store in direct sunlight, HardieWrap™ weather barrier should be stored in a covered area and do not expose to building site chemicals.

### GENERAL REQUIREMENT - DESIGN†

The installation guidelines herein are only informational in nature and may not be appropriate for use in all applications. It is the sole responsibility of the architect or specifier to identify moisture related risks associated with any particular building design, and to make any appropriate adjustments or modifications to the installation guidelines herein. Wall construction design must effectively manage moisture, considering both the interior and exterior environment of the building, particularly in buildings that have a higher risk of wind driven rain penetration and conditioned spaces. HardieWrap™ weather barrier may be installed on vertical wall applications only. James Hardie requires that HardieWrap™ weather barrier be covered within 180 days of its installation. Wall openings, penetrations, junctions, connections, window sills, headers & jambs must incorporate appropriately installed HardieWrap™ Flashing and HardieWrap™ Flex Flashing or other flashing or flashing details as recommended by the architect or specifier.

### INSTALLATION OF HARDIEWRAP™ WEATHER BARRIER

HardieWrap™ weather barrier should be installed before window & door installation. Install over dry materials. Do not install on saturated sheathing. HardieWrap™ weather barrier can become slippery and should not be used in any application where it may be walked on.

Begin by affixing weather barrier extending at least 6 inches around a building corner (*fig. 1*). Unroll horizontally (with print side facing out) around the building covering rough window and door openings.

Fasten to studs or nailable sheathing material with galvanized construction grade staples a maximum of 24" in the vertical and horizontal direction.

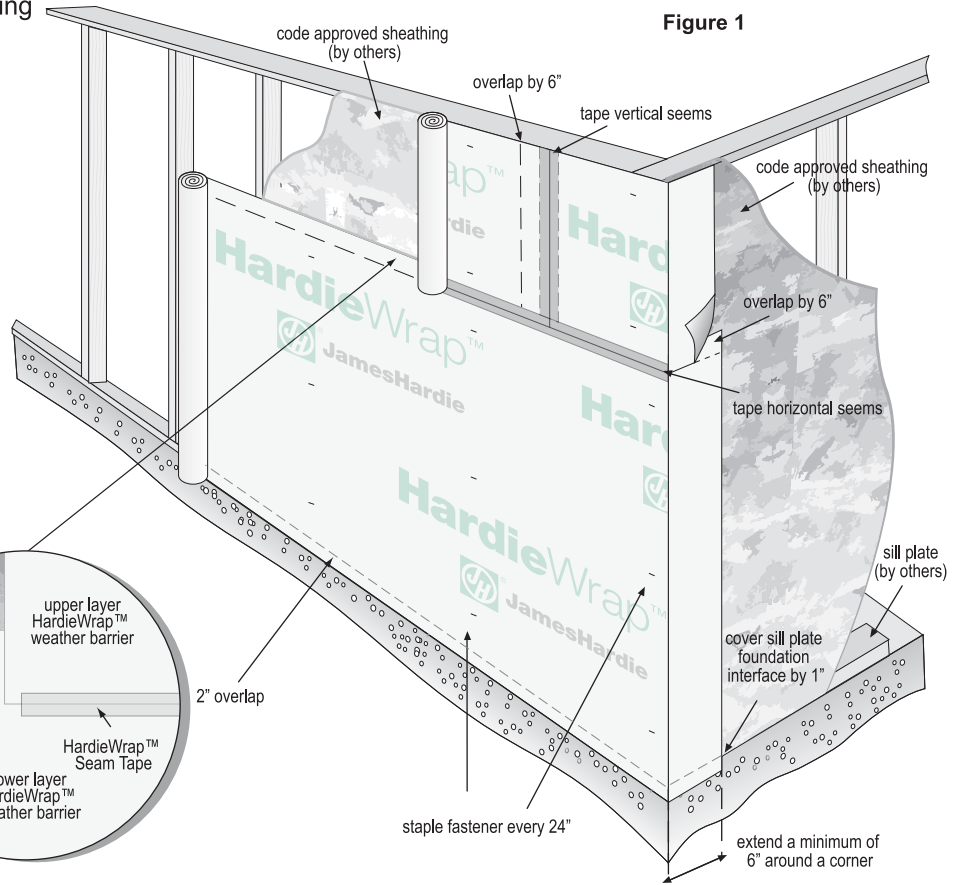
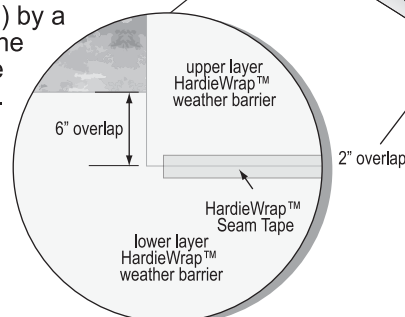
Attach weather barrier so that it is taut and flat. The vertical overlap must have a minimum of 6 inches and the vertical seam must be taped.

HardiWrap™ Seam Tape is strongly recommended, but do not clog or interfere with the use of weep holes or similar drainage details.

Assure that the bottom edge of the weather barrier extends over the sill plate and foundation interface by at least 1".

Overlap upper layers of weather barrier (in shingle lap fashion) by a minimum of 6 inches below the horizontal edge, and tape the horizontal seam line (*fig. 1A*).

**Figure 1A**



† HardieWrap™ weather barrier is limited to buildings of Type V-B (IBC) construction [Type 5 (BNBC), Type VI (SBC), Type V (UBC)] and to construction under IRC.

\*The James Hardie weather barrier solution is based on methods of installation from the AAMA and ASTM 2112. HardieWrap™ weather barrier helps to reduce the intrusion of moisture or air, but is not designed nor guaranteed to prevent the intrusion of all moisture or air.

## INSTALLATION OF HARDIEWRAP™ WEATHER BARRIER (CONT.)

At roof to wall intersection (or wall to deck), affix wrap to the wall such that it overlaps any step flashing already on the wall by at least 2 inches (*fig. 2*).

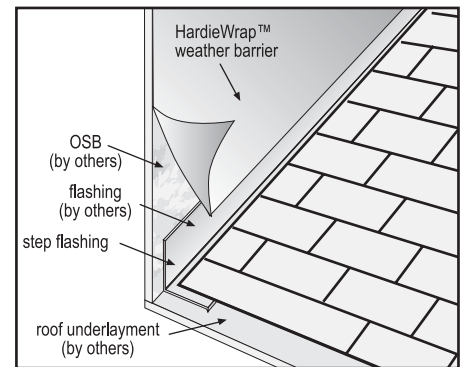


Figure 2

## FLASHING INSTALLATION

Flashing is typically utilized at windows, doors, junctions and penetrations; and must be installed in conjunction with HardieWrap™ weather barrier. Consult with the architect or specifier regarding the type and method of flashing to be utilized.

Check your local Building Code for construction requirements and follow the manufactures recommended installation instructions; or utilize standard practices for the installation of exterior windows and doors as referenced in ASTM E2112-01 or AAMA 2400-2 (CAWM 400-95). For specific flashing details and options reference James Hardie's HardieWrap™ Flashing Guide.

## WINDOWS & PENETRATIONS

### TYPICAL WINDOWS INSTALLATION METHODS

Use the inverted “Y” cut at rough window & door openings. Ensure that appropriate flashing has previously been installed around all windows and door openings. HardieWrap™ weather barrier is not designed nor guaranteed to prevent moisture or air from intruding behind the HardieWrap™ weather barrier. At the top corners, cut the opening at 45° to extend 9” past the joint. Do not place fasteners within 9” of the rough opening, door or window heads. This area should not be fastened to allow for proper flashing installation. Fold the top flap up and out of the way and fasten temporarily (*figs. 3 & 4*). Fold the remaining 3 flaps in through the opening fastening them inside with staples.

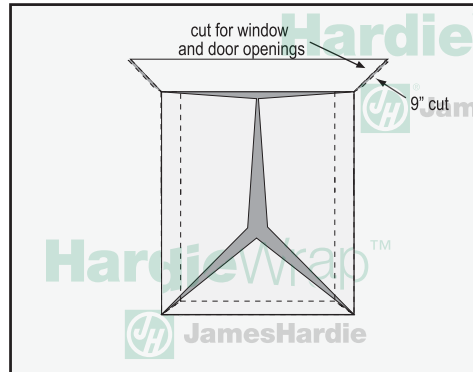


Figure 3

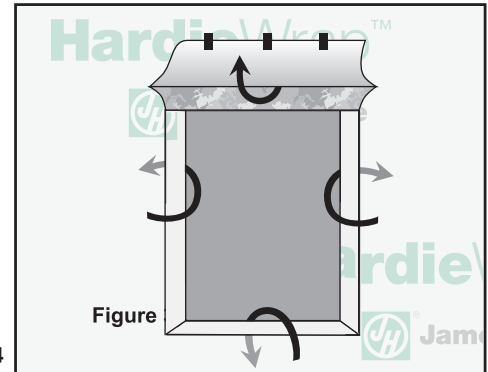


Figure 4

### TYPICAL PENETRATION FLASHING METHODS

For rough electrical or plumbing penetrations, seal with flashing. Install the top piece over the bottom piece (*fig. 5 & 6*). HardieWrap™ Flashing can be used for this application.

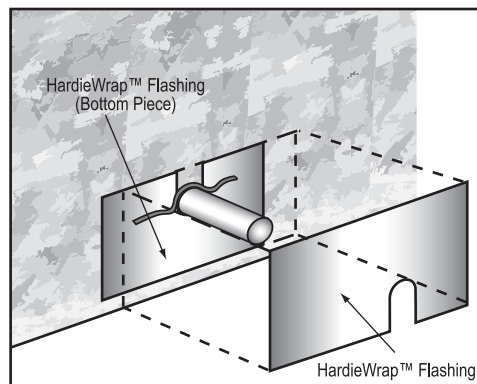


Figure 5

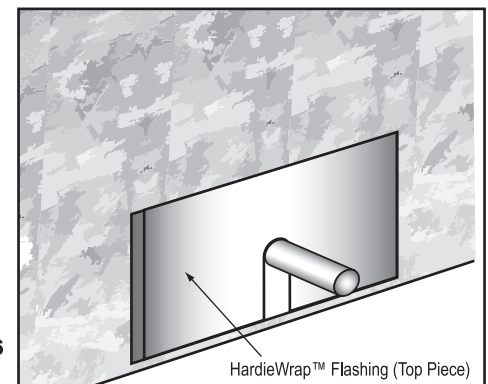


Figure 6

The penetration detailed in figure 7 & 8 as found in the EEBA Water Management Guide.

## FASTENERS

Staples are the preferred and recommended fastening method. Fasten HardieWrap™ weather barrier in such a way that ensures the wrap is secured to the wall with staples a maximum of 24" O.C. (on center) in the vertical or horizontal directions. Staples should be construction grade and must be galvanized.

When installing over insulation boards, use galvanized roofing nails long enough to penetrate insulation and framing studs or sheathing.

Consult with the architect or specifier regarding the need to seal any punctures caused by staples, nails or other items.

## REPAIRS

For minor punctures or tears, less than 3 inches, cover and completely seal with HardieWrap™ Seam Tape (*fig. 7*). For larger holes, greater than 3 inches, use slit flashing technique. Slit flashing requires making a horizontal slit above the damaged area and placing a cut piece of HardieWrap™ weather barrier into the slit, covering the damaged area. Tape the perimeter of the patched area (*figs. 8*).

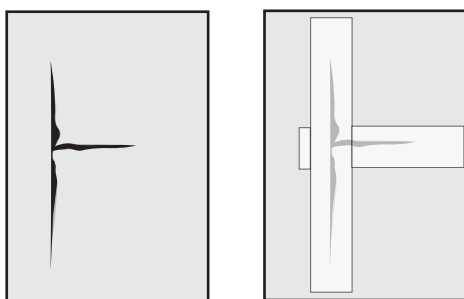


Figure 7

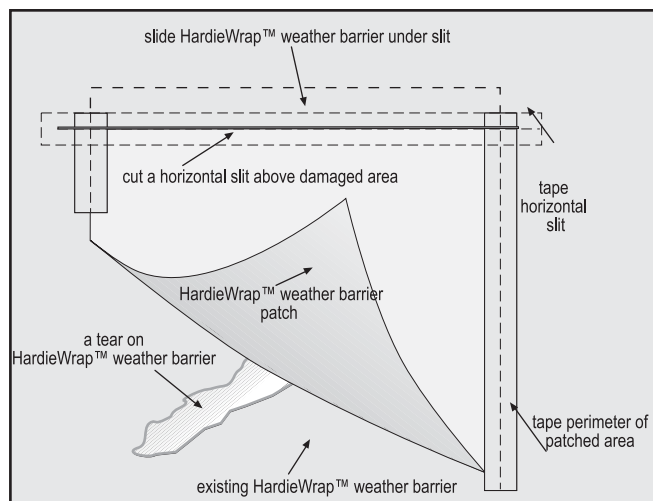


Figure 8

## GENERAL REQUIREMENT CHECKLIST

- ✓ Do not store HardieWrap™ weather barrier in direct sunlight.
- ✓ Weather Barrier must be installed over dry framing and sheathing.
- ✓ Tape all vertical and horizontal seams.
- ✓ Overlap subsequent weather barrier layers in shingle lap fashion with seams overlapping by at least 6 inches.
- ✓ Be sure that all penetrations are addressed.
- ✓ Fasten with construction grade galvanized staples a maximum of 24" in the vertical and horizontal direction.
- ✓ Repair punctures or tears, by the recommended practices.
- ✓ Do not use HardieWrap™ weather barrier in applications where it may be walked on.
- ✓ James Hardie requires that HardieWrap™ weather barrier be covered within 180 days of its installation.

