MTIdry

MTI Retrofit Weep™

(MRW 3804)

COMMERCIAL

RESIDENTIAL

- HISTORICAL RESTORATION
- FLOOD DAMAGE RESTORATION
- FIRE DAMAGE RESTORATION

MTI DESIGNS FOR IT.

WEEP SYSTEMS THAT WORK

MTIdry

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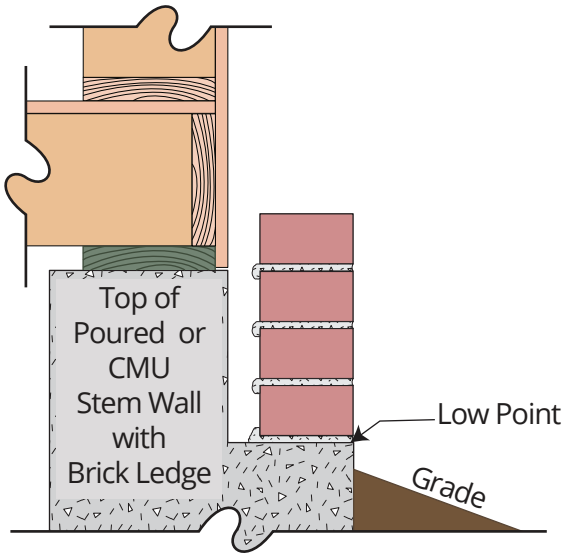
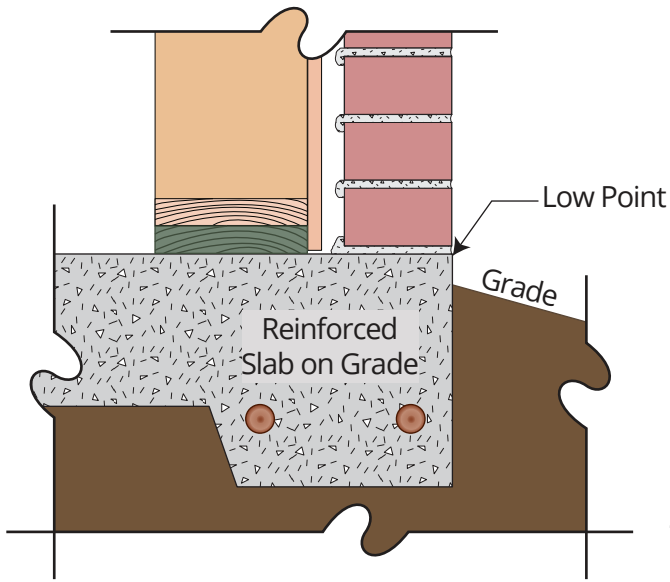
MTI Retrofit Weep™ (MRW 3804) Installation Guide

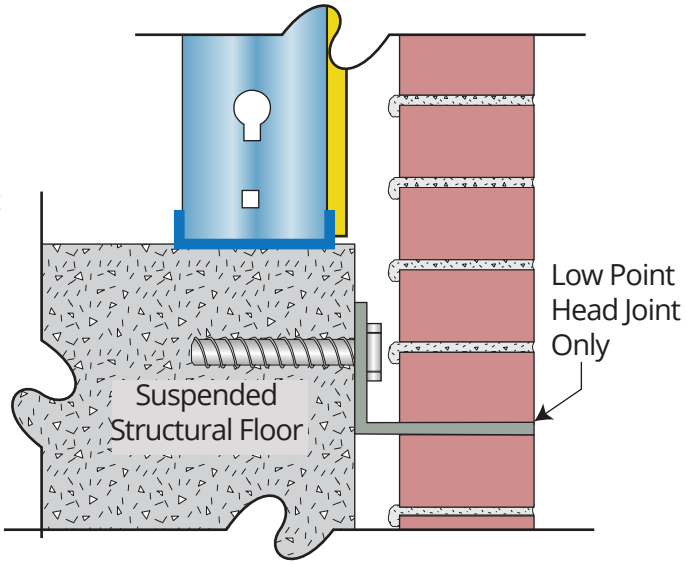
Note: Involve all required professional services.



Example 1



Example 2



Example 3

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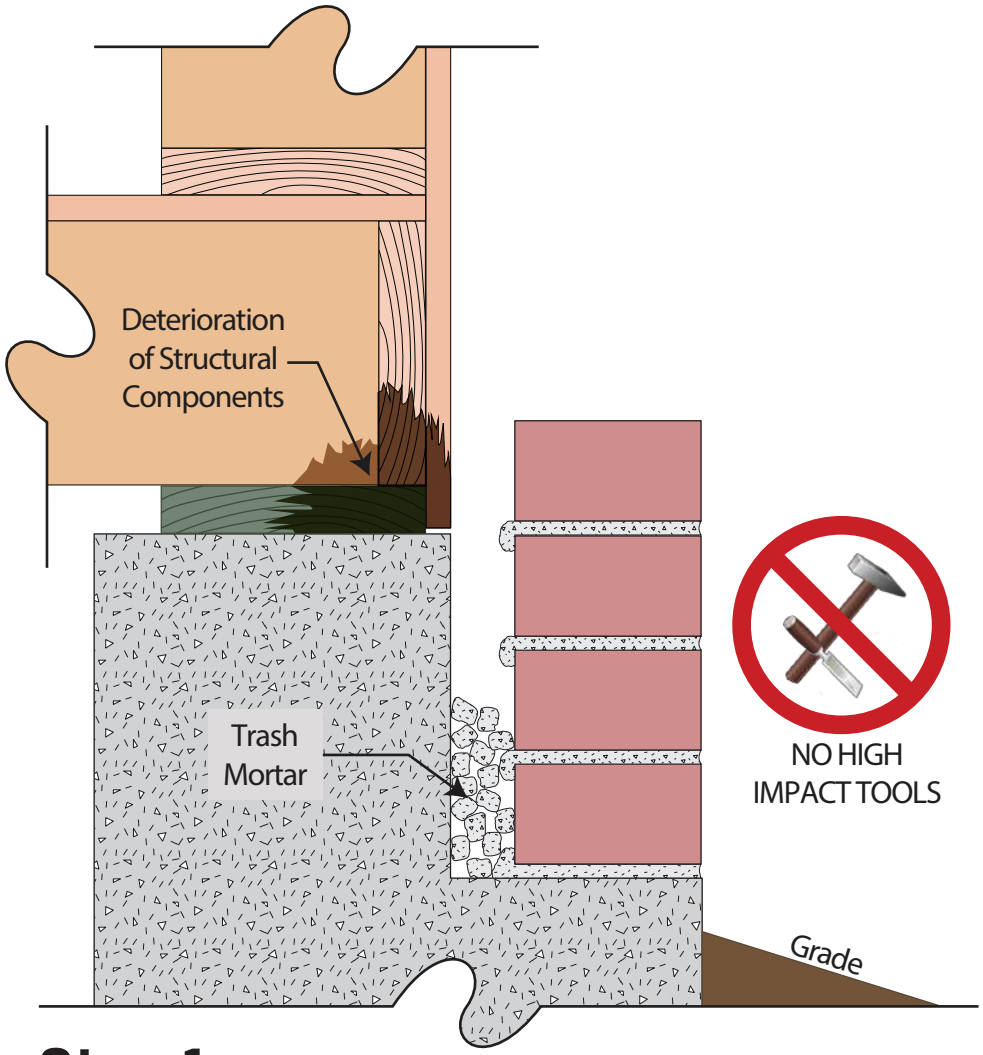
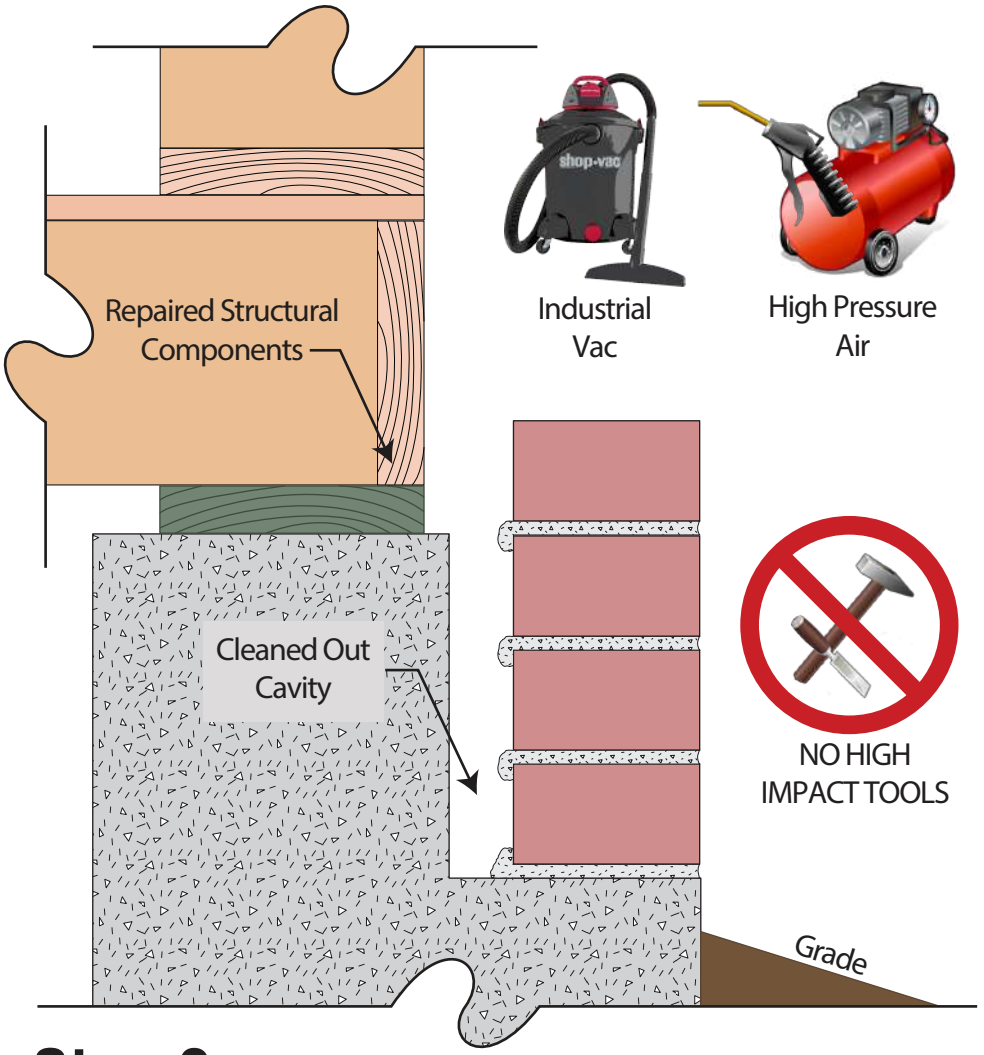


Step 1

Remove all of the deteriorated material from the area to be retrofitted.



Step 2

Replace any and all structural components as needed. **DO NOT** replace the exterior sheathing.

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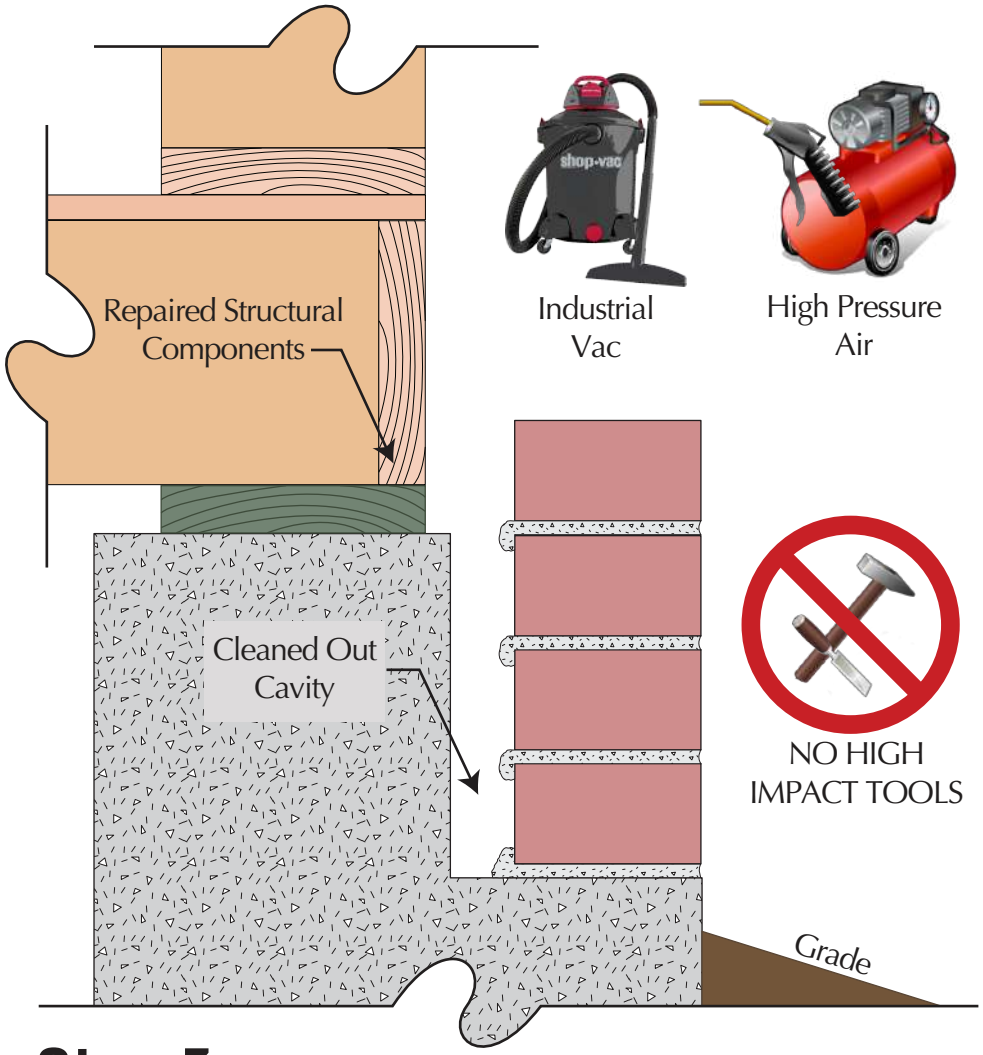
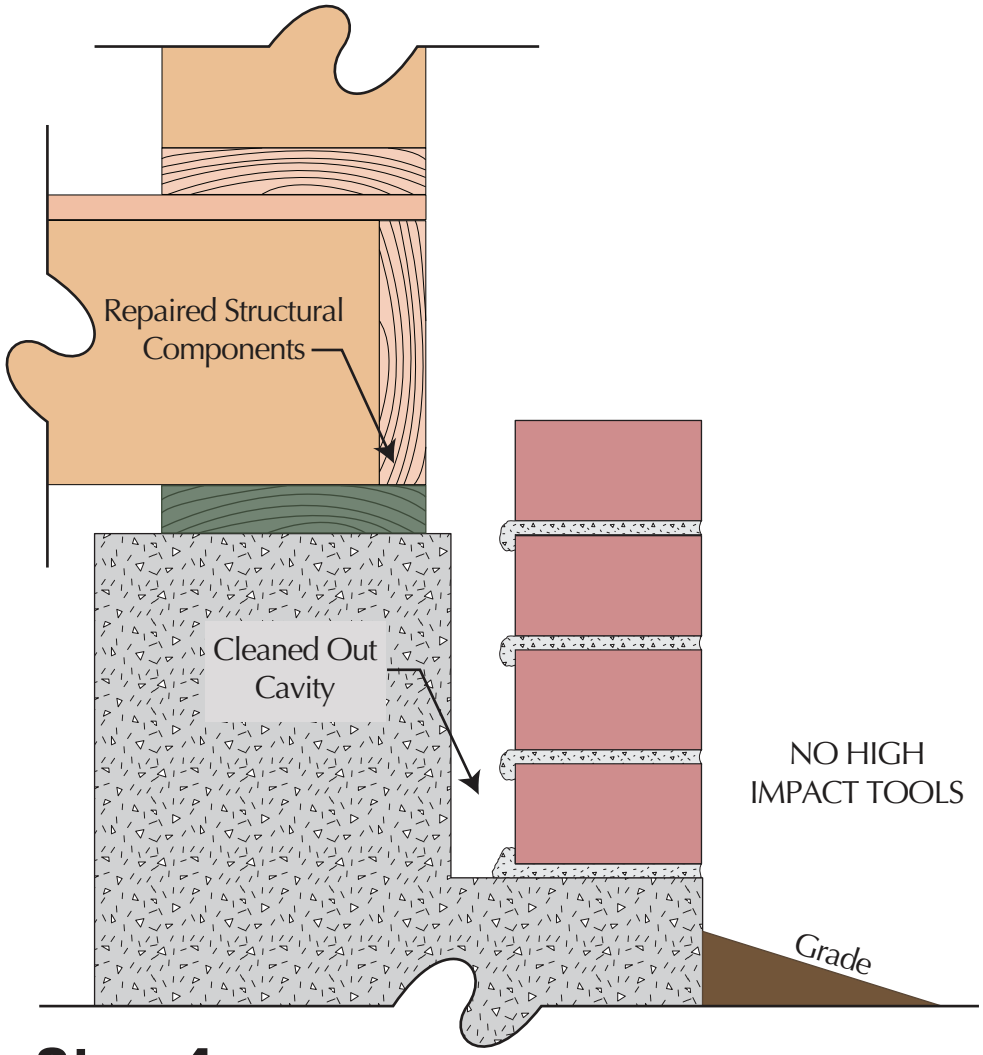


Step 3

Vacuum clean the area to be retrofitted.



Step 4

Determine which is the lowest brick bed or head joint at the area to be retrofitted.

****ABOVE GRADE****

16" ON CENTER*

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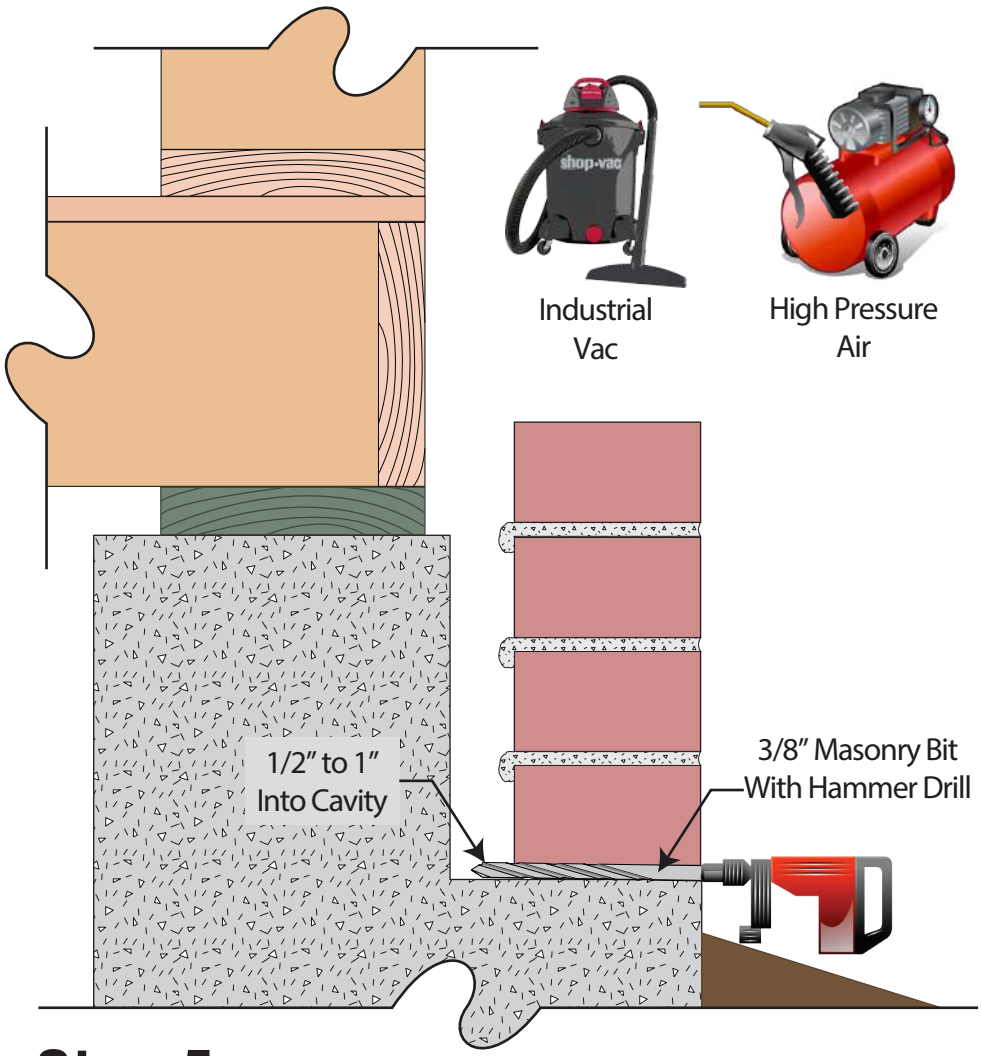
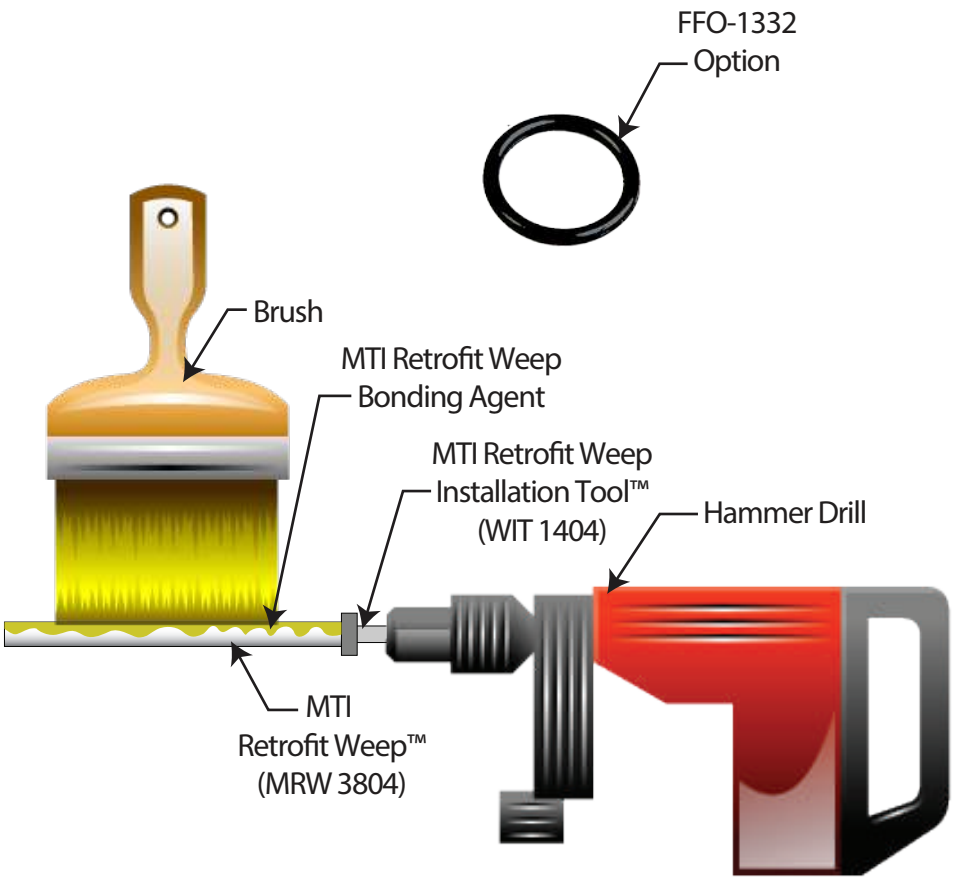


Step 5

Hammer drill a 3/8" hole in the bed joint or head joint mortar at this low point. Masonry drill bit should be long enough to reach the brick cavity plus 1". Remove all drilling debris.



Step 6

Apply Helix two part epoxy bonding agent, HIT-RE 500 V3, to MTI Retrofit Weep™ (MRW 3804) installed on the MTI Retrofit Weep Installation Tool™ (WIT 1404). Select friction fit O ring option if required.

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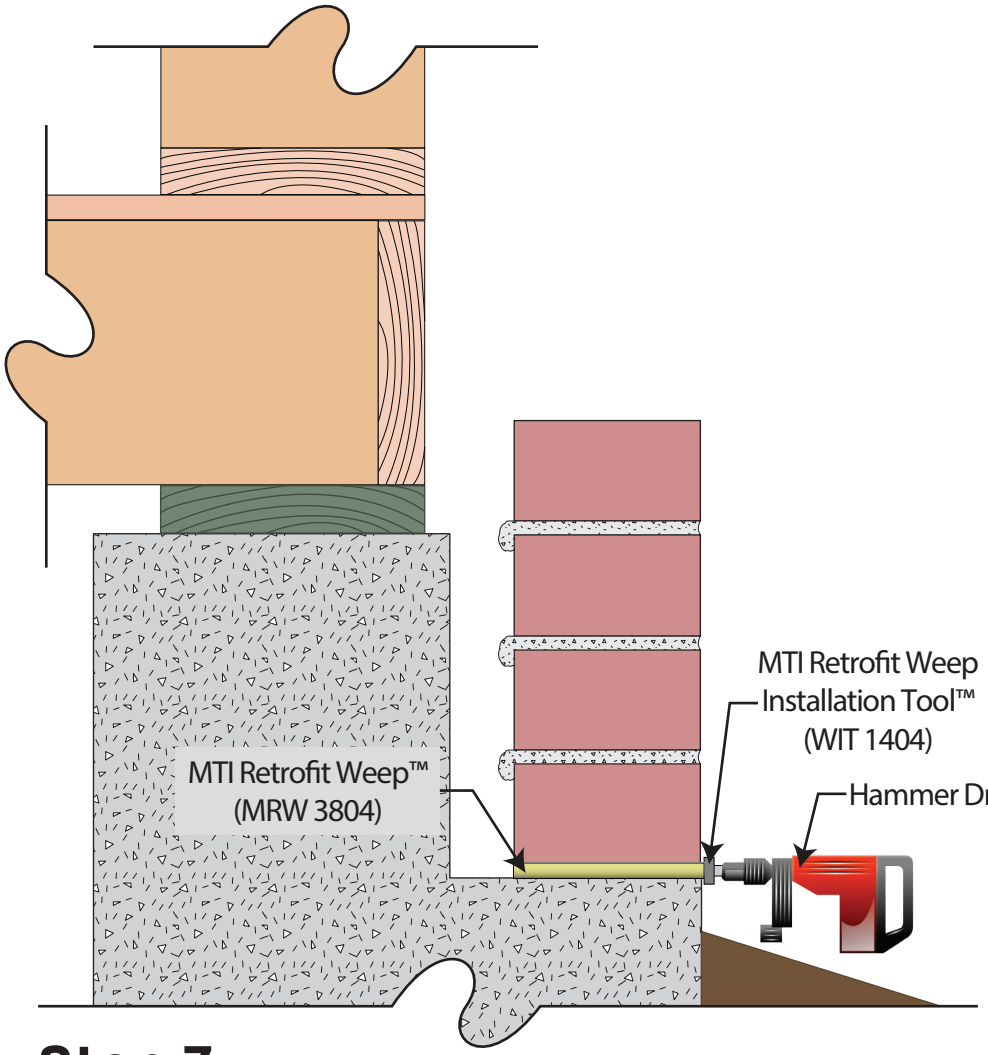
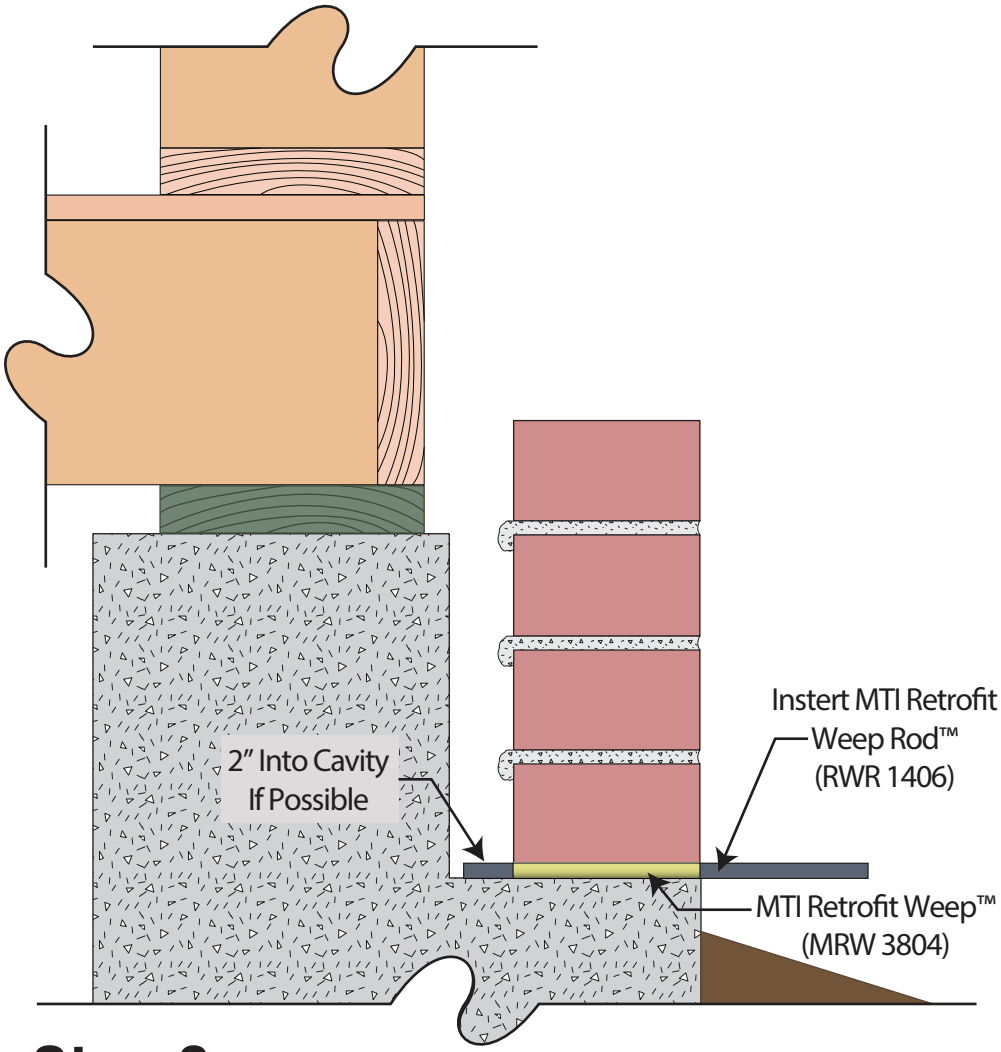


Step 7

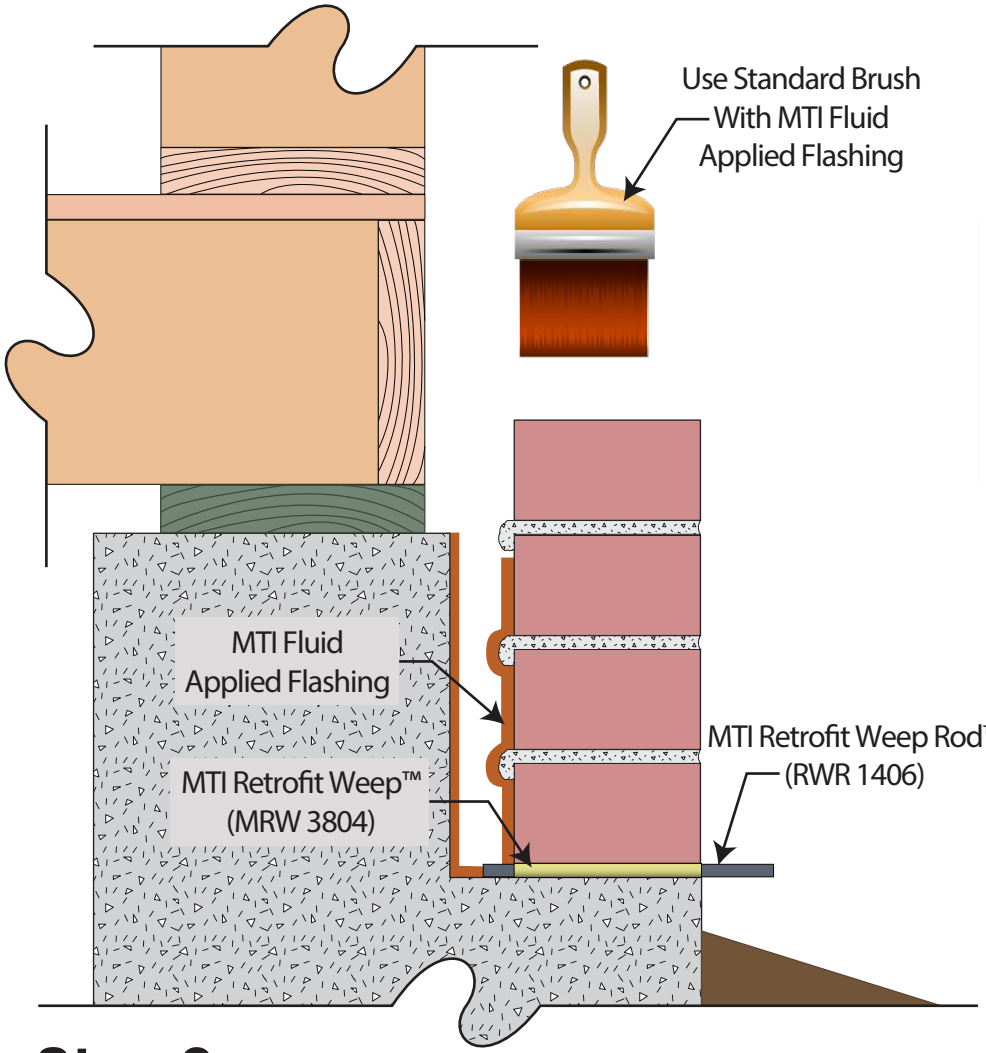
Install MTI Retrofit Weep™ (MRW 3804) into 3/8″ hole in brick bed joint or head joint using MTI Retrofit Weep Installation Tool™ (WIT 1404). The exterior end of the MTI Retrofit Weep™ should be flush with the exterior surface of the bed Joint or head joint of mortar, slightly inset from exterior surface of brick veneer. The interior end of the MTI Retrofit Weep™ should extend into brick cavity approximately $\frac{1}{4}$″.



Step 8

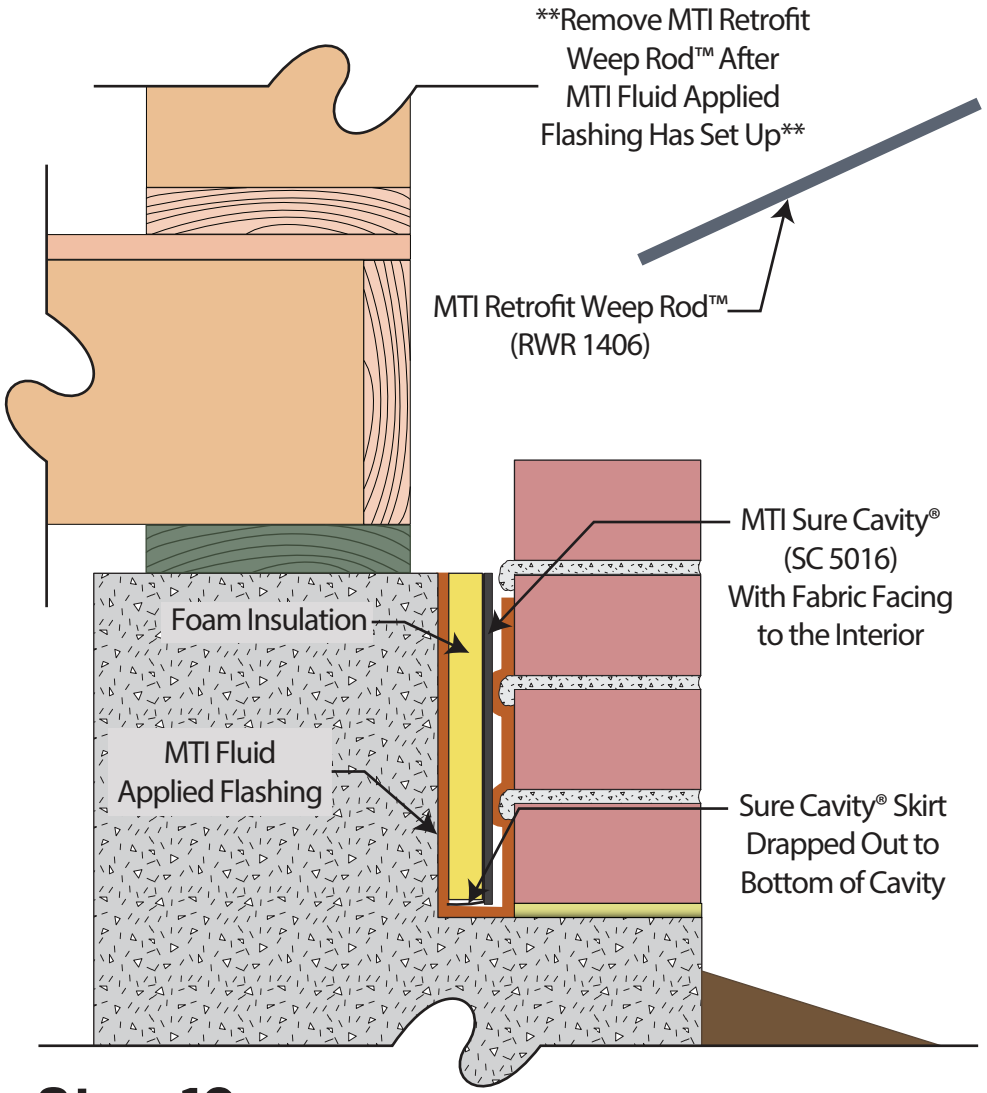
Insert MTI Retrofit Weep Rod™ (RWR 1406) into MTI Retrofit Weep™ and into brick cavity approximately 2″ if possible. Use mechanical drill if needed.

MTI Retrofit Weep™ (MRW 3804) Installation Guide



Step 9

Apply MTI Retrofit Weep™ fluid applied flashing. Application should be done with an airless spray wand or brush. Application should be generous, but not as to flood area to be addressed.



Step 10

Field Fabricate to fit and install MTI Sure Cavity® (SC 5016) against the interior back side of brick veneer with fabric facing the interior of building. The 3" bottom skirt should lay across bottom of brick cavity. Foam the remaining portion of cavity full and remove MTI Retrofit Weep Rod™.

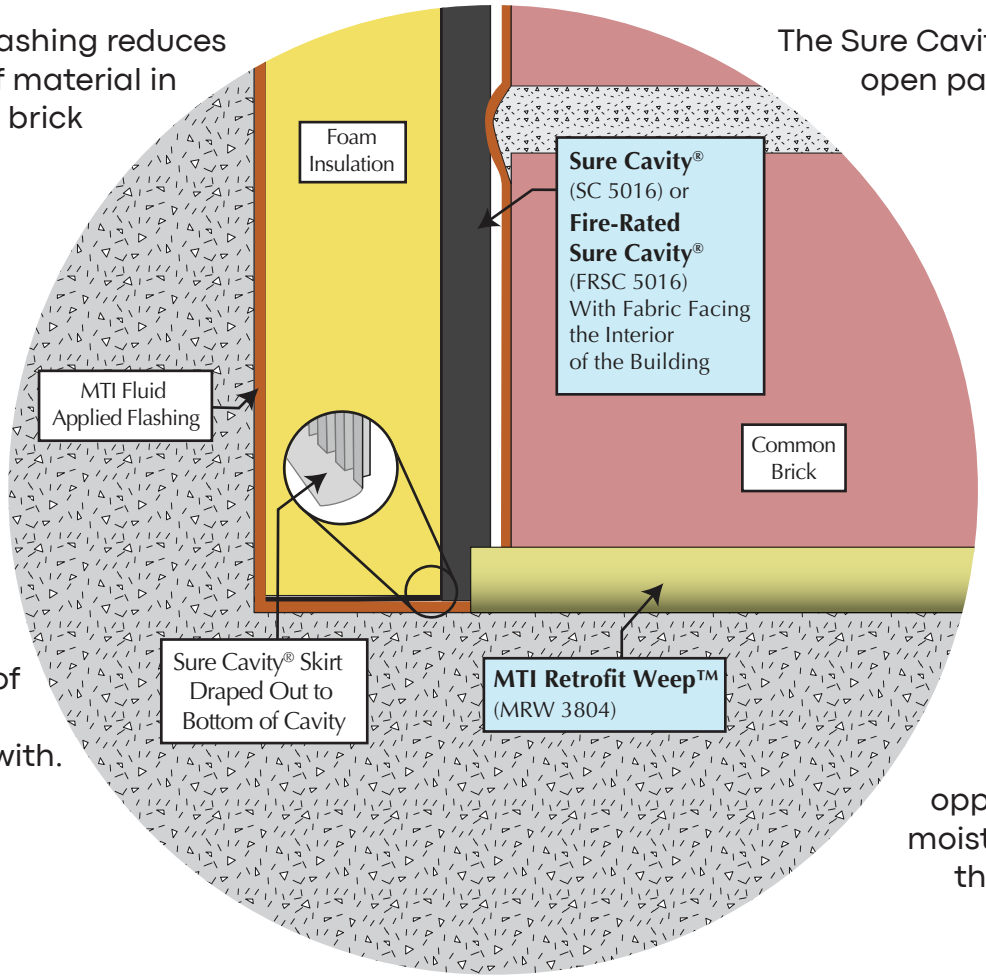
MTIdry Retrofit Weep™ System

"The Reason it Works"

This solution has been designed by a person with over 50 years in the construction industry.
The founder of a company that has been manufacturing moisture managment solutions for over 30 years.

The fluid applied flashing reduces the permeablitiy of material in this location of the brick cavity.

The Sure Cavity® maintains a clear, open pathway for moisture to move down to the MTI Retrofit Weep™.



This design limits the space where moisture can be and the amount of material it can come in contact with.

The MTI Retrofit Weep™ that is 16" on center at the lowest point in the wall, create numerous opportunities for the moisture that reaches this location to exit the brick cavity.

****This is a viable, cost effective option.**
****The skill level to produce this construction detail is modest.**
****The material required to produce this construction detail are readily available.**

MTIdry Retrofit Weep™ System

The MTIdry Retrofit Weep™ System is a viable alternative when the original weep system was nonexistent or inadequate. The installation of this technology requires access to the lower portion of a brick cavity from the interior of the building. (See examples 1, 2, & 3 on page 1 of this catalog)

This access allows for a thorough cleaning of the bottom of the brick cavity. It also provides for ease of application of the fluid applied flashing to the bottom of the brick cavity and to the backside of the lower course of brick. Additionally, it provides for a function test inspection of the retrofit weep system.

This technology limits the amount of labor and destructive labor procedure required on the exterior of the building. The required labor skill level is modest, with very consistent results. Many of the 10 steps in this installation guide are significant improvements over original installation procedures. In many historical, flood and fire damage restoration efforts, the need to address the structural stability of the existing brick veneer is also required.

Please reference MTIdry Retrofit Brick Tie™ System and consult the appropriate professional service and all code requirements.

MRW 3804

MTIdry Retrofit Weep™ System

MTI Retrofit Weep Fluid Applied Flashing™

Air and Waterproof Barrier

Produces a highly durable, seamless, elastomeric weatherproofing membrane on exterior sheathing, CMU backup walls, and precast concrete.

Hilti HIT-RE-550 V3 Adhesive Anchoring System™

Ultimate-Performance Injectable Expoxy Mortar

High performance and technical superiority as per international approvals.

The MTI Advantage

- Available in 5 Gallon Bucket or 55 Gallon Drum
- Install with Sprayer or Roller
- Quick-Curing
- Bonds to Most Building Materials Without Primer

The Hilti Advantage

- Suitable for All Year Use
- Longer Work Time
- Easy to Install
- Suitable for Water-Filled Holes

MTIdry

MTIdry Retrofit Weep™ System

Sure Cavity®
(SC 5016)

Drainage and Ventilation

Ventilating the wall provides even greater protection and drying capacity. Patented True Channel Technology that drains moisture faster and won't compress under pressure.

MTI Retrofit Weep™
(MRW 3804)

Point of Egress

The MTIdry Retrofit Weep™ System is the one and only COMPLETE retrofit weep system. The MTI Retrofit Weep™ allows moisture to exit the brick veneer from the brick cavity to the exterior of the structure.

MTI Retrofit Weep Installation Tool™
(WIT 1404)

Ease of Installation

- Use to ease installation of the MTI Retrofit Weep™
- Available from MTI

MTI Retrofit Weep Rod™
(RWR 1406)

Ease of Installation

- Maintains opening of MTI Retrofit Weep™ when applying MTI Retrofit Weep Fluid Applied Flashing
- Available from MTI

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MTI Retrofit Weep™

(MRW 3804)

Features	Benefits
Low-cost alternative that is effective.	Provides the required moisture management technology, "weeps", at a lower cost.
Modest labor skills for installation.	Labor force is available at a reasonable cost.
100% designed and manufactued in the U.S.A.	Readily available, reliable supply, short lead time.
Detail Technology that is superior to original construction.	Improved building performance and extended life span.
Work can be performed under various weather conditions.	Construction schedule can be more predictable.
Access to the bottom of the brick cavity.	Ability to remove trash mortar, clean cavity.
	Ability to apply waterproofing materials to the bottom of the cavity and back side of lowest course of brick.
	Ability to inspect weep holes and their function.

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