



Retrofit Brick Tie™

(RBT 7381)



COMMERCIAL



RESIDENTIAL

- HISTORICAL RESTORATION
- FLOOD DAMAGE RESTORATION
- FIRE DAMAGE RESTORATION

MTI DESIGNS FOR IT.

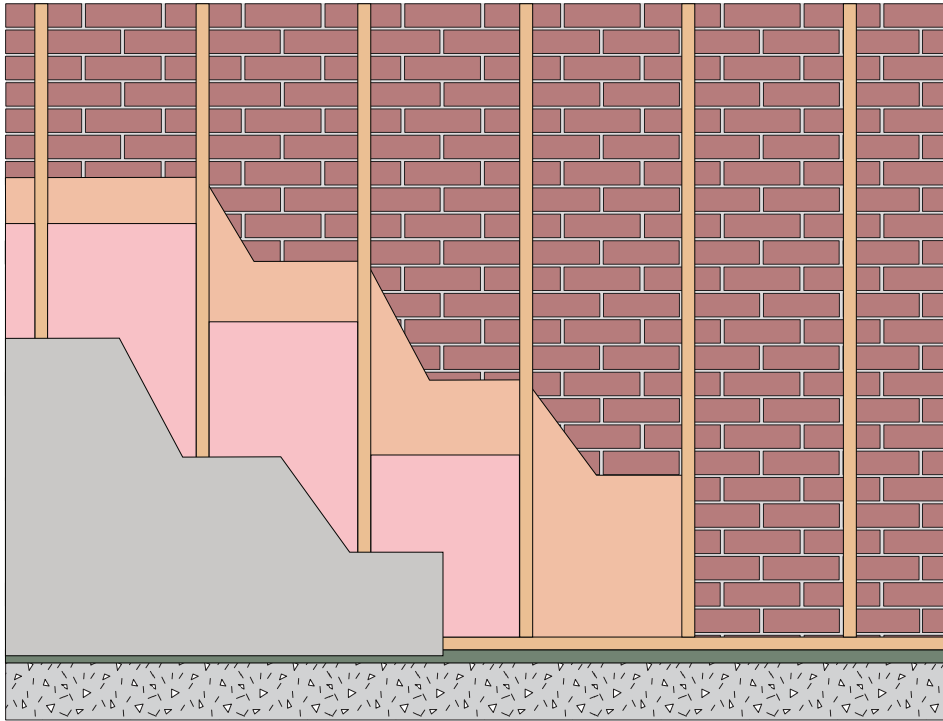
FROM THE INSIDE OUT



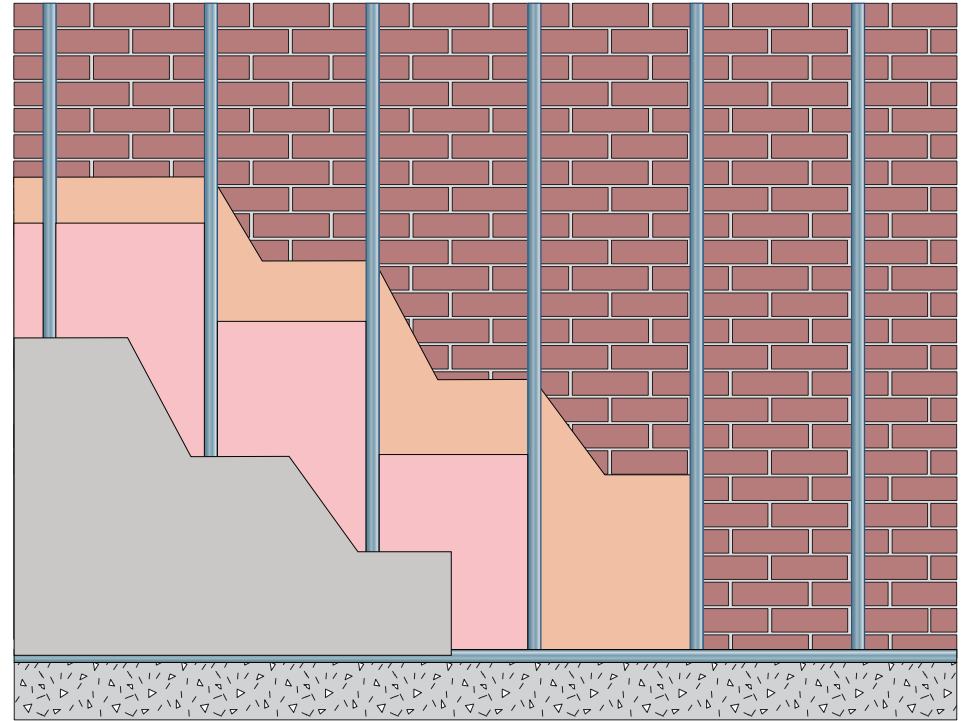
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Retrofit Brick Tie™ (RBT 7381) Installation Guide

Note: Involve all required professional services.

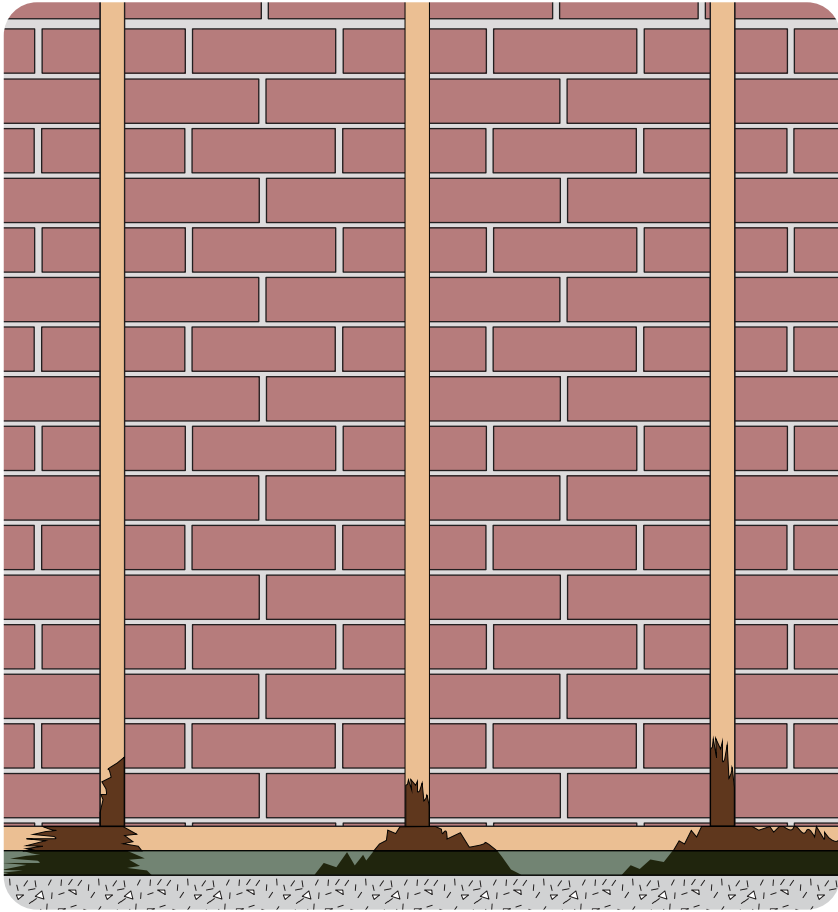


Example 1 - Wood Framing



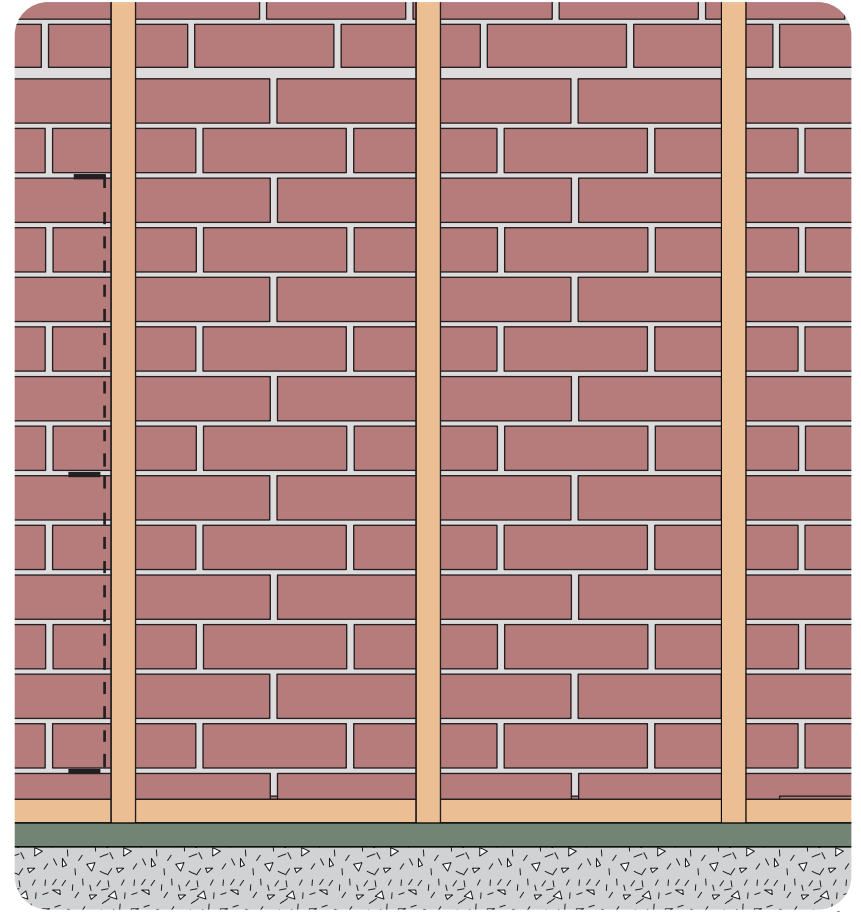
Example 2 - Steel Framing

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Step 1

Remove all deteriorated material from area to be retrofitted.



Step 2

Replace any and all structural components as needed. **DO NOT** replace deteriorated exterior sheathing. Vacuum clean area to be retrofitted.

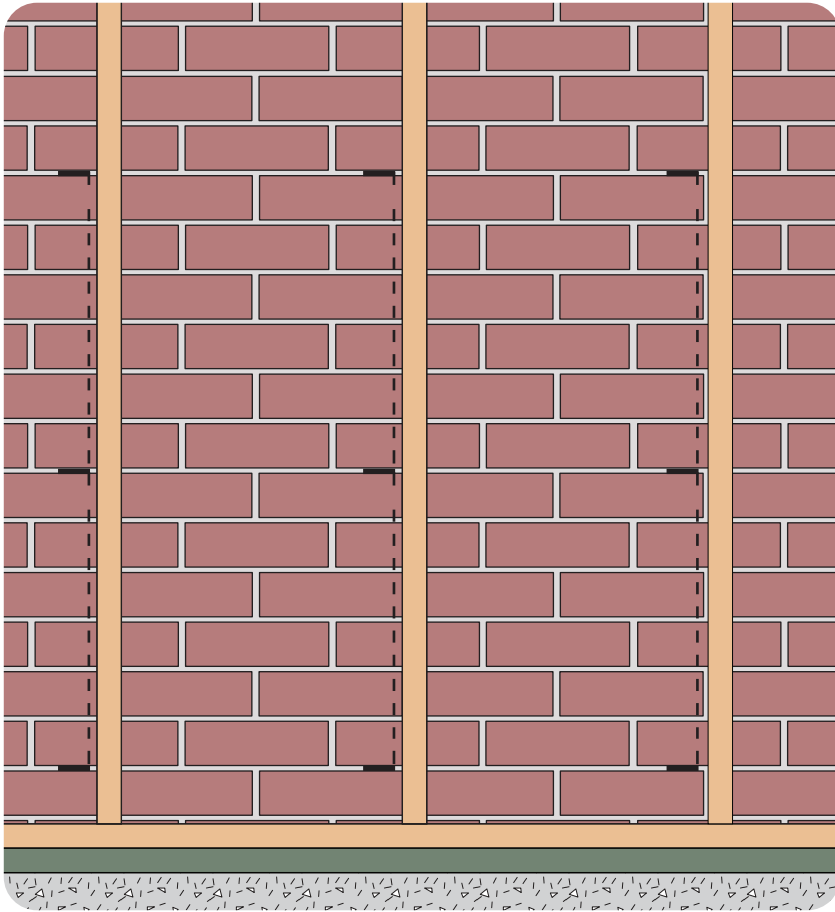


Industrial
Vac



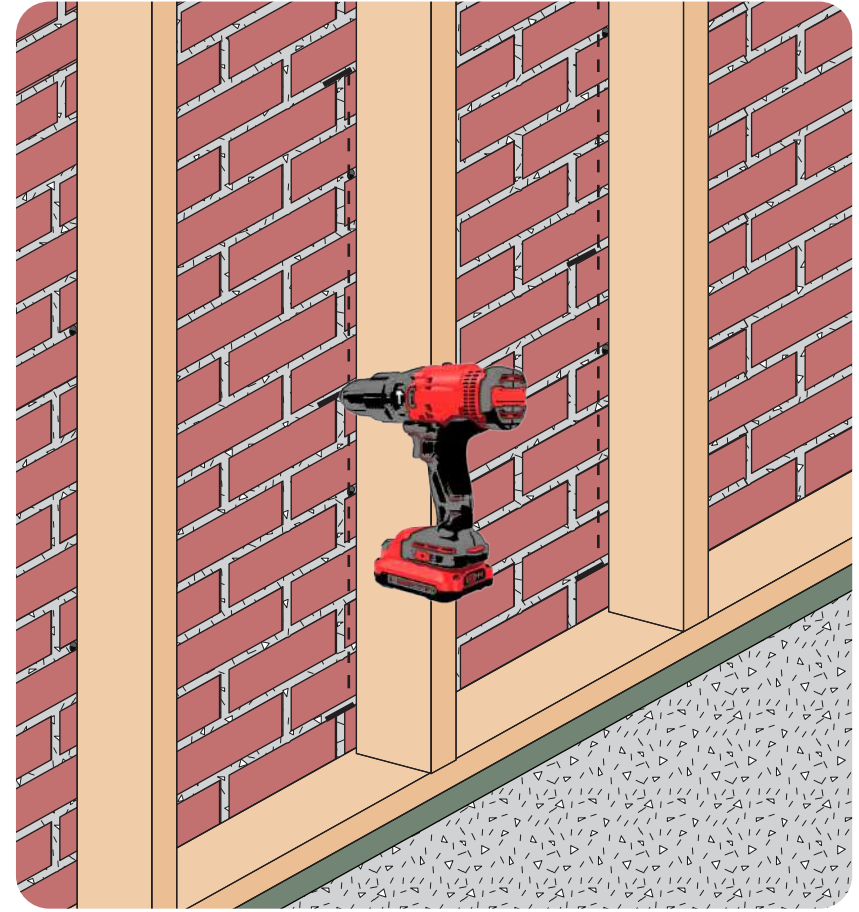
NO HIGH
IMPACT TOOLS

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Step 3

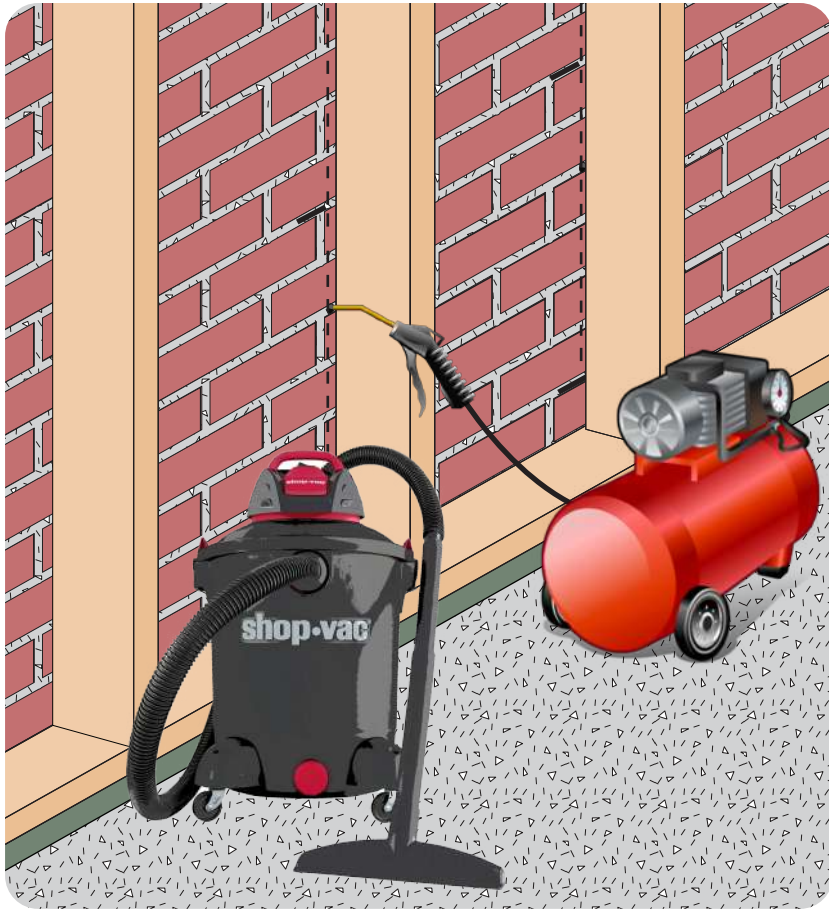
Layout retrofit brick tie pattern on backside of brick veneer on studs on a 16" rise pattern. Starting on floor level. Note: This is the time to determine if a retrofit weep and flashing system is required. If so, see MTI's Retrofit Weep™ Installation guide.



Step 4

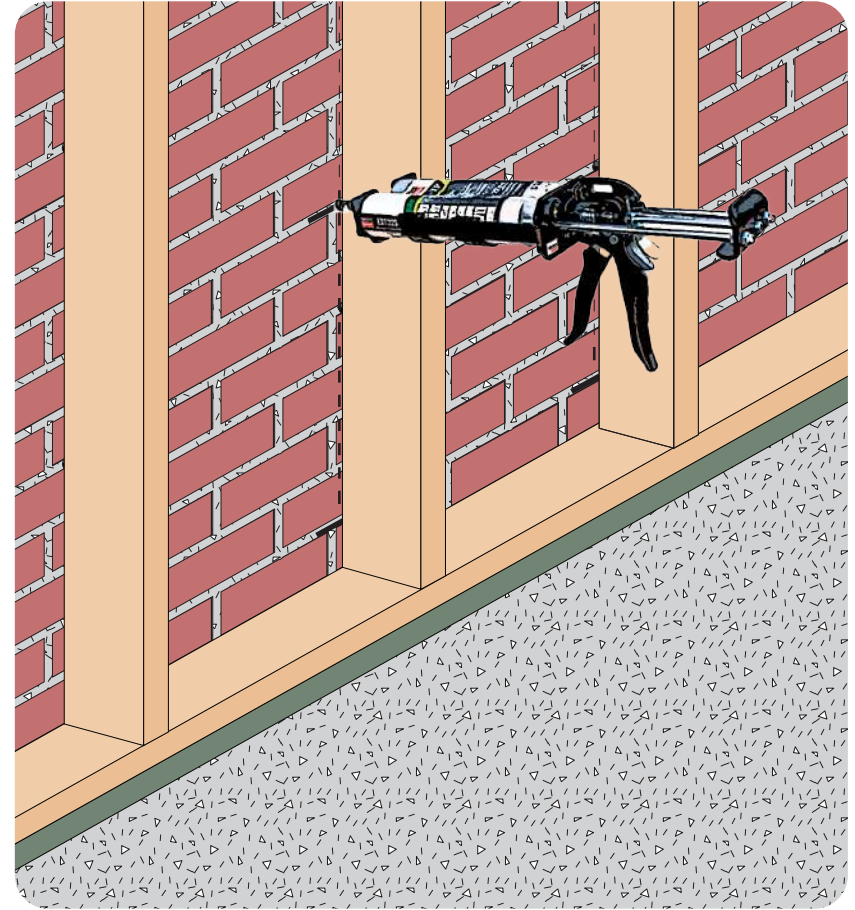
Using a hammer drill and 3/8" masonry bit, drill 3/8" hole 3" into mortar head or bed joint from back side of brick veneer on predetermined grid pattern in line with the edge of stud in this grid pattern.

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Step 5

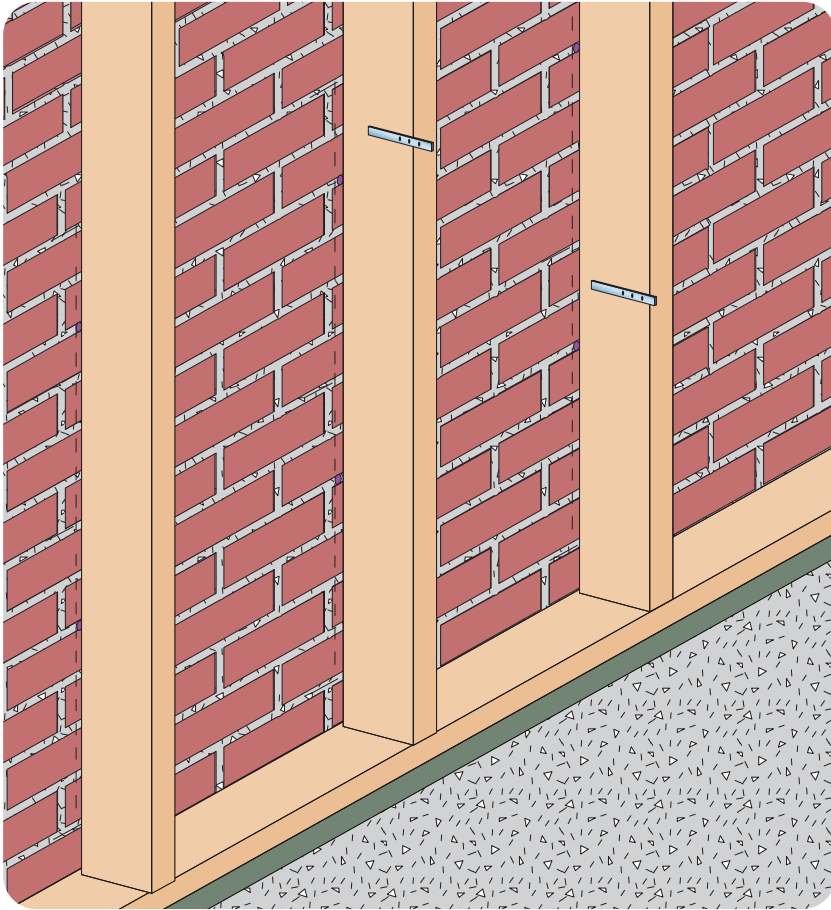
Thoroughly clean 3/8" holes that have been drilled into mortar joint.



Step 6

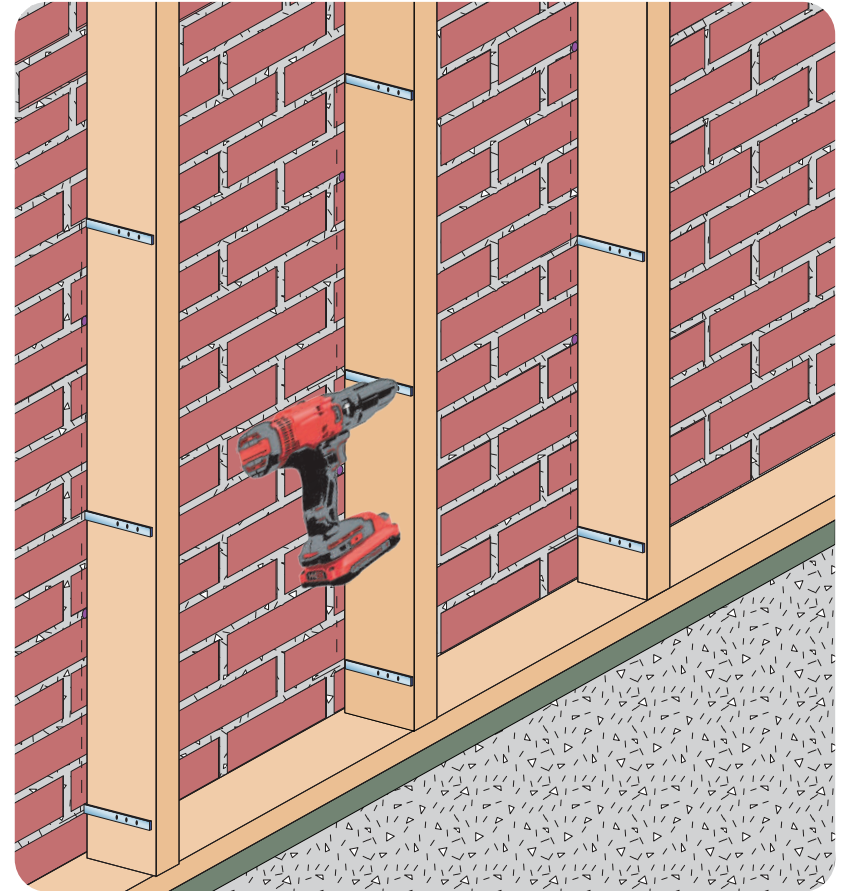
Apply Helix two-part epoxy, HIT-RE 500 V3, into 3/8" hole that has been drilled into mortar joint using a Hilti HDM 500 manual adhesive epoxy dispenser. Ensure the hole is completely filled until Helix two-part epoxy is overflowing.

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Step 7

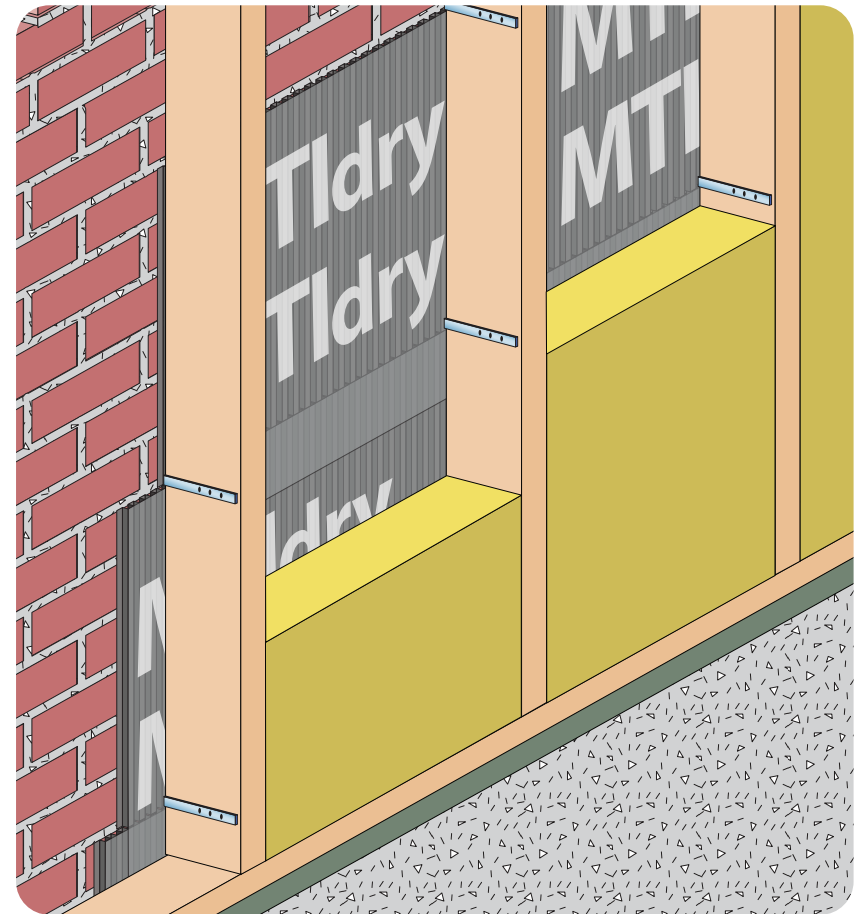
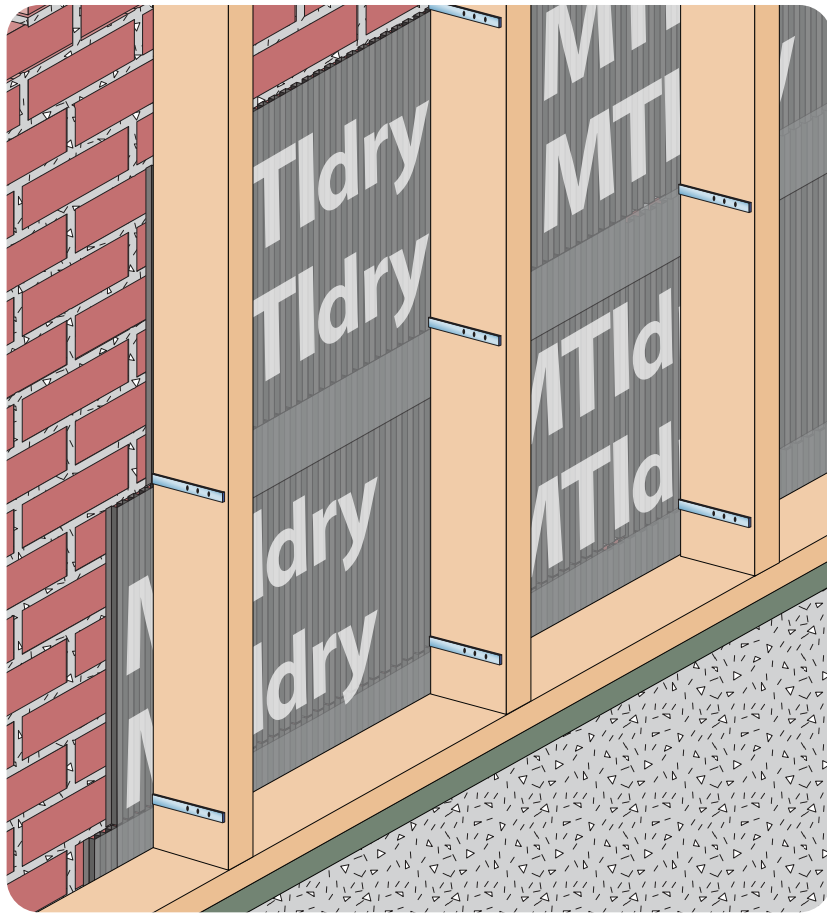
Immediately insert a Retrofit Brick Tie™, (RBT 7381) and work it into the Helix two-part epoxy while aligning it with the side surface of the appropriate stud.



Step 8

Fasten Retrofit Brick Tie™ (RBT 7381) to appropriate stud using the appropriate fasteners for wood studs or steel studs.

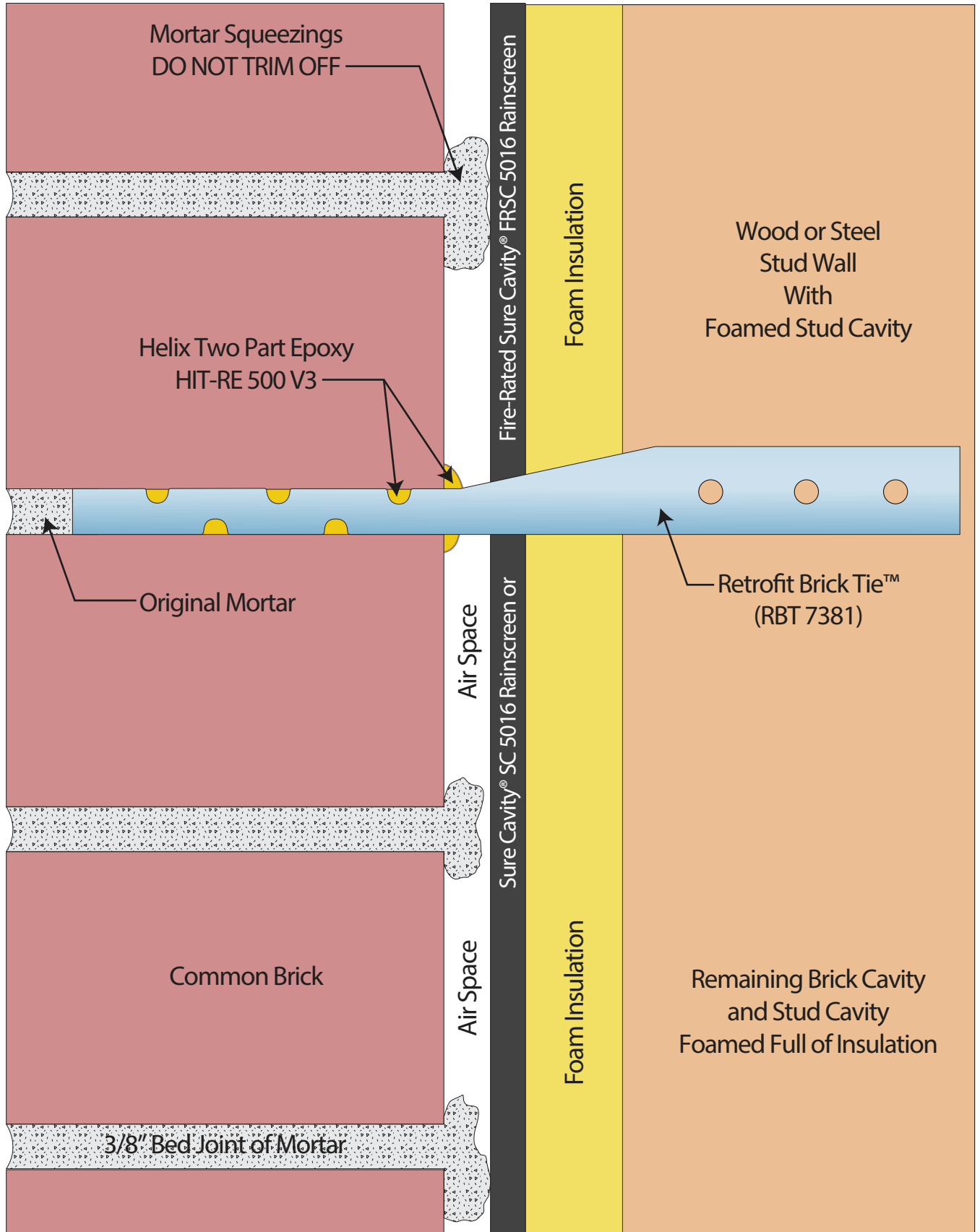
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Step 9

Install Sure Cavity® (SC 5016) or Fire-Rated Sure Cavity® (FRSC 5016). Cut Sure Cavity® into 3' to 4' pieces for easy installation. Sure Cavity® fabric should face the interior of building (you).

Apply foam insulation into the remainder of brick cavity and stud cavity. Stud cavity should be foamed full. Note: Install strapping to the interior of stud wall if required.





MTIdry Retrofit Brick Tie™ System

The MTI Retrofit Brick Tie™ is a viable alternative when the original brick ties are nonexistent or inadequate. The installation of this technology requires access to the back portion of a brick cavity from the interior of the building. (See steps 1-10 of this catalog)

This access allows for a thorough cleaning of the back of the brick veneer and bottom of the brick cavity. It also provides for ease of installation of the retrofit brick tie to the back of the brick veneer and to the structural stud wall. Additionally, it provides access for the installation of Sure Cavity® rainscreen and foam insulation.

This technology limits the amount of labor and destructive labor procedures 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, there is a need to address the moisture management of the existing brick veneer.

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

RBT 7381



MTIdry Retrofit Brick Tie™ 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.

The MTI Advantage

- ✓ Unobstructed Drainage
- ✓ Vapor Permeable for Full Ventilation
- ✓ Resists Compression, Reduces Waviness
- ✓ Cut Install Time by 50% (vs. furring strips)
- ✓ Mortar Blocking Fabric & Bug Screen
- ✓ Plastic is 100% Recycled Content
- ✓ 20 Year Warranty



MTIdry

MTIdry Retrofit Brick Tie™ System

Hilti HIT-RE-550 V3 Adhesive Anchoring System™



Ultimate-Performance Injectable Epoxy Mortar

High Performance and technical superiority
as per international approvals.

The Hilti Advantage

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



Retrofit Brick Tie™

(RBT 7381)

Features	Benefits
No exterior wall construction needed.	Maintains building's original historical appearance.
Stronger/engineered brick ties.	Stronger wall with extended life span.
Predictable/engineered installation pattern.	Exterior building envelope will perform better/last longer.
Allow for improved moisture management system.	
Allows for improved insulation system installation.	
Designed and manufactured in U.S.A.	Readily available, reliable supply, short lead time.
Passes and exceeds all strength requirements for brick ties. (Test to break - ASTM D1621)	Dependable consistent product.



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