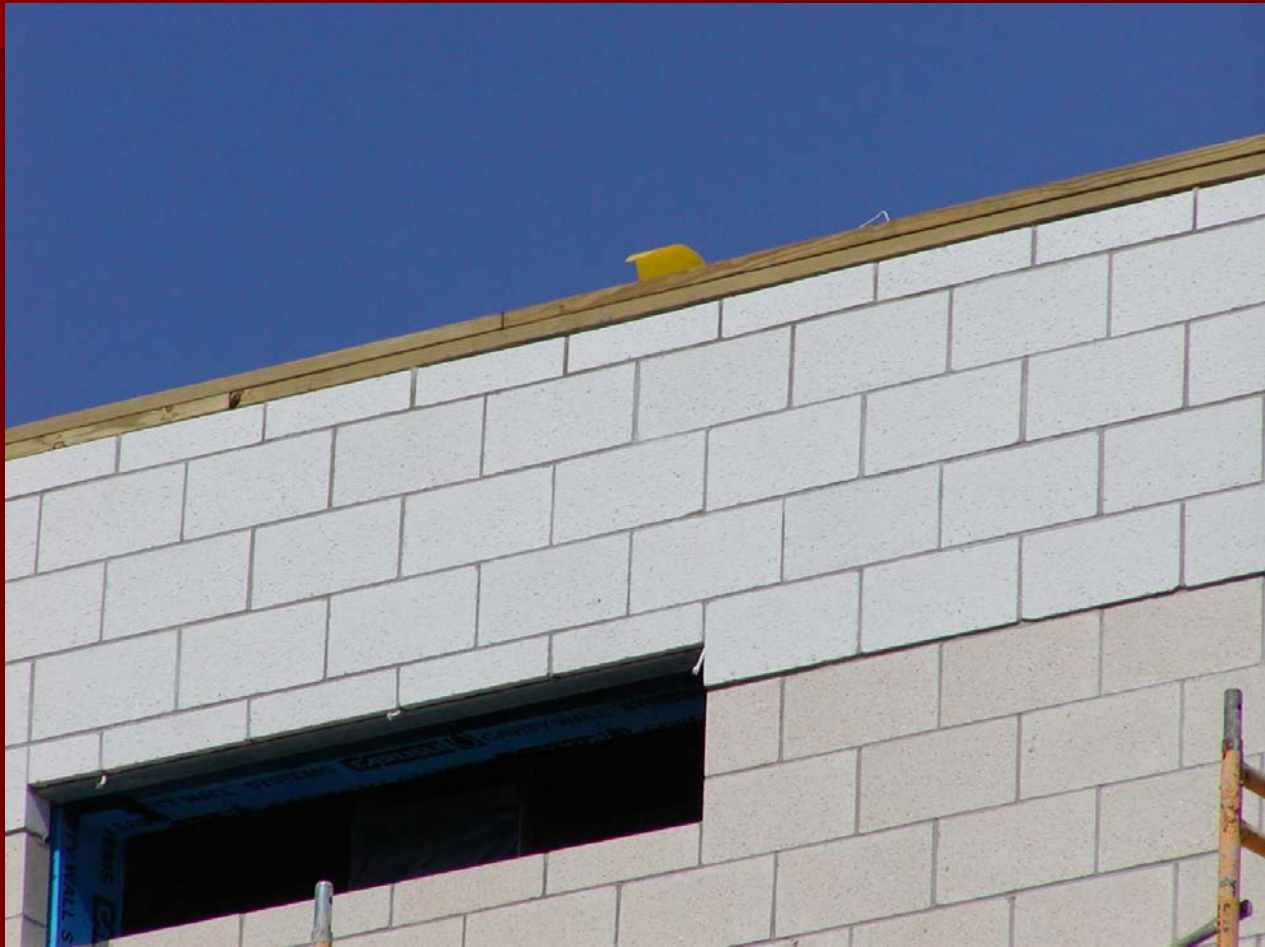


PROBLEMS TO AVOID

STARTING AT THE ROOF

ROOF TIE IN



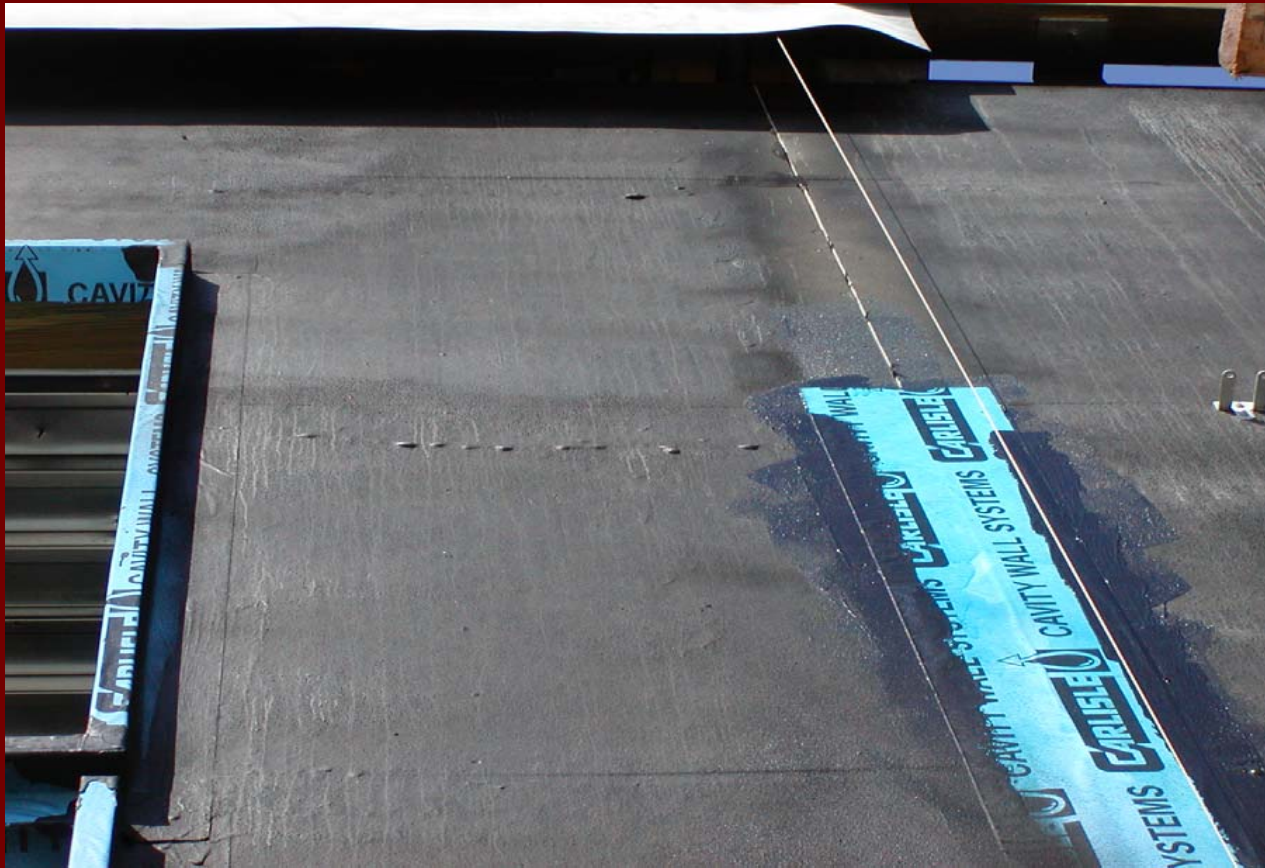
NO AIR BARRIER TIE IN WITH THE ROOF



AIR/VAPOR BARRIER ON THE WRONG SIDE OF THE INSULATION



ROOF IS NOT IN BEFORE THE WALL AIR BARRIER IS INSTALLED



AVOID EXTERIOR GYP BOARD









foam



SCOREBOARD
GENERAL INSULATION

HOLES IN THE AIR BARRIER

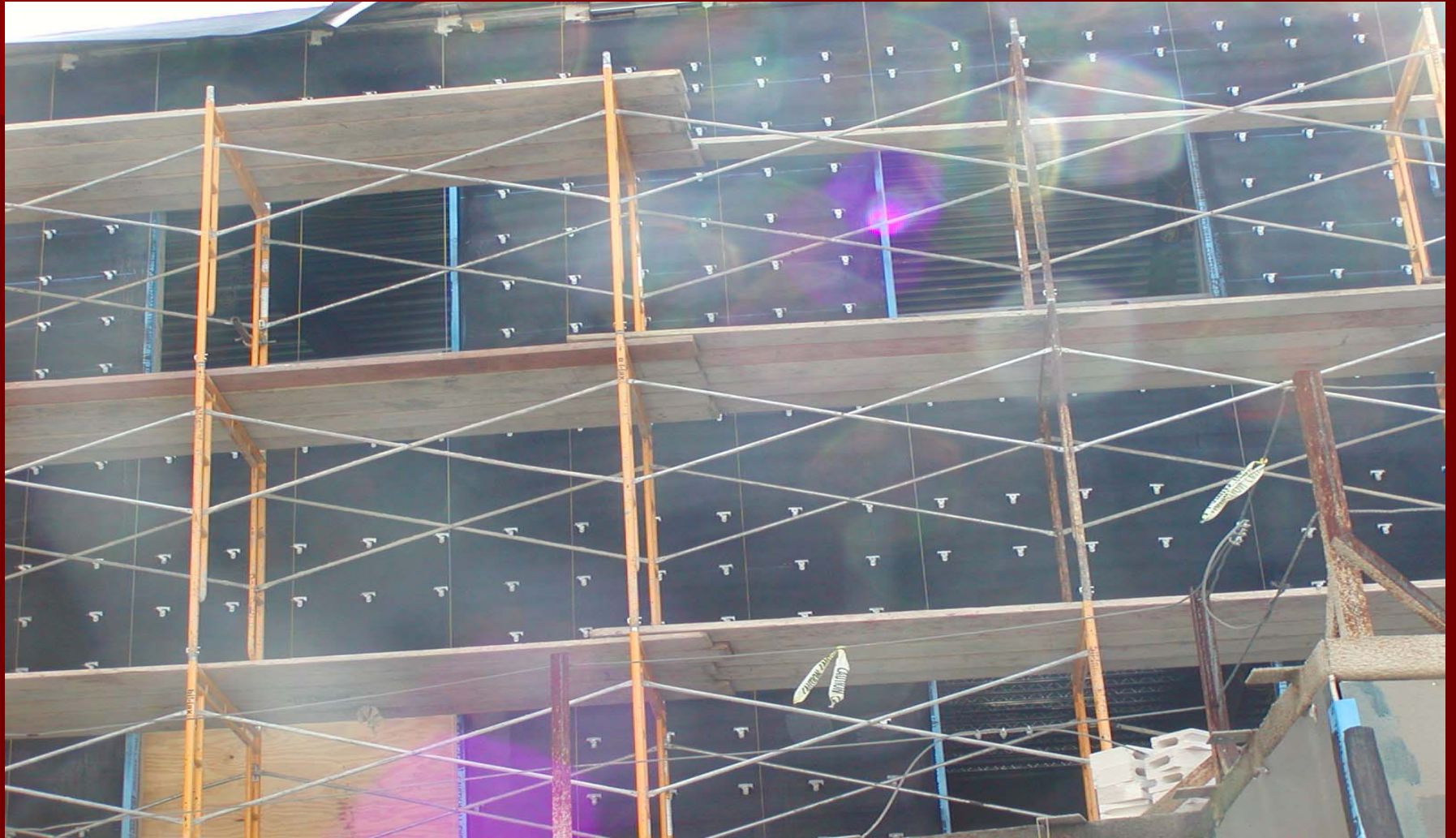
Efflorescence occurs when moisture driven through masonry dissolves the salts entrained within the mortar and brick. These salts are deposited on the outside of the assembly, and when the moisture evaporates the salt is left behind to stain the building

BRICK TIES

MEET THE STRUCTURAL CODE
REQUIREMENT

NEED TO SECURE THE INSULATION, AND
ALLOW FOR THE USE OF A 4 X 8 SHIPLAP
INSULATION BOARD

BRICK TIES TO AVOID



AVOID THIS TYPE OF BRICK TIE



**RESULT OF BRICK TIES THAT
DO NOT SECURE THE INSULATION
OR ALLOW FOR
4 X 8 SHIPLAP INSULATION**









SYSTEMS



MS CARLISLE CAVITY

TE ULTRA

(989)636-4400

*Trademark of THE DOW CHEMICAL COMPANY

CLUDED

2.03

E IN CANADA





Protect from high

For more information,
(2583) In an emergency ca



CORRECT APPLICATION OF BRICK TIES AND INSULATION

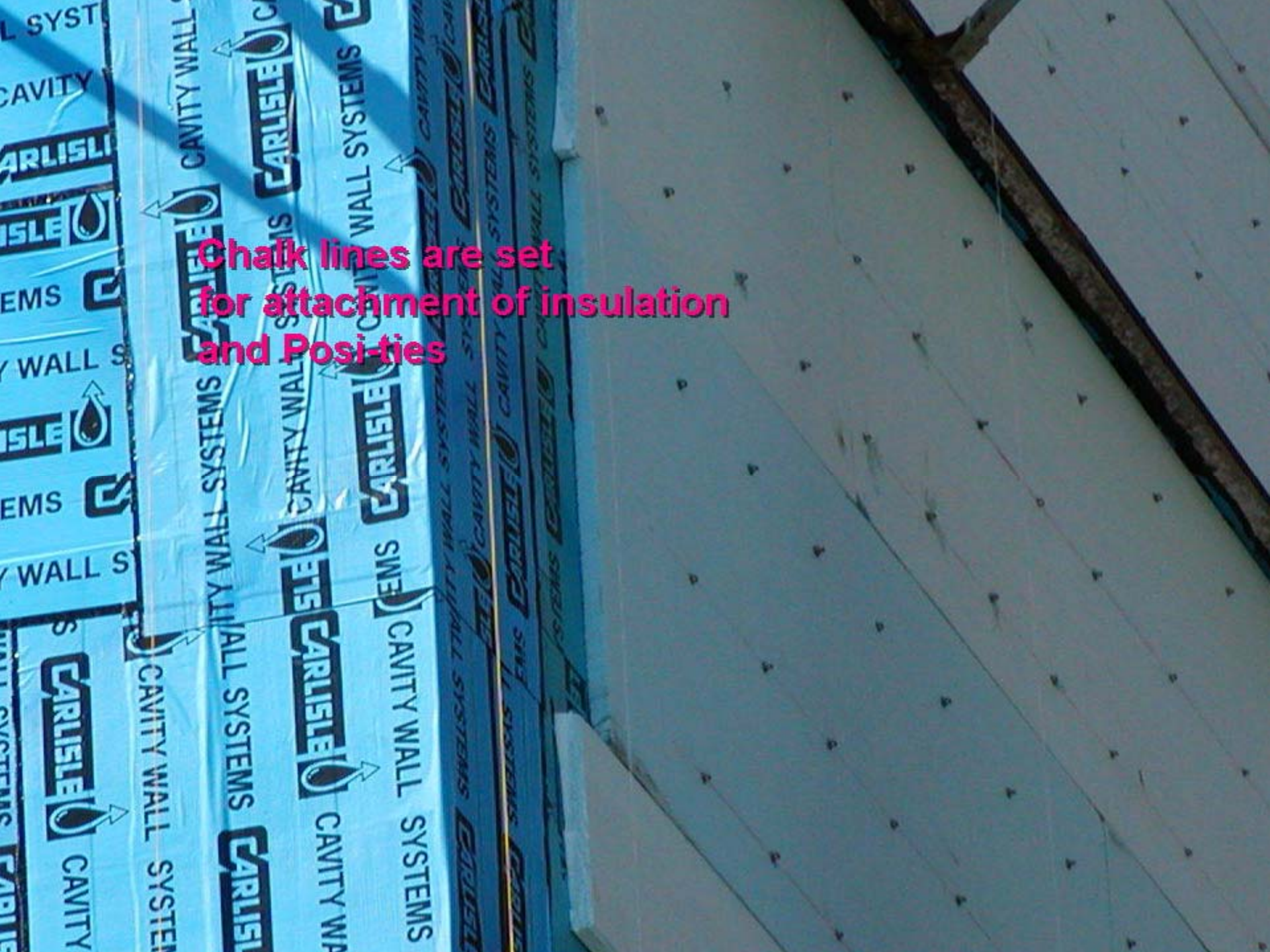




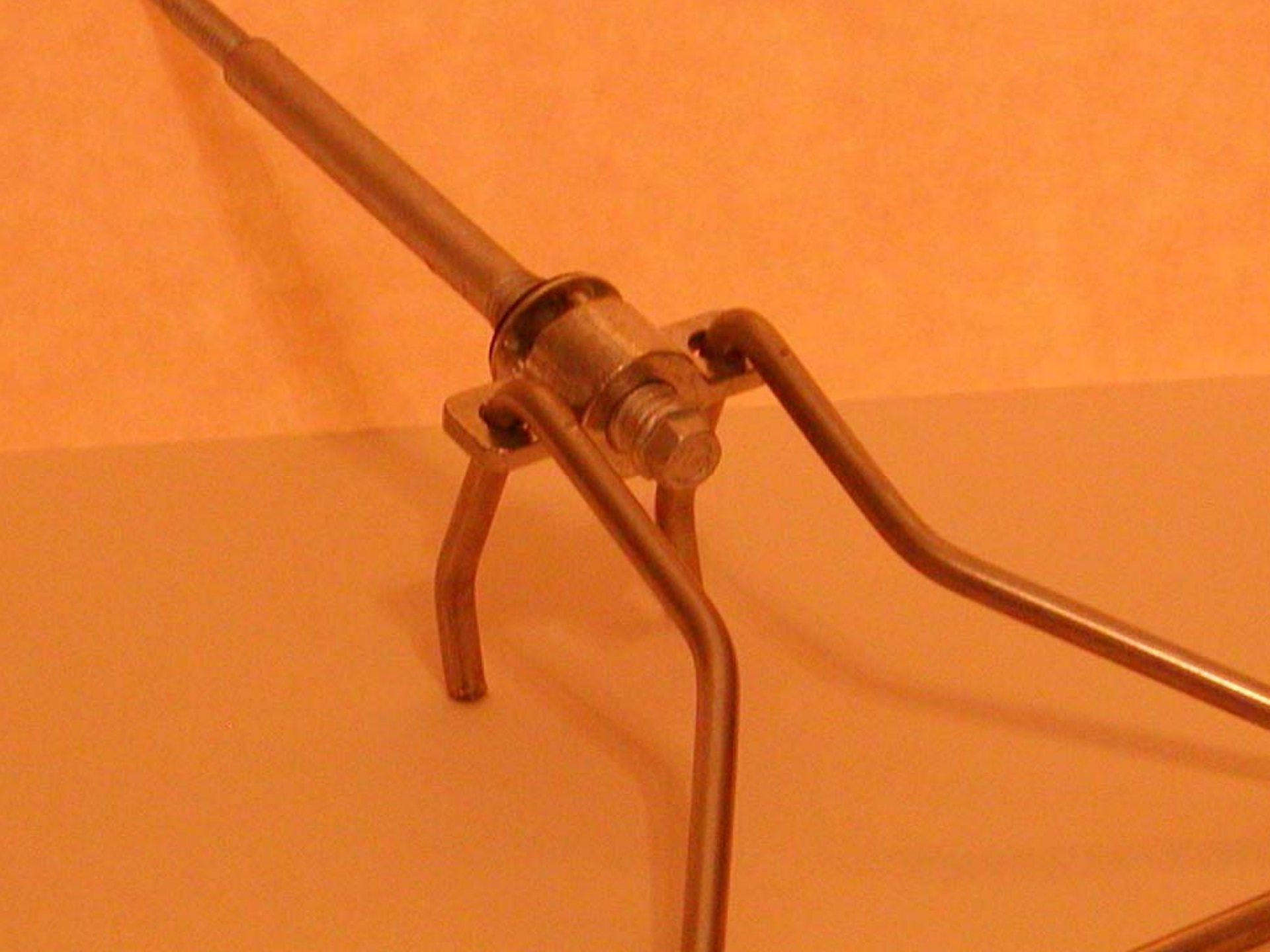
**HECKMANN POSI-TIES ARE SECURED THROUGH
THE FOAM, AIR BARRIER, AND DENS-GLASS AND
ATTACHED TO THE METAL STUD OR BLOCK**



Chalk lines are set for attachment of insulation and Posi-ties







**POS-I-TIE WING NUT SECURES THE INSULATION
TO THE WALL**



**ALLOWS UP TO 3/4" INWARD ADJUSTMENT TO
FIT A VARIETY OF THICKNESS OF DENS GLASS
OUT OF PLANE STEEL AND MILL THICKNESS
AIR BARRIERS**



BLOCK WALLS NEED TO BE FREE OF VOIDS AND STRUCK FLUSH



PROTECT BLOCK FROM WATER DURING CONSTRUCTION









CAUTION: This product
barrier is required as spe
information, consult MSI
emergency, call 1-519-3
MISE EN GARDE : Ce
thermique est une barri
Pour plus de détails, con
Dow au 1-800-387-1010
CANULC ST0100E 2
IT IS THE BUYER'S RE
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DOW CHEMICAL CANA
*Trademark of and license
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CAUTION: This product
barrier is required as per
information, contact MDC
emergency, call 1-516-833-
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MISE EN GARDE : Ce
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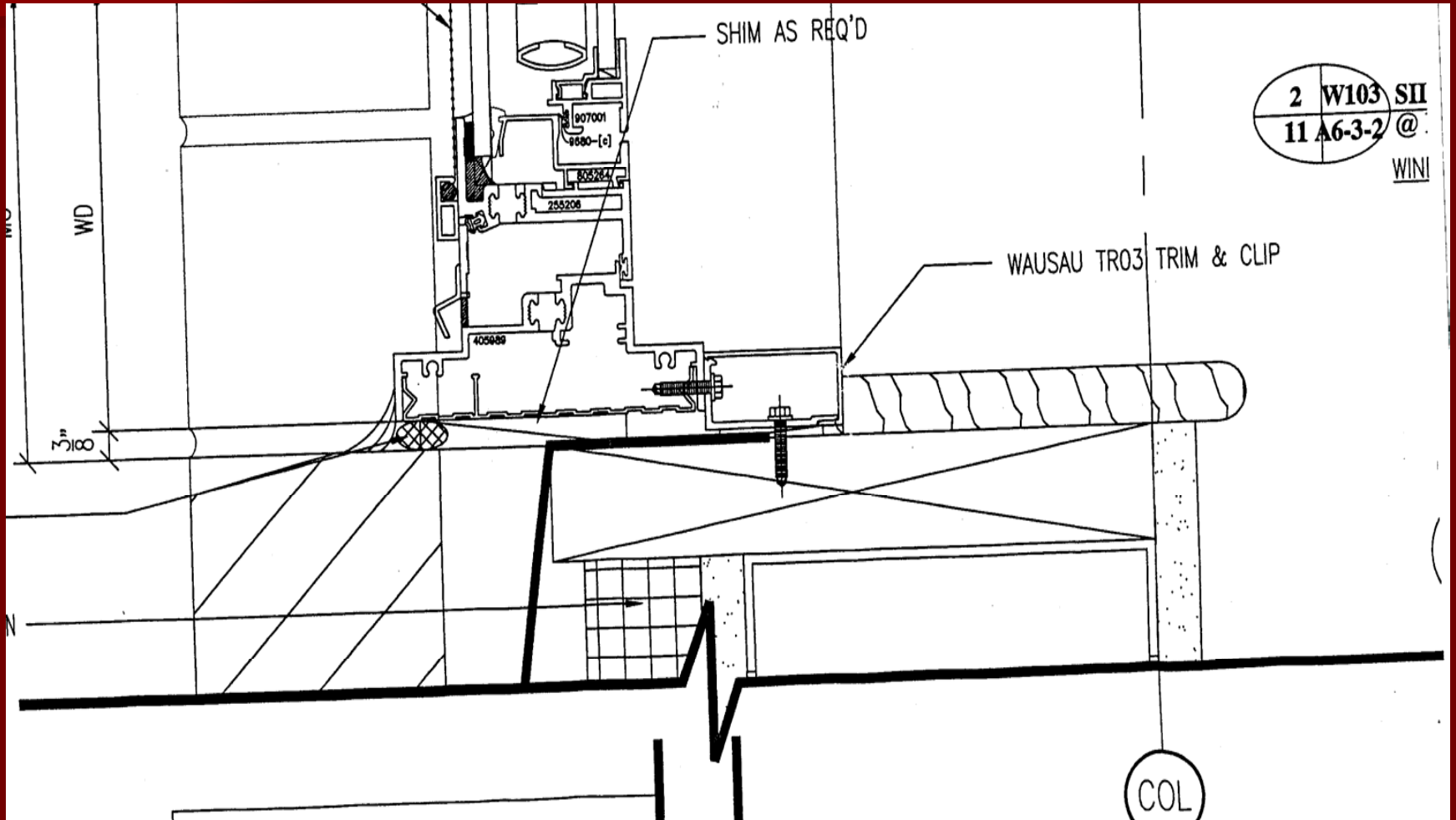
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ON
URS

WINDOW DETAILS

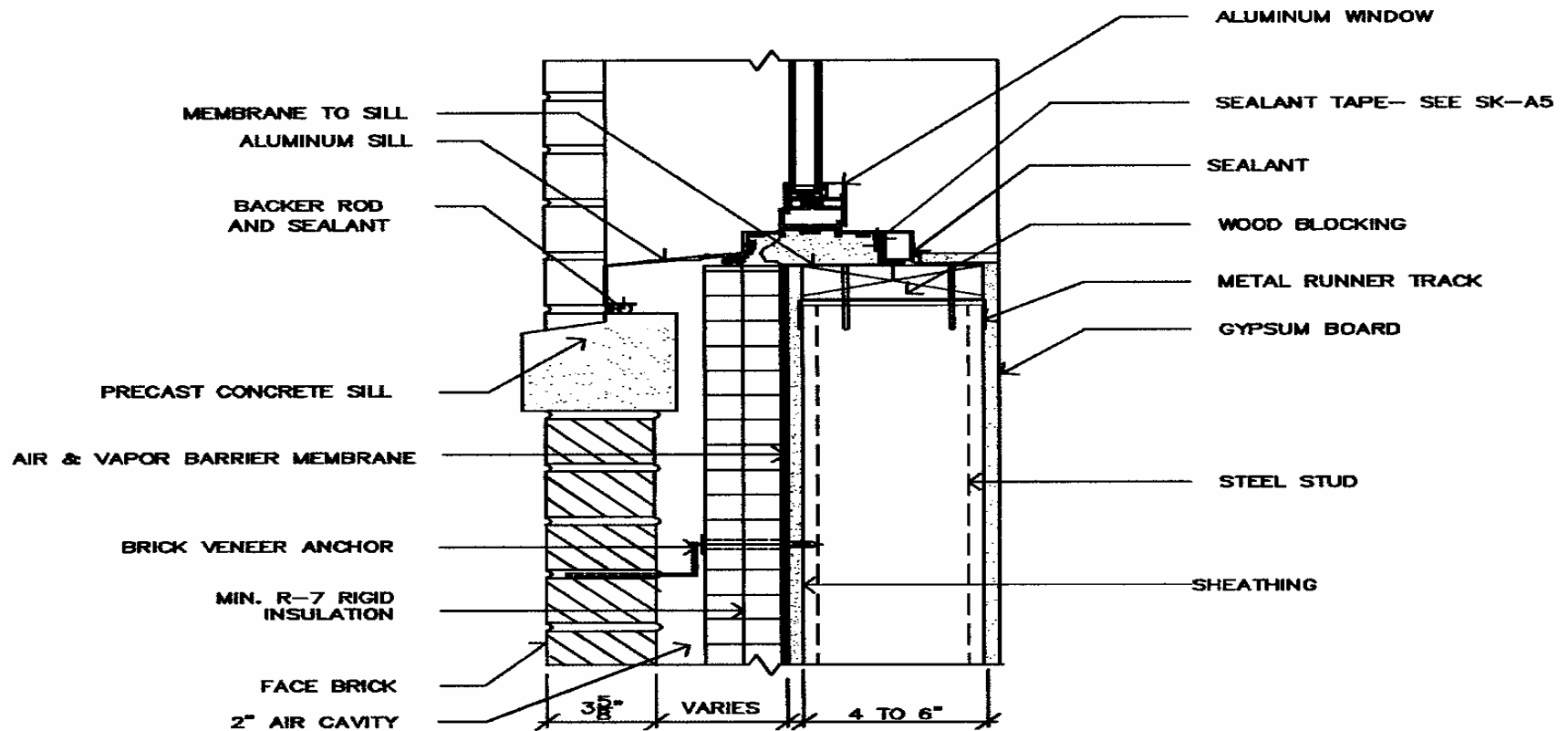


WINDOWS THERMAL BREAK PROBLEM



SPRAY FOAM TO CLOSE CAVITY





DETAIL AT WINDOW SILL

REFERENCE DETAIL: REGISTERED PROFESSIONAL TO REVIEW PRIOR TO USE

DETAIL

TITLE:

WALL: BRICK VENEER DESIGN A

SKETCH NUMBER

SK-A7

8 OF 11

ENERGY CODE: CONCEPTUAL DETAILS
FOR EDUCATIONAL PURPOSES ONLY

Date: 10/10/2001
Scale: 1-1/2"=1'-0"
Drawn: ---

WINDOWS NEED TO BE SEALED TO THE AIR BARRIER







VER-374

CAVITY WALL SYSTEMS



CAVITY WALL SYSTEMS



CAVITY



CAVITY WALL SYSTEMS



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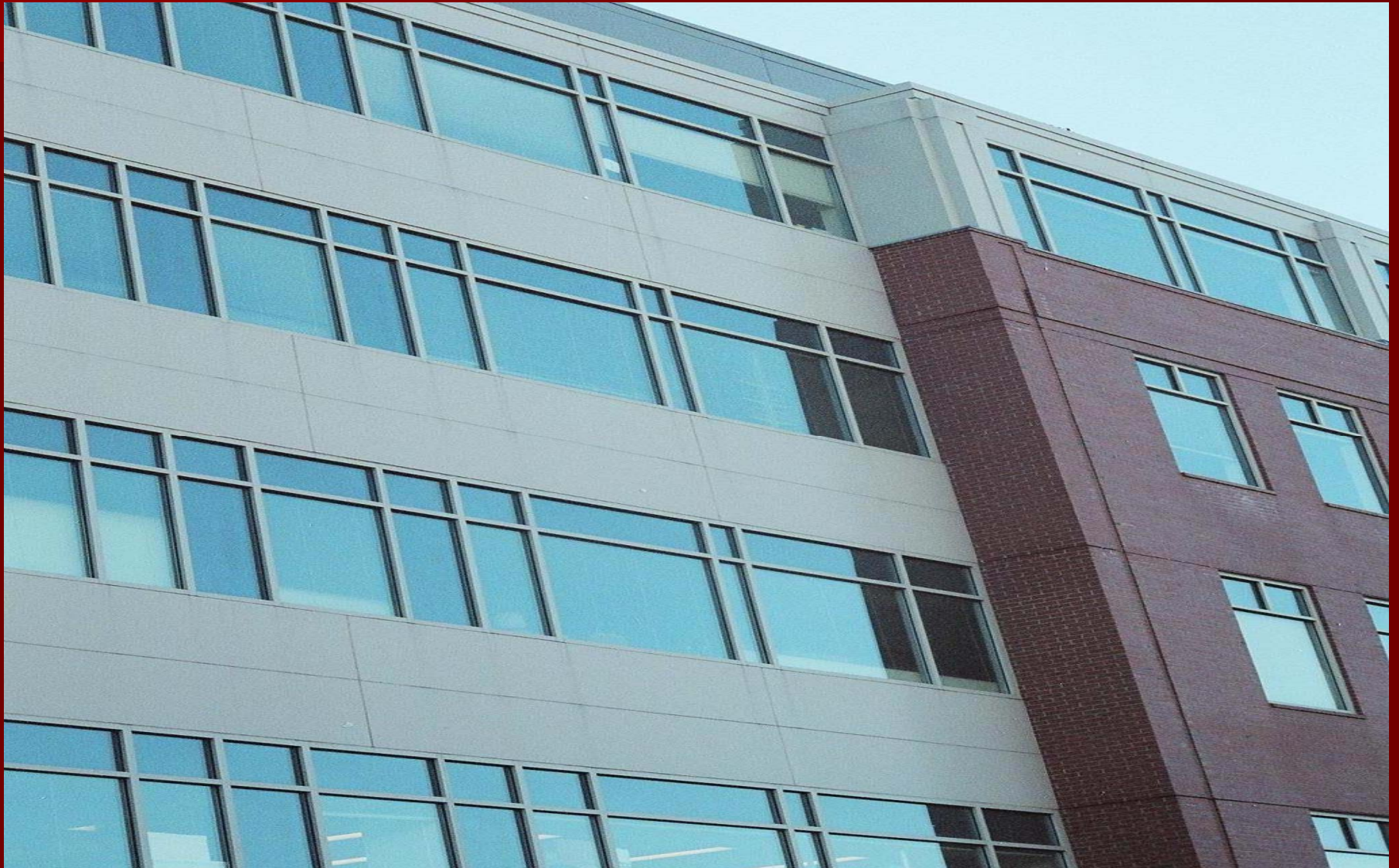
CAVITY WALL SYSTEMS

CAVITY WALL SYSTEMS



CAVITY WALL SYSTEMS

PROBLEMS WITH WET SEAL METAL COMPOSIT







WET SEAL METAL COMPOSIT

- COMPOSIT MANUFACTURES DO NOT DESIGN WET SEALS TO BE VENTED AND THERE IS NO TESTING
- VENTED WET SEALS IS LIKLEY TO TAKE IN WATER NOT DRAIN WATER
- DIFFICULT IF NOT IMPOSSIABLE TO DESIGN VENTING SYSTEM TO BE 10 TIMES MORE PERMEABILITY (1304.1.13)

WET SEAL METAL COMPOSIT

- Average wind speed throughout the year in Massachusetts is about 10 - 12 MPH, and design wind pressure may be 80 psf or higher. Rain driven wind will hit one or two sides of a building (windward,) putting those sides under positive pressure and forcing air and water in, while the other (leeward) sides of the building and the roof will be placed under negative pressure with air being sucked out. With these conditions the weeps will suck in more water then will drain, and the result will be trapped moisture and rusting of the fasteners holding the panels in place.

DRY SEAL METAL COMPOSIT

- STANDARD METHOD IN CANADA WHERE AIR BARRIERS ARE CODE
- MOST PANEL MANUFACTURES OFFER A DRY JOINT SYSTEM THAT IS COMPETITIVE IN COST TO THE WET SEAL



DOUBLE VAPOR BARRIER NO EXTERIOR INSULATION



DOUBLE VAPOR BARRIER INSULATION ON THE EXTERIOR DOES NOT WORK



CARLISLE

SYSTEM



L10

covered

THE BUILDING OF A NEW HOME FOR MOLD AND CORROSION

