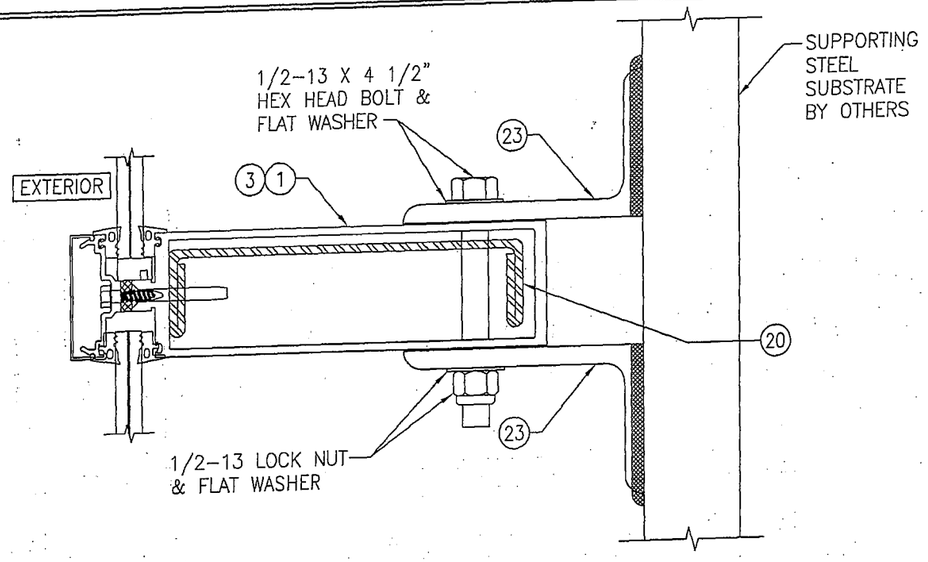
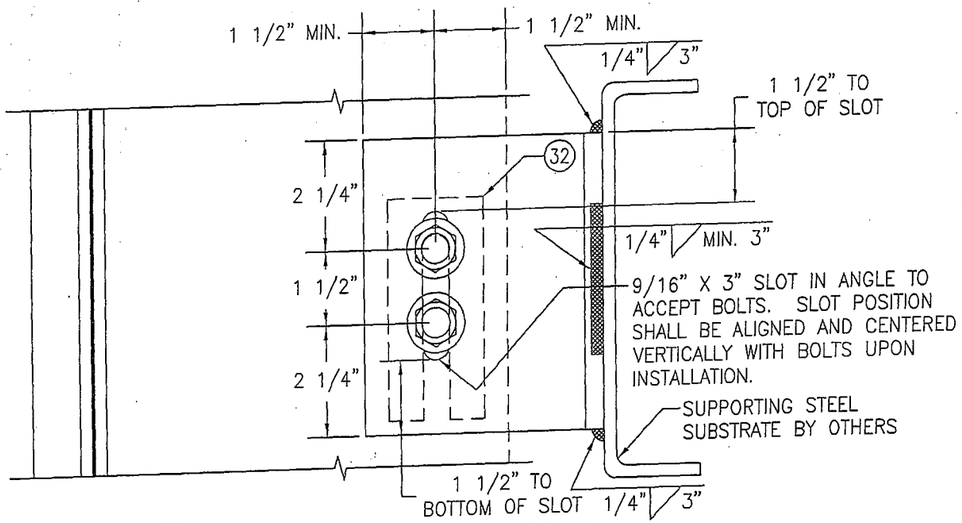
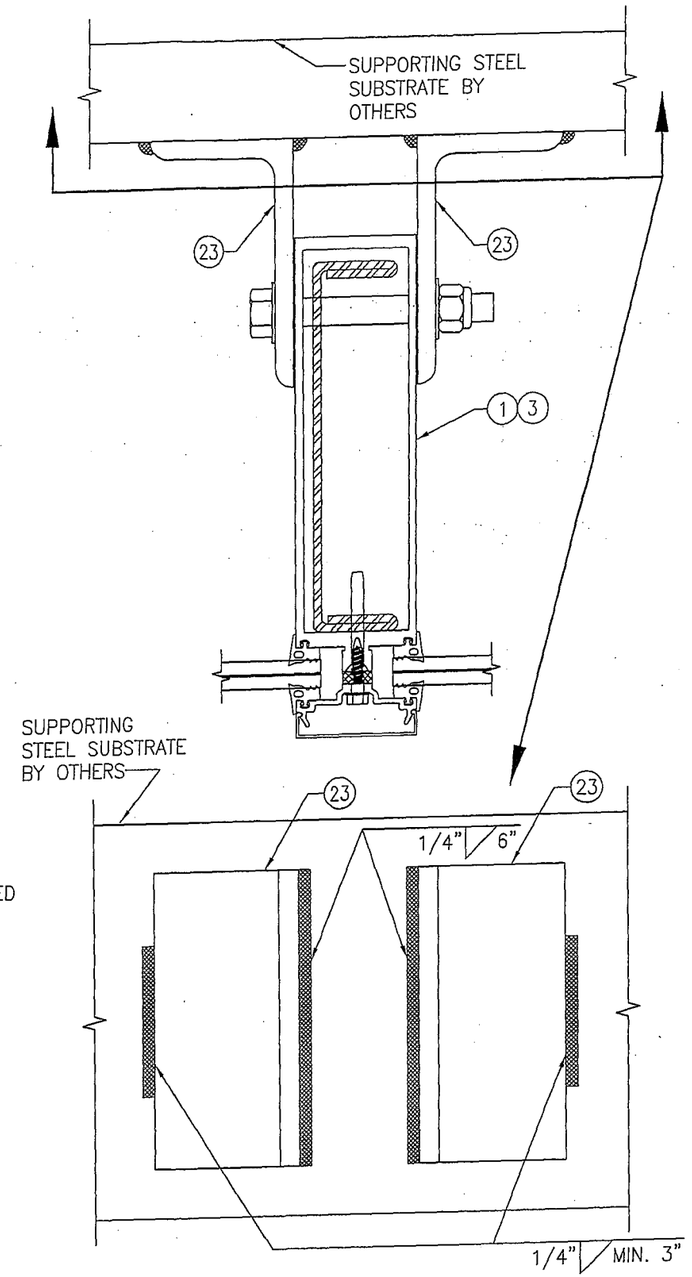




STANDARD WIND LOAD ANCHOR

SCALE: 1/3 FULL

NOTE: ALL 1/2" BOLTS CONNECTING ANGLES TO MULLIONS SHALL BE GRADE 5 STEEL OR 300 SERIES STAINLESS STEEL.



ALTERNATE WELD DETAIL FOR WIND LOAD ANCHORS

SCALE: 1/3 FULL

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=3	DATE: 03/19/13

NO.	REVISION DESCRIPTION	BY	DATE

JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770–449–5555

DRAWING TITLE
10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)

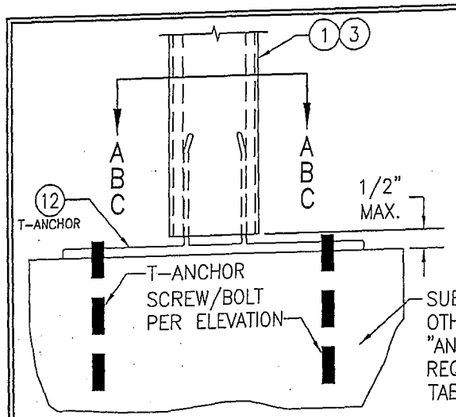
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F–14980)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561–744–3424

CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

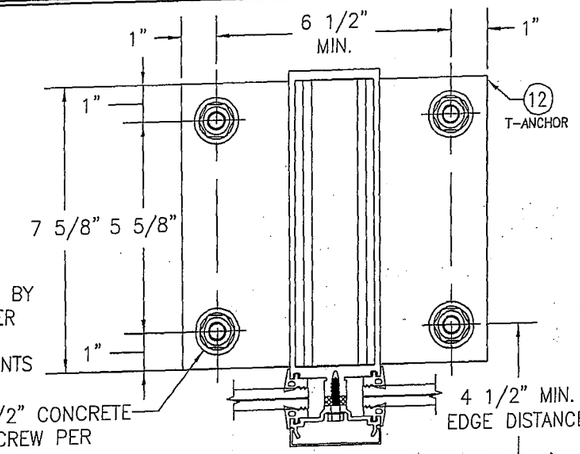
STATE OF TEXAS
WARREN W. SCHAEFER
113497
LICENSED PROFESSIONAL ENGINEER

DRAWING NO.	REV.
1795T	

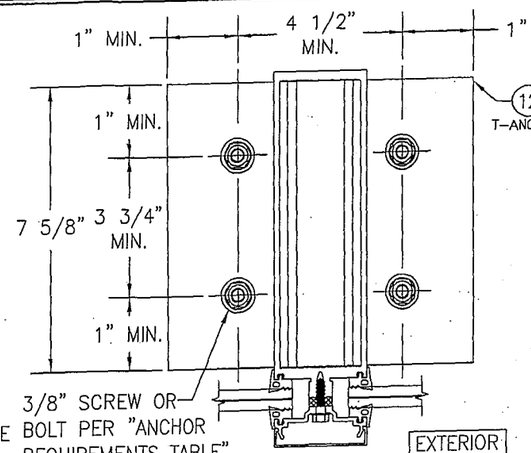
SHEET NO.
4 OF 12



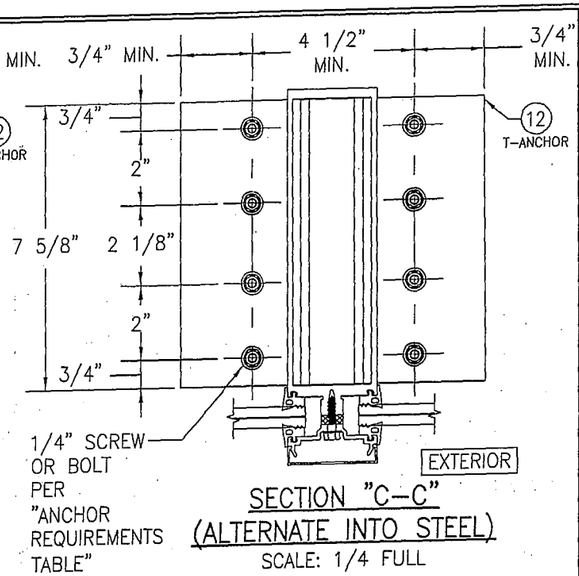
STANDARD T-ANCHOR
SCALE: 1/4 FULL



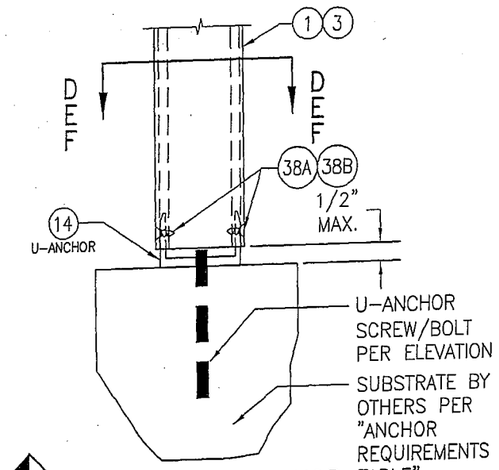
SECTION "A–A" (INTO CONCRETE)
SCALE: 1/4 FULL



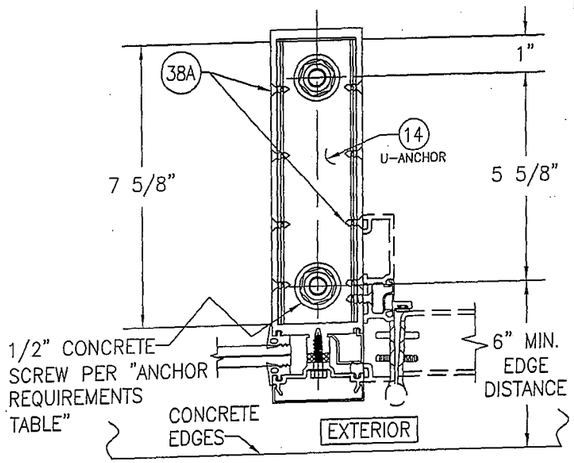
SECTION "B–B" (INTO STEEL)
SCALE: 1/4 FULL



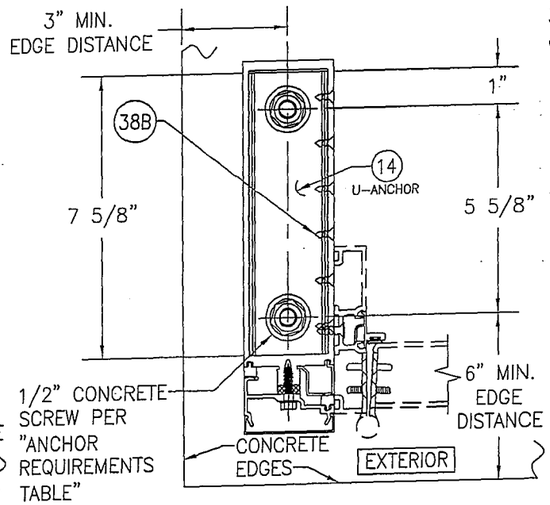
SECTION "C–C"
(ALTERNATE INTO STEEL)
SCALE: 1/4 FULL



DOOR JAMB U-ANCHOR
SCALE: 1/4 FULL

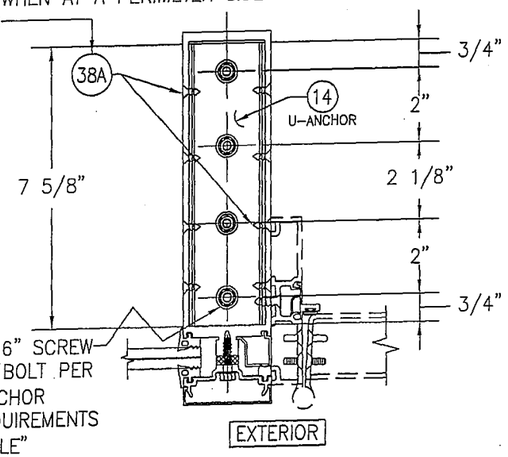


SECTION "D–D"
(INTO CONCRETE AT
INTERMEDIATE MEMBER)
SCALE: 1/4 FULL



SECTION "E–E"
(INTO CONCRETE AT
PERIMETER SIDE JAMB MEMBER)
SCALE: 1/4 FULL

SEE SECTION "E–E" FOR USE OF 38B WHEN AT A PERIMETER SIDE JAMB



SECTION "F–F"
(INTO STEEL)
SCALE: 1/4 FULL

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 03/19/13

NO.	REVISION DESCRIPTION	BY	DATE

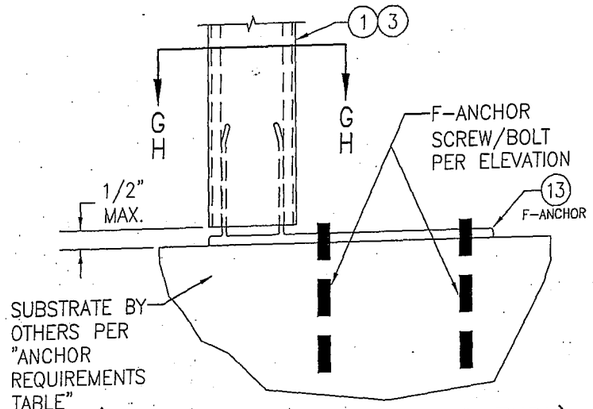
DRAWING TITLE
10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)

JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

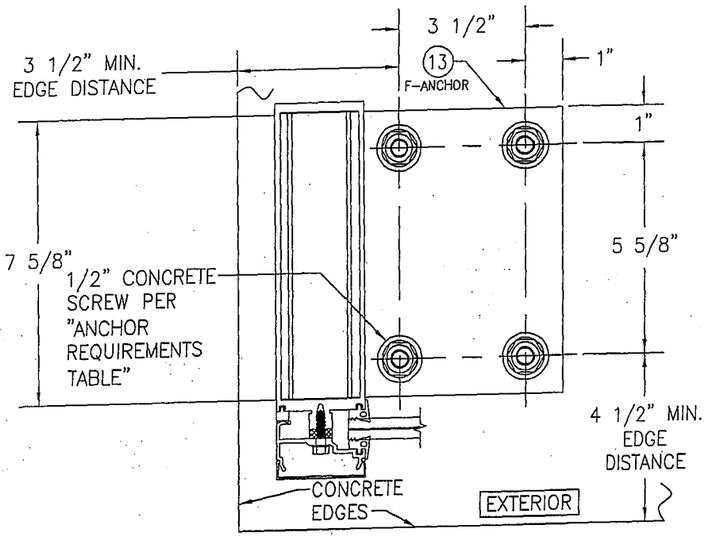
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

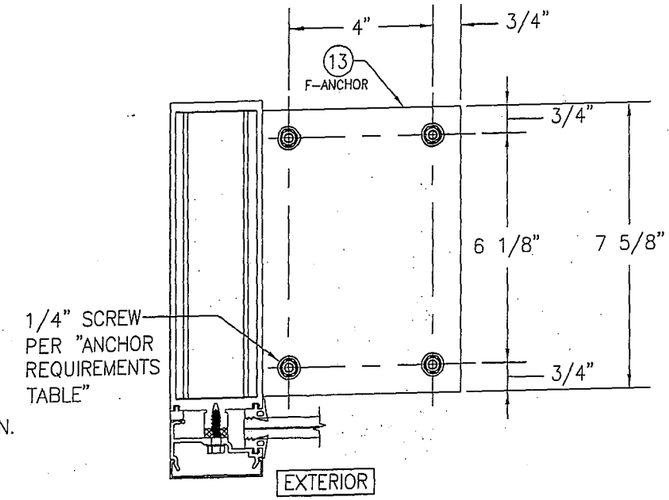
DRAWING NO. 1795T
REV.
SHEET NO. 5 OF 12



F-ANCHOR (FRAME MEMBER ENDS)
SCALE: 1/4 FULL



SECTION "G-G"
(INTO CONCRETE)
SCALE: 1/4 FULL



SECTION "H-H"
(INTO STEEL)
SCALE: 1/4 FULL

STATE OF TEXAS
WARREN W. SCHAEFER
113497
LICENSED PROFESSIONAL ENGINEER

NO.	REVISION DESCRIPTION	BY	DATE		

DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
PLOT: 1=4 | DATE: 03/19/13

DRAWING TITLE
10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)

JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
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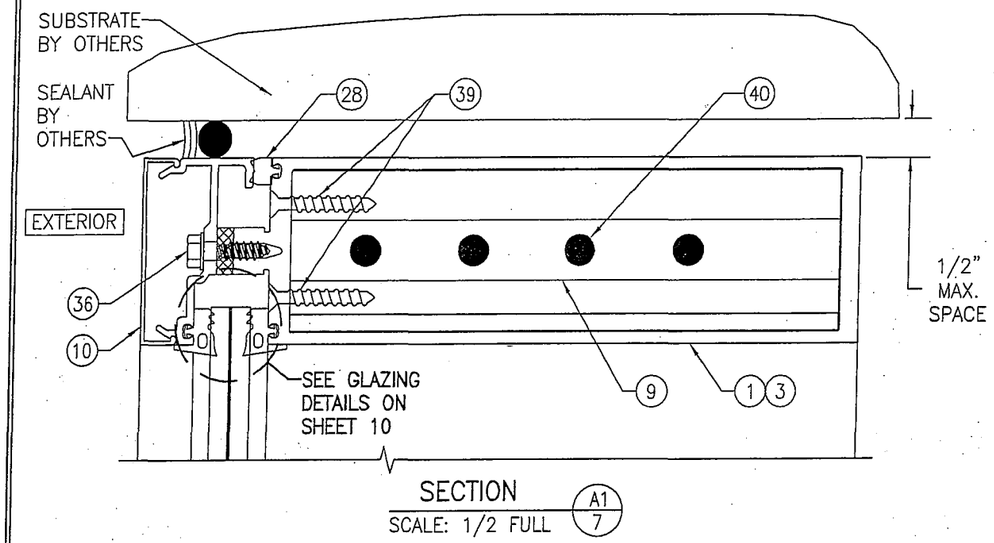
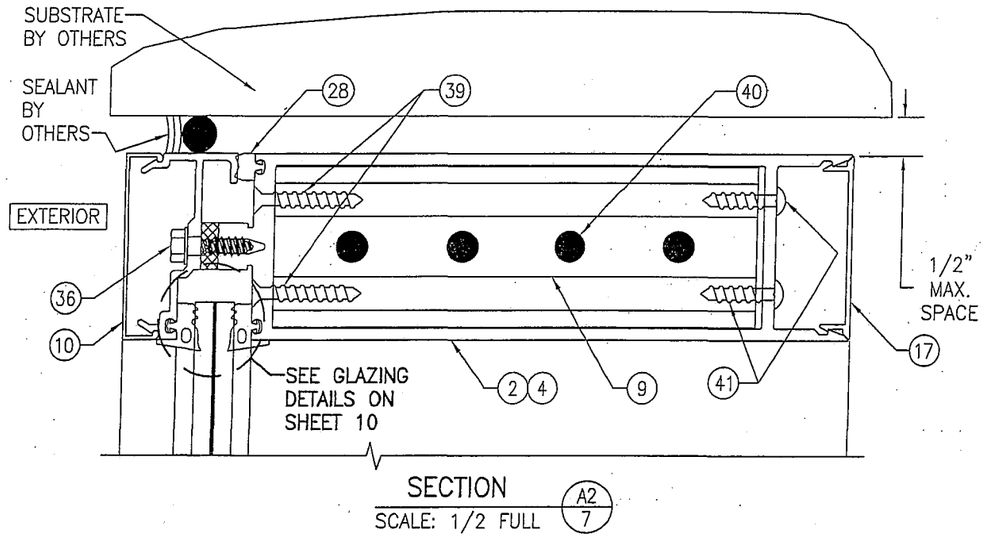
CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER P.E.
P.E. NO. 113497

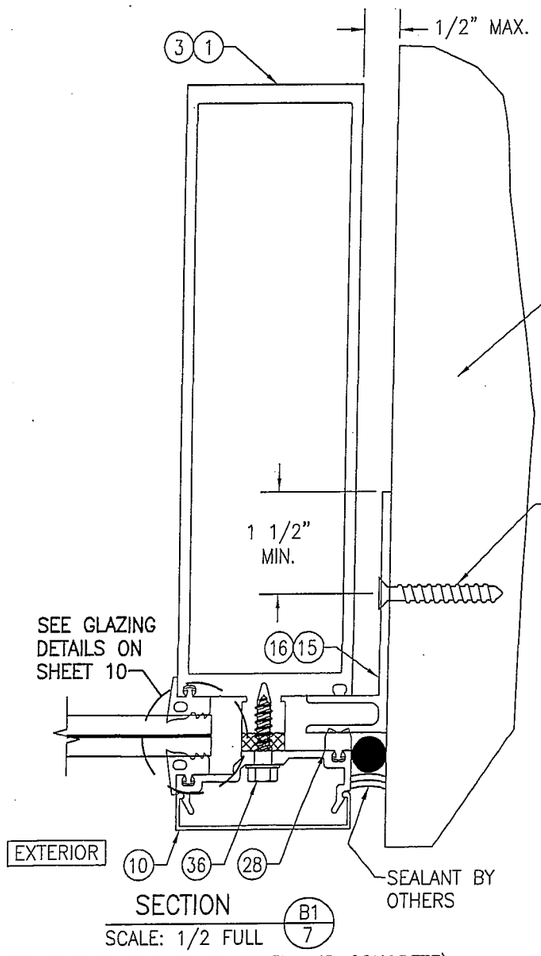
DRAWING NO. 1795T | REV.
SHEET NO. 6 OF 12



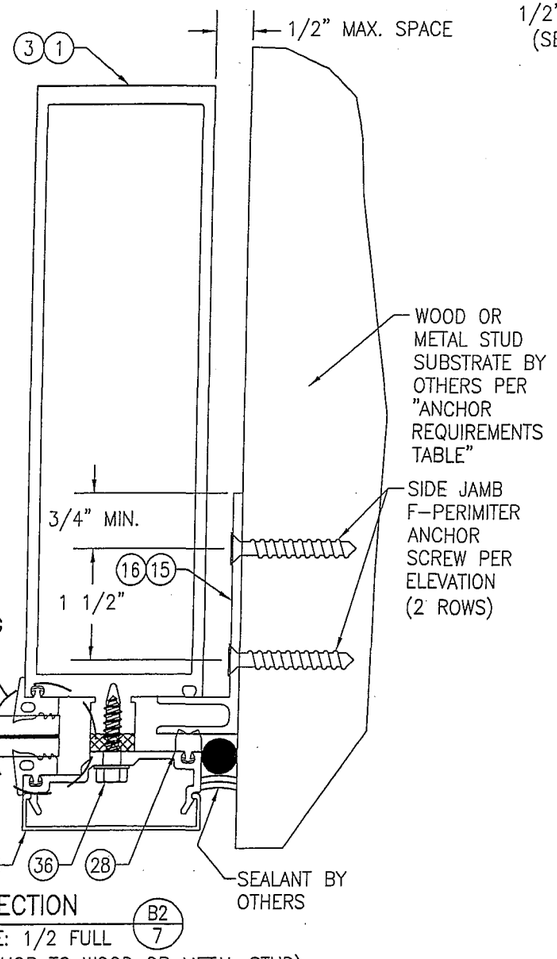
SECTION A1/7
SCALE: 1/2 FULL



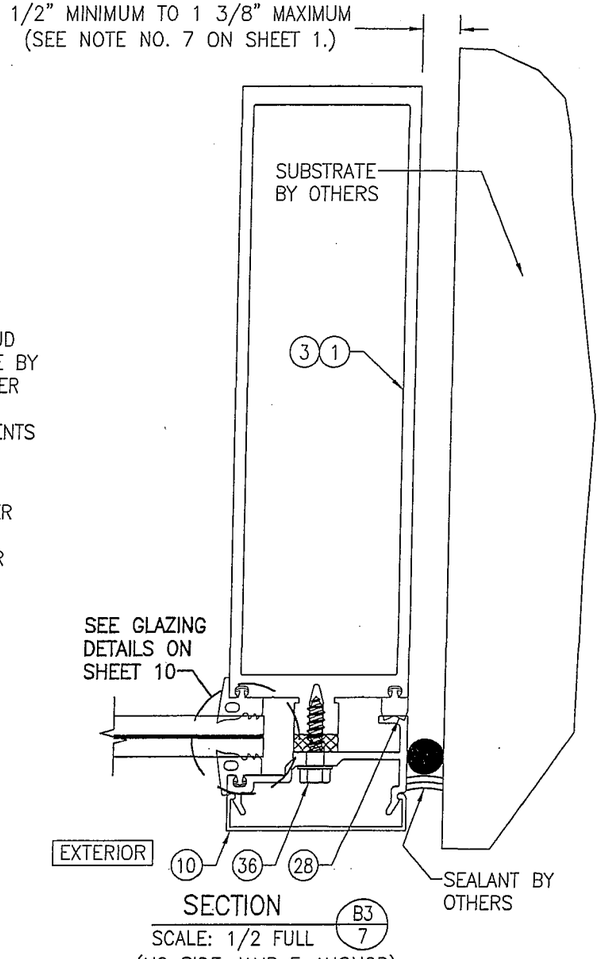
SECTION A2/7
SCALE: 1/2 FULL



SECTION B1/7
SCALE: 1/2 FULL
(SIDE JAMB F-ANCHOR TO STEEL AND CONCRETE)



SECTION B2/7
SCALE: 1/2 FULL
(SIDE JAMB F-ANCHOR TO WOOD OR METAL STUD)



SECTION B3/7
SCALE: 1/2 FULL
(NO SIDE JAMB F-ANCHOR)

STATE OF TEXAS
WARREN W. SCHAEFER
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DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 03/19/13

NO.	REVISION DESCRIPTION	BY	DATE

JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

DRAWING TITLE
10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
7480 150TH COURT NORTH
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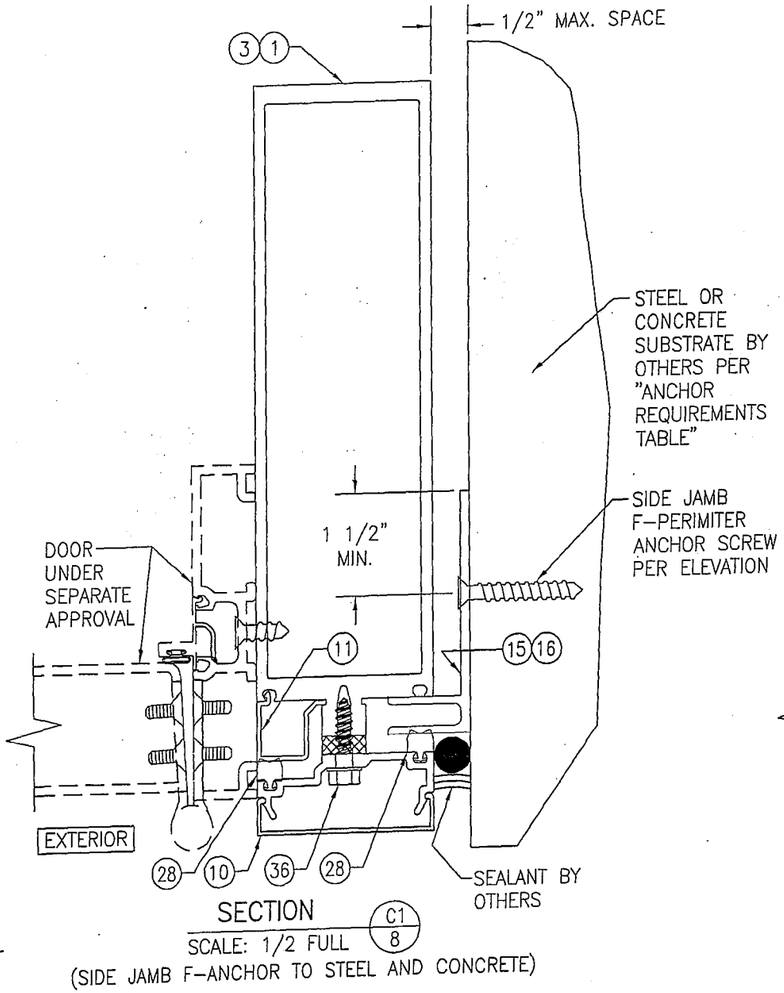
PHONE: 561-744-3424

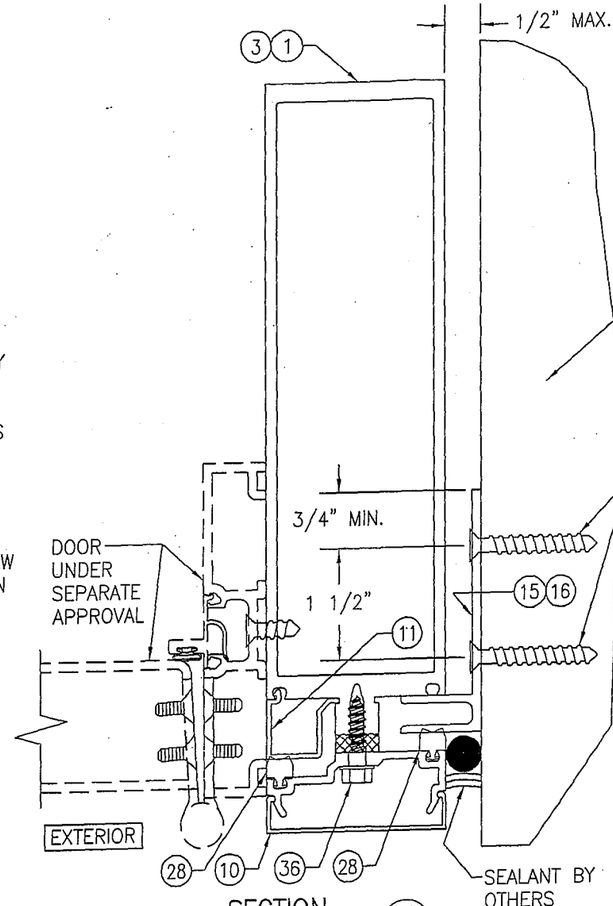
CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

DRAWING NO. 1795T | REV.

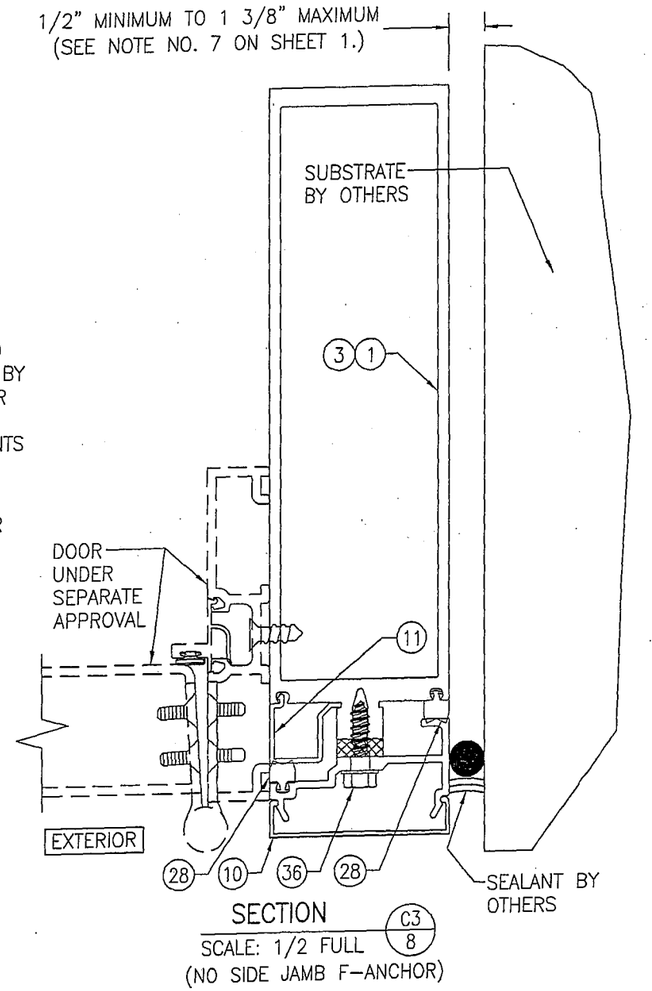
SHEET NO. 7 OF 12



SECTION C1/8
SCALE: 1/2 FULL
(SIDE JAMB F-ANCHOR TO STEEL AND CONCRETE)



SECTION C2/8
SCALE: 1/2 FULL
(SIDE JAMB F-ANCHOR TO WOOD OR METAL STUD)



SECTION C3/8
SCALE: 1/2 FULL
(NO SIDE JAMB F-ANCHOR)

STATE OF TEXAS
WARREN W. SCHAEFER
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DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 03/19/13

DRAWING TITLE: 10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)

JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
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770-449-5555

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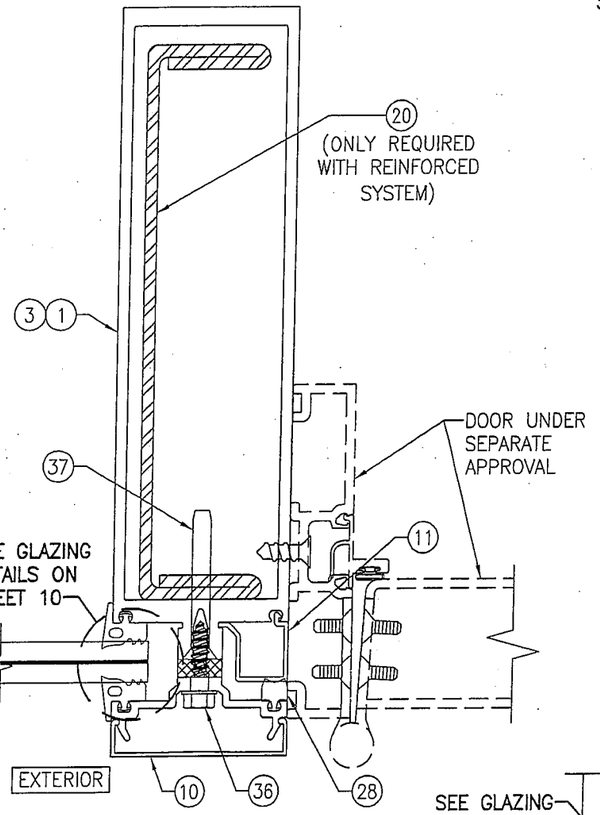
CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

DRAWING NO. 1795T | REV.
SHEET NO. 8 OF 12



SECTION (D/9)
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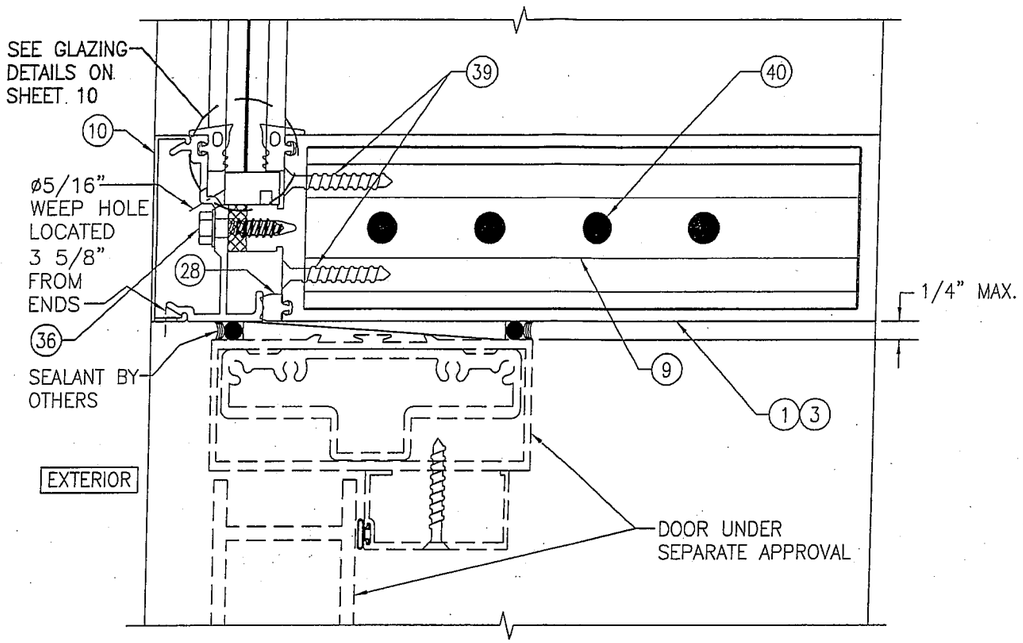

SECTION (E1/9)
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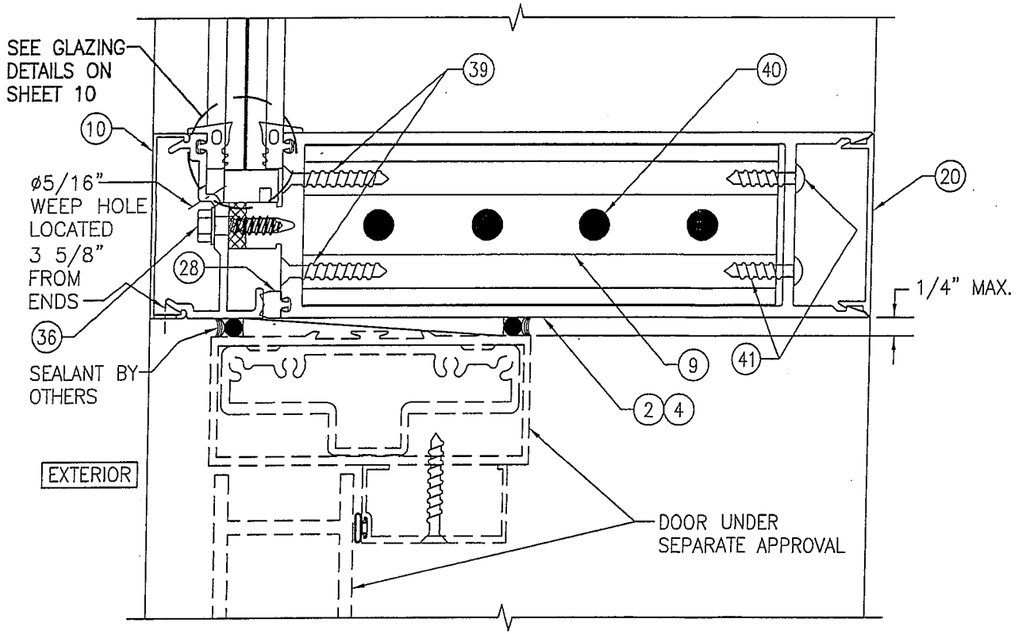

SECTION (E2/9)
SCALE: 1/2 FULL

STATE OF TEXAS
WARREN W. SCHAEFER
113497
LICENSED PROFESSIONAL ENGINEER

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PLOT: 1=2	DATE: 03/19/13

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10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)

JOB INFORMATION:
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555 GUTHRIDGE COURT
NORCROSS, GA 30092
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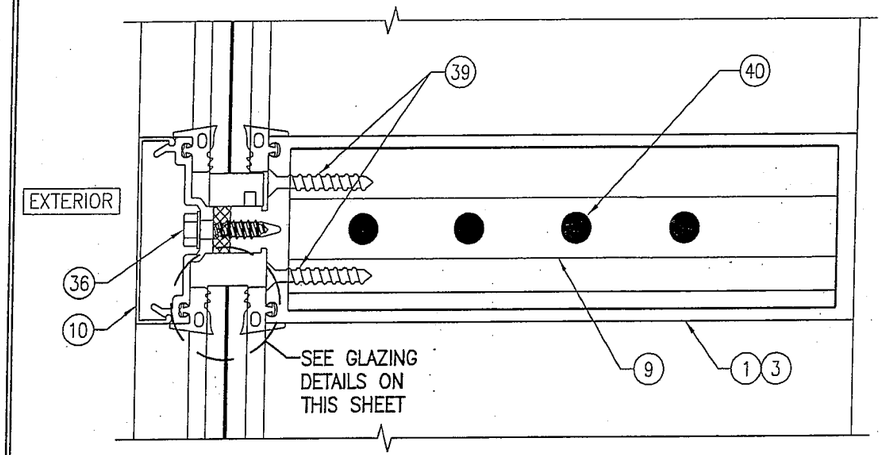
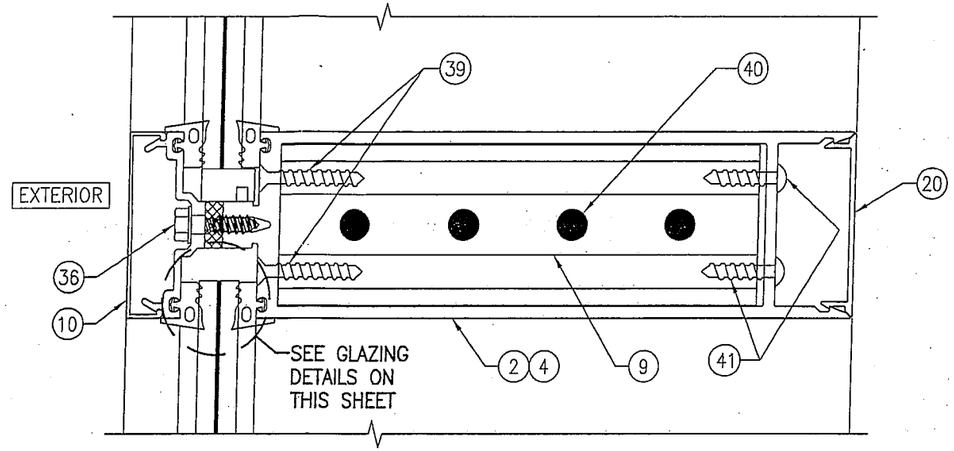
CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

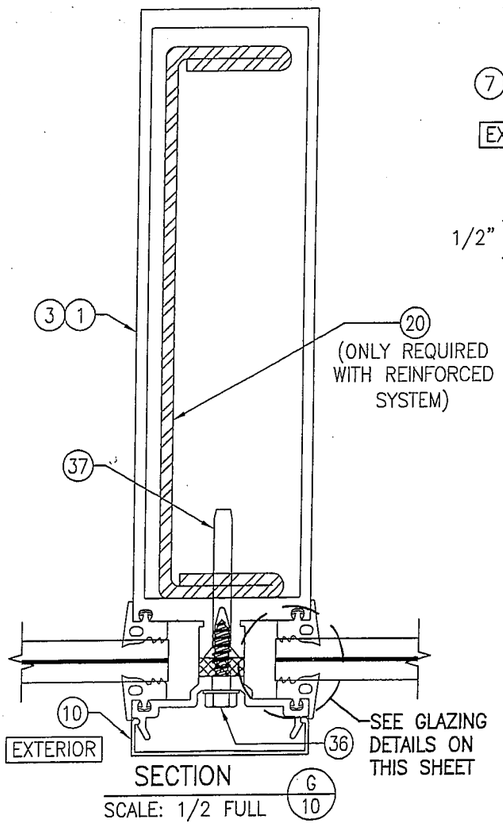
DRAWING NO. 1795T | REV.
SHEET NO. 9 OF 12



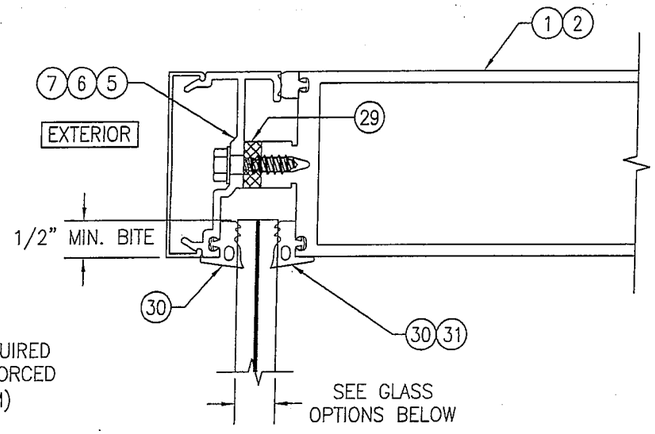
SECTION F1 / 10
SCALE: 1/2 FULL



SECTION F2 / 10
SCALE: 1/2 FULL

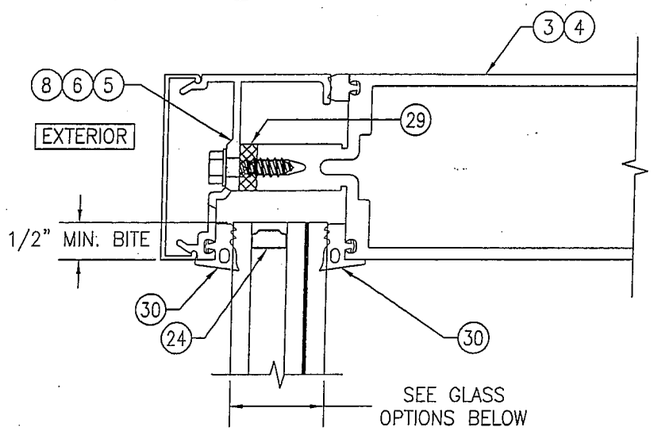


SECTION G / 10
SCALE: 1/2 FULL



TYPICAL MONOLITHIC GLAZING DETAIL

GLASS OPTIONS:
OPTION 1: 1/2" THICK LAMINATED GLASS (1/4" HT. ST./0.060" DUPONT BUTACITE PVB/1/4" HT. ST.)
OPTION 2 1/2" THICK LAMINATED GLASS (1/4" HT. ST./0.060" SOLUTIA SAFLEX/1/4" HT. ST.)
OPTION 3: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" DUPONT BUTACITE PVB/1/4" HT. ST.)
OPTION 4: 9/16" THICK LAMINATED GLASS (1/4" HT. ST./0.090" SOLUTIA SAFLEX/1/4" HT. ST.)



TYPICAL I.G. GLAZING DETAIL

GLASS OPTIONS:
OPTION 5: 1 5/16" THICK I.G LAMINATED GLASS (1/4" TEMPERED EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.060" SOLUTIA SAFLEX/1/4" HT. ST. INTERIOR)
OPTION 6: 1 5/16" THICK I.G LAMINATED GLASS (1/4" TEMPERED EXTERIOR; 1/2" AIR SPACE; 1/4" HT. ST./0.060" DUPONT BUTACITE PVB/1/4" HT. ST. INTERIOR)

STATE OF TEXAS · WARREN W. SCHAEFER · 113497 · LICENSED PROFESSIONAL ENGINEER

DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 03/19/13

NO.	REVISION DESCRIPTION	BY	DATE

JOB INFORMATION:
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DRAWING TITLE
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CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
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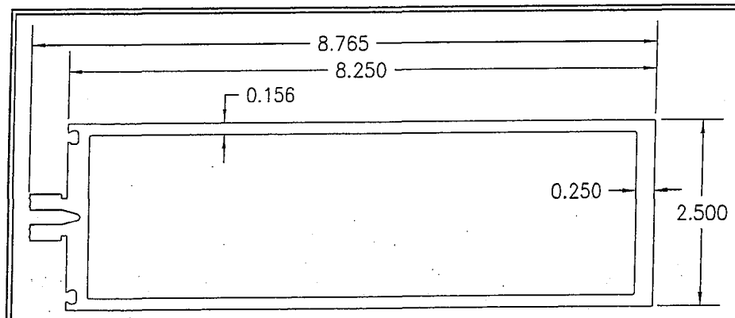
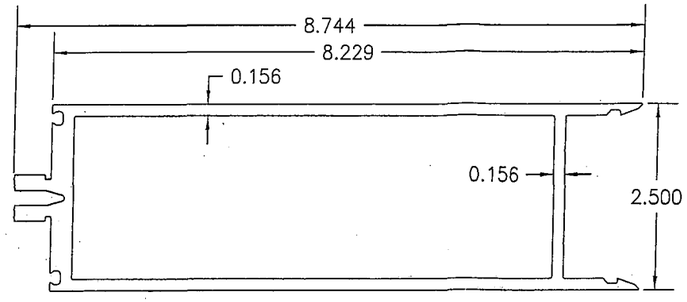
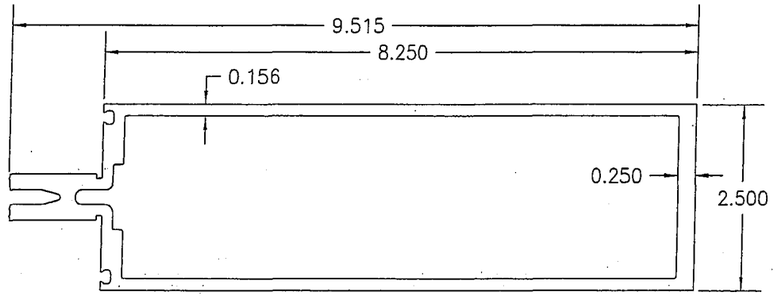
DRAWING NO. 1795T | REV.
SHEET NO. 10 OF 12



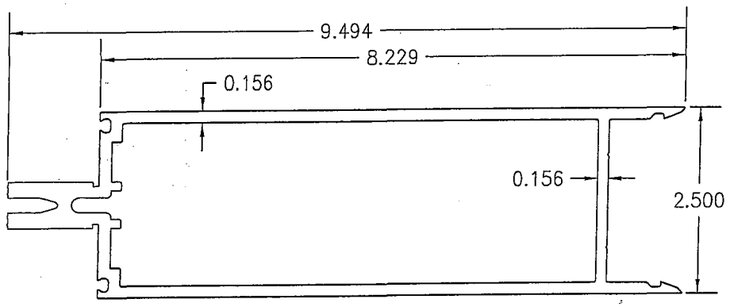
1 VERTICAL AND HORIZONTAL FRAMING USED WITH MONOLITHIC GLASS



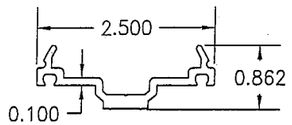
2 ALTERNATE HORIZONTAL FRAMING USED WITH MONOLITHIC GLASS



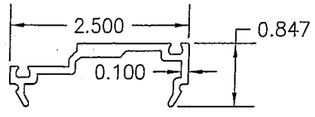
3 VERTICAL AND HORIZONTAL FRAMING USED WITH I.G. GLASS



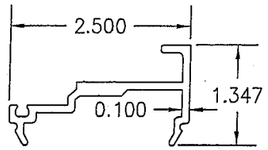
4 ALTERNATE HORIZONTAL FRAMING USED WITH I.G. GLASS



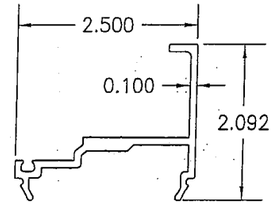
5 PRESSURE PLATE



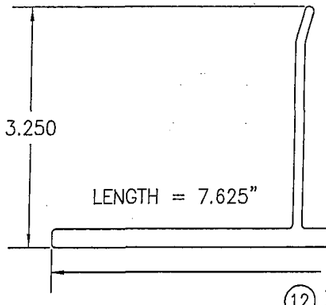
6 PRESSURE PLATE



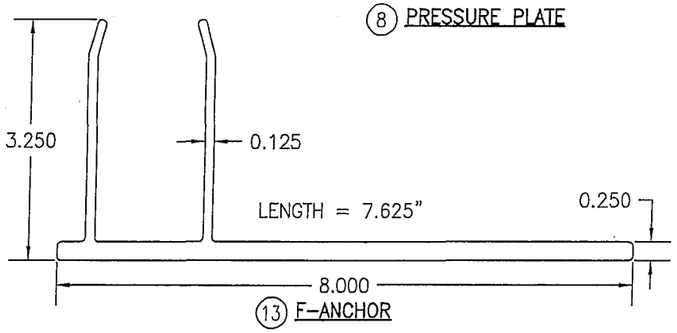
7 PRESSURE PLATE



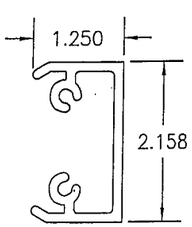
8 PRESSURE PLATE



12 T-ANCHOR

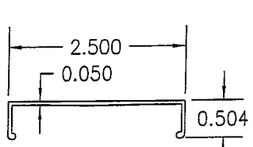


13 F-ANCHOR

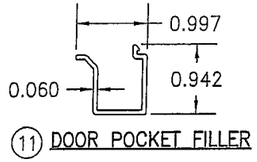


LENGTH = 6.625" WITH PARTS 2 & 4
LENGTH = 7.625" WITH PARTS 1 & 3

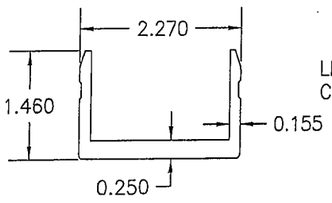
9 SHEAR BLOCK



10 PRESSURE PLATE COVER

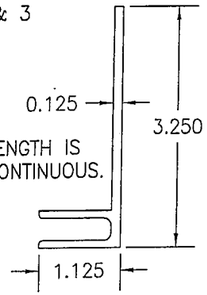


11 DOOR POCKET FILLER

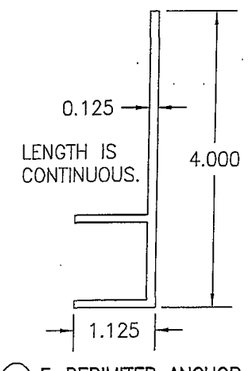


LENGTH = 7.750"

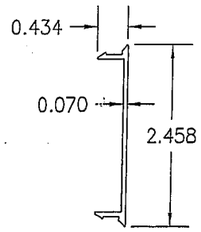
14 U-ANCHOR



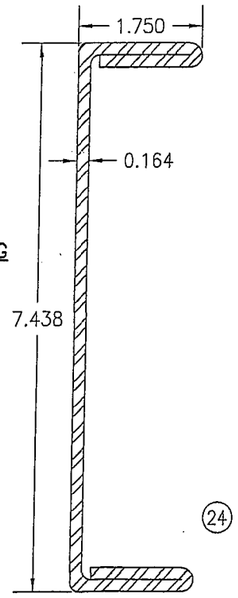
15 F-PERIMITER ANCHOR USED WITH MONOLITHIC GLASS SYSTEMS



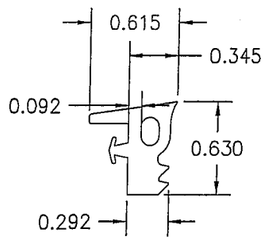
16 F-PERIMITER ANCHOR USED WITH WITH I.G. GLASS SYSTEMS



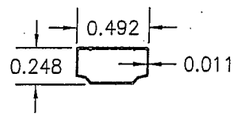
17 HORIZONTAL FRAMING FILLER



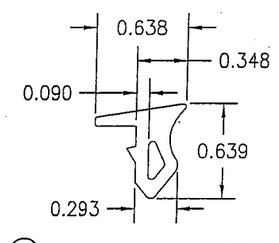
20 MULLION REINFORCEMENT



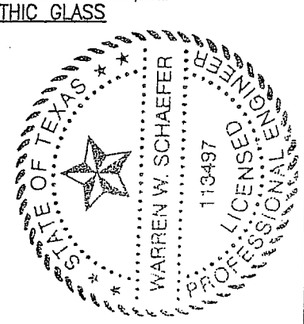
30 INTERIOR & EXTERIOR GLAZING FIXED GASKET USED WITH I.G. & 9/16" MONOLITHIC GLASS



24 1/2" I.G. GLASS SPACER



31 INTERIOR GLAZING FIXED GASKET USED WITH 1/2" MONOLITHIC GLASS



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 03/19/13

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)

JOB INFORMATION:

KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980)
7460 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

DRAWING NO. 1795T | REV.

SHEET NO. 11 OF 12

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
	PARTS	
1	VERTICAL AND HORIZONTAL FRAMING USED WITH MONOLITHIC GLASS	6063–T6 ALUMINUM
2	ALTERNATE HORIZONTAL FRAMING USED WITH MONOLITHIC GLASS	6063–T6 ALUMINUM
3	VERTICAL AND HORIZONTAL FRAMING USED WITH I.G. GLASS	6063–T6 ALUMINUM
4	ALTERNATE HORIZONTAL FRAMING USED WITH I.G. GLASS	6063–T6 ALUMINUM
5	PRESSURE PLATE	6063–T6 ALUMINUM
6	PRESSURE PLATE	6063–T6 ALUMINUM
7	PRESSURE PLATE	6063–T6 ALUMINUM
8	PRESSURE PLATE	6063–T6 ALUMINUM
9	SHEAR BLOCK	6063–T6 ALUMINUM
10	STANDARD PRESSURE PLATE COVER	6063–T6 ALUMINUM
11	DOOR POCKET FILLER	6063–T6 ALUMINUM
12	T–ANCHOR	6063–T6 ALUMINUM
13	F–ANCHOR	6063–T6 ALUMINUM
14	U–ANCHOR	6063–T6 ALUMINUM
15	F–PERIMITER ANCHOR USED WITH MONOLITHIC GLASS SYSTEMS	6063–T6 ALUMINUM
16	F–PERIMITER ANCHOR USED WITH I.G. GLASS SYSTEMS	6063–T6 ALUMINUM
17	HORIZONTAL FRAMING FILLER	6063–T6 ALUMINUM
20	MULLION REINFORCEMENT	ASTM A–653/A–04A GRADE 50
23	5" X 3" X 3/8" X 6" LONG ANGLE	50 KSI STEEL
24	1/2" I.G. GLASS SPACER	3005 OR 3105 ALUMINUM
	SEALS & SEALANTS	
28	FIXED GASKET	TREMCO TR4726P EPDM DUROMETER 70 +/–5
29	THERMAL SEPERATOR	TREMCO TR–4015P EPDM DUROMETER 60 +/–5
30	INTERIOR & EXTERIOR GLAZING FIXED GASKET USED WITH I.G. & 9/16" MONOLITHIC GLASS	TREMCO TR–4014P EPDM DUROMETER 60 +/–5
31	INTERIOR GLAZING FIXED GASKET USED WITH 1/2" MONOLITHIC GLASS	TREMCO TX–4305P EPDM DUROMETER 70 +/–5
32	STEEL TO ALUMINUM SEPERATOR	THERMO–TOK TN–9004
	FASTENERS	
36	1/4" X 1" HWHTF TYPE "AB" SCREW 300 SERIES S.S.	WITHIN 3" FROM ENDS & 9" MAX. O.C. (300 SERIES S.S.)
37	1/4–20 X 2" FNTCS 300 SERIES S.S.	WITHIN 9" FROM ENDS & 9" MAX. O.C. (GR. 5 STEEL)
38A	NO. 8 X 1/2" FHTFS 300 SERIES S.S.	8 PER U–ANCHOR AT INTERMEDIATE MEMBERS (4 PER SIDE OF MEMBER)
38B	NO. 8 X 1/2" FHTFS 300 SERIES S.S.	6 PER U–ANCHOR AT SIDE JAMB MEMBERS (AT 1 SIDE OF MEMBER)
39	NO. 12 X 1 1/2" FHTF TYPE "B" SCREW 300 SERIES S.S.	2 PER SHEAR BLOCK (300 SERIES S.S.)
40	NO. 12 X 7/16" PHTF TYPE "AB" SCREW 300 SERIES S.S.	4 PER SHEAR BLOCK (430 SERIES S.S.)
41	NO. 12 X 1" PHTF TYPE "AB" SCREW 300 SERIES S.S.	2 PER SHEAR BLOCK (300 SERIES S.S.)

DRAWN BY: W.W.S. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 03/19/13

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
10 13/16" DEEP 1600 SYSTEM 1 CURTAIN WALL (S.M.I.)

JOB INFORMATION:
KAWNEER COMPANY, INC.
555 GUTHRIDGE COURT
NORCROSS, GA 30092
770–449–5555

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F–14980)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561–744–3424

CERTIFICATION
MAR 20 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 113497

DRAWING NO. 1795T | REV.
SHEET NO. 12 OF 12

GENERAL IMPACT INSTALLATION INSTRUCTIONS; FOR JOB SPECIFIC APPLICATION, PLEASE CONTACT FACTORY TO VERIFY THAT SYSTEM MEETS APPLICABLE CODES.

HANDLING, STORING, AND PROTECTION OF ALUMINUM

The material must be protected against damage. The following precautions are recommended to assure early acceptance of your products and workmanship.

A. HANDLE CAREFULLY - Don't drop from the truck. Stack with adequate separation so material will not rub together. Store off the ground. Protect against elements and other construction trades. Wear hand protection to prevent injury due to sharp edges of cut extrusions.

B. KEEP MATERIAL AWAY FROM WATER, MUD AND SPRAY - Prevent cement, plaster, or other materials from damaging the finish.

C. PROTECT THE MATERIALS AFTER ERECTION - Protect by wrapping with Kraft paper or by erecting Visqueen or canvas splatter screen. Cement, plaster, terrazzo, other alkaline solutions and acid based materials used to clean masonry are very harmful to the finish and should be removed with water and mild soap IMMEDIATELY.

GENERAL INSTALLATION NOTES
The following practices are recommended for all installations:

A. CHECK SHOP DRAWINGS, INSTALLATION INSTRUCTIONS and GLAZING INSTRUCTIONS to become thoroughly familiar with the project. The SHOP DRAWINGS take precedence and include specific details for the project. The INSTALLATION INSTRUCTIONS are of a general nature and cover most common conditions.

B. All materials are to be INSTALLED PLUMB, LEVEL, AND TRUE.

C. All work should start from bench marks and/or column lines as established by the ARCHITECTURAL DRAWINGS and the GENERAL CONTRACTOR. Check mullion spacing from both ends of the masonry opening to prevent dimensional buildup of day light opening.

D. Make certain that construction which will receive your materials is in accordance with the contract documents. If not, notify the GENERAL CONTRACTOR IN WRITING and resolve differences before proceeding with your work.

E. Isolate all aluminum to be placed directly in contact with uncured masonry or incompatible materials with a heavy coat of zinc chromate or bituminous paint.

F. Check all materials on arrival for quantity and be sure you have everything required to begin installation.

G. Sealants must be compatible with all materials with which they have contact, including other sealant surfaces. Consult with sealant manufacturer for recommendations relative to joint size, shelf life, compatibility, priming, tooling, adhesion, etc.

H. FASTENING - "Fastening" means any method of securing one part to another or to adjacent materials. These instructions specify only those fasteners used within the system. Due to varying perimeter conditions and job performance requirements, anchor fasteners are not specified in these instructions. For anchor fastening, refer to the Shop Drawings or consult the fastener supplier.

I. CHECK OPENINGS - Make certain that the opening which will receive your materials is in accordance with the contract documents. If not, notify the GENERAL CONTRACTOR IN WRITING and resolve differences before proceeding with your work.

J. BUILDING CODES - Glass and glazing codes governing the design and use of products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility for these design considerations. It is the responsibility of the owner, specifier, architect, general contractor and the installer to make these selections in strict conformance with all applicable codes.

K. EXPANSION JOINTS - Expansion joints and perimeter seals shown in these instructions and in the shop drawings are shown at normal size. Actual dimensions may vary due to perimeter conditions and /or difference in metal temperature between the time of fabrication and time of installation. For example, a 12 foot unrestrained length of aluminum extrusion can expand or contract 3/32" over a 50° F temperature change. Any movement potential should be accounted for at the time of installation.

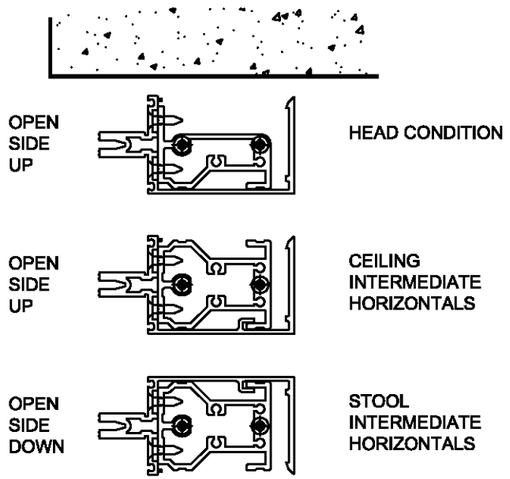
L. FIELD TESTING - It is recommended that a Water Hose Test be conducted once a sufficient portion of the framing is installed, glazed and caulked to ensure proper installation. The Water Hose Test shall be conducted in accordance with AAMA 501.2. In addition, larger projects should have periodic Water Hose Tests as additional precautionary measures.

OPEN BACK HORIZONTAL NOTES

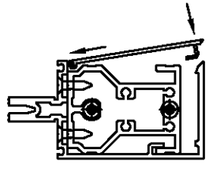
THE OPEN BACK HORIZONTAL IS TO BE TYPICALLY USED FOR ALL HEAD/SILL AND LAST BAY INTERMEDIATE HORIZONTALS.

THE OPEN BACK HORIZONTAL CAN BE USED AT OTHER CONDITIONS IF IT IS AN ADVANTAGE TO THE JOB DESIGN.

THE SHEAR BLOCK AT ALL OPEN BACK INTERMEDIATE HORIZONTALS HAS THE OPTION TO BE PRE-INSTALLED INTO THE HORIZONTAL BEFORE HORIZONTALS ARE INSTALLED.



WHEN THE OPEN SIDE OF THE OPEN BACK HORIZONTAL IS EXPOSED AND AT EYE LEVEL A SNAP-IN FILLER IS AVAILABLE.



WHEN THE SNAP-IN FILLER IS NOT USED AND DUE TO STANDARD COMMERCIAL EXTRUDING TOLERANCES, IT MAY BE REQUIRED TO USE A 4" PIECE OF THE FILLER AT EACH END OF A HORIZONTAL.

USE PART 162-316 FOR THE 5 9/16" & 6 5/16" DEEP SYSTEM
USE PART 162-317 FOR THE 7 1/16" & 7 13/16" DEEP SYSTEM

1600 SYSTEM[1] NOTES

1600 System[1] is available with 1" framing members which accept 1 5/16" infill. Also, 1/4" framing members which accept 9/16" infill are available.

THESE INSTRUCTIONS ARE BASED ON LARGE MISSLE IMPACT INSTALLATION. For small missle impact reference page 8.

Glass bite is 3/4" at verticals and horizontals on large missle and 1/2" on small missle. Glass sizes must be calculated from approved shop drawings.

Refer to corresponding test drawings for sealant and anchor information. Test may be job specific, so please contact a Kawneer representative for correct test reports and drawings.

Unless otherwise specified, it is recommended that silicone sealant be used for all internal seals.

Shim all sill horizontals at setting block locations.

Sealant must be applied per the sealant manufacturer's recommendations and pass all adhesion and compatibility testing. At all joint seals, sealant must adhere to metal, gaskets, thermal separator and joint plug materials.
Clean all surfaces prior to application of sealant and prime where necessary to achieve proper adhesion.

Hurricane impact curtain walls require labels to be applied after assembly, glazing and installation. These labels identify that the curtain walls have been assembled and glazed as tested for hurricane impact. Every floor level of each elevation of a curtain wall requires a label. As viewed from the interior, labels shall be placed on the right side bay on the right side underside surface of a low lying horizontal, or in the right upper inside vertical surface close to the corner if there are no intermediate horizontal members. Labels are to be applied by the glazing contractor.

GENERAL IMPACT INSTALLATION INSTRUCTIONS; FOR JOB SPECIFIC APPLICATION, PLEASE CONTACT FACTORY TO VERIFY THAT SYSTEM MEETS APPLICABLE CODES.

STEP - 1 CHECK OPENINGS

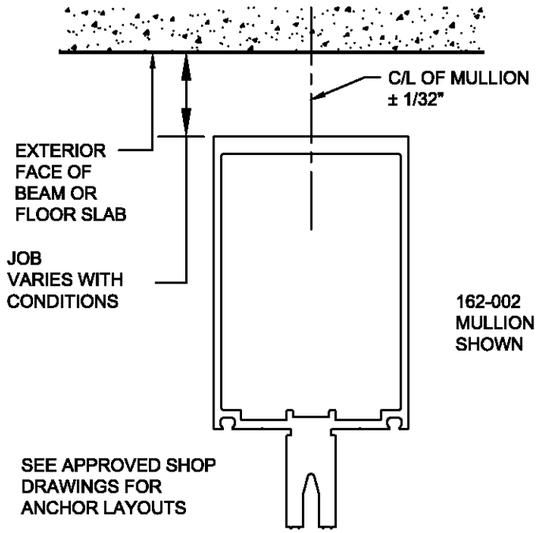
ELEVATIONS AND SLABS MUST BE WITHIN ADJUSTMENT OF ANCHORING SYSTEM. SEE APPROVED SHOP DRAWINGS FOR ALLOWABLE ADJUSTMENT.

ANCHORING SURFACES OF PERIMETER CONSTRUCTION MUST BE LEVEL AND PLUMB WITHIN THE ADJUSTMENT LIMITS OF THE HEAD, SILL AND JAMB. SEE APPROVED SHOP DRAWINGS FOR ALLOWABLE ADJUSTMENT.

STEP - 2 LAY OUT ANCHOR AND MULLION CENTERLINES

USE WALL LINES ESTABLISHED BY THE GENERAL CONTRACTOR. ON EACH FLOOR LAY OUT A REFERENCE LINE TO ESTABLISH IN AND OUT WALL LOCATIONS.

USE COLUMN CENTER LINES ESTABLISHED BY THE GENERAL CONTRACTOR. ON EACH FLOOR LAY OUT MULLION CENTER LINES AND ANCHOR CENTER LINES.



STEP - 3 INSTALL PRESET ANCHORS IF APPLICABLE

USING LOCATION LINES PREVIOUSLY ESTABLISHED, INSTALL PRESET ANCHORS IN PLACE PER APPROVED SHOP DRAWINGS.

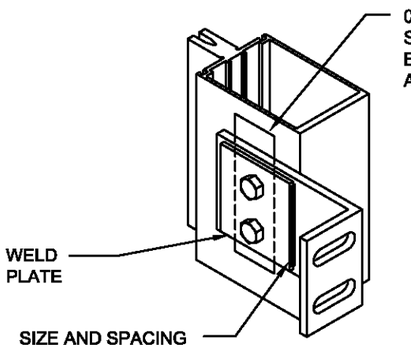
STEP - 4 FRAME ASSEMBLY

ATTACH ANCHORS TO MULLIONS WHERE APPLICABLE.

ANCHOR PREP MAY BE FABRICATED IN THE FIELD OR FACTORY. CONSULT APPROVED SHOP DRAWINGS FOR CORRECT METHOD.

STANDARD ANCHOR PREP IS THRU-BOLTED AT INTERMEDIATE VERTICALS AND TAPPING PLATES ARE USED AT JAMB VERTICALS. REFER TO APPROVED SHOP DRAWINGS FOR CORRECT METHOD.

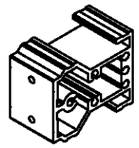
WHEN WELDING ANCHORS, PROTECT INSTALLED GLASS AND METAL FROM WELD SPLATTER.



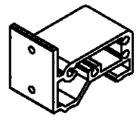
DO NOT OVER TIGHTEN ANCHOR CONNECTIONS. TIGHTEN TO A "SNUG TIGHT" POSITION WITH PARTS BROUGHT INTO GOOD CONTACT. BE SURE ANY SPRING TYPE LOCK WASHERS ARE COMPRESSED. THEN TIGHTEN APPROXIMATELY 1/2 MORE TURN.

STEP - 4 FRAME ASSEMBLY

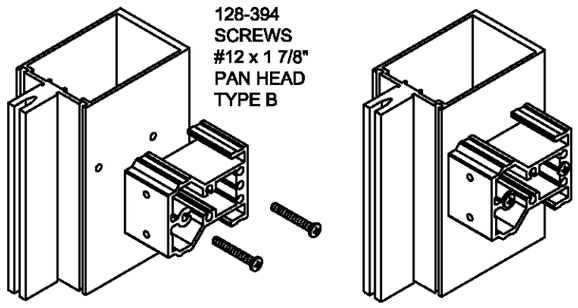
ATTACH SHEAR BLOCKS.



TYPICAL INTERMEDIATE SHEAR BLOCKS
162-377 5 9/16" OR 6 5/16" SYSTEM
162-378 7 1/16" OR 7 13/16" SYSTEM



HEAD AND SILL SHEAR BLOCKS
162-331 5 9/16" OR 6 5/16" SYSTEM
162-332 7 1/16" OR 7 13/16" SYSTEM

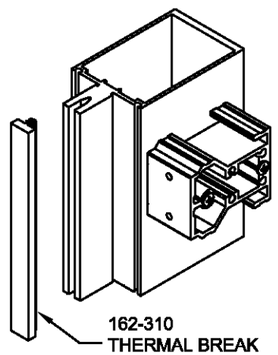


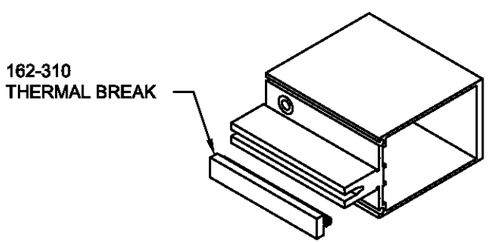
STEP - 5 INSTALL 162-310 THERMAL BREAK

162-310

DO NOT STRETCH WHEN REMOVING FROM COIL AND CARTON

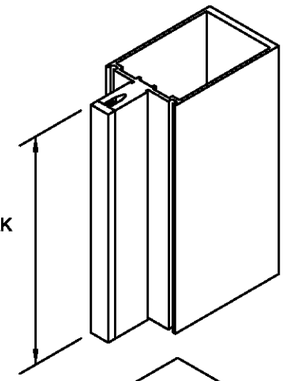
DO NOT STRETCH DURING INSTALLATION



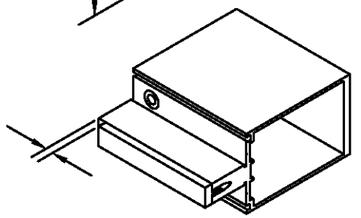


STEP - 5 INSTALL 162-310 THERMAL BREAK

OPTION TO INSTALL THERMAL BREAK AFTER VERTICALS AND HORIZONTALS ARE INSTALLED

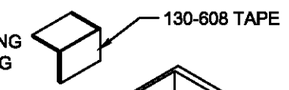


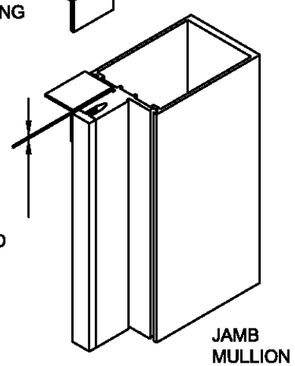
THERMAL BREAK TO BE SAME LENGTH AS VERTICAL MULLIONS



THERMAL BREAK TO BE 1/4" SHORT AT EACH END OF HORIZONTALS

INSTALL JAMB END CAPS AT JAMB SIDE ONLY WITH 130-608 DOUBLE SIDED TAPE AS SHOWN BELOW.





KAWNEER

Product Engineering & Development

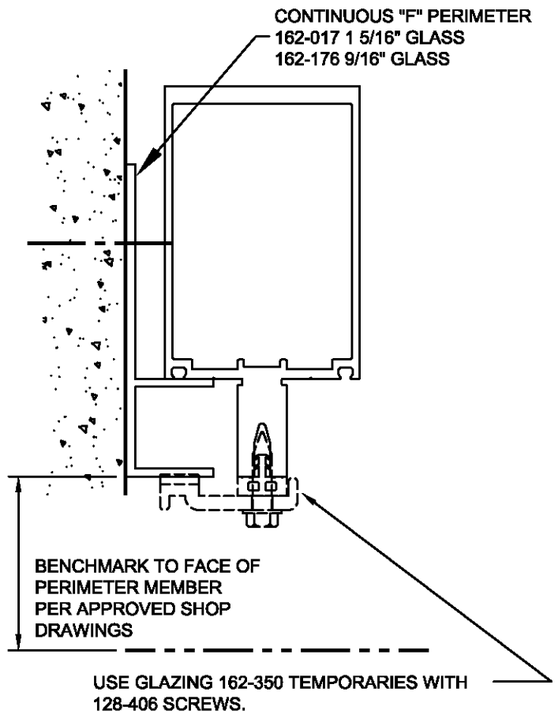
1600 SYS. 1 LARGE MISSLE IMPACT INSTALLATION INSTRUCTIONS

95449-70
07/11/08

GENERAL IMPACT INSTALLATION INSTRUCTIONS; FOR JOB SPECIFIC APPLICATION, PLEASE CONTACT FACTORY TO VERIFY THAT SYSTEM MEETS APPLICABLE CODES.

STEP - 6 PERIMETERS WHERE APPLICABLE

INSTALL PERIMETER MEMBERS PER APPROVED SHOP DRAWINGS. PERIMETER MEMBERS CAN OCCUR AT HEAD, SILL OR JAMB CONDITIONS.

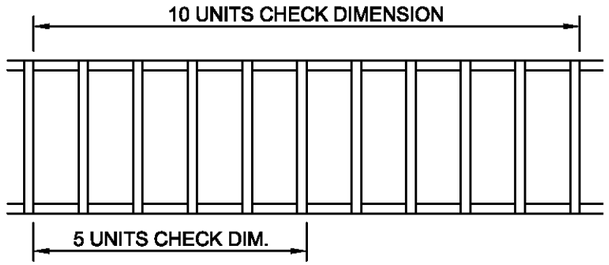


MAXIMUM TEMPORARY SPACING IS 30". IF MORE THAN A 50 MPH (80KPH) WIND IS EXPECTED, INSTALL PRESSURE PLATES.

STEP - 7 INSTALL VERTICAL MULLIONS

DIMENSION BUILD-UP CHECK

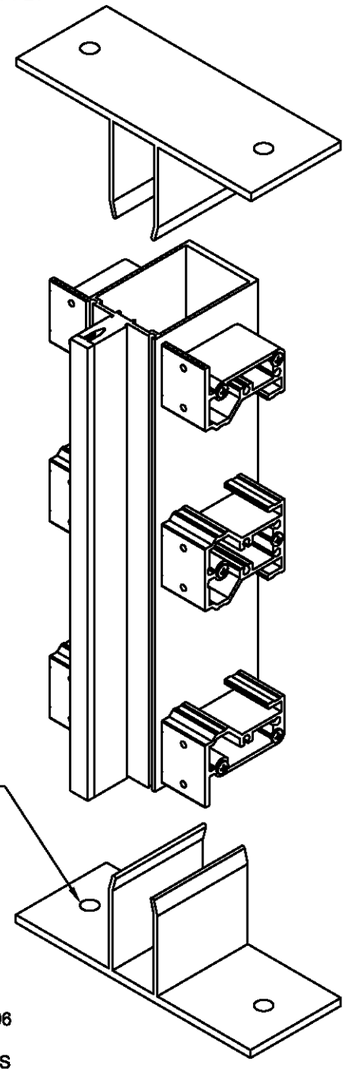
CHECK OVERALL FRAME DIMENSIONS ABOUT EVERY FIVE MULLIONS ON LONG RUNS. THIS IS TO AVOID DIMENSION BUILD-UP.



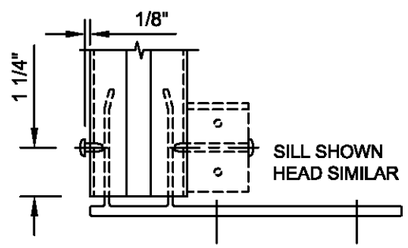
STEP - 7 INSTALL VERTICAL MULLIONS

AT HEAD AND SILL, APPLY "F" OR "T" ANCHORS WHERE APPLICABLE

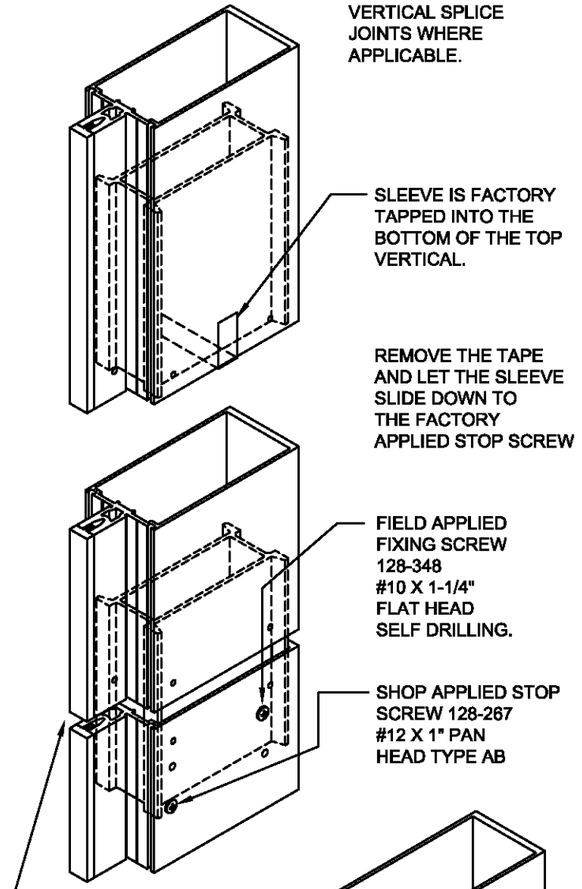
THESE SHEAR BLOCKS MAY NEED TO BE REMOVED TO INSTALL A ANCHOR FASTENER THAT MIGHT BE LOCATED CLOSE TO THE MULLION



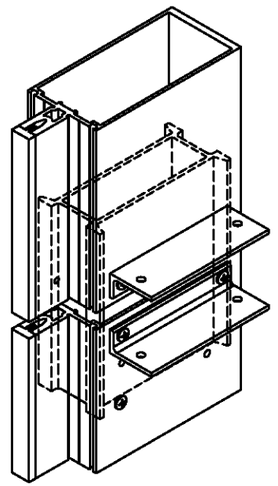
AT MULLION JAMB SIDE, APPLY (2) 128-396 SCREWS AS SHOWN TO CENTER F-CLIPS AS REQUIRED.



STEP - 7 INSTALL VERTICAL MULLIONS

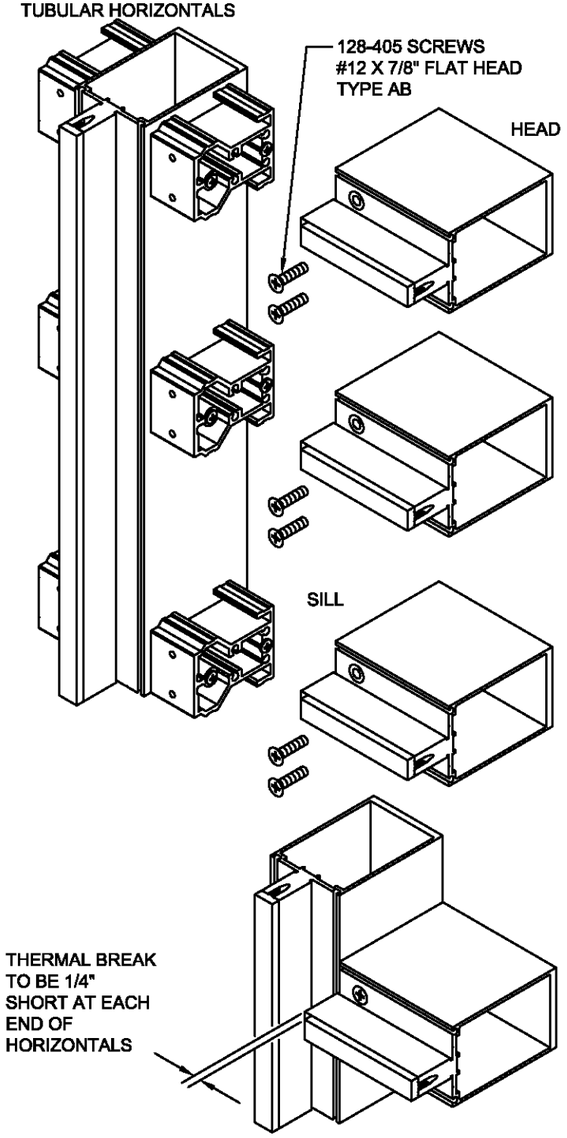


NOTE:
SPLICE SHOULD BE LOCATED AT A EXPANSION HORIZONTAL CENTERLINE LOCATION.



STEP - 8 INSTALL HEAD/SILL AND INTERMEDIATE HORIZONTALS

TUBULAR HORIZONTALS



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10/20/07

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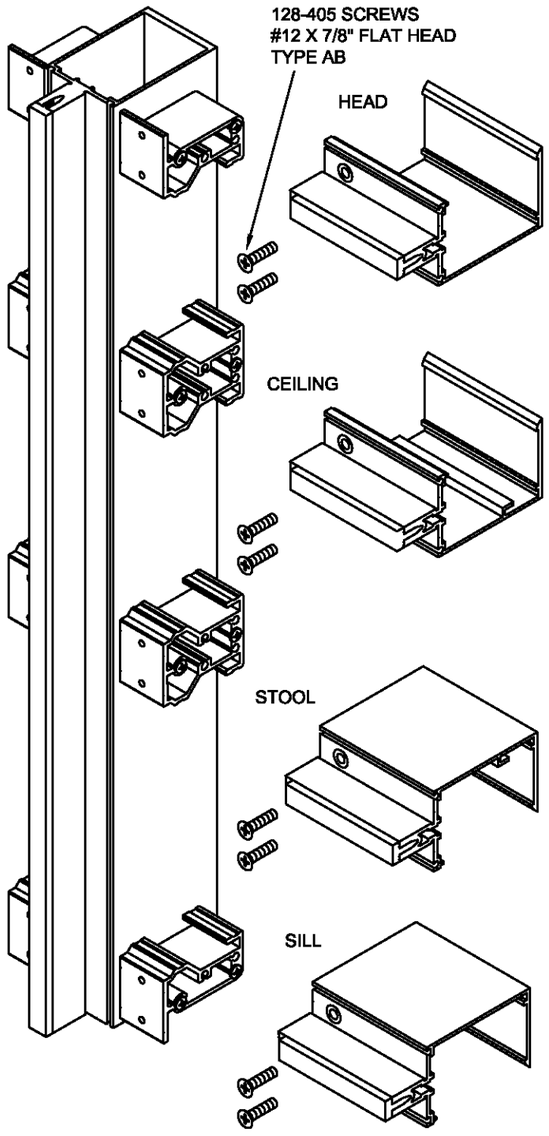
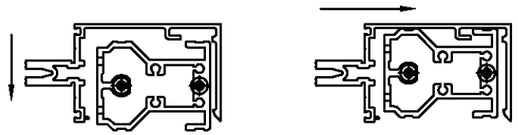
STEP - 8 INSTALL HEAD/SILL AND INTERMEDIATE HORIZONTALS

OPEN BACK HORIZONTALS AND LAST BAY HORIZONTALS.
FILLER AVAILABLE WHEN OPEN BACK IS EXPOSED AND AT EYE LEVEL.



INSTALLING CEILING INTERMEDIATE
OPEN BACK HORIZONTAL

INSTALLING STOOL INTERMEDIATE
OPEN BACK HORIZONTAL

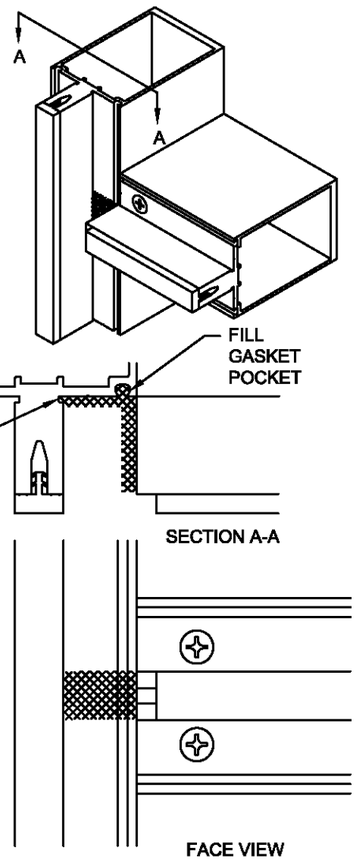


STEP - 9 INSTALL JOINT PLUGS

ALL SURFACES AND GROOVES MUST BE CLEANED PER THE SEALANT MANUFACTURER'S RECOMMENDATIONS.

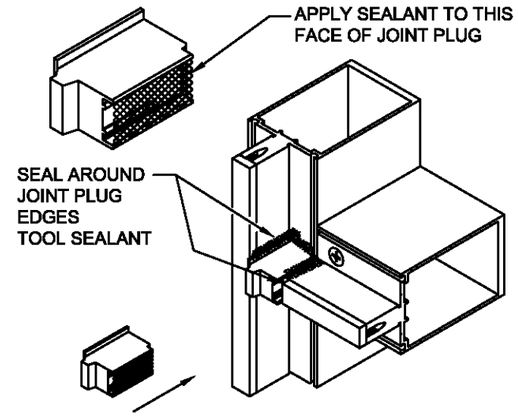
JUST BEFORE INSTALLING JOINT PLUGS, APPLY SEALANT AS SHOWN FILLING GASKET POCKET AND ADAPTER GROOVE.

AT INTERMEDIATES

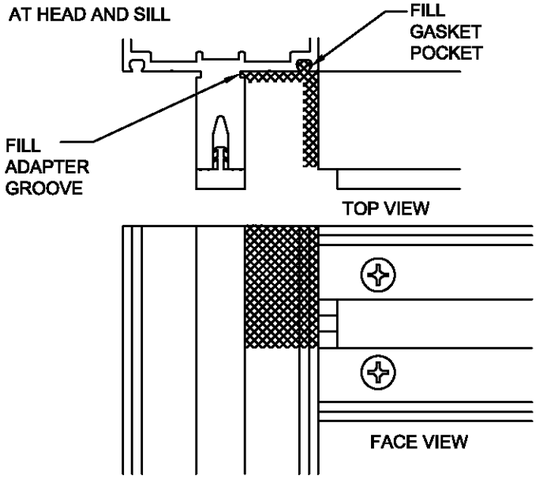


STEP - 9 INSTALL JOINT PLUGS

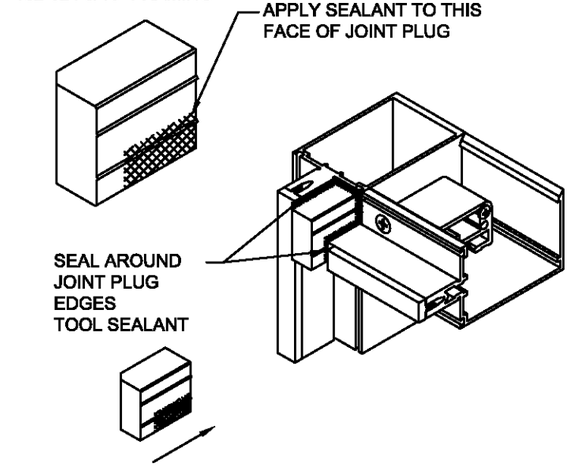
JOINT PLUG
162-539 1 5/16" FRAMING (SHOWN)
162-540 9/16" FRAME MEMBERS



AT HEAD AND SILL

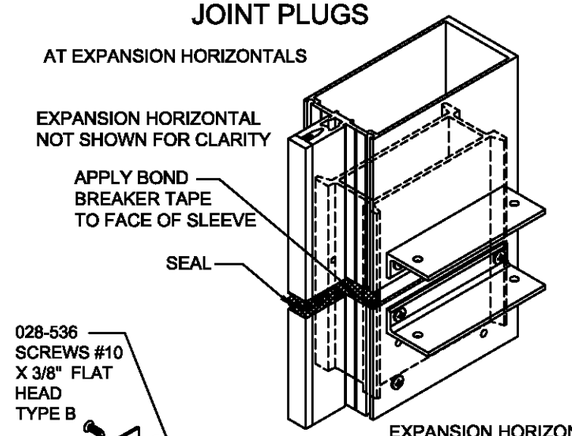


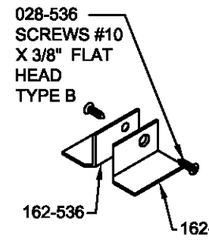
HEAD AND SILL JOINT PLUG
162-529 1 5/16" FRAMING (SHOWN)
162-524 9/16" FRAMING



STEP - 10 SEAL INTERIOR OF VERTICAL SPLICE JOINTS AND INSTALL JOINT PLUGS

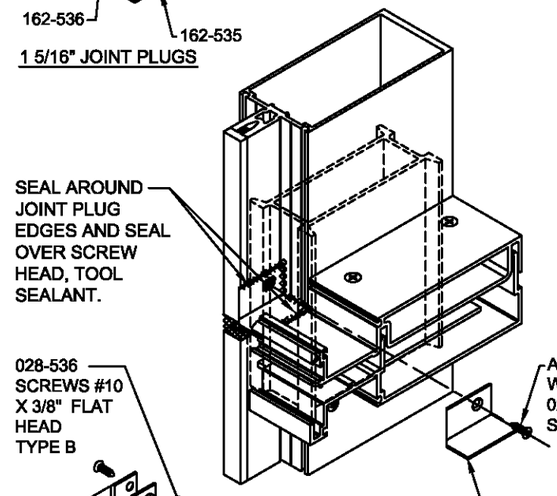
AT EXPANSION HORIZONTALS





EXPANSION HORIZONTAL
SHEAR BLOCKS
162-521 7 1/16" SYSTEM
162-520 7 13/16" SYSTEM

1 5/16" JOINT PLUGS



9/16" JOINT PLUGS

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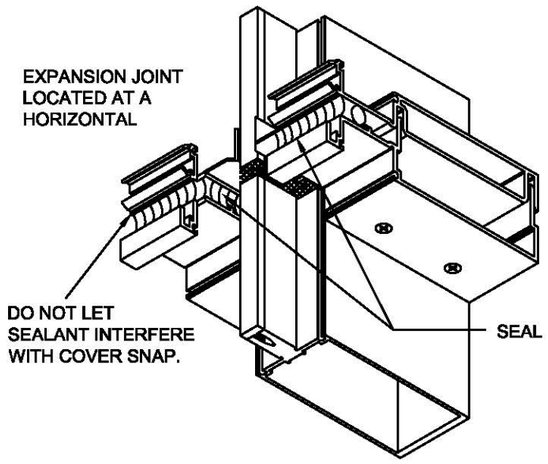
STEP - 10 SEAL INTERIOR OF VERTICAL SPLICE JOINTS AND INSTALL JOINT PLUGS

ALL SURFACES AND GROOVES MUST BE CLEANED PER THE SEALANT MANUFACTURER'S RECOMMENDATIONS.

APPLY BACKER ROD AND SEALANT BETWEEN EXPANSION HORIZONTALS. RETURN SEAL AT ENDS AND MARRY TO SEAL BETWEEN HORIZONTALS AND MULLION SPLICE SEAL AT FACE OF MULLION TUBE.

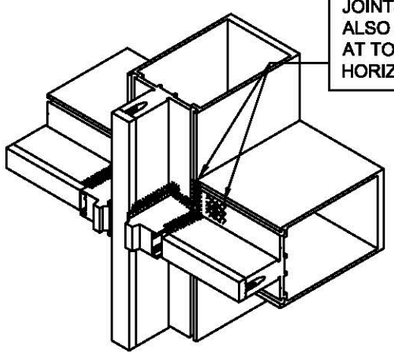


STEP - 11 ADDITIONAL SEALS

ALL SURFACES AND GROOVES MUST BE CLEANED PER THE SEALANT MANUFACTURER'S RECOMMENDATIONS.

SEALS REQUIRED AT HEAD, SILL, INTERMEDIATE AND EXPANSION HORIZONTALS.

JUST BEFORE INSTALLING VERTICAL AND HORIZONTAL GLAZING TAPE, FACE SEAL JOINTS AT ALL 4 CORNERS. ALSO SEAL SCREW HEAD AT TOP HALF OF HORIZONTAL.



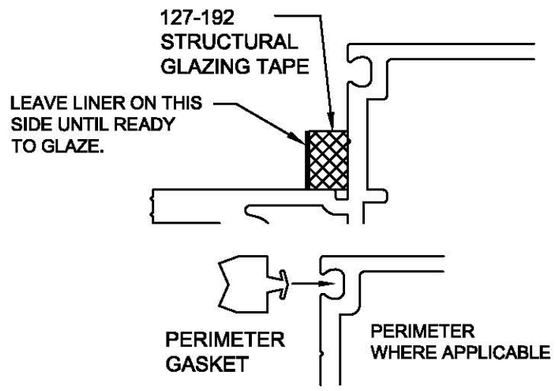
STEP - 12 INSTALL INTERIOR GLAZING TAPE

REFER TO TEST DRAWINGS AND REPORTS FOR APPROVED GLAZING TAPE AND REQUIRED SILICONE JOINT WIDTH. PLEASE CONTACT THE FACTORY FOR ASSISTANCE.

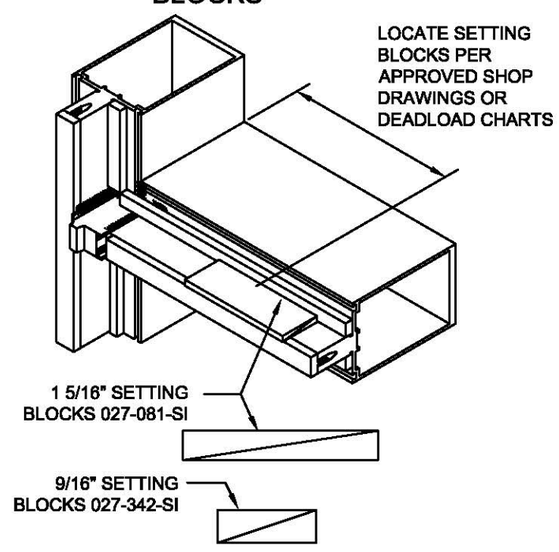
NOTE: DO NOT APPLY TAPE AT EXPANSION HORIZONTALS. REFERENCE STEP 15 ON SHEET 6 FOR GLAZING INFORMATION.

PREPARATION OF ALUMINUM SURFACES ARE TO BE EXACTLY AS OUTLINED BY THE SEALANT MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

NOTE: ACCESS IS REQUIRED FROM THE INTERIOR TO APPLY STRUCTURAL SILICONE AFTER GLASS INSTALLATION.



STEP - 13 INSTALL SETTING BLOCKS



STEP - 14 INSTALL EXTERIOR GASKETS INTO PRESSURE PLATES

GASKETS SHOULD BE INSTALLED JUST PRIOR TO GLASS TO AVOID CONTAMINATION BY JOB SITE DEBRIS. GASKET GROOVES AND POCKETS SHOULD BE CLEAN.

IN TEMPERATURES COLDER THAN 50° F, ARRANGEMENTS SHOULD BE MADE TO WARM GASKETS BEFORE INSTALLATION. THIS WILL PREVENT EXCESSIVE GLAZING PRESSURE ON THE GLASS DUE TO COLD, STIFF RUBBER GASKETS.

GASKETS CAN BECOME DEFORMED DURING STORAGE IN CARTONS. THEY SHOULD BE REMOVED FROM CARTONS SEVERAL HOURS PRIOR TO GLAZING AND LAID FLAT OR HUNG TO ALLOW RECOVERY OF CORRECT SHAPE. TEMPERATURES SHOULD BE AT LEAST 50° F TO ALLOW THIS.

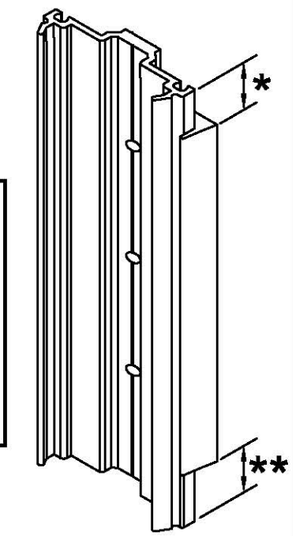
GASKET INSTALLED LENGTH TO BE DAYLITE OPENING. GASKETS TO BE CUT LONG FOR SOME "CROWD-IN". GASKETS SHOULD NEVER BE " STRETCHED TO FIT".

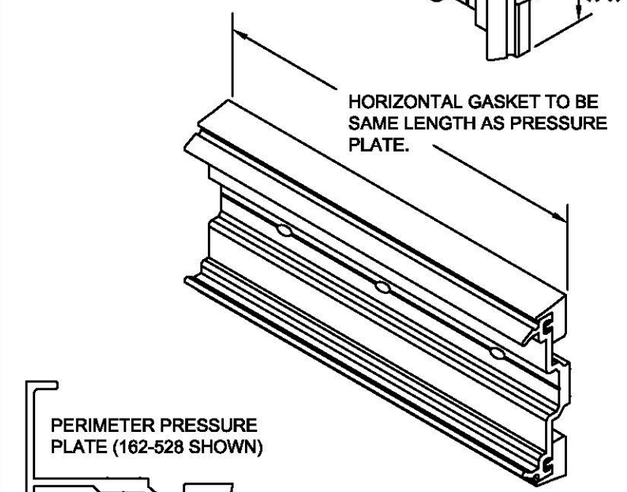
"CROWD-IN" TO BE 1/8" PER FOOT UP TO 5'-0", 3/16" PER FOOT UP TO 8'-0", 1/4" PER FOOT OVER 8'-0".

VERTICAL GASKETS ARE TO RUN CONTINUOUS EXCEPT AT THE HEAD/SILL CONDITIONS AND EXPANSION HORIZONTALS.

* AT HEAD - STOP 1 9/16" SHORT UNDER SPLICE - FLUSH WITH TOP OF PRESSURE PLATE

** AT SILL - STOP 1 9/16" SHORT AT SPLICE - STOP 2" SHORT



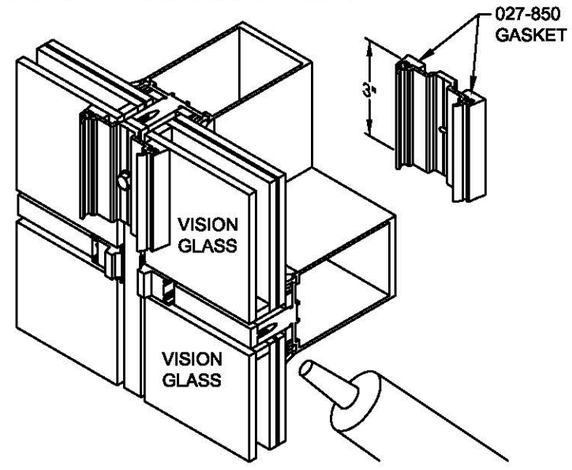


STEP - 15 GLAZING GLASS

- CLEAN GLASS AND FRAMING AT STRUCTURAL SILICONE CONTACT SURFACES PER SEALANT MANUFACTURER'S RECOMMENDATIONS.
- PRIME FRAMING AS REQUIRED.
- REMOVE TAPE LINER.
- POSITION GLASS ON SETTING BLOCKS MAINTAINING PROPER GLASS BITE PER APPROVED SHOP DRAWINGS. PRESS GLASS INTO TAPE. INSURE A 1/4" SPACE BETWEEN THE GLASS AND FACE OF MULLION WHEN SETTING GLASS AND APPLYING TORQUE TO PRESSURE PLATE SCREWS.
- ATTACH 3" LONG TEMPORARY PRESSURE PLATES WITH 128-406 SCREWS. MAXIMUM TEMPORARY SPACING IS 30". IF WINDS GREATER THAN 50 MPH (80 KPH) ARE EXPECTED, ADDITIONAL TEMPORARIES MAY BE REQUIRED. CONSULT YOUR SEALANT AND/OR INFILL SUPPLIER FOR SPACING RECOMMENDATION.
- INSTALL PRESSURES PLATES WHERE POSSIBLE. IF NECESSARY, APPLY MASKING TAPE AT GLASS AND FRAMING TO AVOID ADDITIONAL CLEAN-UP AFTER APPLICATION OF STRUCTURAL SILICONE.

AT TYPICAL HORIZONTALS AND VERTICALS.

APPLY STRUCTURAL SILICONE SEALANT (DOW CORNING 995) COMPLETELY FILLING JOINTS. TOOL SEALANT.



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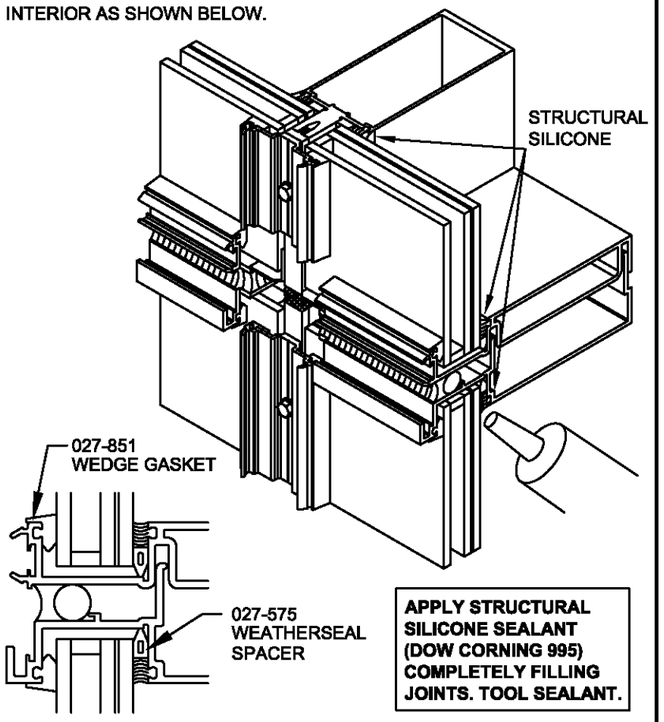
STEP - 15 GLAZING GLASS

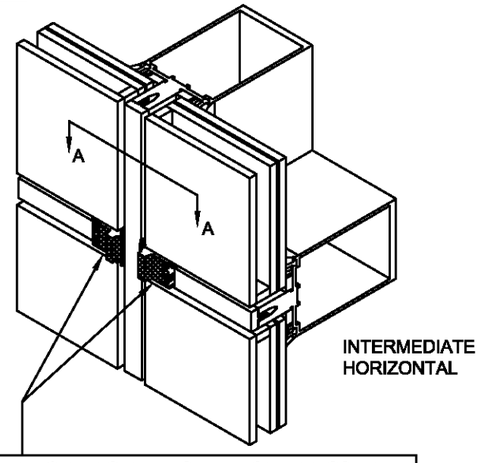
AT EXPANSION HORIZONTALS

INSTALL 027-851 WEDGE GASKET AT THE EXTERIOR OF THE EXPANSION HORIZONTALS AND THE 027-575 SPACER AT THE INTERIOR AS SHOWN BELOW.



APPLY STRUCTURAL SILICONE SEALANT (DOW CORNING 995) COMPLETELY FILLING JOINTS. TOOL SEALANT.

STEP - 16 INSTALL EXTERIOR PRESSURE PLATES

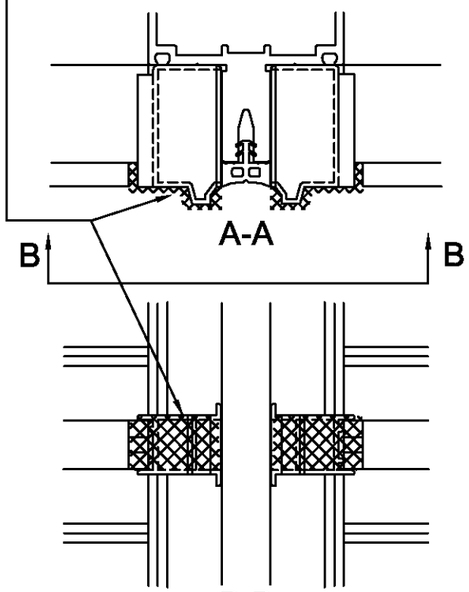


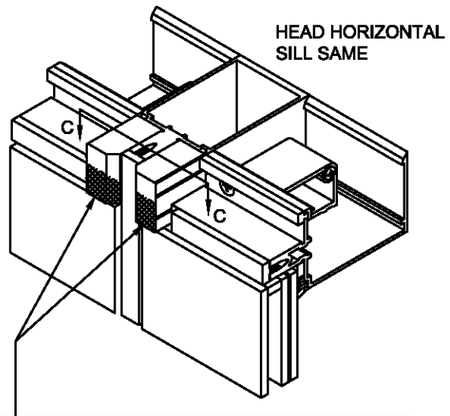
JUST BEFORE INSTALLING VERTICAL PRESSURE PLATES APPLY A GENEROUS AMOUNT OF SEALANT TO THE JOINT PLUG FACE FILLING JOINTS AS SHOWN.

STEP - 16 INSTALL EXTERIOR PRESSURE PLATES

JUST BEFORE INSTALLING VERTICAL PRESSURE PLATES APPLY A GENEROUS AMOUNT OF SEALANT TO THE JOINT PLUG FACE FILLING JOINTS AS SHOWN.

CLEAN JOINT PER SEALANT MANUFACTURER'S RECOMMENDATIONS



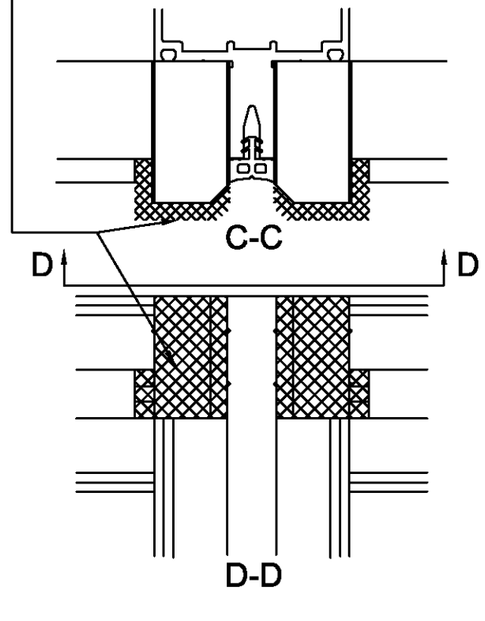


JUST BEFORE INSTALLING VERTICAL PRESSURE PLATES APPLY A GENEROUS AMOUNT OF SEALANT TO THE JOINT PLUG FACE FILLING JOINTS AS SHOWN.

STEP - 16 INSTALL EXTERIOR PRESSURE PLATES

JUST BEFORE INSTALLING VERTICAL PRESSURE PLATES APPLY A GENEROUS AMOUNT OF SEALANT TO THE JOINT PLUG FACE FILLING JOINTS AS SHOWN.

CLEAN JOINT PER SEALANT MANUFACTURER'S RECOMMENDATIONS



RECOMMEND USING TORQUE LIMIT TOOL 162-399 SEE NOTE.

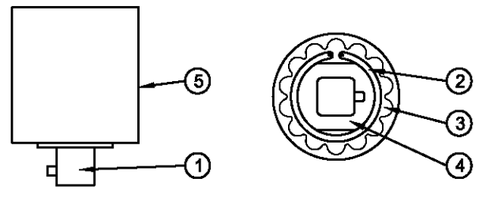
NOTE - THE TORQUE LIMIT TOOL WAS DESIGNED TO BE USED WITH A HAND DRIVEN DEVICE.THE TOOL CAN BE ADAPTED TO A DRILL MOTOR IF USED AT A MAXIMUM SPEED OF APPROX. 300 RPM. HIGHER SPEEDS CAN CAUSE OVERHEATING AND AFFECT THE ACCURACY. AFTER APPROX. 1 HOUR OF TOOL USAGE CHECK TORQUE SETTINGS WITH A TORQUE WRENCH.

HOW TO SET TORQUE LIMIT

1. ATTACH ANY CALIBRATED TORQUE INDICATOR TO OUTPUT STUB (1) AND DETERMINE PRESENT TORQUE SETTING WHILE HOLDING THE BODY (5), OR VICE-VERSA.

2. REMOVE SNAP RING (2) AND LOCKING PLATE (3).

3. ADJUST NUT (4) WITH OPEN-END WRENCH : CLOCKWISE TO INCREASE TORQUE, COUNTER- CLOCKWISE TO DECREASE TORQUE.



STEP - 16 INSTALL EXTERIOR PRESSURE PLATES

4. OBTAIN NEW TORQUE READING WITH THE CALIBRATED TORQUE INDICATOR. REPEAT PRECEDING STEP IF MORE ADJUSTMENT IS NECESSARY TO REACH DESIRED LIMIT.

5. REPLACE LOCKING PLATE INTO NOTCHES AND INSTALL SNAP RING. IF LOCKING PLATE DOES NOT "SEAT", MOVE THE ADJUSTING NUT SLIGHTLY UNTIL IT DROPS IN PLACE. THE DIRECTION IS BEST DETERMINED BY WHETHER A MINIMUM TORQUE APPLICATION OR A MAXIMUM ONE IS DESIRED.

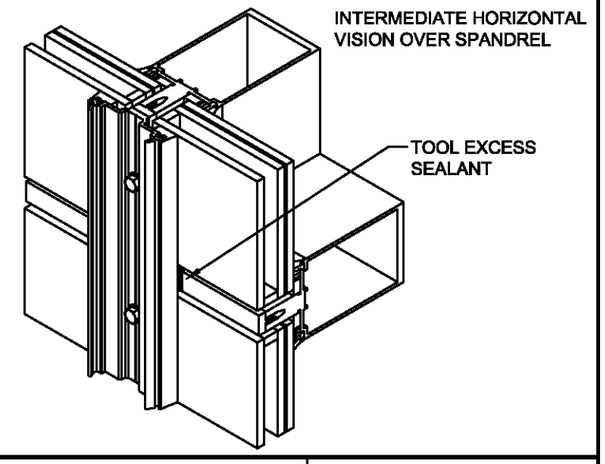
INSTALL PRESSURE PLATES USING SCREWS 128-406 1/4-14 X 1" HEX WASHER HEAD TYPE AB

SCREWS ARE TO BE LOCATED 9" ON CENTER FOR DESIGN LOADS UP TO 65 PSF. FOR DESIGN LOADS 66 PSF AND HIGHER, SCREWS ARE TO BE LOCATED 3" ON CENTER.

ALWAYS LOCATE A SCREW AS CLOSE AS POSSIBLE TO A HORIZONTAL JOINT. THIS WILL PROVIDE MAXIMUM PRESSURE FOR THE CRITICAL JOINT SEALS.

AT EACH HORIZONTAL AND VERTICAL PRESSURE PLATE INSTALL TWO SCREWS PART WAY, THEN INSTALL THE THIRD SCREW ALL THE WAY, AND THEN TIGHTEN THE FIRST TWO SCREWS. THIS ELIMINATES LATERAL WALKING OF THE PRESSURE PLATE POSITION.

TORQUE ALL SCREWS TO 95 TO 100 INCH POUNDS. DURING COLD WEATHER TORQUE SCREWS TO 50 INCH POUNDS UNTIL ALL 4 SIDES HAVE BEEN CLAMPED. THEN TORQUE SCREWS TO 95 TO 100 INCH POUNDS.



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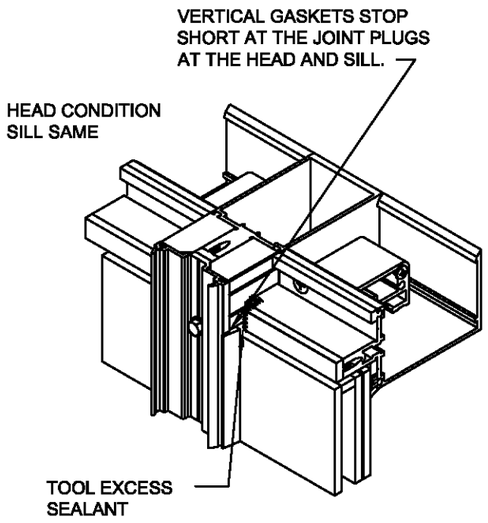
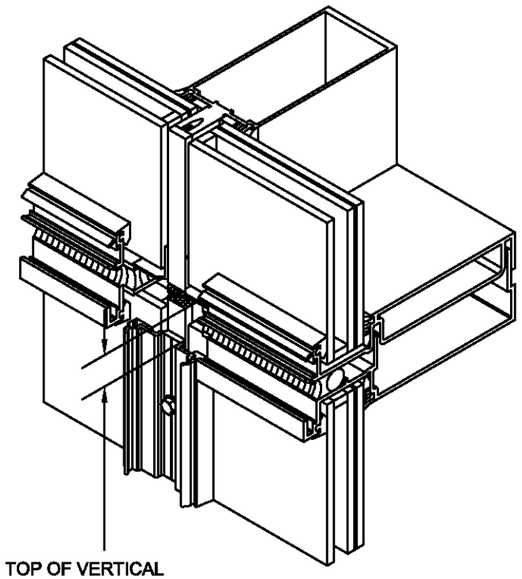
STEP - 16 INSTALL EXTERIOR PRESSURE PLATES

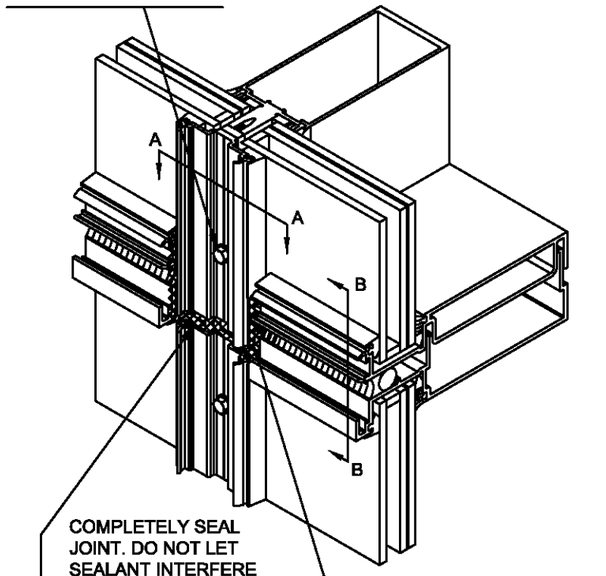


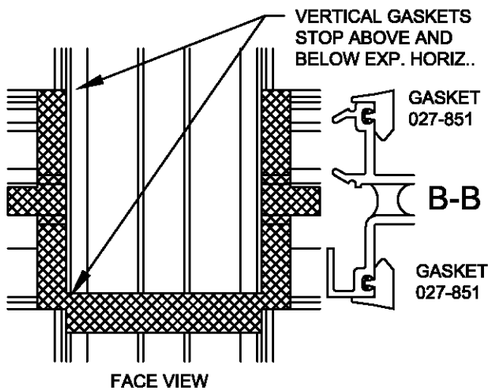
VERTICAL EXPANSION JOINTS



STEP - 16 INSTALL EXTERIOR PRESSURE PLATES

VERTICAL EXPANSION JOINTS



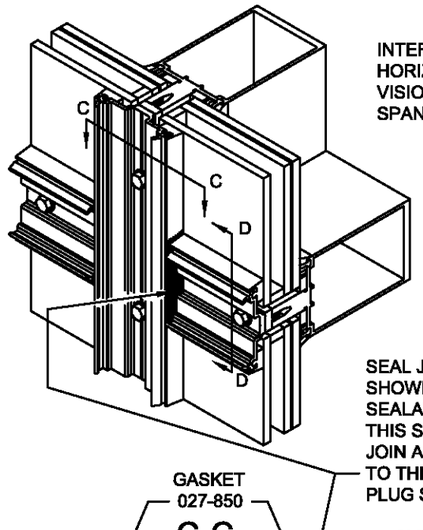


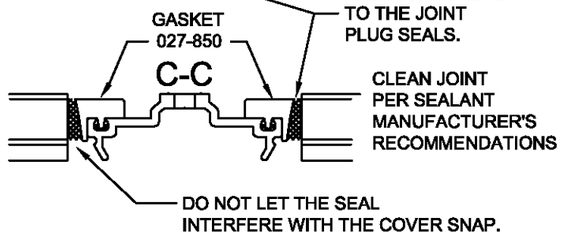
FACE VIEW

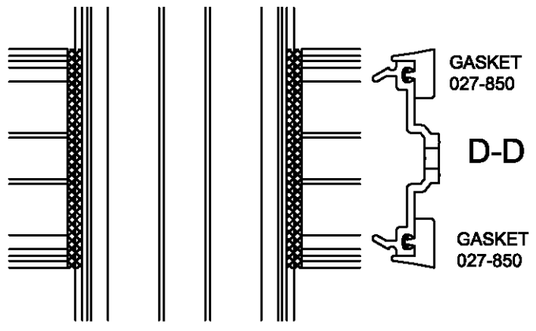
STEP - 16 INSTALL EXTERIOR PRESSURE PLATES

INSTALL HORIZONTAL PRESSURE PLATES

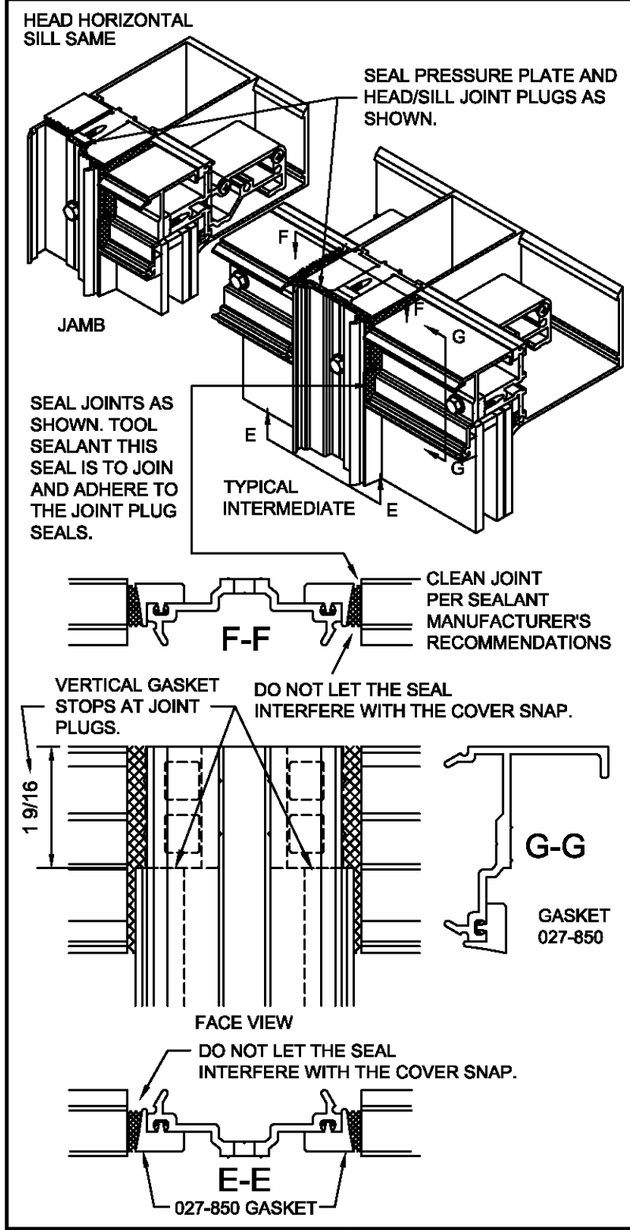
CENTER HORIZONTAL PRESSURE PLATES SO END GAPS ARE EQUAL.







FACE VIEW



KAWNEER

Product Engineering & Development

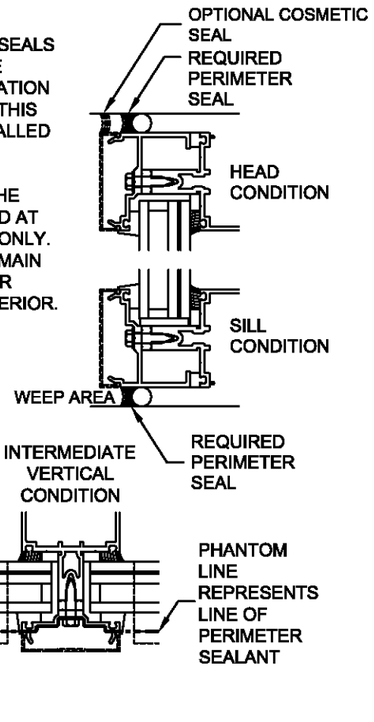
1600 SYS. 1 LARGE MISSLE IMPACT INSTALLATION INSTRUCTIONS

95449-84
09/30/11

GENERAL IMPACT INSTALLATION INSTRUCTIONS; FOR JOB SPECIFIC APPLICATION, PLEASE CONTACT FACTORY TO VERIFY THAT SYSTEM MEETS APPLICABLE CODES.

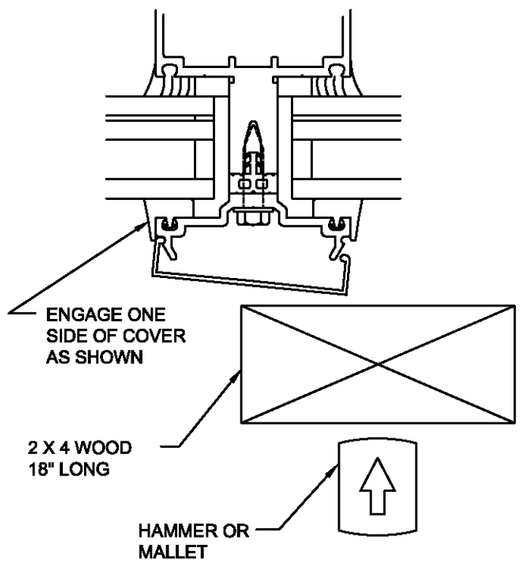
STEP - 17 INSTALL PERIMETER SEALS

PERIMETER WEATHER SEALS ARE INSTALLED AT THE PRESSURE PLATE LOCATION AS DETAILED BELOW. (THIS SEAL SHOULD BE INSTALLED BEFORE COVERS ARE APPLIED) EXTERIOR COSMETIC SEALS AT THE COVER MAY BE APPLIED AT THE HEAD AND JAMBS ONLY. SILL COVERS MUST REMAIN OPEN TO ALLOW WATER DRAINAGE TO THE EXTERIOR.

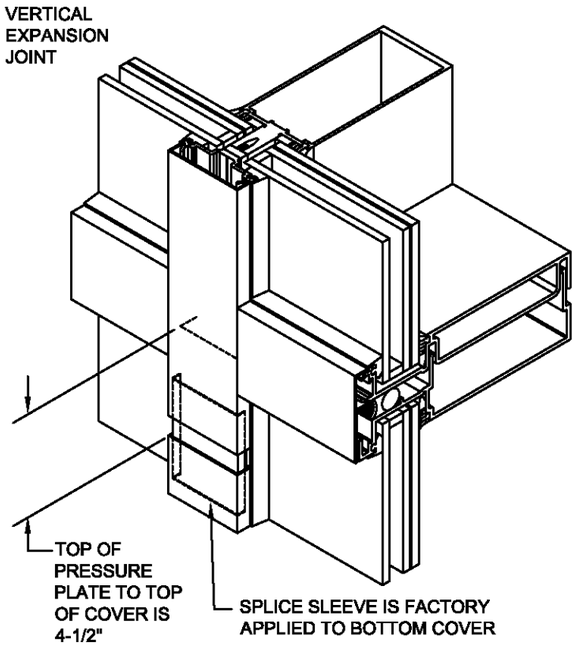


STEP - 18 INSTALL EXTERIOR COVERS

CARE MUST BE TAKEN TO AVOID DAMAGE TO COVERS DURING INSTALLATION. USE A 18" LONG PIECE OF 2 X 4 WOOD ALONG WITH A HAMMER OR MALLET TO SEAT THE COVER.

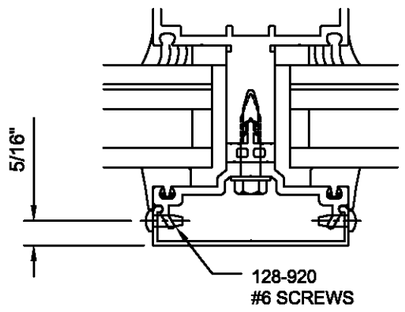


STEP - 18 INSTALL EXTERIOR COVERS



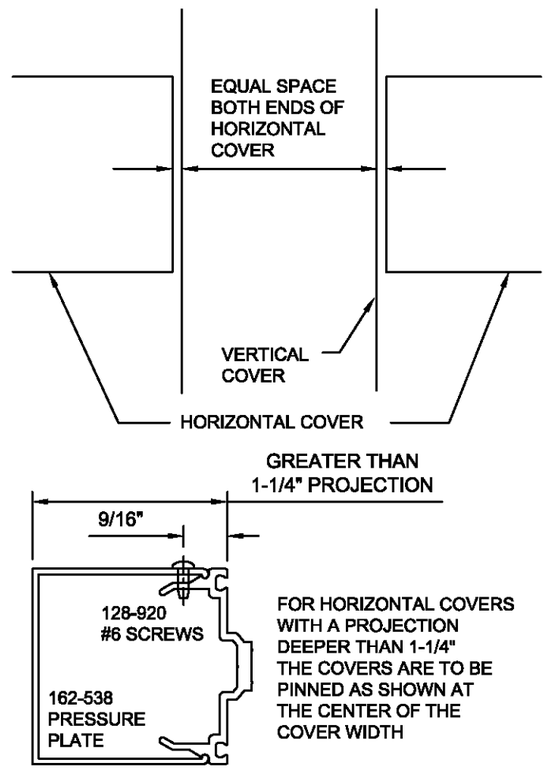
PINNING OF ALL VERTICAL COVERS IS REQUIRED FOR BOTH SIDES. DRILL A .106 DIA. HOLE (#36 DRILL) AND INSTALL 128-920 SCREWS #6 X 3/8" PAN HEAD TYPE B LOCATE PINNING AT A HORIZONTAL CLOSEST TO THE COVER HEIGHT CENTER.

(ONE SIDE ONLY AT JAMBS)



STEP - 18 INSTALL EXTERIOR COVERS

INSTALL HORIZONTAL COVERS WITH THE WEEP HOLES DOWN

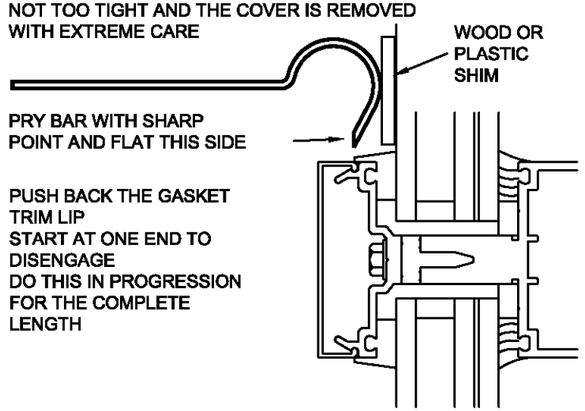


STEP - 19 INSTALL MIAMI DADE LABELS

REFERENCE SHEET 1 FOR ADDITIONAL INFORMATION

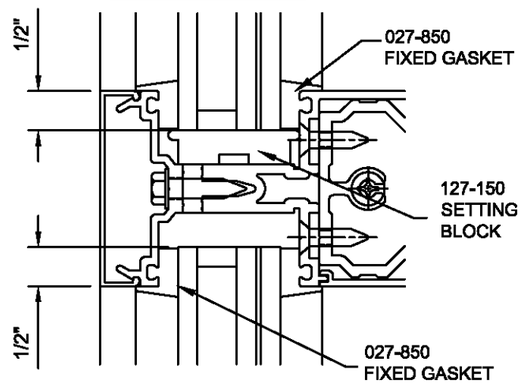
REMOVING COVERS

COVERS CAN BE SAVED IF TOLERANCES ARE NOT TOO TIGHT AND THE COVER IS REMOVED WITH EXTREME CARE

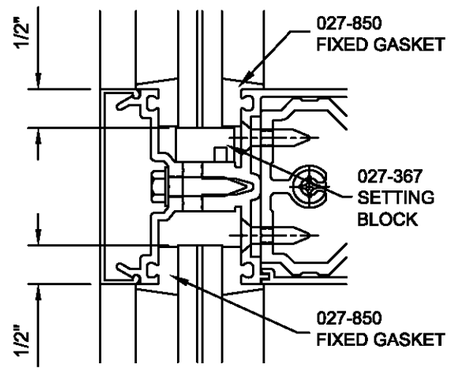


SMALL MISSILE IMPACT

1 5/16" SMALL MISSILE



9/16" SMALL MISSILE



INFILL SIZE FORMULA FOR SMALL MISSILE IS DLO + 1"

FOR INSTALLATION OF SMALL MISSILE IMPACT SYSTEM, USE IMPACT STOCK LENGTH INSTRUCTIONS IN CONJUNCTION WITH INSTALLATION INSTRUCTIONS 162-960 & 162-970. PRESSURE PLATE FASTENERS ARE LOCATED 3" ON CENTER - REFER TO STEP 17 OF THESE INSTRUCTIONS FOR PRESSURE PLATE INSTALLATION.

AS WITH LARGE MISSILE IMPACT, REFER TO TEST DRAWINGS AND REPORTS FOR APPROVED SEALANT AND ANCHORING. THIS MAY VARY PER TEST. PLEASE CONTACT THE FACTORY FOR ASSISTANCE.

KAWNEER

Product Engineering & Development

1600 SYS. 1 LARGE MISSLE IMPACT INSTALLATION INSTRUCTIONS

95449-89
07/09/12

Product Evaluation

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: CWSF-37 **Effective Date:** May 1, 2015
Re-evaluation Date: May 2019

Product Name: 7-13/16" Deep 1600 System 1 Aluminum Curtain Wall System, Impact Resistant

Manufacturer: Kawneer Company, Inc.
555 Guthridge Court
Norcross, Georgia 30092-2503
(770) 840-6426

General Description:
The aluminum curtain wall system is an aluminum frame system used for commercial curtain wall installations. This evaluation report includes the following curtain wall assemblies:

- Multi-Span Curtain Wall
- Single-Span Reinforced Curtain Wall
- Single-Span Non-Reinforced Curtain Wall

Doors: Doors referenced in this product evaluation report are Kawneer door products. The Kawneer doors used with these assemblies must be listed in a separate TDI product evaluation report.

Product Identification: A Kawneer label will be affixed to the curtain wall assembly.

Products Installed in Accordance with Drawing No. 1789T (Large Missile Impact): The label includes the manufacturer's name (Kawneer); the product name (7-13/16" 1600 Wall System 1 Curtain Wall); the design pressure; that the product complies with ASTM E 330, ASTM E 1886, ASTM E 1996, Large Missile Impact, Zone 4-Level D; and reference to Drawing #1789T.

Products Installed in Accordance with Drawing No. 1795T (Small Missile Impact): The label includes the manufacturer's name (Kawneer); the product name (7-13/16" 1600 Wall System 1 Curtain Wall); the design pressure; that the product complies with ASTM E 330, ASTM E 1886, ASTM E 1996, Small Missile Impact Zone, Level A; and reference to Drawing #1790T.

Limitations:

Design Drawings:

Curtain Wall assemblies complying with the requirements for large missile impact must comply and be installed in accordance with the following drawing:

Drawing No. 1789T, titled "7-13/16" Deep 1600 System 1 Curtain Wall (L.M.I.)," Sheets 1 thru 18 of 18, dated March 19, 2013, signed and sealed by Warren W. Schaeffer., P.E on March 20, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

Curtain Wall assemblies complying with the requirements for small missile impact must comply and be installed in accordance with the following drawing:

Drawing No. 1790T, titled "7-13/16" Deep 1600 System 1 Curtain Wall (S.M.I.),," Sheets 1 thru 18 of 18, dated March 19, 2013, signed and sealed by Warren W. Schaeffer., P.E on March 20, 2013. The stated drawings will be referred to as the approved drawings in this evaluation report.

Fabrication and Assembly: Kawneer aluminum curtain wall systems are fabricated in the factory. The aluminum curtain wall systems are assembled and glazed at the jobsite. The approved drawings referenced in this evaluation report indicate the options for the glazing construction.

Design pressure (DP):

- The curtain wall assemblies for large missile impact have a design pressure rating of ± 90 psf. Refer to drawing No. 1789T for specific design pressure requirements.

- The curtain wall assemblies for small missile impact have a design pressure rating of ± 90 psf. Refer to drawing No. 1790T for specific design pressure requirements.

Impact Resistance:

Products Installed in Accordance with Drawing No. 1789T: These assemblies satisfy TDI's criteria for protection from windborne debris in both the **Inland I** and **Seaward** zones. These assemblies have passed an impact criteria equivalent to Missile Level D specified in ASTM E 1996-04. Install these assemblies at any height on the structure that does not exceed the design pressure rating for the assembly. These assemblies do not require an impact protective system when installed in areas where windborne debris protection is required.

Products Installed in Accordance with Drawing No. 1790T: These assemblies satisfy TDI's criteria for protection from windborne debris in both the **Inland I** and **Seaward** zones. These assemblies have passed an impact criteria equivalent to Missile Level A specified in ASTM E 1996-04. Install these assemblies at a height of 30' or greater on the structure as long as the design pressure rating for the assembly is not exceeded. These assemblies do not require an impact protective system when installed in areas where windborne debris protection is required.

Acceptance of Other Assemblies:

- The approved drawings specify the limitations on horizontal stacking and overall width.
- The approved drawings specify limitations on vertical height.
- Use either single doors or double doors with the assemblies shown on the approved drawings.

Installation Instructions:
General: Prepare and install the assembly in accordance with the manufacturers recommended installation instructions. Detailed installation instructions and drawings are available in the following document, 162-950, "Kawneer 1600 Sys 1 Large Missile Impact Instructions," Sheets 1 thru 8, by Kawneer.

Installation:
Wall Framing Construction: The aluminum curtain wall system may be mounted to several types of wall framing construction. The types of wall framing construction allowed include:

- Concrete (minimum compressive strength: 3,000 psi)
- Wood dimension lumber (minimum Southern Yellow Pine)
- Steel studs (minimum 16 gauge, 50 ksi)
- Steel (1/8" thick, A36 (minimum Fy = 36 ksi))

Refer to the design drawings for specific wall framing requirements.

Fastener Requirements:

- Refer to the approved drawings for the anchor layout and notes.
- Refer to the approved drawings for the minimum embedment depths for the fasteners and the minimum edge distances (minimum distance fastener must be from the edge of the substrate material) for the fasteners.

Note: Keep the manufacturer's installation instructions on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.

SECTION 08 71 00

FINISH HARDWARE

(Door Hardware Vendor shall verify with floor plans that each door has appropriate door hardware for each door specified, including quantity for each. Reference Aluminum Storefront and Curtain Wall systems for additional door hardware)

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. Work under this section comprises of furnishing hardware specified herein and noted on drawings for a complete and operational system, including any electrified hardware components, systems, controls and hardware for aluminum entrance doors. Any door shown on the drawing and not specifically referenced in the hardware sets shall be provided with identical hardware as specified on other similar openings and shall be included in the General Contractor's base bid. All fire rated door shall be provided with fire rated hardware as required by local code Authority as part of the General Contractor's base bid. The hardware supplier shall verify all cylinder types specified for locking devices supplied as part of the door system with the door manufacturer and/or door supplies.

B. The General Contractor shall notify the Architect in writing of any discrepancies (five (5) days prior to bid date) that could and/or would result in hardware being supplied that is none functional, hardware specified and/or hardware that has not been specified that will result in any code violations and any door that is not covered in this specification. Failure of the General Contractor to address any such issue could be considered acceptance of the hardware specified and any and all discrepancies could be corrected at the General Contractor's expense.

C. Items include but are not limited to the following:

1. Hinges - Pivots
2. Flush Bolts
3. Exit Devices
4. Locksets and Cylinders
5. Push Plates - Pulls
6. Coordinators
7. Closers
8. Kick, Mop and Protection Plates
9. Stops, Wall Bumpers, Overhead Controls
10. Electrified Hold Open Devices
11. Thresholds, Seals and Door Bottoms
12. Silencers
13. Miscellaneous Trim and Accessories

1.02 RELATED DOCUMENTS, drawings and general provisions of contract, including General and Supplementary Conditions, and Division 1 Specification sections, apply to this section.

1.03 RELATED WORK specified elsewhere that should be examined for its effect upon this section:

A. Section 06 20 00 - Finish Carpentry
B. Section 08 11 13 – Steel Doors and Frames
C. Section 08 14 16 – Flush Wood Doors
D. Sections 08 31 13 – Access Doors
E. Section 08 39 00 – Watertight Doors
E. Section 08 41 13 – Aluminum Entrances, Storefront and Window Framing
F. Sections 08 80 00 – Glass and Glazing
G. Sections 09 91 00 - Painting
H. Division 26 – Electrical
I. Division 28 – Access Control

1.04 REFERENCES SPECIFIED in this section subject to compliance as directed:

A. NFPA-80 - Standard for Fire Doors and Windows
B. NFPA-101 - Life Safety Code
C. ADA - The Americans with Disabilities Act - Title III - Public Accommodations
D. ANSI-A 117.1 - American National Standards Institute - Accessible and Usable Buildings and Facilities
E. ANSI-A 156.5 - American National Standards institute -Auxiliary Locks and Associated Products
F. UFAS - Uniform Federal Accessibility Standards
G. UL - Underwriter's Laboratories
H. WHI - Warnock Hersey International, Testing Services
I. State and Local Codes including Authority Having Jurisdiction
J. U.B.C.7-2-97 and UL10C
K. IBC-2012 – International Building Code
L. NFPA-70 – International Electrical Code

1.05 SUBMITTALS

A. HARDWARE SCHEDULES submit copies of schedule in accordance with Division 1, General Requirements. Schedule to be in vertical format, listing each door opening, including: handing of opening, all hardware scheduled for opening or otherwise required to allow for proper function of door opening as intended, and finish of hardware. At doors with door closers or door controls include degree of door opening. Supply the schedules all Finish Hardware within two (2) weeks from date purchase order is received by the hardware supplier.

B. Submit manufacturer's cut/catalog sheets on all hardware items and any required special mounting instructions with the hardware schedule.

C. Certification of Compliance:

1. Submit any information necessary to indicate compliance to all of these specifications as required.
2. Submit a statement from the manufacturer that electronic hardware and systems being supplied comply with the operational descriptions exactly as specified.

D. Submit any samples necessary as required by the Architect.

E. Templates for finish hardware items to be sent to related door and frame suppliers within three (3) working days of receipt of approved hardware schedule.

F. Doors and Frames used in positive pressure opening assemblies shall meet U.B.C. 7-2-97 and UL10C in areas where this specification includes Seals for smoke door.

1.06 QUALITY ASSURANCE

A. Hardware supplier to be a qualified, Factory Authorized, direct distributor of the products to be furnished. In addition, the supplier to have in their regular employment an AHC or AHC /CDC and/or a person of equivalent experience (minimum fifteen (15) years in the industry) who will be made available at reasonable times to consult with the Architect/Contractor and/or the Building Owner regarding any matters affecting the finish hardware on this project.

B. All hardware used in labeled fire or smoke rated openings to be listed for those types of openings and bear the identifying label or mark indicating UL. (Underwriter's Laboratories) approved for fire. Exit devices in non-labeled openings to be listed for panic.

1.07 DELIVERY, HANDLING AND PACKAGING

A. Furnish all hardware with each unit clearly marked and numbered in accordance with the hardware schedule. Include door and item number for each.

B. Pack each item of hardware completes with all necessary parts and fasteners.

C. Properly wrap and cushion each item to prevent scratches and dents during delivery and storage.

1.08 SEQUENCING AND SCHEDULING

Any part of the finish hardware required by the frame or door manufacturers or other suppliers that is needed in order to produce doors or frames is to be sent to those suppliers in a timely manner, so as not to interrupt job progress.

1.09 WARRANTY

All finish hardware shall be supplied with a two- (2) year warranty against defects in materials and workmanship, commencing with substantial completion of the project except as follows:

1. All Closers are to have a thirty- (30) year written warranty.
2. All Exit Devices (Grade 1) are to have a three- (3) year written warranty.
3. All Locksets (Grade 1) are to have a two- (2) year written warranty.
4. All Continuous Hinges are to have a ten- (10) year written warranty.

PART 2 – PRODUCTS

2.01 FASTENERS

A. Furnish with finish hardware all necessary screws, bolts and other fasteners of suitable size and type to anchor the hardware in position for a long life under hard use.

B. Furnish fastenings where necessary with expansion shields, toggle bolts and other anchors designated by the Architect according to the material to which the hardware is to be applied and the recommendations of the hardware

manufacturer. All closers and exit devices on labeled wood doors shall be through-bolted if required by the door manufacturer. All thresholds shall be fastened with wood screws and plastic anchors. Where specified in the hardware sets, security type fasteners of the type called for are to be supplied.

C. Design of all fastenings shall harmonize with the hardware as to material and finish.

D. All hardware shall be installed with the Manufacturers standard screws as provided. The use of any other type of fasteners shall not be permitted. The general contractor shall provide wood blocking in all stud walls specified and/or scheduled to receive wall stops, No Exception.

2.02 ENVIRONMENTAL CONCERN FOR PACKAGING

The hardware shall ship to the job site is to be packaged in biodegradable packs such as paper or cardboard boxes and wrapping.

2.03 HINGES

A. All hinges to be of one manufacturer as hereafter listed for continuity and consideration of warranty. Provide one of the following manufacturers Ives, Hager or Stanley.

B. Unless otherwise specified provide five-knuckle, heavy-duty, button tip, full mortise template type hinges with non-rising loose pins. Provide non-removable pins for out swinging doors at secured areas or as called for in this specification (Refer to 3.02 Hardware Sets).

C. Provide all out-swinging doors with non-removable pins or security studs as called for in 3.02 Hardware Sets. Furnish three (3) hinges up to 90 inches high and one (1) additional hinge for every 30 inches or fraction thereof.

D. Furnish three (3) hinges up to 90 inches high and one (1) additional hinge for every 30 inches or fraction thereof.

E. Provide size 4½” x 4½” for all 1¾” thick doors up to and including 36 inches wide. Doors over 1¾” through 2¼” thick, use 5” x 5” hinges. Doors over 36 inches use 5” x 4½” unless otherwise noted in 3.02 Hardware Sets.

F. Were required to clear the trim and/or to permit the doors to swing 180 degrees furnish hinges of sufficient throw.

G. Provide heavy weight hinges on all doors over 36 inches in width.

H. At labeled door’s steel or stainless steel, bearing-type hinges shall be provided. For all doors equipped with closers provide bearing-type hinges.

2.04 LOCK AND LOCK TRIM

A. All of the locksets, latch sets, and trim to be of one manufacturer as hereafter listed for continuity of design and consideration of warranty. Locksets specified are Falcon “MA” series with the “SG” lever and shall be provided as specified to match the existing facilities.

B. Provide metal wrought box strike boxes and curved lip strikes with proper lip length to protect trim of the frame, but not to project more than 1/8 inch beyond frame trim or the inactive leaf of a pair of doors.

C. Mechanical Locks shall meet ANSI Operational Grade 1, Series 1000 as specified.

1. Hand of lock is to be field reversible or non-handed.
2. All lever trim is to be through-bolted through the door.

2.05 CYLINDERS AND KEYING

A. Provide all exterior and interior locks or Exit Devices requiring cylinders keyed to the Existing Falcon Small Format Interchangeable Core Master Key System and which also complies with performance requirements of ANSI A156.5. All keys shall be of nickel silver material only. The hardware supplier shall meet with the General Contractor, the Architect and the Facility Owners Representative at the project jobsite to determine all permanent keying requirements.

B. Cylinders shall be factory keyed and factory maintained as directed by the Building Owner and the Architect. Provide three- (3) keys per cylinder and six- (6) master keys per master used.

C. Factory stamp all keys “Do not duplicate” and with key symbol as directed by the Building Owner. Visual key control shall be provided on all permanent keys and cylinders.

D. Furnish all locks, cylinders and Exit devices with temporary keyed construction cores for the duration of construction. Provide ten (10) construction keys and two (2) construction control keys total. The general contractor shall within thirty (30) days of the installation of permanent cores return all construction cores to the hardware supplier for full credit.

2.06 EXIT DEVICES

A. All exit devices and trim, including electrified items, to be of one manufacturer as hereafter listed and in the hardware sets for continuity of design and consideration of warranty; electrified devices and trim to be the same series and design as mechanical devices and trim.

B. Exit Devices to be “UL” listed for life safety. All exit devices for labeled doors shall have “UL” label for “Fire Exit Hardware”. All devices mounted on labeled wood doors are to be through-bolted or per the manufacturer’s listing requirements. All devices shall conform to NFPA 80 and NFPA 101 requirements.

C. All exit devices to be of a heavy duty, chassis mounted design, with a one-piece removable covers, eliminating necessity of removing the device from the door for standard maintenance and keying requirements.

D. All trims to be through-bolted to the lock stile case. Lever design to be the same as specified with the lock sets.

E. Exit Devices shall be the modern push rail design. All exit devices shall be mounted with sex bolts.

F. All devices shall carry a three- (3) year warranty against manufacturing defects and workmanship. Exit devices shall be certified by an independent testing lab for a minimum of 1,000,000 cycles.

G. Furnish roller strikes for all rim and surface vertical rod exit devices. Internal springs shall be coil compression type. Furnish security dead latching for all active latch bolts. Latch bolts to have self lubricating coating to reduce friction and wear. Plated latch bolts not accepted.

H. All Exit Devices shall be field modifiable as incorporate an Electric Latch Retraction Feature without the purchase of new Panic Exit Hardware.

J. Exit Devices shall be the Von Duprin “99” series as specified to match the existing facilities.

2.07 SURFACE MOUNTED DOOR CLOSERS

A. All closers for this project shall be the products of a single manufacturer for continuity of design and consideration of warranty. All door closers shall be mounted as to achieve the maximum degree of opening (trim permitting).

B. All closers to be heavy duty, surface-mounted, fully hydraulic, rack and pinion action with high strength aluminum cylinder to provide control throughout the entire door opening and closing cycle.

C. Size all closers in accordance with the manufacturer’s recommendations at the factory.

D. All closers to have adjustable spring power sizes 1 or 2 through 4 or 6 and separate tamper resistant, brass, non-critical regulating screw valves for closing speed, latching speed and back-check control as a standard feature unless specified other wise.

E. All closer covers to be rectangular, full cover type of non-ferrous, non-corrosive material painted to match closer. Provide closer covers only if provided as a standard part of the door closer package.

F. Closers shall have heavy-duty arms. All closer arms shall be of sufficient length to accommodate the reveal depth and to insure proper installation. The hardware supplier shall provide any and all required brackets, spacers or filler plates as required by the manufacture for a proper and functional installation as part of their base bid.

G. Supply appropriate arm assembly for each closer so that closer body and arm are mounted on non-public side of door opening and on the interior side of exterior openings, except where required otherwise in the hardware sets.

H. Provide closers with special application and heavy-duty arms as specified in the hardware sets or as otherwise called for to insure a proper operating, long lasting opening. Drop plates and any additional mounting brackets required for the proper installation of the door closer shall be included in the hardware supplier’s base bid.

I. Finish: Baked on Powder Coated finish shall match other hardware.

J. Provide and mount all door closers with sex bolts as provided by the manufacturer.

K. Closers shall be LCN 4050 and 1450 series as specified or acceptable products manufactured by Sargent (351 and 1431 Series).

2.08 DOOR STOPS AND HOLDERS

A. Door stops are to be furnished for every door leaf. Every door is to have a floor, wall, or an overhead stop.

B. Place doorstops in such a position that they permit maximum door swing, but do not present a hazard of obstruction. Furnish floor strikes for floor holders of proper height to engage holders of doors.

C. Where overhead stops and holders are specified, or otherwise required for proper door operation, they are to be heavy duty and of extruded brass, bronze or stainless steel with no plastic parts as specified**.** The General Contractor shall provide wood blocking in all stud walls specified and scheduled to receive wall stops.

D. Finish: Shall match other hardware where available.

E. Acceptable Products

1. Floor and wall stops as listed in hardware sets. Equivalent products as manufactured by Ives, ABH, Glynn Johnson and Trimco are acceptable.

2.09 PUSH PLATES, DOOR PULLS, AND KICKPLATES

A. All push plates, door pull, kick plates and other miscellaneous hardware as listed in hardware sets. Equivalent products as manufactured by Ives, Hager and Trimco are acceptable.

B. Kick plates to be 10 inches high and Mop plates to be 6 inches high, both by 1-½ inches or 1 inch less than door width (LDW) as specified. They are to be of 16 gauge thick base metal. For door with louvers or narrow bottom rails, kick plate height to be 1 inch less dimension shown from the bottom of the door to the bottom of the louver or glass.

C. Where required armor plates, edge guards and other protective hardware shall be supplied in sizes as scheduled in the hardware sets.

D. Finish: Same as other hardware where available.

2.10 FLUSH BOLTS AND COORDINATORS

A. Provide Flush bolts with Dust Proof Strikes as indicated in the individual hardware sets by Ives, Hager and Trimco are acceptable. Finish shall match the adjacent hardware.

2.11 THRESHOLDS AND SEALS

A. Provide materials and finishes as listed in hardware sets. Zero products has been specified to set a high level of quality, equivalent product by manufactured

by National Guard Products and Pemko shall be acceptable. All thresholds must be in accordance with the requirements of the ADA and ANSI A117.1.

B. Provide thresholds with wood screws and plastic anchors. Supply all necessary anchoring devices for weather strip and sound seal.

C. Seals shall comply with requirements of U.B.C. 7-2-97 and UL10C. All thresholds, door bottoms and weather strip inserts shall be a silicone based product as specified in 3.02 Hardware Sets. Other materials used shall be rejected, unless originally specified.

D. Seals shall comply with the requirements of the Wood Door Manufacturer's certification requirements.

E. All thresholds shall be provided with none slip coating as specified in the hardware sets.

2.12 FINISHES

A. Finishes for all hardware are as required in this specification and the hardware sets.

B. Special care is to be taken to make uniform the finish of all various manufactured items.

2.13 DOOR SILENCERS

A. Provide door silencers at all openings without gasket. Provide two- (2) each at pair of doors and three- (3) or four- (4) each for each single door (coordinate with the frame manufacturer).

2.14 PROPRIETARY PRODUCTS

A. References to specific products are used to establish quality standards of utility and performance. Unless otherwise approved provide only the specified product.

B. All other materials, not specifically described, but required for a complete and proper finish hardware installation, are to be selected by the Contractor, subject to the approval of the Architect and the Building Owner.

C. Architect and the Building Owner reserve the right to approve all the substitutions proposed for this specification. All requests for substitution to be made prior to bid in accordance with Division 1, General Requirements, and are to be in writing, hand delivered to the Architect. Two (2) copies of the manufacturer's brochures and a physical sample of each item in the appropriate design and finish shall accompany requests for substitution.

PART 3 - EXECUTION

3.01 INSTALLATION AND SERVICE ITEMS OF FINISH HARDWARE

A. All finish hardware shall be installed by an experienced finish hardware installer with at least ten (10) years experience after a pre-installation meeting between the contractor, hardware Manufacturers representative, the hardware supplier, the hollow metal supplier and the wood door supplier. The finish hardware

installer shall be responsible for the proper installation and function of all doors and hardware.

B. The hardware supplier's office and/or warehouse shall be located within a one hundred twenty five (125) mile radius of the project site as to better service the general contractor and the Facility Owner during the course of this project.

C. Check hardware against the reviewed hardware schedule upon delivery. Store the hardware in a dry and secure location to protect against loss and damage.

D. Install finish hardware in accordance with approved hardware schedule and manufacturers' printed instructions. Pre-fit hardware before finish is applied to door; remove and reinstall after finish is complete and dry. Install and adjust hardware so that parts operate smoothly, close tightly, and do not rattle.

E. Mortise and cutting to be done neatly, and evidence of cutting to be concealed in the finished work. Protect all Finish hardware from scratching or other damage.

F. The hardware supplier, general contractor and hardware installer shall after three (3) months of the Facility Owner's acceptance of the facility perform an on site survey of the finish hardware. Any item of finish hardware found to be defective or out of adjustment shall be replaced or adjusted for the proper function and operation of the door assembly at the contractor's, supplier's and/or installer's expense. The hardware supplier shall provide a written report of any and all affected items to the Architect and the Facility Owner (No Exceptions). The scheduled inspection date for the on site inspection and adjustment of finish hardware shall be provided to the Architect as a part of the general contractor and hardware supplies close-out documentation for this project.

G. All exterior door hardware shall be Hurricane Rated

H. Provide head drips on all exterior doors without cover

I. Provide exterior SS lock sets for the two dumpster gates.

J. Provide ked locked box for keys and turn in to owner.

3.02HARDWARE SETS
SPEXTRA: 255438
PERMIT BUILDING
HARDWARE SET # 01 - EXTERIOR
DOORS #
132

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	SL11HD RP-DOOR HEIGHT	628	SEL
1	EA	ELEC PANIC HARDWARE	EL-HH-HD-9947-DT	628	VON
1	EA	ELEC PANIC HARDWARE	EL-HH-HD-9947-NL	628	VON
1	EA	RIM HOUSING	C953	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
2	EA	SURFACE CLOSER	4050 SCUSH	689	LCN
2	EA	MOUNTING PLATE	4050-18PA	689	LCN
2	EA	SHOE SUPPORT	4050-30	689	LCN
2	EA	STOP SPACER	4050-61	689	LCN
2	EA	DOOR BOTTOM	50MA-DOOR WIDTH	A	ZER
1	EA	THRESHOLD	566A-FRAME WIDTH	A	ZER

1	EA	POWER SUPPLY	PS914 900-BBK 900-2RS	LGR	VON
		CRAD READER	PROVIDED BY SECURITY CONTRACTOR		
		WEATHER STRIP	PROVIDED BY THE DOOR MFG		

ACCESS CONTROLLED HURRICANE RATED

HARDWARE SET # 02 - EXTERIOR

DOORS #

116 C135(ADD)
BUILDING C

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	SL11HD RP-DOOR HEIGHT	628	SEL
1	EA	ELEC PANIC HARDWARE	EL-HH-99-NL-SNB	628	VON
1	EA	RIM HOUSING	C953	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	4050 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	WEATHER STRIPPING	PS-074		STC
1	EA	DOOR SWEEP	FAS-SEAL		STC
1	EA	THRESHOLD	566A-FRAME WIDTH	A	ZER
1	EA	HEADER RAIN DRIP	142A-FRAME HEAD PLUS 4"	A	ZER
1	EA	DOOR VIEWER	U698	626	IVE
1	EA	POWER SUPPLY	PS914 900-BBK 900-2RS	LGR	VON
		CRAD READER	PROVIDED BY SECURITY CONTRACTOR		

ACCESS CONTROLLED HURRICANE RATED

HARDWARE SET # 03 - EXTERIOR

DOORS #

101

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	SL11HD RP-DOOR HEIGHT	628	SEL
1	EA	EU STOREROOM LOCK	MA881B-24VRX SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	LOCK GUARD	LG12	630	IVE
1	EA	SURFACE CLOSER	4050 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	WEATHER STRIPPING	PS-074		STC
1	EA	DOOR SWEEP	FAS-SEAL		STC
1	EA	THRESHOLD	566A-FRAME WIDTH	A	ZER

1	EA	HEADER RAIN DRIP	142A-FRAME HEAD PLUS 4"	A	ZER
1	EA	DOOR VIEWER	U698	626	IVE
1	EA	SHARED POWER SUPPLY	PS904 900-BBK 900-4R	LGR	SCE
		CRAD READER	PROVIDED BY SECURITY CONTRACTOR		

ACCESS CONTROLLED HURRICANE RATED

HARDWARE SET # 04 - EXTERIOR

DOORS #
108

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	SL11HD RP-DOOR HEIGHT	628	SEL
1	EA	EU STOREROOM LOCK	MA881B-24VRX SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	LOCK GUARD	LG12	630	IVE
1	EA	SURFACE CLOSER	4050 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	SET	WEATHER STRIPPING	PS-074		STC
1	EA	DOOR SWEEP	FAS-SEAL		STC
1	EA	THRESHOLD	566A-FRAME WIDTH	A	ZER
1	EA	HEADER RAIN DRIP	142A-FRAME HEAD PLUS 4"	A	ZER
1	EA	DOOR VIEWER	U698	626	IVE
		CRAD READER	PROVIDED BY SECURITY CONTRACTOR		

ACCESS CONTROLLED HURRICANE RATED

HARDWARE SET # 05 - HALL

DOORS #
135

EACH TO HAVE:

2	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 TW8	652	IVE
1	EA	EU STOREROOM LOCK	MA881B-24VRX SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER
1	EA	DOOR VIEWER	U698	626	IVE
1	EA	REMOTE RELEASE	660-PB	628	SCE
1	EA	POWER SUPPLY	PS902 900-BBK 900-4R	LGR	SCE

CRAD READER	PROVIDED BY SECURITY CONTRACTOR	

ACCESS CONTROLLED & REMOTE RELEASE

HARDWARE SET # 06 - PERMITS

DOORS #
130

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE LOCK	MA571B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450 REG	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	DOOR VIEWER	698	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET # 07 - STORAGE

DOORS #

102	104	105	106	107	109
111	112	113	114 (USE 115)	124(USE 115)	

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	MA581B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET # 08 - VESTIBULE

DOORS #

118	119	123	125

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PUSH PLATE	8200 8" X 16"	630	IVE
1	EA	PULL PLATE	8305 8" 3.5" X 15"	630	IVE
1	EA	SURFACE CLOSER	1450PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE

1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET # 09 - VAULT

DOORS #
129

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	MA561B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER

FIRE RATED

HARDWARE SET # 10 - OFFICE

DOORS #
127 133

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE LOCK	MA571B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET # 11 - TOILET

DOORS #
121

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	MA311 SG	626	FAL
1	EA	SURFACE CLOSER	1450PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	COAT HOOK	582M	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET # 12 - MECHANICAL/ELECTRICAL

DOORS #
115 136 114

EACH TO HAVE:

6	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
2	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	MA581B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	STRIKE ASTRAGAL	43SP-DOOR HEIGHT	SP	ZER
2	EA	SILENCER	SR64	GRY	IVE

BUILDINGS A, B & C

HARDWARE SET # 13 - EXTERIOR

DOORS #
A119A B112A C112B C132A

EACH TO HAVE:

2	EA	CONTINUOUS HINGE	SL11HD RP-DOOR HEIGHT	628	SEL
1	EA	ELEC PANIC HARDWARE	EL-HH-HD-3347A-DT-338	628	VON
1	EA	ELEC PANIC HARDWARE	EL-HH-HD-3347A-NL-338	628	VON
1	EA	MORTISE CYLINDER	C987	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
2	EA	SURFACE CLOSER	4050 SCUSH	689	LCN
2	EA	MOUNTING PLATE	4050-18PA	689	LCN
2	EA	SHOE SUPPORT	4050-30	689	LCN
2	EA	STOP SPACER	4050-61	689	LCN
2	EA	DOOR BOTTOM	50MA-DOOR WIDTH	A	ZER
1	EA	THRESHOLD	65A-FRAME WIDTH	A	ZER
1	EA	POWER SUPPLY	PS914 900-BBK 900-2RS	LGR	VON
		CRAD READER	PROVIDED BY SECURITY CONTRACTOR		
		WEATHER STRIP	PROVIDED BY THE DOOR MFG		

ACCESS CONTROLLED HURRICANE RATED

HARDWARE SET # 14 - VESTIBULE

DOORS #

A119B B105(OMIT) B112B C102 C112A C132B

EACH TO HAVE:

2	EA	CONT. HINGE	112HD-DOOR HEIGHT	628	IVE
2	EA	DUMMY PUSH BAR	330-DT	628	VON
2	EA	SURFACE CLOSER	4050 EDA	689	LCN
2	EA	MOUNTING PLATE	4050-18PA	689	LCN
2	EA	FLOOR STOP	FS410	626	IVE
2	EA	DOOR BOTTOM	50MA-DOOR WIDTH	A	ZER
		WEATHER STRIP	PROVIDED BY THE DOOR MFG		
		WEATHER STRIP	PROVIDED BY THE DOOR MFG		

INSTALL DOORS AS TO ALLOW THE MAXIMUM DEGREE OF DOOR SWING.

HARDWARE SET # 15 - RECEPTION

DOORS #

A106 A125 B114

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE LOCK	MA571B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450 REG	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER

FIRE RATED

HARDWARE SET # 16 - HALL

DOORS #

A122

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE LOCK	MA571B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER

FIRE RATED

HARDWARE SET # 17 - OFFICE

DOORS #

A101	A102	A103	A112	A113	A124
A126	A130	C118	C120A	C120B	C121A
C121B					

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE LOCK	MA571B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET # 18 - OFFICE & CONFERENCE

DOORS #

A117A	A117B	A123	B106	B115	B118
B119	B120	B121	B122	B123	B127
B128	C104	C114	A131(ADD)	C134(ADD)	

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE LOCK	MA571B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450 REG	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS410	626	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER

FIRE RATED

HARDWARE SET # 19 - STORAGE & MECHANICAL

DOORS #

A104	B117	B139	B143	C107	C115
C116	C119	C125	B144(ADD)		

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	MA581B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET # 20 - COPY, LOUNGE & RR VESTIBULE

DOORS #

A107	B103	B141	C108	C110

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	MA101 SG	626	FAL
1	EA	SURFACE CLOSER	1450 REG	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER

HARDWARE SET # 21 - FILE STORAGE

DOORS #

A110

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	MA581B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER

FIRE RATED

HARDWARE SET # 22 - STORAGE & ELECTRICAL

DOORS #

A127	A128	B125	B126	B132	C106
C129	B145(ADD)				

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	MA581B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450 REG	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER

FIRE RATED

HARDWARE SET # 23 - MECHANICAL

DOORS #
A129 B104 C131(SINGLE) B146(ADD)

EACH TO HAVE:

6	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
2	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	MA581B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	SURFACE CLOSER	1450 REG	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
2	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER
1	EA	ASTRAGAL	44STST-DOOR HEIGHT	STST	ZER

INSTALL ASTRAGAL ON THE PUSH SIDE OF THE INACTIVE DOOR LEAF

HARDWARE SET # 24 - EXTERIOR

DOORS #
B102B

EACH TO HAVE:

1	EA	CONTINUOUS HINGE	SL11HD RP-DOOR HEIGHT	628	SEL
1	EA	ELEC PANIC HARDWARE	EL-HH-HD-33A-NL	628	VON
	EA	RIM HOUSING	C953	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	4050 SCUSH	689	LCN
1	EA	MOUNTING PLATE	4050-18PA	689	LCN
1	EA	SHOE SUPPORT	4050-30	689	LCN
1	EA	STOP SPACER	4050-61	689	LCN
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	DOOR BOTTOM	50MA-DOOR WIDTH	A	ZER
1	EA	THRESHOLD	65A-FRAME WIDTH	A	ZER
1	EA	POWER SUPPLY	PS914 900-BBK 900-2RS	LGR	VON
		CRAD READER	PROVIDED BY SECURITY CONTRACTOR		
		WEATHER STRIP	PROVIDED BY THE DOOR MFG		

ACCESS CONTROLLED HURRICANE RATED

HARDWARE SET # 25 - VESTIBULE

DOORS #
B102A

EACH TO HAVE:

1	EA	CONT. HINGE	112HD-DOOR HEIGHT	628	IVE
1	EA	DUMMY PUSH BAR	330-DT	628	VON
1	EA	SURFACE CLOSER	4050 EDA	689	LCN
1	EA	MOUNTING PLATE	4050-18PA	689	LCN
1	EA	FLOOR STOP	FS410	626	IVE
		WEATHER STRIP	PROVIDED BY THE DOOR MFG		

INSTALL DOOR AS TO ALLOW THE MAXIMUM DEGREE OF DOOR SWING.

HARDWARE SET # 26 - HALL

DOORS #
B109

EACH TO HAVE:

2	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 TW8	652	IVE
1	EA	EU STOREROOM LOCK	MA881B-24VRX SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER
1	EA	REMOTE RELEASE	660-PB	628	SCE
1	EA	SHARED POWER SUPPLY	PS904 900-BBK 900-4R	LGR	SCE
		CRAD READER	PROVIDED BY SECURITY CONTRACTOR		

ACCESS CONTROLLED & REMOTE RELEASE

HARDWARE SET # 27 - HALL

DOORS #
B133

EACH TO HAVE:

2	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE

1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 TW8	652	IVE
1	EA	EU STOREROOM LOCK	MA881B-24VRX SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER
1	EA	REMOTE RELEASE	660-PB	628	SCE
		CRAD READER	PROVIDED BY SECURITY CONTRACTOR		

ACCESS CONTROLLED & REMOTE RELEASE

HARDWARE SET # 28 - JANITOR

DOORS #
B134

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	MA581B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	1450 REG	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS410	626	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER

FIRE RATED

HARDWARE SET # 29 - RR VESTIBULE

DOORS #
B137 C103 C130

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	MA101 SG	626	FAL
1	EA	SURFACE CLOSER	1450 REG	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS410	626	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER

HARDWARE SET # 30 - MEN & WOMEN

DOORS #
B140 B142

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PUSH PLATE	8200 8" X 16"	630	IVE
1	EA	PULL PLATE	8305 8" 3.5" X 15"	630	IVE
1	EA	SURFACE CLOSER	1450 REG	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET # 31 - UNISEX

DOORS #
B131

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	MA311 SG	626	FAL
1	EA	SURFACE CLOSER	1450PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER
1	EA	COAT HOOK	582M	626	IVE

HARDWARE SET # 32 - PRIVATE TOILET

DOORS #
C105 C117

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	MA311 SG	626	FAL
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	COAT HOOK	582M	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET # 33 - STORAGE

DOORS #
C123 (SAME AS 124)

EACH TO HAVE:

4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE

2	EA	ROLLER CATCH	336	626	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

HARDWARE SET # 34 - STORAGE/COMMUNICATION

DOORS #
C124

EACH TO HAVE:

6	EA	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
2	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	MA581B SG	626	FAL
1	EA	SFIC CONST. CORE	C607CCA		FAL
1	EA	SFIC CORE	C607	626	FAL
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	ASTRAGAL	44STST-DOOR HEIGHT	STST	ZER
2	EA	SILENCER	SR64	GRY	IVE

INSTALL ASTRAGAL ON PUSH SIDE OF INACTIVE DOOR LEAF

HARDWARE SET # 35 - BOARD ROOM

DOORS #
C122

EACH TO HAVE:

6	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
2	EA	FIRE EXIT HARDWARE	9927-L-F-LBR-03-499F-SNB	628	VON
2	EA	RIM HOUSING	C953	626	FAL
2	EA	SFIC CONST. CORE	C607CCA		FAL
2	EA	SFIC CORE	C607	626	FAL
2	EA	SURFACE CLOSER	1450 SCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	SMOKE GASKETING	488S-BK-HEAD & JAMBS	S-BK	ZER

HARDWARE SET # 36 - BOARD ROOM

DOORS #
C132C

EACH TO HAVE:

6	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
2	EA	PANIC HARDWARE	9927-L-LBR-03-499F-SNB	628	VON

2	EA	RIM HOUSING	C953	626	FAL
2	EA	SFIC CONST. CORE	C607CCA		FAL
2	EA	SFIC CORE	C607	626	FAL
2	EA	SURFACE CLOSER	1450 SHCUSH	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

END OF SECTION

Quantity Summary

(Door Hardware Vendor shall verify with floor plans that each door has appropriate door hardware for each door specified, including quantity for each. Reference Aluminum Storefront and curtain Wall systems for additional door hardware)

Mfr	Qty - Verify Qty. with Floor Plan	U/M	Description	Catalog Number	Finish
	0		**CRAD READER**	**PROVIDED BY SECURITY CONTRACTOR**	
	0		**WEATHER STRIP**	**PROVIDED BY THE DOOR MFG**	
FAL	**86**	**EA**	**SFIC CORE**	**C607**	**626**
FAL	**86**	**EA**	**SFIC CONST. CORE**	**C607CCA**	
FAL	**6**	**EA**	**RIM HOUSING**	**C953**	**626**
FAL	**4**	**EA**	**MORTISE CYLINDER**	**C987**	**626**
FAL	**8**	**EA**	**PASSAGE SET**	**MA101 SG**	**626**
FAL	**4**	**EA**	**PRIVACY LOCK**	**MA311 SG**	**626**
FAL	**1**	**EA**	**CLASSROOM LOCK**	**MA561B SG**	**626**
FAL	**35**	**EA**	**DORMITORY/EXIT LOCK**	**MA571B SG**	**626**
FAL	**34**	**EA**	**STOREROOM LOCK**	**MA581B SG**	**626**
FAL	**5**	**EA**	**EU STOREROOM LOCK**	**MA881B-24VRX SG**	**626**
IVE	**13**	**EA**	**CONT. HINGE**	**112HD**	**628**

Mfr	Qty - Verify Qty. with Floor Plan	U/M	Description	Catalog Number	Finish
IVE	**2**	**EA**	**ROLLER CATCH**	**336**	**626**
IVE	**4**	**EA**	**COAT AND HAT HOOK**	**582**	**626**
IVE	**190**	**EA**	**HINGE**	**5BB1 4.5 X 4.5**	**652**
IVE	**69**	**EA**	**HINGE**	**5BB1 4.5 X 4.5 NRP**	**652**
IVE	**3**	**EA**	**ELECTRIC HINGE**	**5BB1 4.5 X 4.5 TW8**	**652**
IVE	**24**	**EA**	**HW HINGE**	**5BB1HW 4.5 X 4.5**	**652**
IVE	**18**	**EA**	**HW HINGE**	**5BB1HW 4.5 X 4.5 NRP**	**652**
IVE	**1**	**EA**	**DOOR VIEWER**	**698**	**626**
IVE	**6**	**EA**	**PUSH PLATE**	**8200 8" X 16"**	**630**
IVE	**6**	**EA**	**PULL PLATE**	**8305 8" 3.5" X 15"**	**630**
IVE	**62**	**EA**	**KICK PLATE**	**8400 10" X 2" LDW B4E**	**630**
IVE	**5**	**EA**	**COORDINATOR**	**COR X FL**	**628**
IVE	**5**	**EA**	**DUST PROOF STRIKE**	**DP2**	**626**
IVE	**10**	**EA**	**MANUAL FLUSH BOLT**	**FB458**	**626**
IVE	**7**	**EA**	**FLOOR STOP**	**FS18S**	**BLK**
IVE	**32**	**EA**	**FLOOR STOP**	**FS410**	**626**
IVE	**2**	**EA**	**LOCK GUARD**	**LG12**	**630**

Mfr	Qty - Verify Qty. with Floor Plan	U/M	Description	Catalog Number	Finish
IVE	**143**	**EA**	**SILENCER**	**SR64**	**GRY**
IVE	**4**	**EA**	**DOOR VIEWER**	**U698**	**626**
IVE	**72**	**EA**	**WALL STOP**	**WS406/407CCV**	**630**
LCN	**43**	**EA**	**SURFACE CLOSER**	**1450 REG OR PA AS REQ**	**689**
LCN	**11**	**EA**	**SURFACE CLOSER**	**1450 RW/PA**	**689**
LCN	**3**	**EA**	**SURFACE CLOSER**	**1450 SCUSH**	**689**
LCN	**2**	**EA**	**SURFACE CLOSER**	**1450 SHCUSH**	**689**
LCN	**13**	**EA**	**SURFACE CLOSER**	**4050 EDA**	**689**
LCN	**14**	**EA**	**SURFACE CLOSER**	**4050 SCUSH**	**689**
LCN	**24**	**EA**	**PA MOUNTING PLATE**	**4050-18PA**	**689**
LCN	**11**	**EA**	**SOFFIT SHOE SUPPORT**	**4050-30**	**689**
LCN	**11**	**EA**	**BLADE STOP SPACER**	**4050-61**	**689**
SCE	**3**	**EA**	**DESK MOUNT BUTTON**	**660-PB**	**628**
SCE	**1**	**EA**	**POWER SUPPLY**	**PS902 900-BBK 900-4RL**	**LGR**
SCE	**2**	**EA**	**POWER SUPPLY**	**PS904 900-BBK 900-4R**	**LGR**
SEL	**14**	**EA**	**CONTINUOUS HINGE**	**SL11HD RP-DOOR HEIGHT**	**628**

Mfr	Qty - Verify Qty. with Floor Plan	U/M	Description	Catalog Number	Finish
STC	**3**	**EA**	**DOOR SWEEP**	**FAS-SEAL**	
STC	**3**	**SET**	**WEATHER STRIPPING**	**PS-074**	
VON	**13**	**EA**	**DUMMY PUSH BAR**	**330-DT**	**628**
VON	**2**	**EA**	**FIRE EXIT HARDWARE**	**9927-L-F-LBR-03-499F-SNB**	**628**
VON	**2**	**EA**	**PANIC HARDWARE**	**9927-L-LBR-03-499F-SNB**	**628**
VON	**4**	**EA**	**ELEC PANIC HARDWARE**	**EL-HH-HD-3347A-DT-338**	**628**
VON	**4**	**EA**	**ELEC PANIC HARDWARE**	**EL-HH-HD-3347A-NL-338**	**628**
VON	**1**	**EA**	**ELEC PANIC HARDWARE**	**EL-HH-HD-33A-NL**	**628**
VON	**1**	**EA**	**ELEC PANIC HARDWARE**	**EL-HH-HD-9947-DT**	**628**
VON	**1**	**EA**	**ELEC PANIC HARDWARE**	**EL-HH-HD-9947-NL**	**628**
VON	**1**	**EA**	**ELEC PANIC HARDWARE**	**EL-HH-HD-99-NL**	**628**
VON	**7**	**EA**	**POWER SUPPLY**	**PS914 900-BBK 900-2RS**	**LGR**
ZER	**3**	**EA**	**RAIN DRIP**	**142A**	**A**
ZER	**1**	**EA**	**MEETING STILE**	**43SP**	**SP**

Mfr	Qty - Verify Qty. with Floor Plan	U/M	Description	Catalog Number	Finish
ZER	**4**	**EA**	**MEETING STILE**	**44STST**	**STST**
ZER	**45**	**EA**	**GASKETING**	**488S-BK**	**S-Bk**
ZER	**23**	**EA**	**DOOR SWEEP**	**50MA**	**A**
ZER	**4**	**EA**	**THRESHOLD**	**566A-MSLA-10**	**A**
ZER	**5**	**EA**	**THRESHOLD**	**65A-MSLA-10**	**A**

DRY ERASE – ERASE-RITE WALL – WALL TALKERS BY KOROSEAL

erase•rite® Specifications

Physical Properties

	U.S. Units	Metric Units
Roll Width	59/60" 49/50"	150/152 cm 124/127 cm
Laminate Thickness	17 mils (avg.)	0.43 mm (avg.)
Tensile (warp x fill)	75 x 75 lbs.	334 x 334 newton

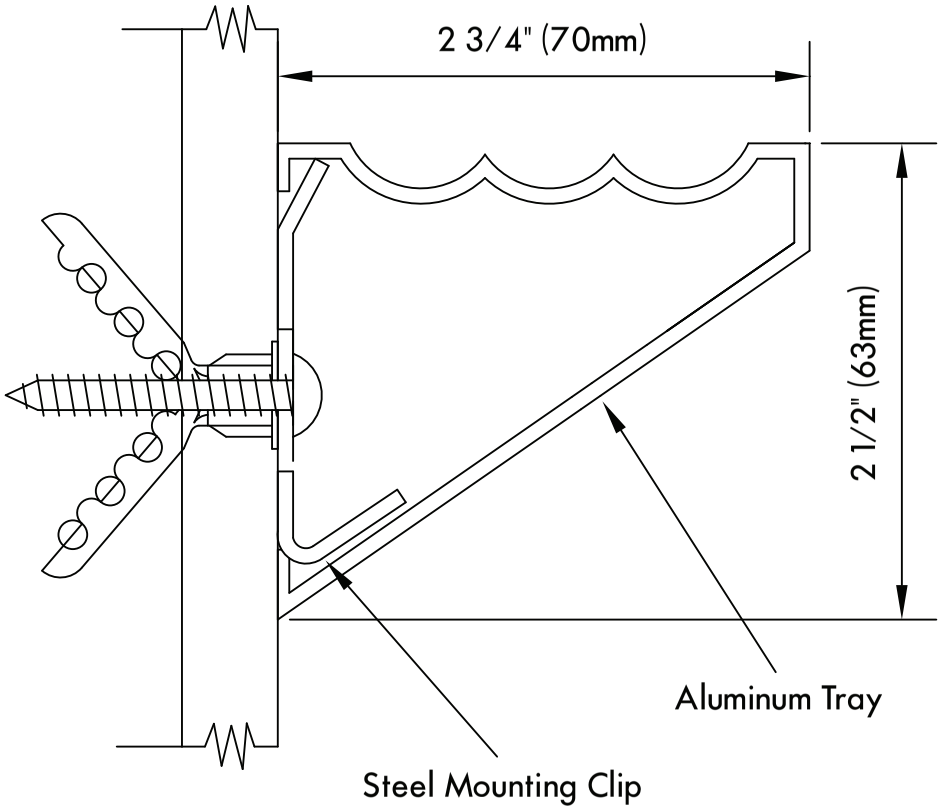
Fabric: Non-Woven or Adhesive (50" only)

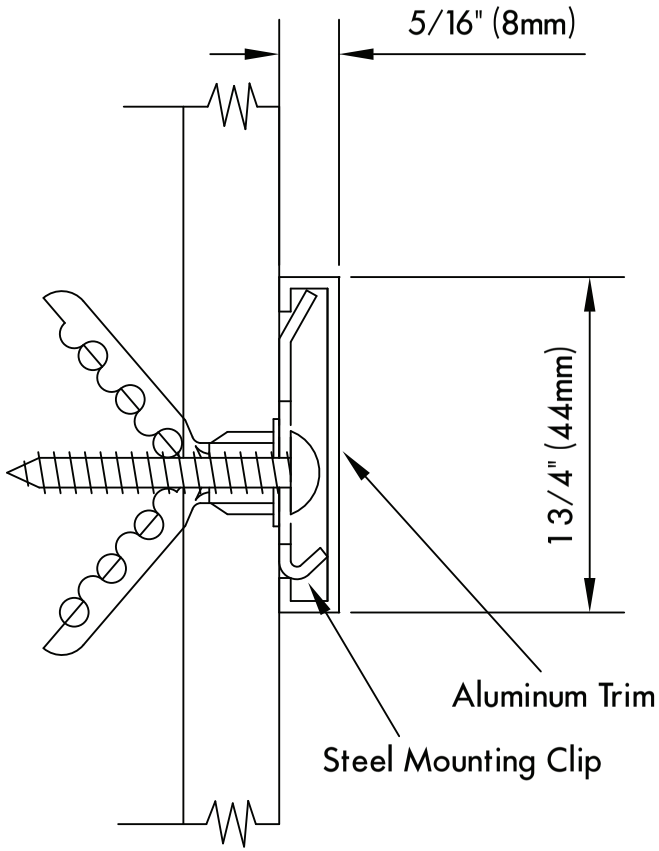
Flammability Testing Class A*: Pass

*Tested to ASTM E-84 applied to Glass Reinforced Cement Board.

Product Name	Color	Use	Surface Gloss	Backing	Product Code
erase•rite®	choose from 6 matte colors	projection screen dry erase writing	low	non-woven or adhesive	EA50 or ER50 (white only) ER60 (color name)

Note: This product meets California Indoor Air Quality Specifications 01350.


2 3/4" (70mm)
2 1/2" (63mm)
Aluminum Tray
Steel Mounting Clip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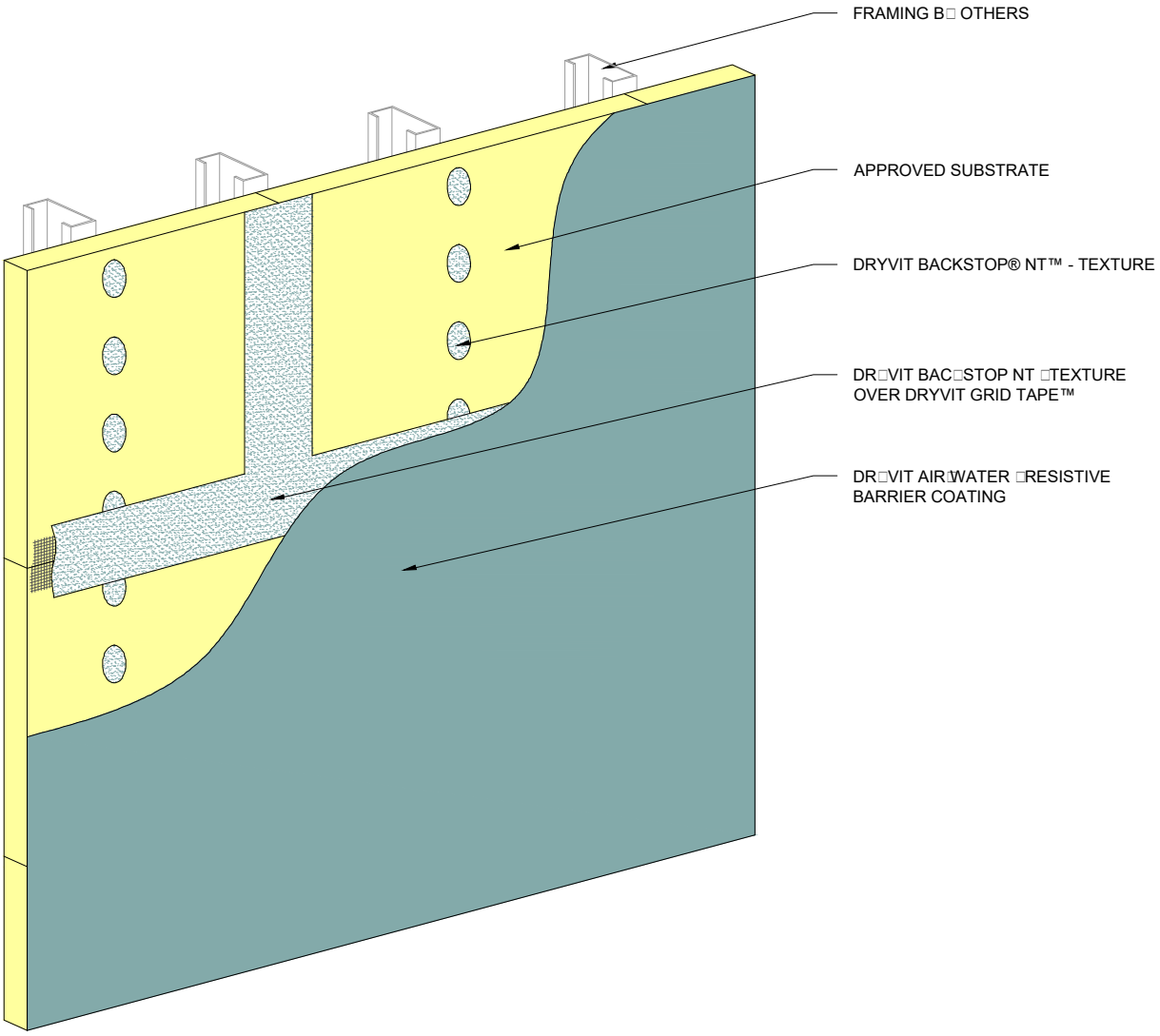
13/4" (44mm)
Aluminum Trim
Steel Mounting Clip



Outsulation® Plus MD System®

AWRB A□□□□□□□□□

NOTE□
□□FOR ADDITIONAL AIR□WATER□RESISTIVE BARRIER DETAILS, REFER TO DR□VIT PUBLICATION DS□□□□

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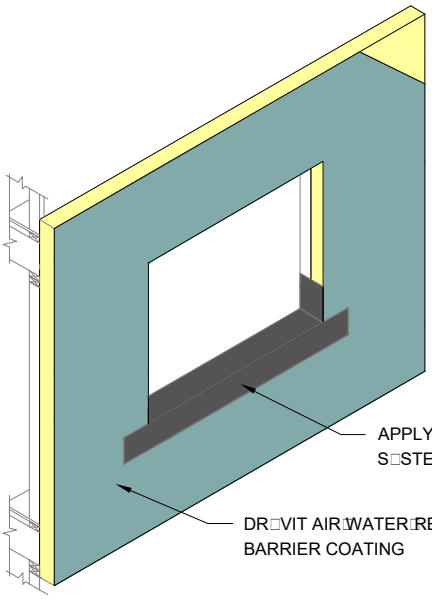

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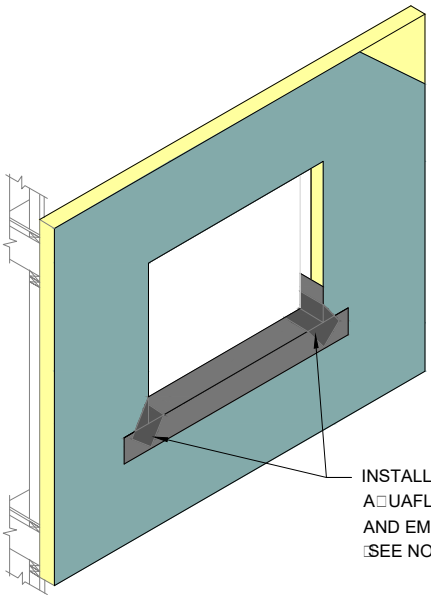

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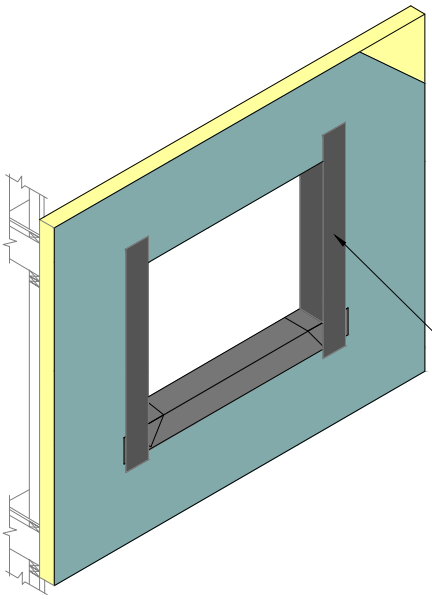

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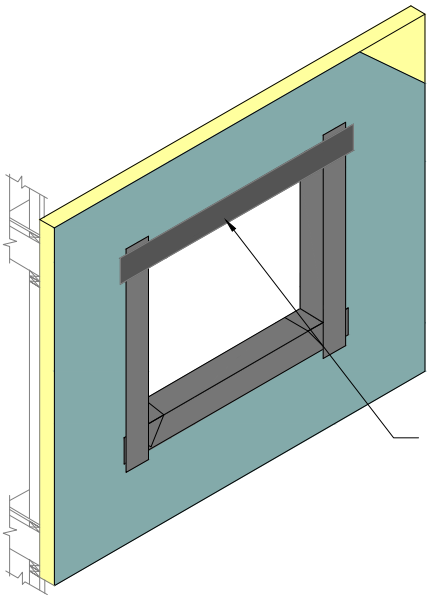

STEP #4

Outsulation® Plus MD System®

O□□□□□□ Pr□□□r□□□□ □ AquaFlash® System[5] Option

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NOTE□
□□DR□VIT A□UAFLASH SHALL EXTEND TO INTERIOR FACE OF OPENING□

□□REFER TO HEAD, SILL AND □AMB DETAILS FOR FLASHING INTEGRATION□

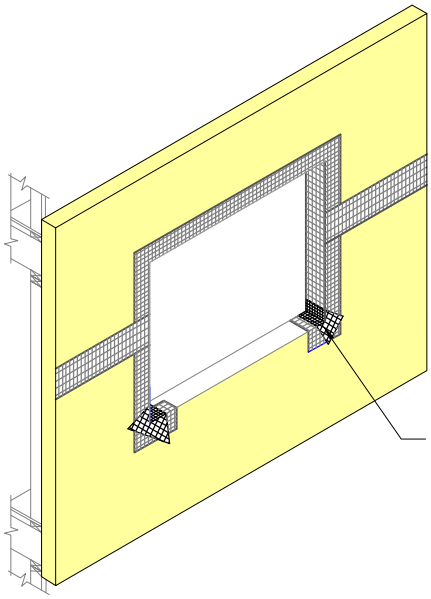
□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MA□ BE USED IN LIEU OF DR□VIT A□UAFLASH S□STEM□

□□INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS PER MANUFACTURER'S RECOMMENDATIONS, CODE RE□UIREMENTS AND PRO□ECT DOCUMENTS□

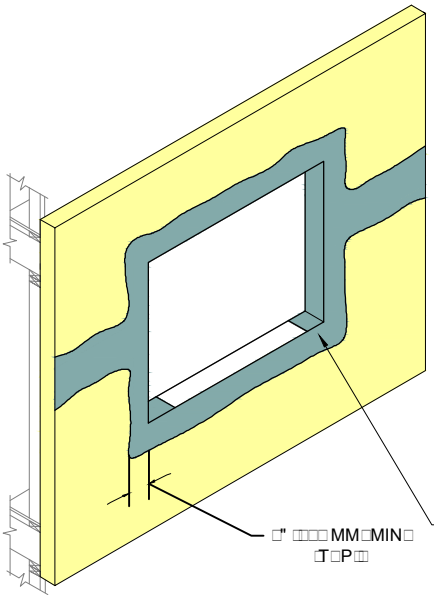
□□A□UAFLASH S□STEM CONSISTS OF A□UAFLASH MESH AND A□UAFLASH LI□UID□

□□FOR ADDITIONAL AIR□WATER□RESISTIVE BARRIER DETAILS, REFER TO DR□VIT PUBLICATION DS□□□□

dryvit®



STEP #1



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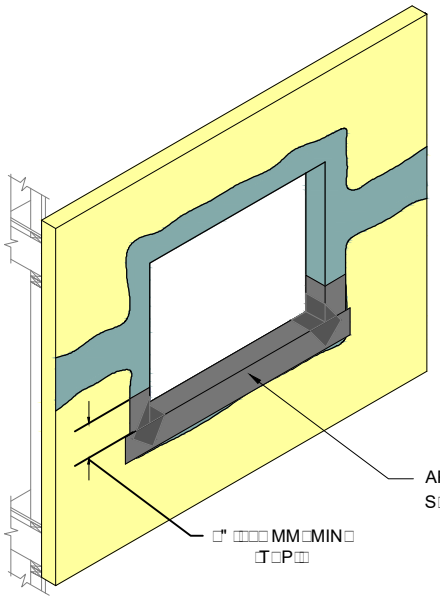
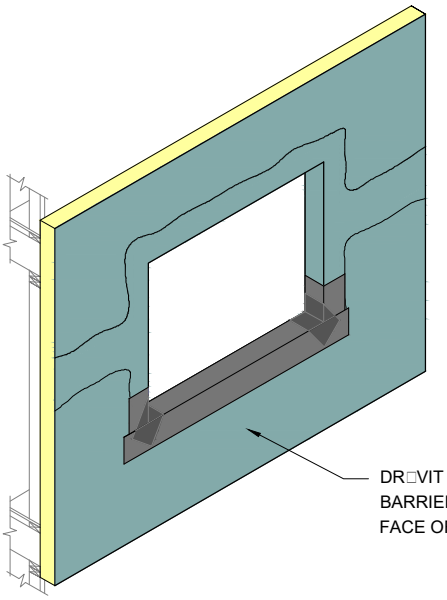


STEP #3



STEP #4

Outsulation® Plus MD System®

O□□□□□□ Pr□□□r□□□□ □
Backstop® NT™ O□□□□

NOTE□
□□APPL□ DR□VIT GRID TAPE ON HEAD, □AMB, AND CORNERS OF OPENINGS AND SHEATHING □OINTS□

□□TROWEL APPL□ DR□VIT BAC□STOP NT□TEXTURE OVER THE DR□VIT GRID TAPE ALL THE WA□ TO INSIDE FACE OF OPENING□ALL VOIDS MUST BE FILLED□ MULTIPLE PASSES MA□ BE RE□UIRED□AS AN OPTION, DR□VIT GRID TAPE AND DR□VIT BAC□STOP NT□TEXTURE MA□ ALSO BE APPLIED AT THE SILL PRIOR TO DR□VIT A□UAFLASH S□STEM OR FLASHING TAPE APPLICATION□

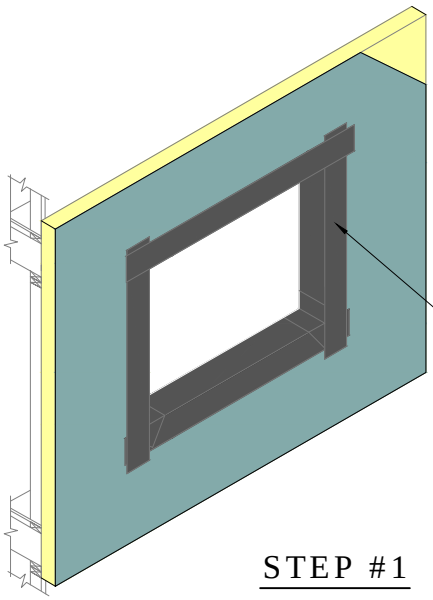
3. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DR□VIT A□UAFLASH S□STEM AT SILL, INCLUDING CORNER SPLICES□

□□INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS PER MANUFACTURER'S RECOMMENDATIONS, CODE RE□UIREMENTS AND PRO□ECT DOCUMENTS□

□□REFER TO HEAD, SILL, AND □AMB DETAILS FOR FLASHING INTEGRATION□

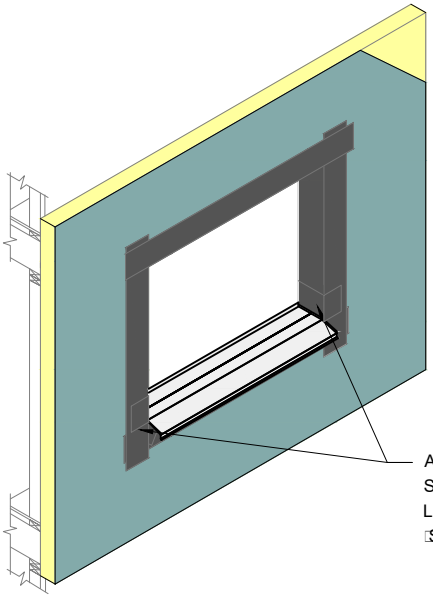
□□FOR ADDITIONAL AIR□WATER□RESISTIVE BARRIER DETAILS, REFER TO DR□VIT PUBLICATION DS□□□□

T□□ □r□□□□□□r□, □□□□□□r□□□, □□d d□□□□ □□□□ □r□□□□□□□□ □□□ Dr□□□r□d□□□ □ □□ r□□□□□□□□□□ □□□□ □r□□□□d□□□□ r□□□□□□□□A□□□□□□ □ □ □□□□□□ □□ □ □□ □□□□□□□d□□ □□d□□ □□d □□□d□rd□□T□□d□□□□□ □r □□□□r□□□□r□ □□□□ □□d □□d□□□□ □□□ □□d Dr□□□□□□□□□□d□□□□ □ □□□ □□□□□ □r □□□ □□□ □□□□d□□□□ □□d □r □□□ □r□□□□□r, d□□□□, □□□□□□r□□ □r □ □r□□ □□□□□ □□□□□ r□□□□T□□ □r□□□□d□□□□ □r□□□□□□□□d□r□ □□□, □□ □□ □□□ d□r□□□□, □□□□□r □□□d□□□□r □ □□□□□□□□□□ □□□□□□□□□d□□□□□ □□□□□□□d □r □□ □r□□□□U□□ □□□ □□□□□□□□□ □□□□□□□□d□□□d□□□ □□□□□□□□ Dr□□□□ □ □rr□□□□T□□ d□□□ □□□□□□ □□□□□□ □ □□□□□ □□□□□C□□□□□Dr□□□□ □□□r□ □□□ □□□□ □□□ □ □□□r□□□□□□r□□□□



REFER TO OPMD □□□□□□, AND OPMD □□□□□□ FOR PREPARATION OF OPENING PRIOR TO FLASHING INSTALLATION

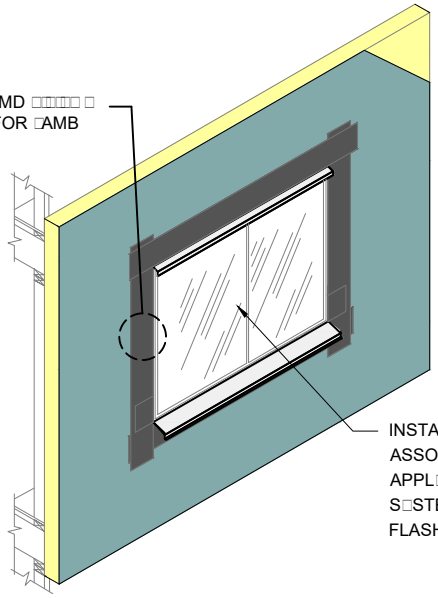
STEP #1



APPLY DRYVIT AQUAFLASH® S□STEM SPLICES LAPPING OVER LIP OF SILL PAN FLASHING□ □SEE NOTES □ AND □□

STEP #2

REFER TO OPMD □□□□□□ □ OPMD □□□□□□ FOR □AMB DETAIL



INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS AND APPL□ DR□VIT A□UAFLASH S□STEM OVER VERTICAL LEG OF FLASHING □SEE NOTES □ AND □□

STEP #3

Outsulation® Plus MD System®

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NOTE□
□□REFER TO OPMD □□□□□□ AND OPMD □□□□□□ FOR INTEGRATION OF FLASHING□

□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

□□FOR ADDITIONAL AIR□WATER□RESISTIVE BARRIER DETAILS, REFER TO DR□VIT PUBLICATION DS□□□□

T□□ □r□□□□□□□r□, □□□□□□□r□□□, □□d d□□□□ □□□□□ □r□□□□□□□□□ □□□ Dr□□□□r□d □□□□ □□ □□□ r□□□□□□□□□□□□ □□□□□ □r□□□□□d□□□□ □r□□□□□□□□□A□□□□□□□ □ □ □□□□□□ □□□ □ □□□ □□□□□□□d□□□ □□d□□ □□d □□□□d□rd□□T□□□d□□□□□□ □□r □□□□r□□□□□r□ □□□□□ □□d □□d□□□□ □□□□ □□d Dr□□□□□□□□□□□□□d□□□□□□ □ □□□□ □□□□□□□ □□r □□□□ □□□□ □□□□□□d□□□□□ □□d □□r □□□ □r□□□□□□□r□, d□□□□□, □□□□□□□r□□□ □r □ □r□□ □□□□□□ □□□□□ □r□□□□□T□□ □r□□□□d□□□□□ □r□□□□□□□□□d□□r□ □□□□, □□ □□□ □□□□ d□□r□□□□□, □ □□□□□r □□□□d□□□□□r □ □□□□□□□□□□□□ □□□□□□□□□□d□□□□□□ □□□□□□□□□d □□r □□□□ □r□□□□□U□□ □□□□ □□□□□□□□□□□□ □□□□□□□□□□d□□□□d□□□ □□□□□□□□□□ Dr□□□□□ □ □rr□□□□□T□□□d□□□□□□ □□□□□□□□□□ □□□□□□□ □ □□□□□□□ □□□□□□□C□□□□□□Dr□□□□□□ □□□□r□ □□□□ □□□□□ □□□□ □ □□□□r□□□□□□□r□□□□□

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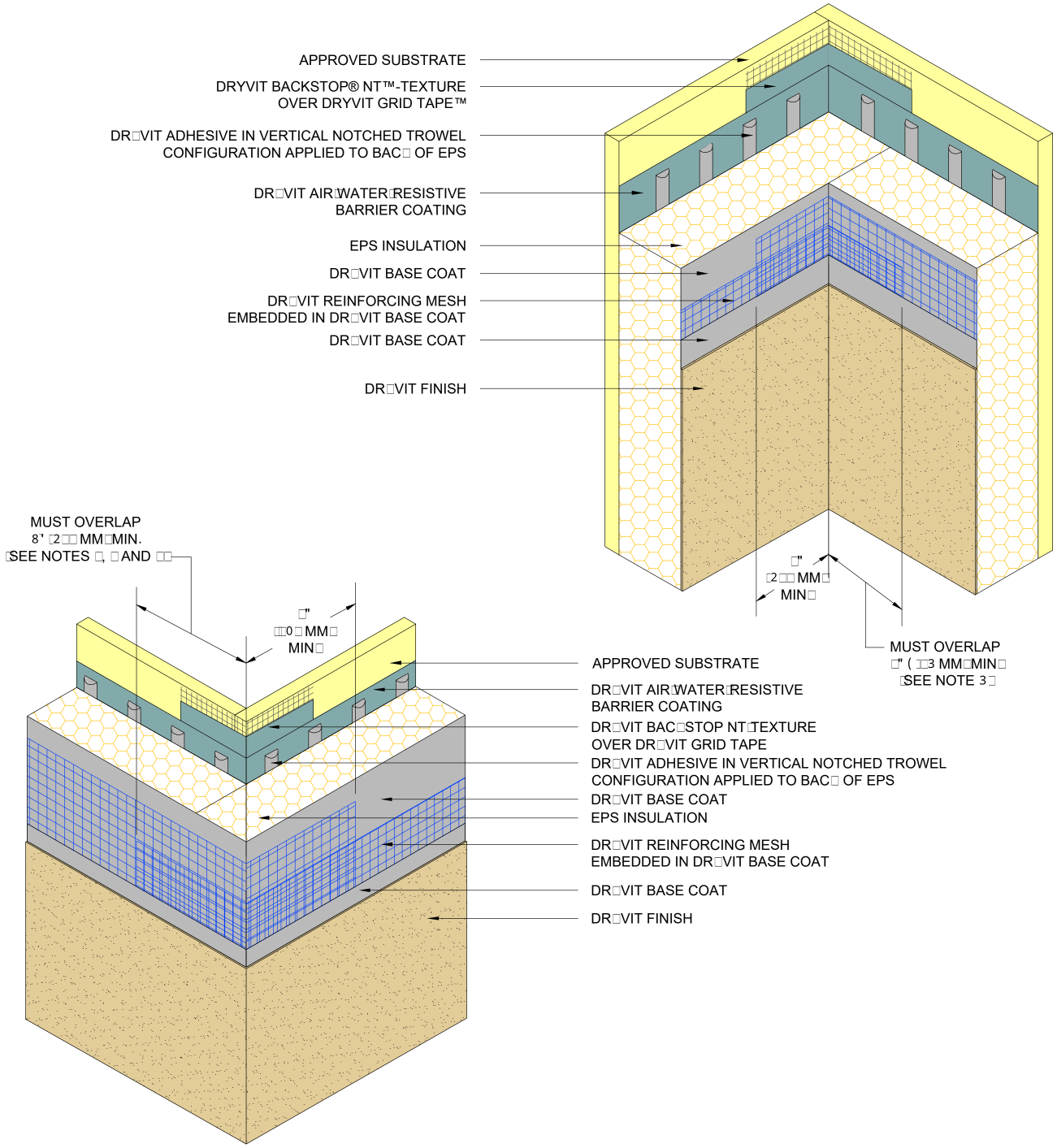


Outsulation® Plus MD System®

I□□d□□O□□□d□ C□r□□r□

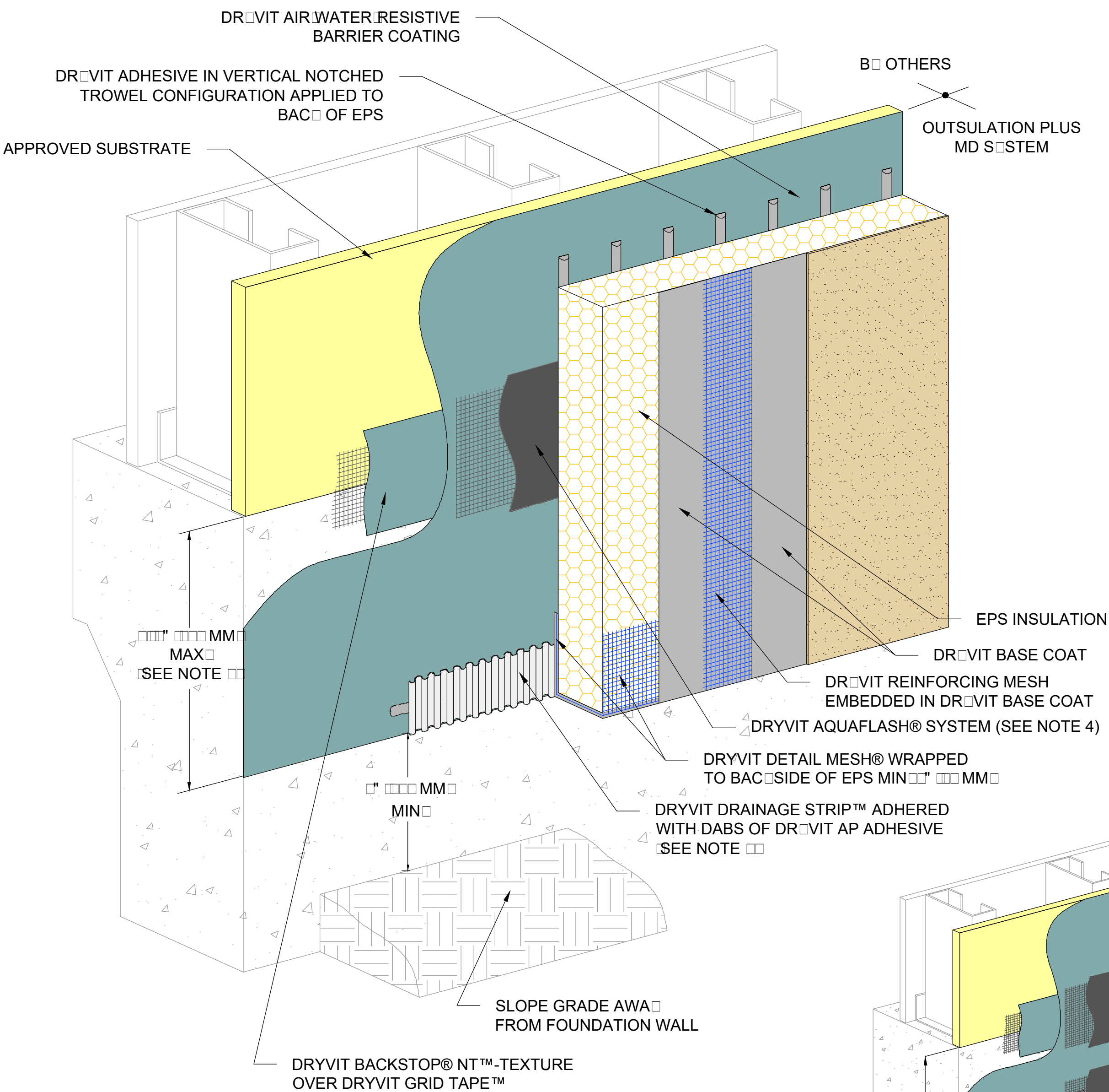
NOTE:
□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH□LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

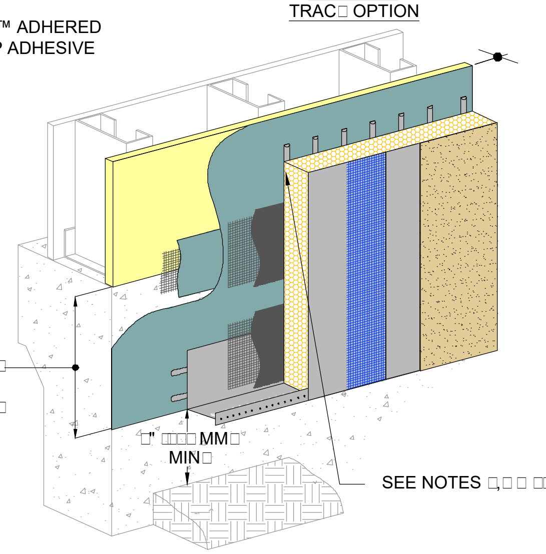
2. ƆOUBLE WRAP OUTSIDE CORNERS WITH REINFORCING MESH OR USE CORNER MESH□

3. ƆO NOT LAP REINFORCING MESH WITHIN 8' (□0□MM) OF A CORNER□

□. OUTSIDE INSULATION BOARD EDGES SHALL BE OFFSET.

T□□ □r□□□□□□r□, □□□□□□r□□□, □□d d□□□□ □□□□ □r□□□□□□□□ □□□ Dr□□□r□d□□□ □□ □□□ r□□□□□□□□□□□ □□□□ □r□□□□d□□□□ □r□□□□□□□. A□□□□□□ □ □ □□□□□ □□□ □ □□□ □□□□□□□d□□□ □□d□□ □□d □□□d□rd□□T□□ d□□□□□ □r □□□□r□□□□r□ □□□□ □□d □□d□□□□ □nly □□d Dr□□□□□□□□□□□d□□□□□ □ □□□ □□□□□□ □r □□□ □□□ □□□□□d□□□□ □□d □r □□r□□□□□r□, d□□□□, □□□□□r□□ □r □r□□ □□□□□ □□□□□ □r□□□. T□□ □r□□□d□□□□ □r□□□□□□□d□r□ □□□, □□ □□□ □□□ d□r□□□, □□□□r □□□d□□□r a □□□□□□□□ □□□□□□□d□□□□ □□□□□d □r □□□ □r□□□U□ □a □□□□□□□□ □□□□□□d□□d□□□ □□□□□□□ Dr□□□ □ □rr□□□T□□ d□□□□ □□□□□□ □□□□□□ □ □□□□□ □□□□□C□□□□Dr□□□ □□□r□ □□□ □□□□ □□□ □ □□r□□□□□r□□□





Outsulation® Plus MD System®

Grade Ter[illegible]

NOTES:

DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

EXPANSION JOINT IS REQUIRED ALONG TOP OF FOUNDATION IF [illegible] DIMENSION IS EXCEEDED.

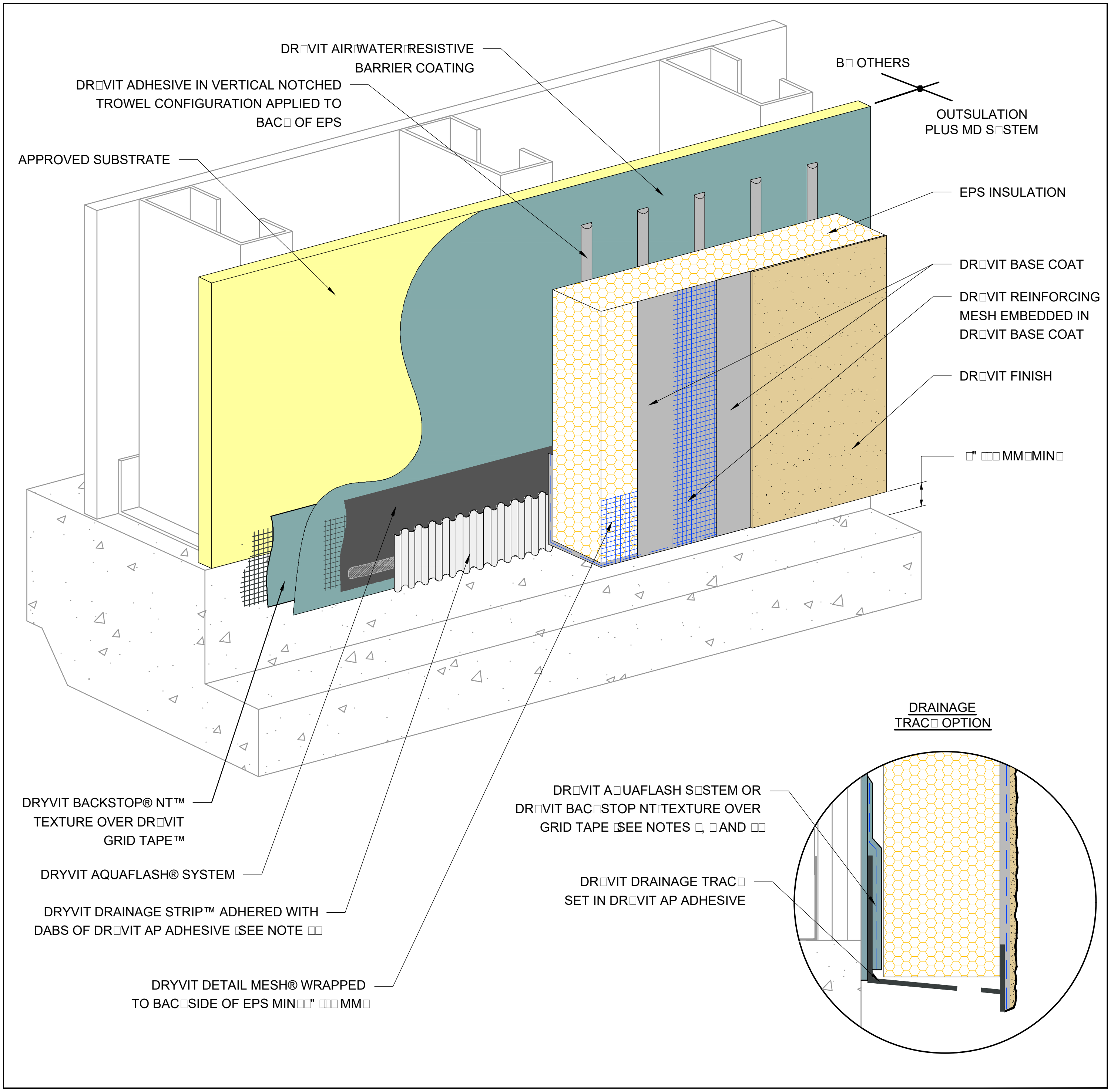
ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN.

DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT AQUAFLASH SYSTEM.

DRAINAGE TRACK USAGE IS LIMITED TO THE BASE OF THE SYSTEM AT FINISHED GRADE LEVEL.

LIGHTLY SAND SURFACE OF DRAINAGE TRACK TO MAXIMIZE ADHESION.

[illegible]



Outsulation® Plus MD System®

[illegible]

NOTE□

□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH□LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

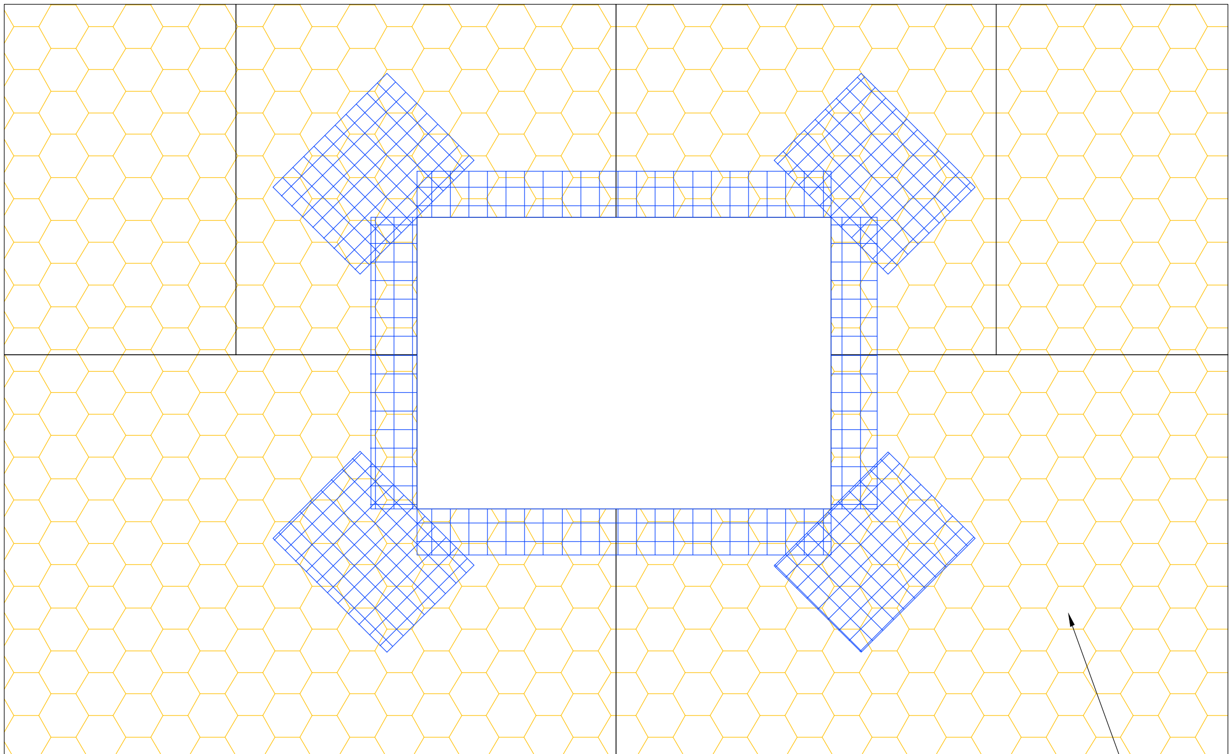
□□ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN□

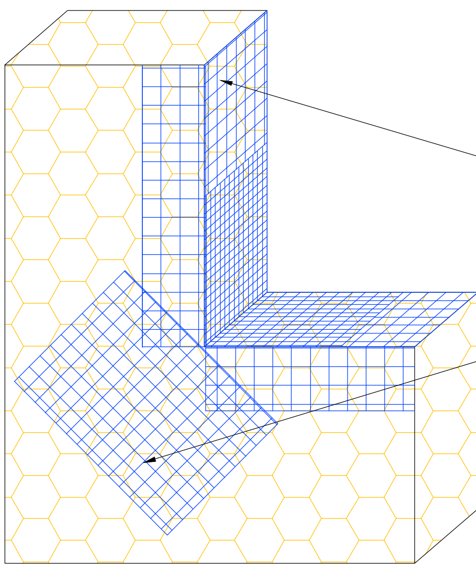
□□LIGHTL□ SAND SURFACE OF DRAINAGE TRAC□ TO MAXIMI□E ADHESION□

□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

□□DR□VIT DRAINAGE TRAC□ SHALL ONL□ BE USED AT GRADE LEVEL TERMINATIONS□

[illegible]





Outsulation® Plus MD System®

EPS Pr□□□r□□□□ A□W□□P□□□□r□□□□□

NOTE□

□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH□LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

□□APPL□ A PIECE OF □ □□□" □□□□ MM□X □□" □□□□ MM□DETAIL REINFORCING MESH DIAGONALL□ AT EACH CORNER□

□□LOCATE INSULATION BOARDS SUCH THAT BOARD EDGES DO NOT ALIGN WITH CORNERS OF PENETRATION□

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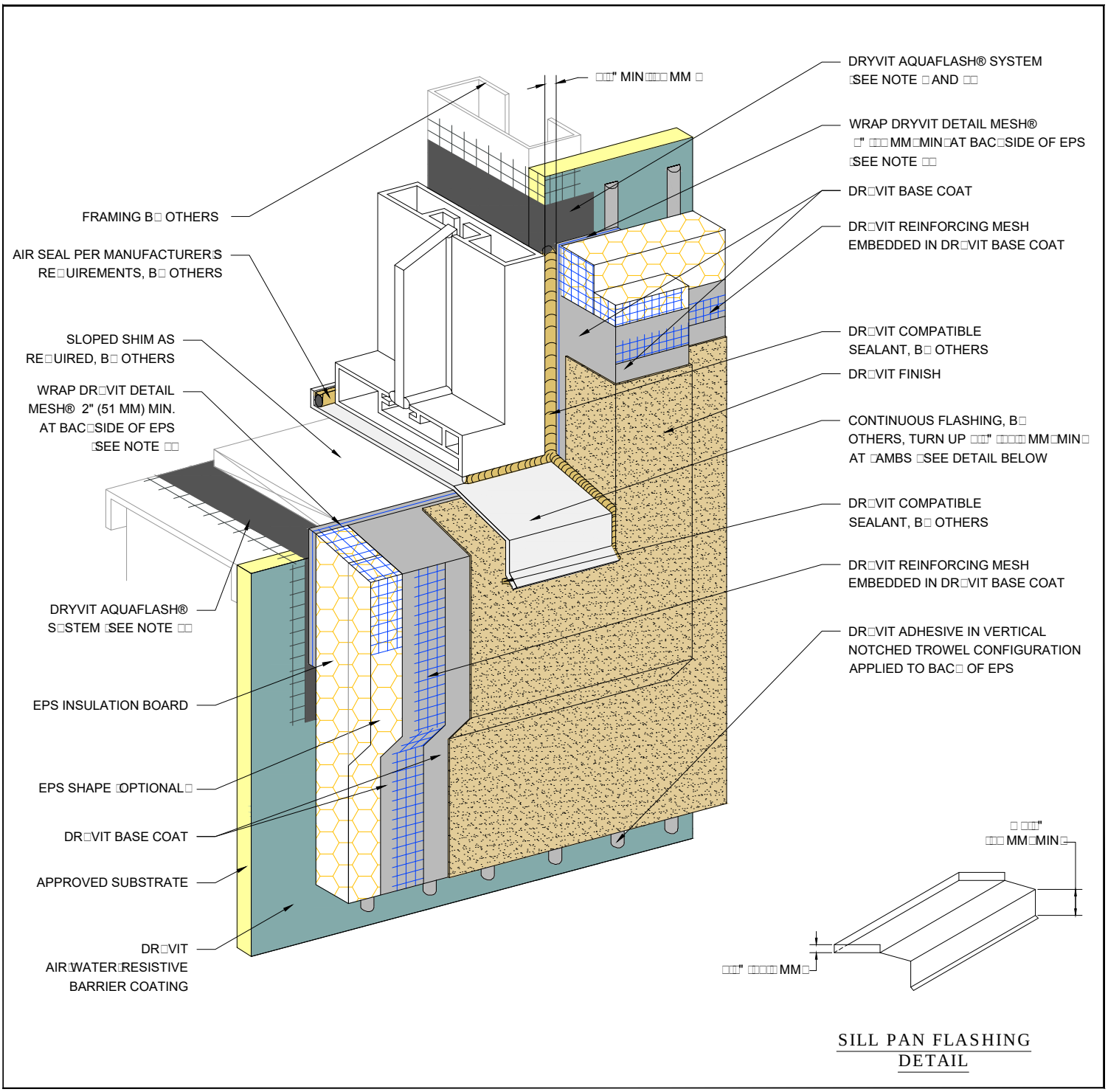

SILL PAN FLASHING DETAIL

Outsulation® Plus MD System®

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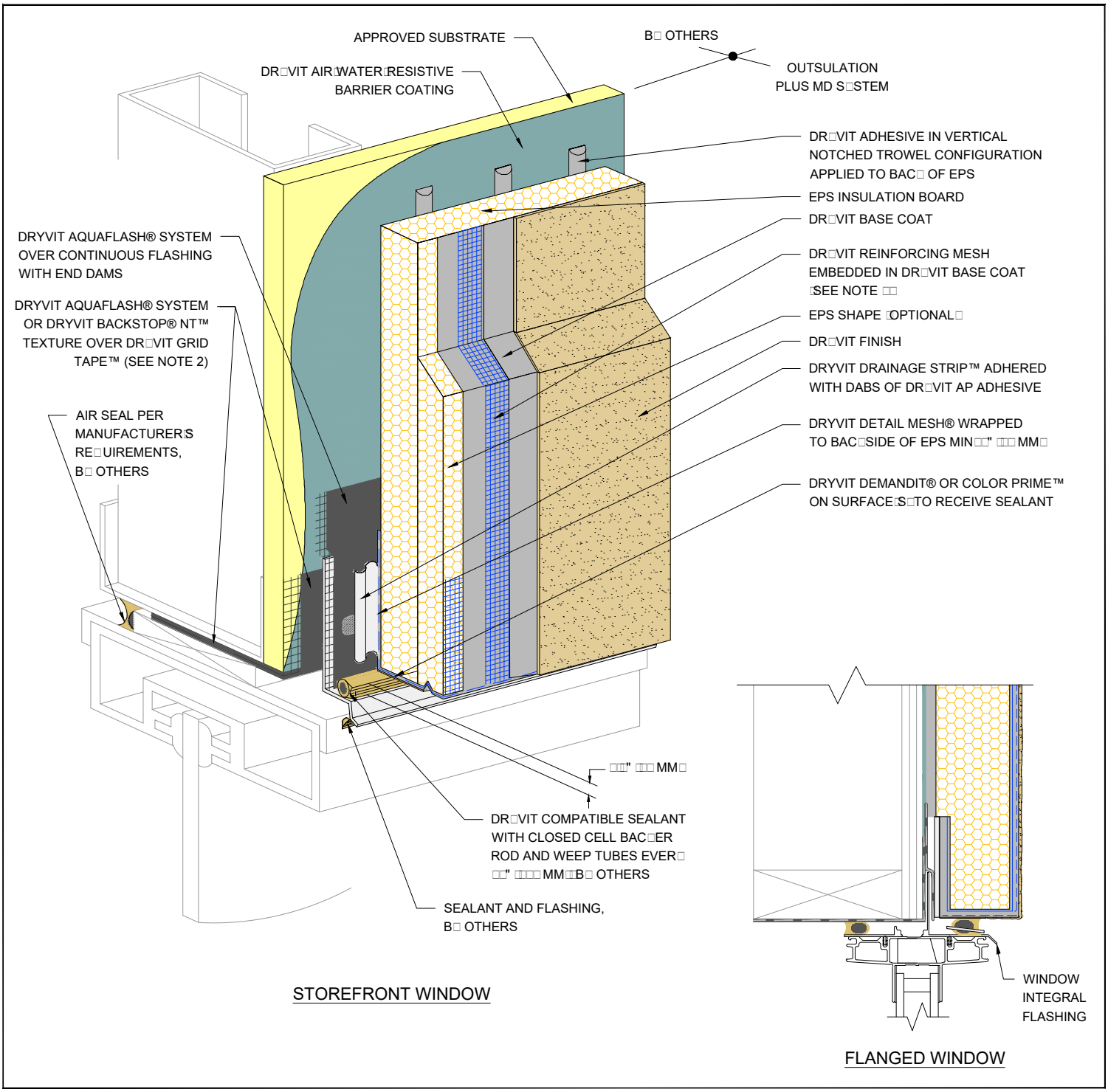
NOTE□
□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH□LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

3. DRYVIT BACKSTOP® NT-TEXTURE OVER GRID TAPE™ IS AN ALTERNATIVE OPTION AT □AMB AND HEAD CONDITION PER DETAIL OPMD □□□□□□

□□EDGE WRAPPING METHOD IS ACCEPTABLE AT SILL AND □AMB IN LIEU OF BAC□ WRAPPING□DR□VIT REINFORCING MESH MUST BE FULL□ EMBEDDED IN DR□VIT BASE COAT AT EPS EDGE AND MUST EXTEND ONTO SUBSTRATE □" □□□MM□MIN□

T□□ □r□□□□□□r□, □□□□□□r□□□, □□d d□□□□ □□□□ □r□□□□□□□□ □□□ Dr□□□r□d□□□ □ □□ r□□□□□□□□□□ □□□□ □r□□□□d□□□□ □r□□□□□□□A□□□□□□ □ □ □□□□□ □□ □ □□ □□□□□□□d□□ □□d□□ □□d □□□d□rd□□T□□d□□□□□□ □r □□□r□□□□r□ □□□□ □□d □□d□□□ □□□ □□d Dr□□□□□□□□□□□d□□□□ □ □□□ □□□□□ □r □□□ □□□ □□□□d□□□□□d □r □□□ r□□□□□r□, d□□□□, □□□□□r□□ □r □r□□ □□□□ □□□□ □r□□□□T□□ □r□□□d□□□□ r□□□□□□□□d□r□ □□□, □□ □□ □□□ d□r□□□, □ □□□□r □□□ d□□□r □ □□□□□□□□ □□□□□□□□d□□□ □□□□□□□d □r □□□ r□□□U□□ □□□ □□□□□□□□□ □□□□□□□d□□□d□□ □□□□□□□□ Dr□□□ □rr□□□T□□d□□□□□ □□□□□□ □ □□□□□□□□□ C□□□□Dr□□□ □□r□ □□□ □□□ □□ □ □r□□□□□r□□□



Outsulation® Plus MD System®

S□r□r□□□□□d F□□□□d W□d□□ H□□d

NOTE□
□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH□LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DR□VIT A□UAFLASH S□STEM□

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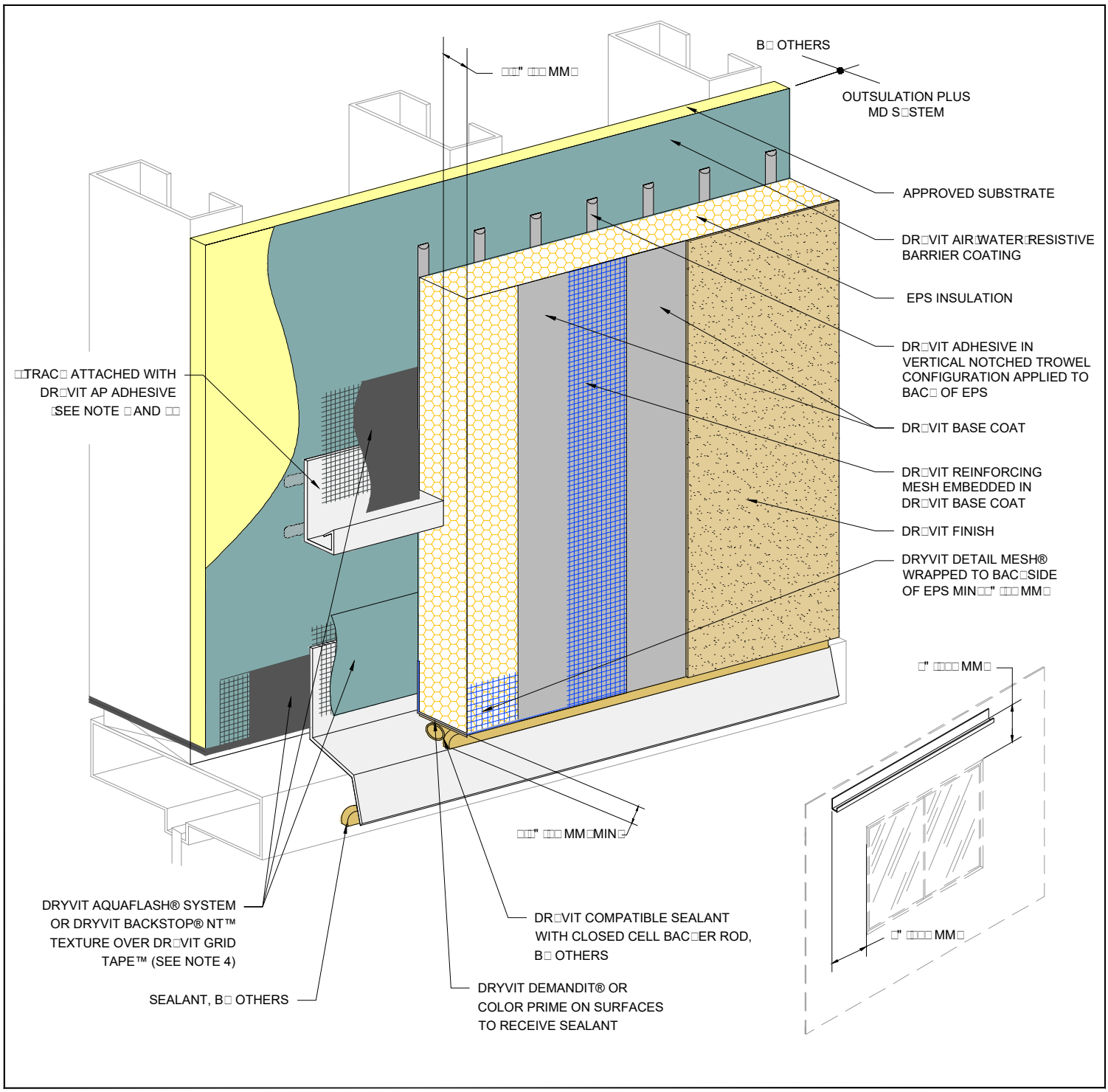

Outsulation® Plus MD System®

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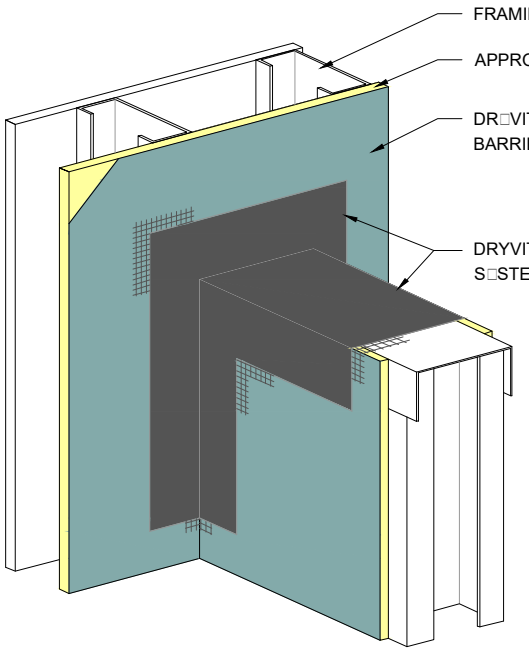
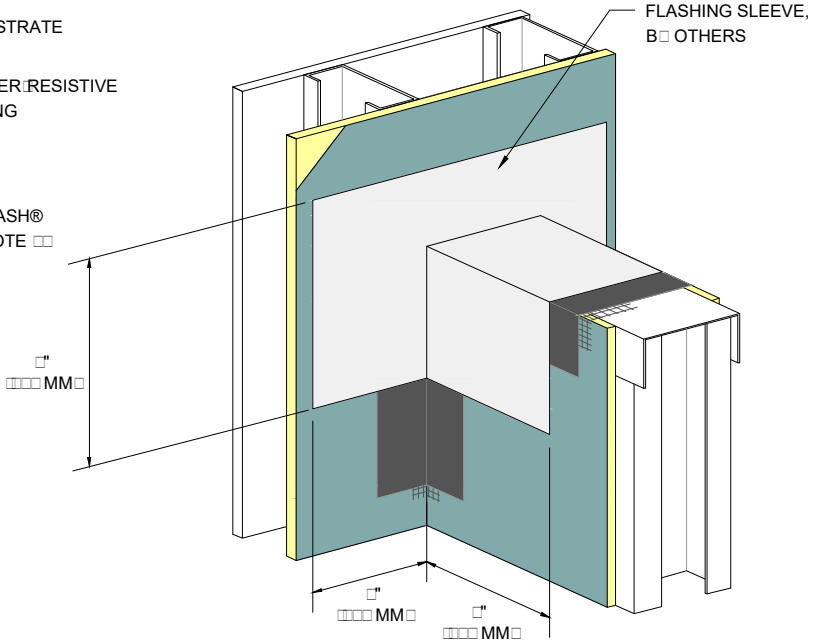
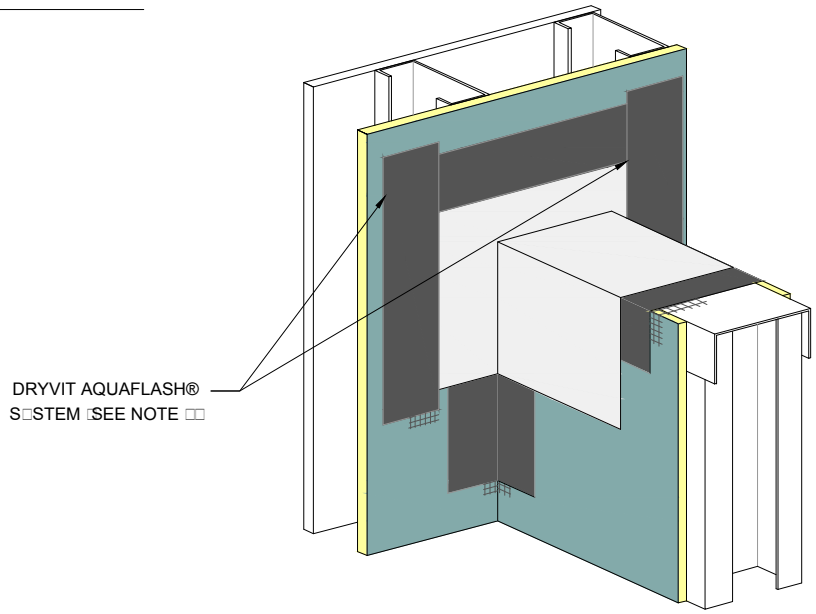


STEP #1



STEP #2



STEP #3

Outsulation® Plus MD System®

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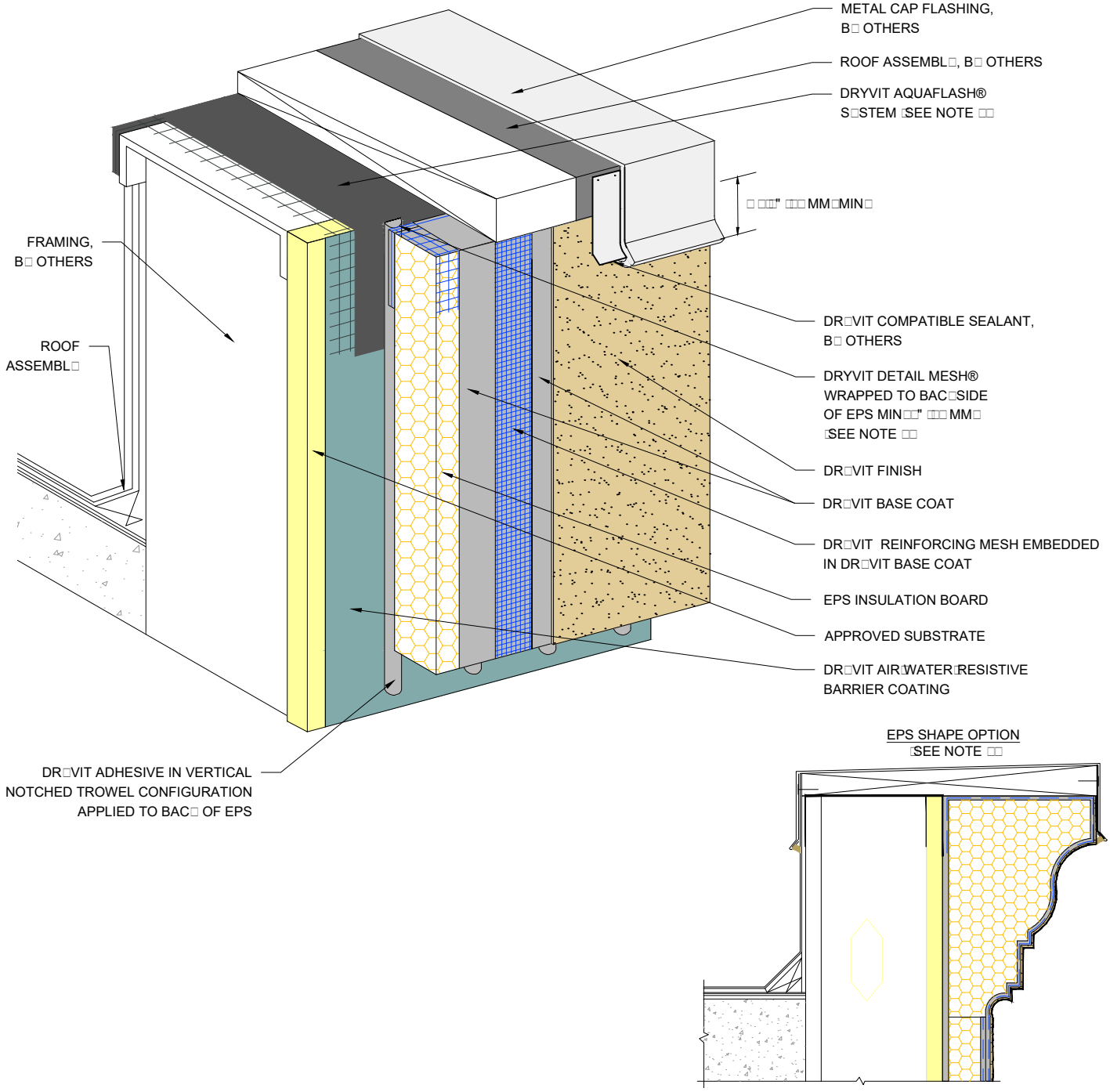

Outsulation® Plus MD System®

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□□MAXIMUM THIC□NESS OF EPS BUILT OUT SHAPES SHALL NOT EXCEED □□" □□□□ MM□AT AN□ POINT MEASURED FROM THE SUBSTRATE□

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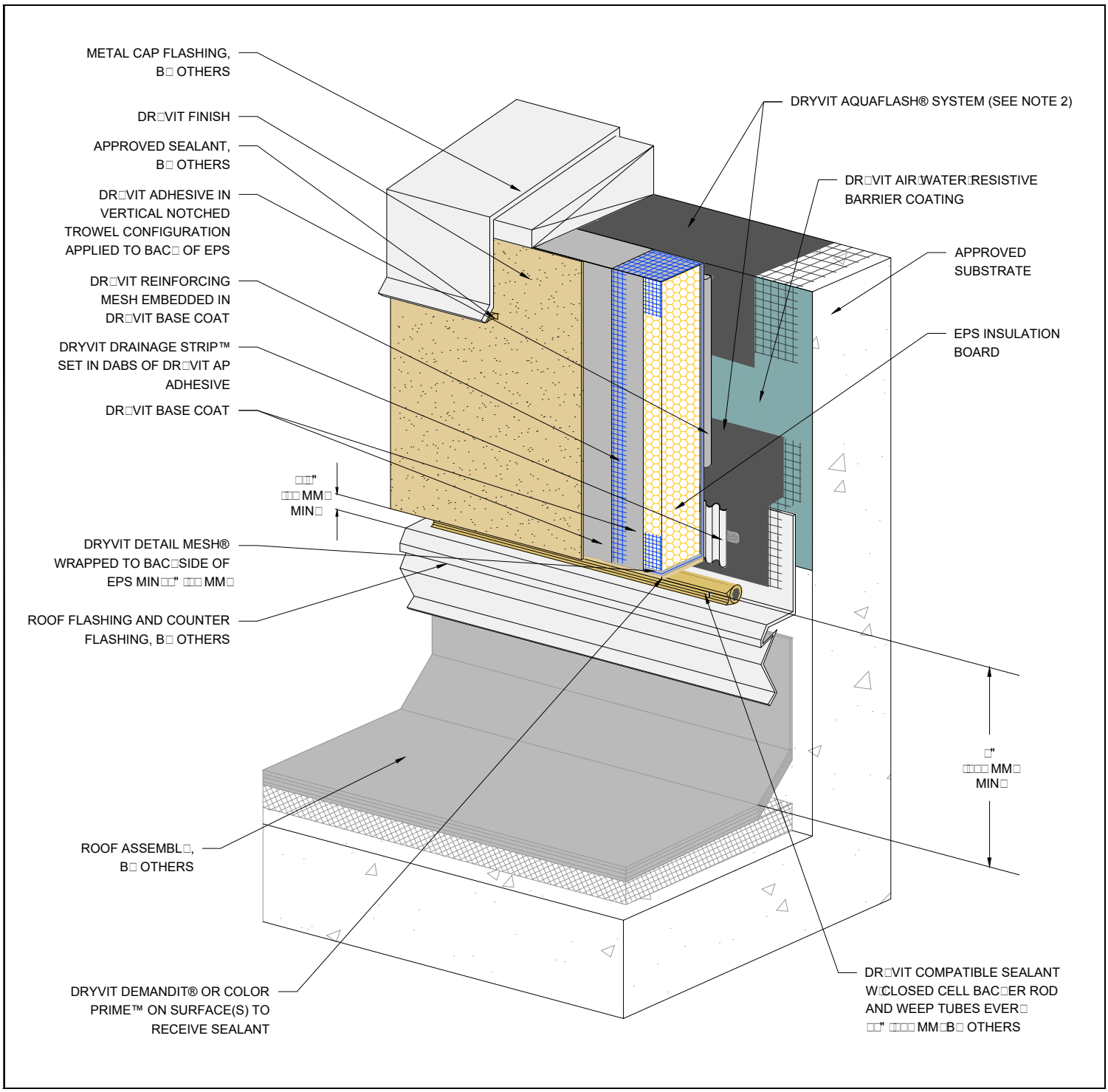

Outsulation® Plus MD System®

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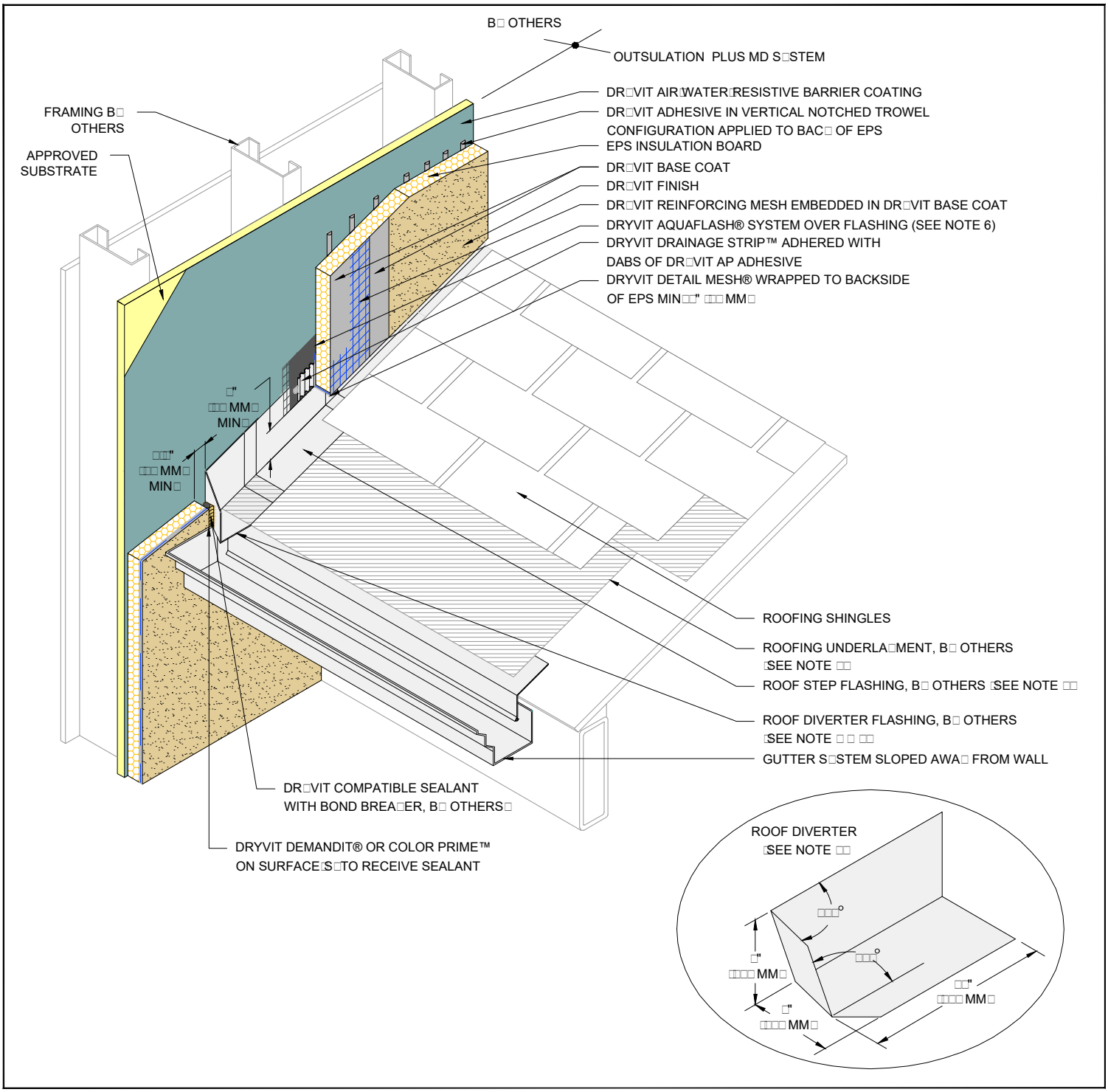

Outsulation® Plus MD System®

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NOTE□

□□EXTEND DIVERTER FLASHING □IC□OUT□ A MINIMUM OF □" □□□ MM□BE□OND FACE OF THE S□STEM□

□□ROOF DIVERTER TO BE MADE FROM CORROSION RESISTANT MATERIAL MIN□ □□ GAGE WITH WATER TIGHT SEAMS□

□□EXTEND ROOFING UNDERLA□MENT □" □□□□ MM□UP VERTICAL WALL BEHIND METAL FLASHING□

□□METAL FLASHINGS ARE □□" □□□□ MM□X □" □□□ MM□LONGER THAN THE EXPOSED PORTION OF THE ROOFING SHINGLE AND ARE BENT IN HALF TO ALLOW FOR TWO □" □□□□ MM□ LEGS□ALTHOUGH NOT SHOWN, METAL FLASHINGS ARE STEP FLASHED □INTERWOVEN□WITH ROOFING SHINGLES□

□□FOR ADDITIONAL SLOPED ROOF DETAILS, REFER TO DR□VIT PUBLICATION DS□□□□

□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

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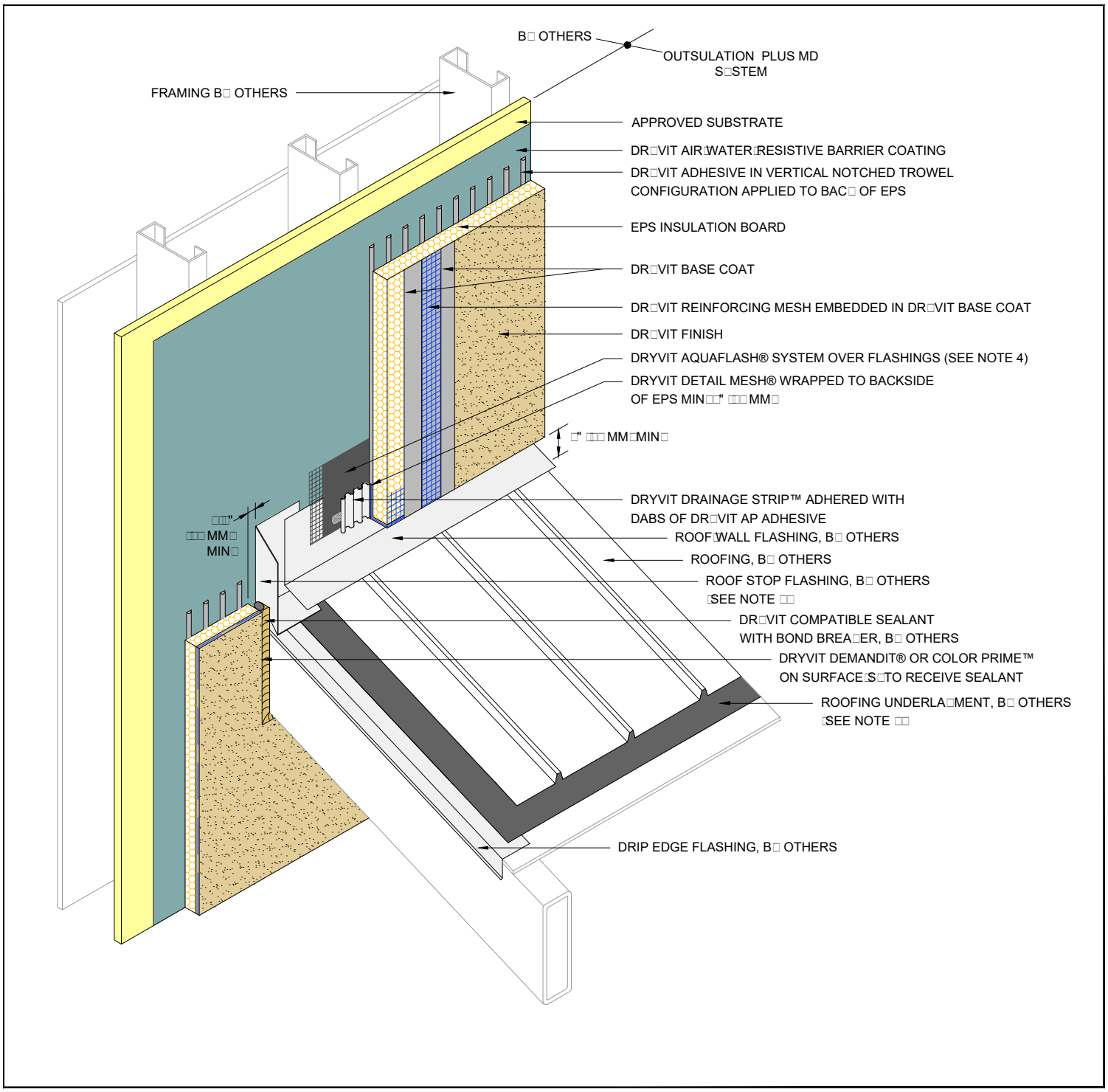

Outsulation® Plus MD System®

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NOTE□
□□EXTEND ROOF STOP FLASHING □" □□□ MM□ MINIMUM BE□OND FACE OF THE S□STEM□

□□ROOF STOP TO BE MADE FROM CORROSION RESISTANT MATERIAL MIN□□□ GAGE WITH WATER TIGHT SEAMS□

□□EXTEND ROOFING UNDERLA□MENT □" □□□□ MM□UP VERTICAL WALL BEHIND METAL FLASHING□

□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

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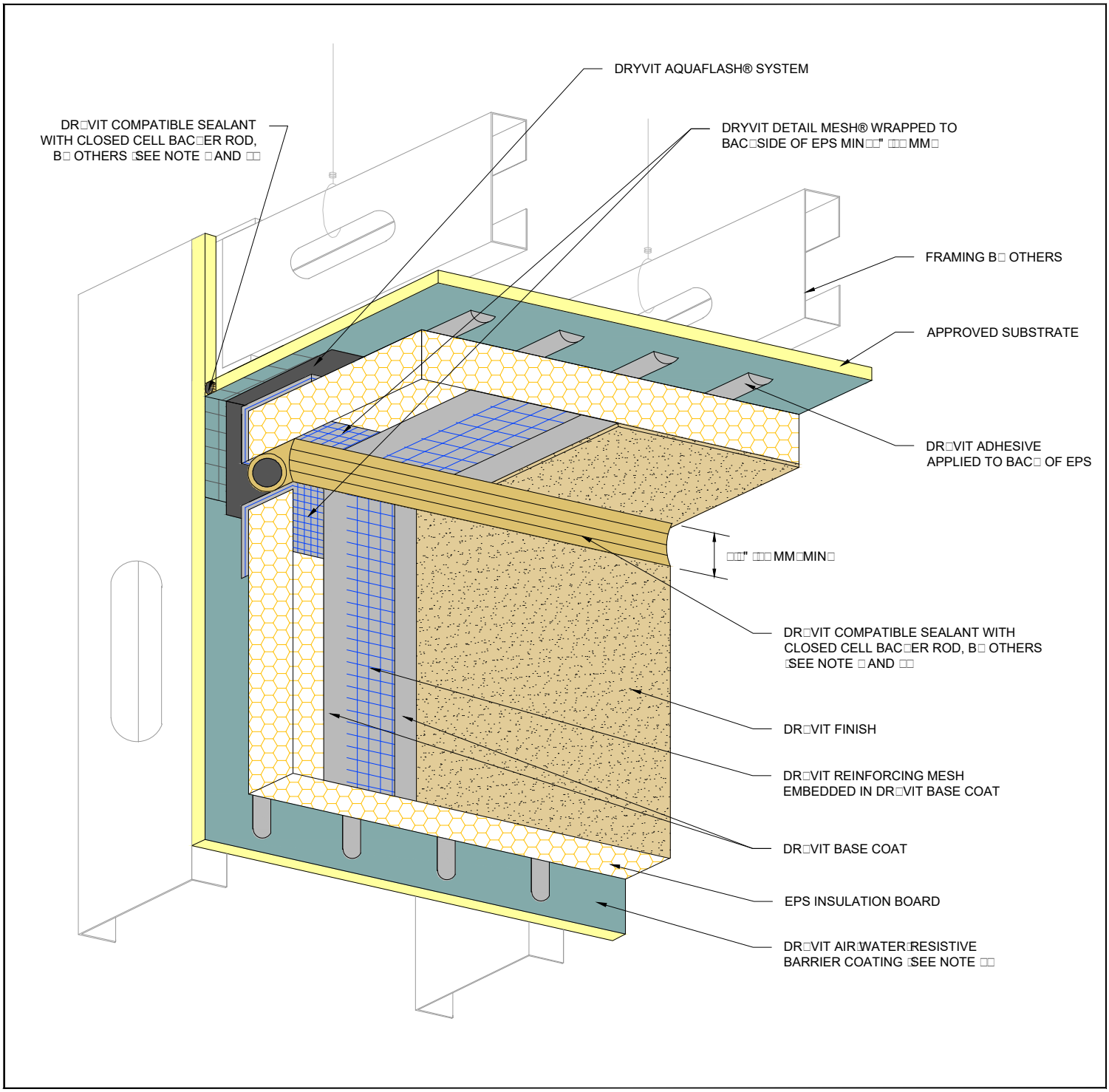

Outsulation® Plus MD System® V□r□□□□W□□□S□□□□□d□d S□□□□Tr□□□□□□□

NOTE□
□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH□ LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

2. DRYVIT DEMANDIT® OR COLOR PRIME™ ON SURFACES TO RECEIVE SEALANT□

□□DR□VIT AIR□WATER□RESISTIVE BARRIER IS RE□UIRED OVER VERTICAL SUBSTRATES□ APPLICATION OVER HORI□ONTAL SOFFIT SUBSTRATE IS OPTIONAL UNLESS RE□UIRED AS PART OF A CONTINUOUS AIR BARRIER S□STEM□

□□SEALANT □OINT IS RE□UIRED FOR SUSPENDED SOFFITS□OPTIONAL FOR RIGIDL□ FRAMED□

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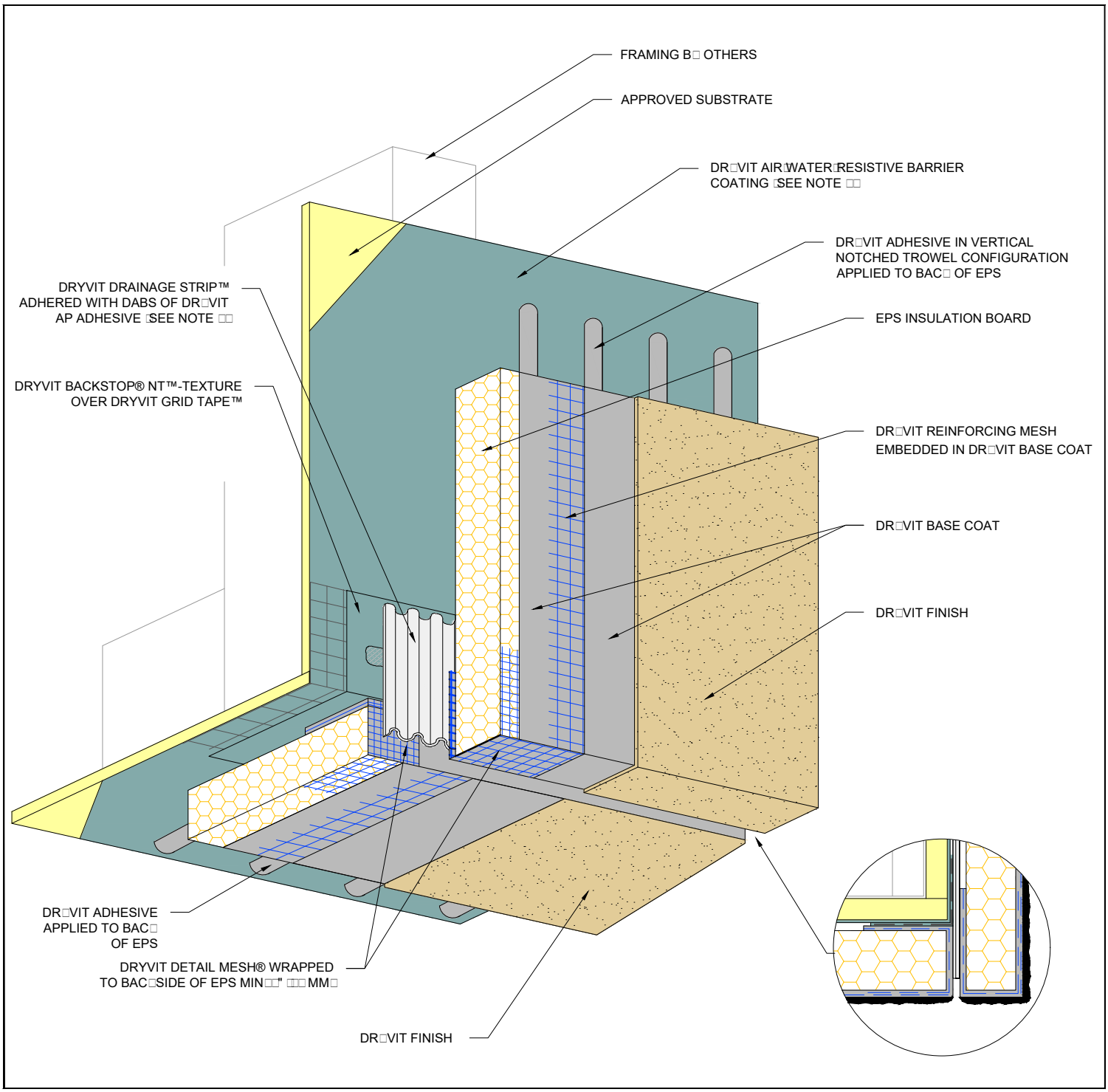

Outsulation® Plus MD System®

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NOTE□
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□□ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN□

□□DR□VIT AIR□WATER□RESISTIVE BARRIER IS RE□UIRED OVER VERTICAL SUBSTRATES, APPLICATION OVER HORI□ONTAL SOFFIT SUBSTRATE IS OPTIONAL UNLESS RE□UIRED AS PART OF A CONTINUOUS AIR BARRIER S□STEM□

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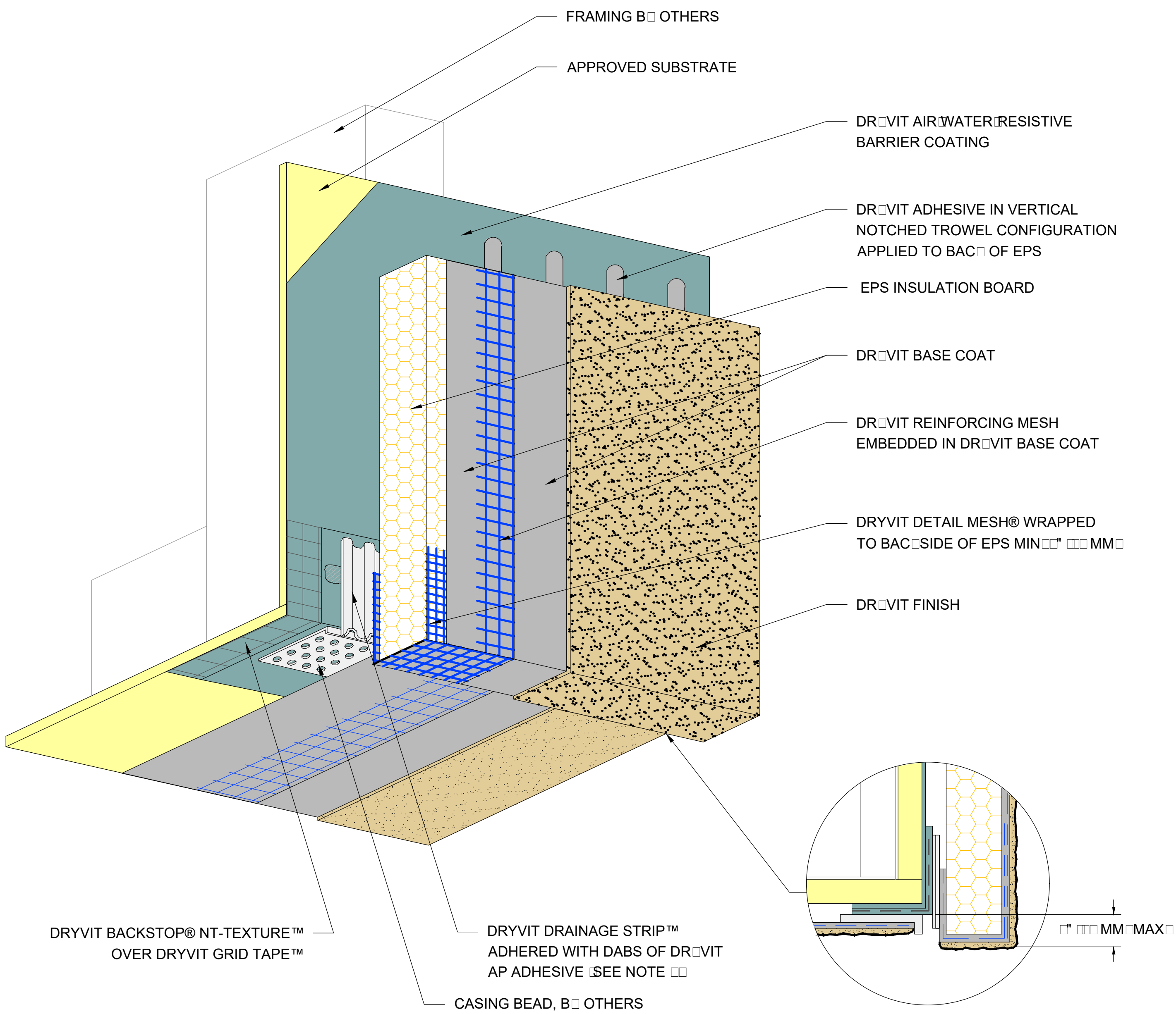
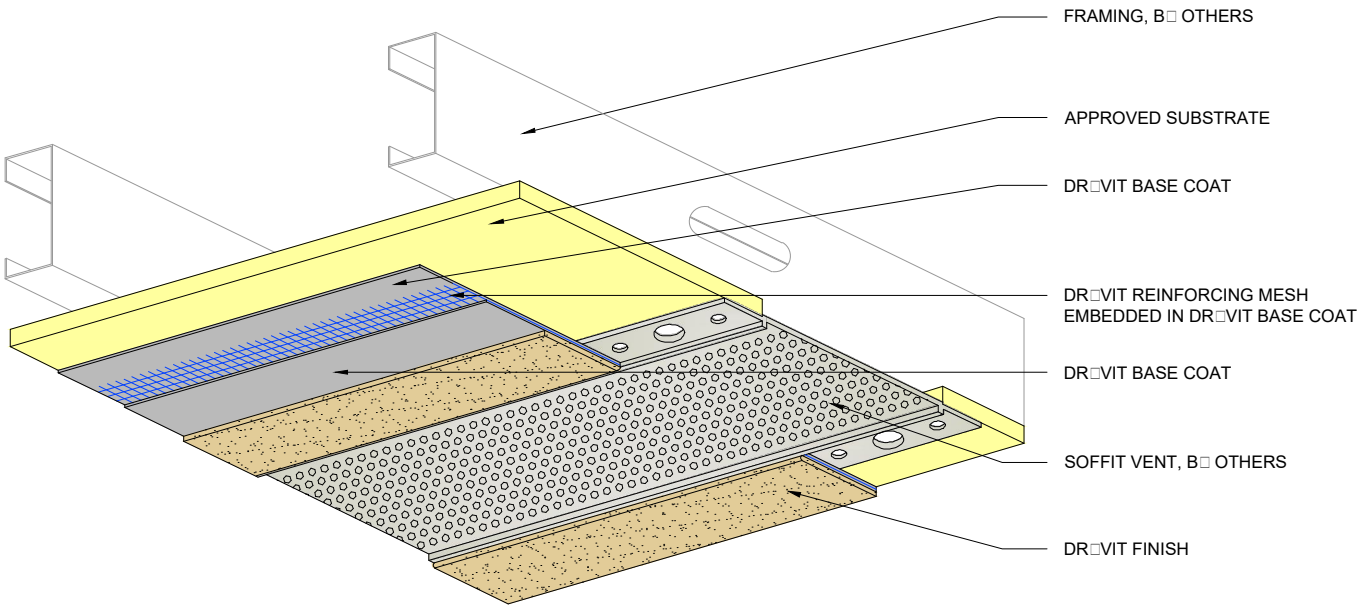


Outsulation® Plus MD System®

NOTE:

- DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
- SOFFITS WITHOUT EPS INSULATION REQUIRE EXPANSION JOINTS EVERY FT M
- REFER TO DRYVIT PUBLICATION DS FOR SPECIFIC REQUIREMENTS FOR SOFFIT AREAS.
- BOTTOM EDGE OF DRYVIT DRAINAGE STRIP SHALL BE MASKED DURING INSTALLATION TO PREVENT CLOGGING OF DRAINAGE CHANNELS.



Outsulation® Plus MD System®

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NOTE□
□□CONTROL □OINTS ARE RECOMMENDED EVER□ □□FT □□□□ M□□

□□REFER TO DR□VIT PUBLICATION DS□□□ FOR SPECIFIC RE□UIREMENTS FOR SOFFIT AREAS□

□□SEAL ALL BUTT □OINTS, INTERSECTIONS, AND ENDS OF VENTS WITH COMPATIBLE SEALANT□

□□SEE DR□VIT PUBLICATION DS□□□ FOR ADDITIONAL DIRECT APPLIED DETAILS□

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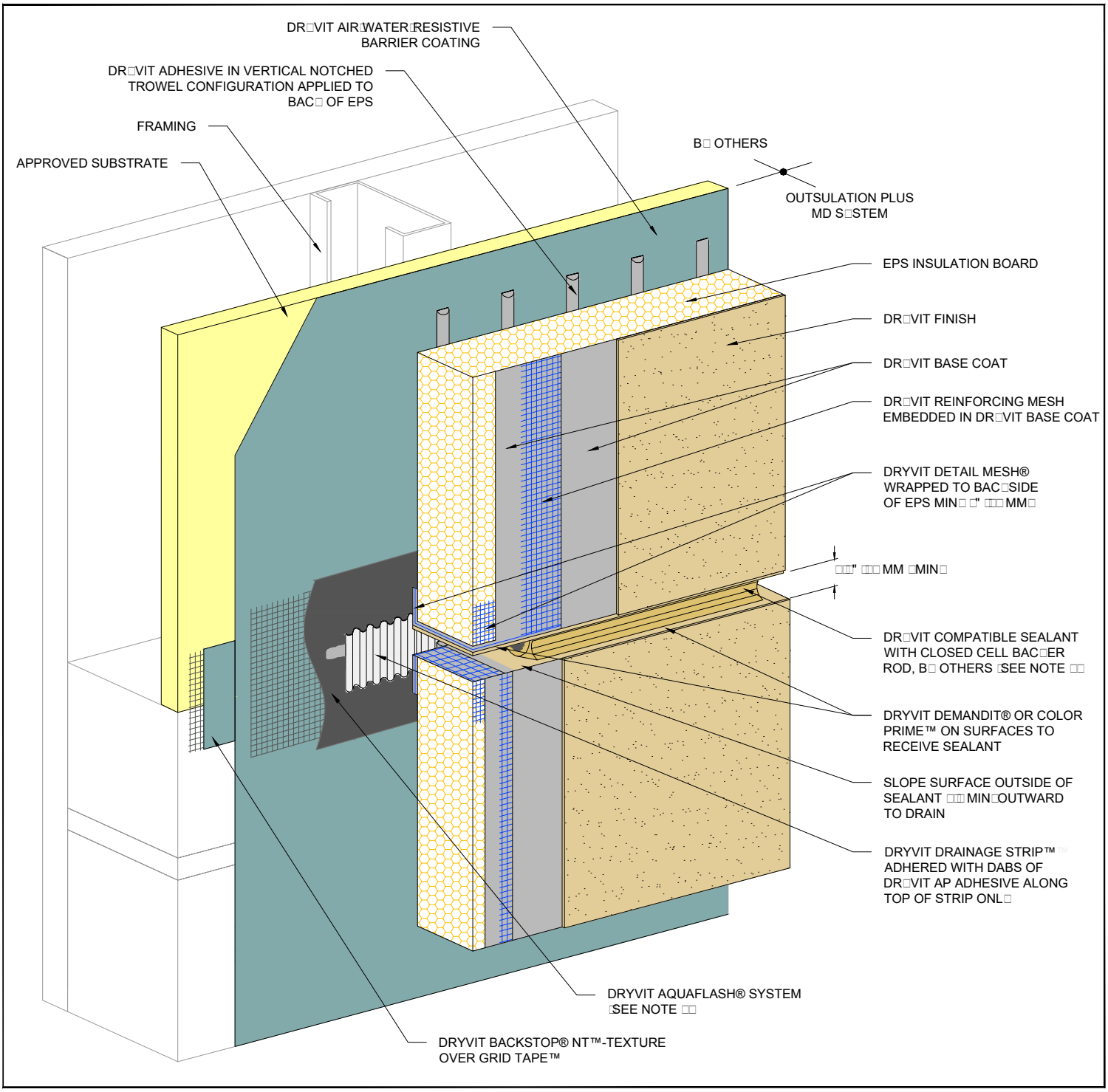

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□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM OVER PREPARED □OINT AT CHANGE IN SUBSTRATE□

□□SEALANT SHALL NOT BE IN DIRECT CONTACT WITH ASPHALTIC ADHESIVE ON DR□VIT FLASHING TAPE□COVER DR□VIT FLASHING TAPE LAPS WITH POL□ETH□LENE TAPE OR BAC□ER ROD□

□□REFER TO DETAIL OPMD □□□□□□ FOR CONFIGURATION RE□UIRING WEEPS□

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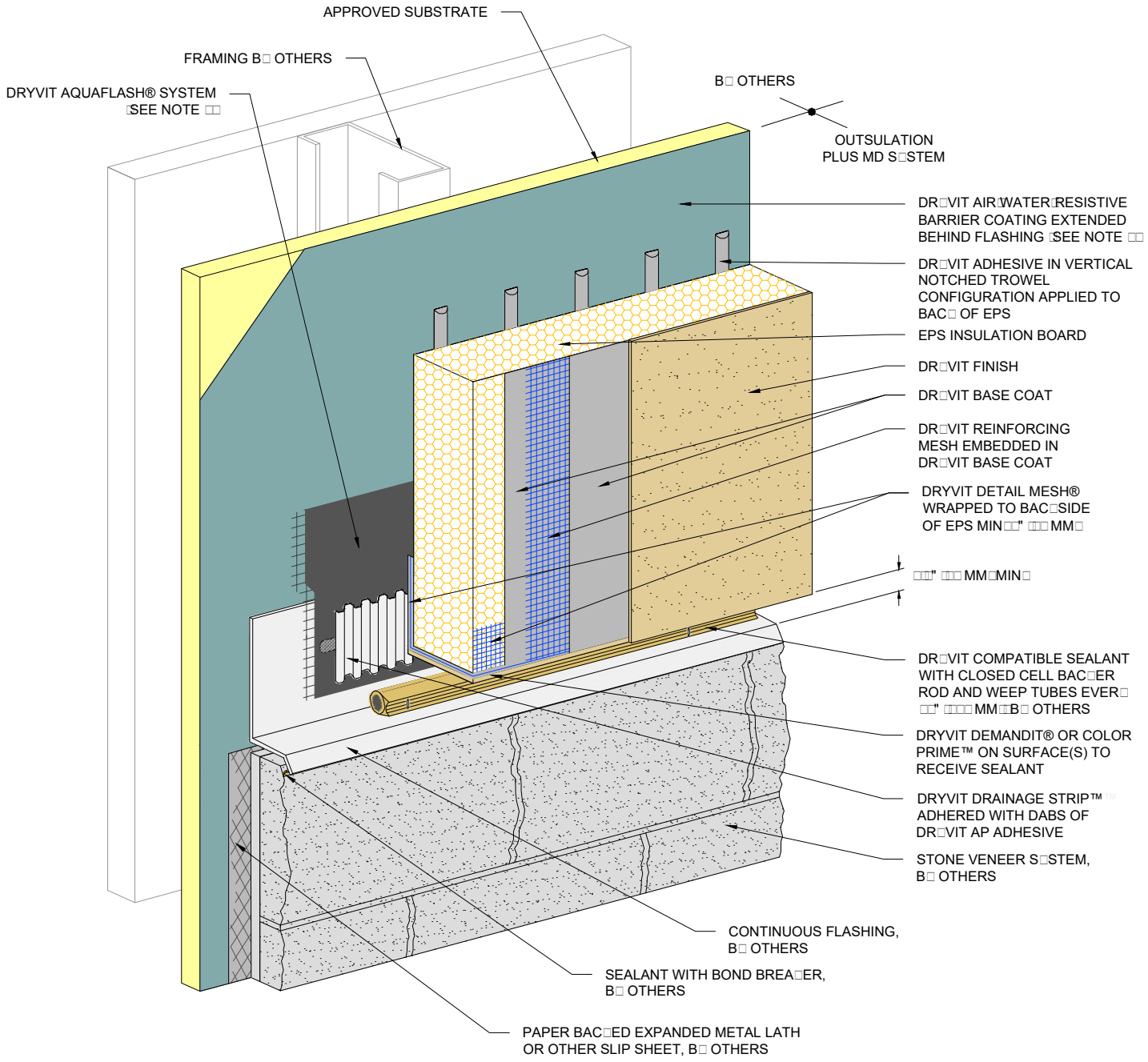

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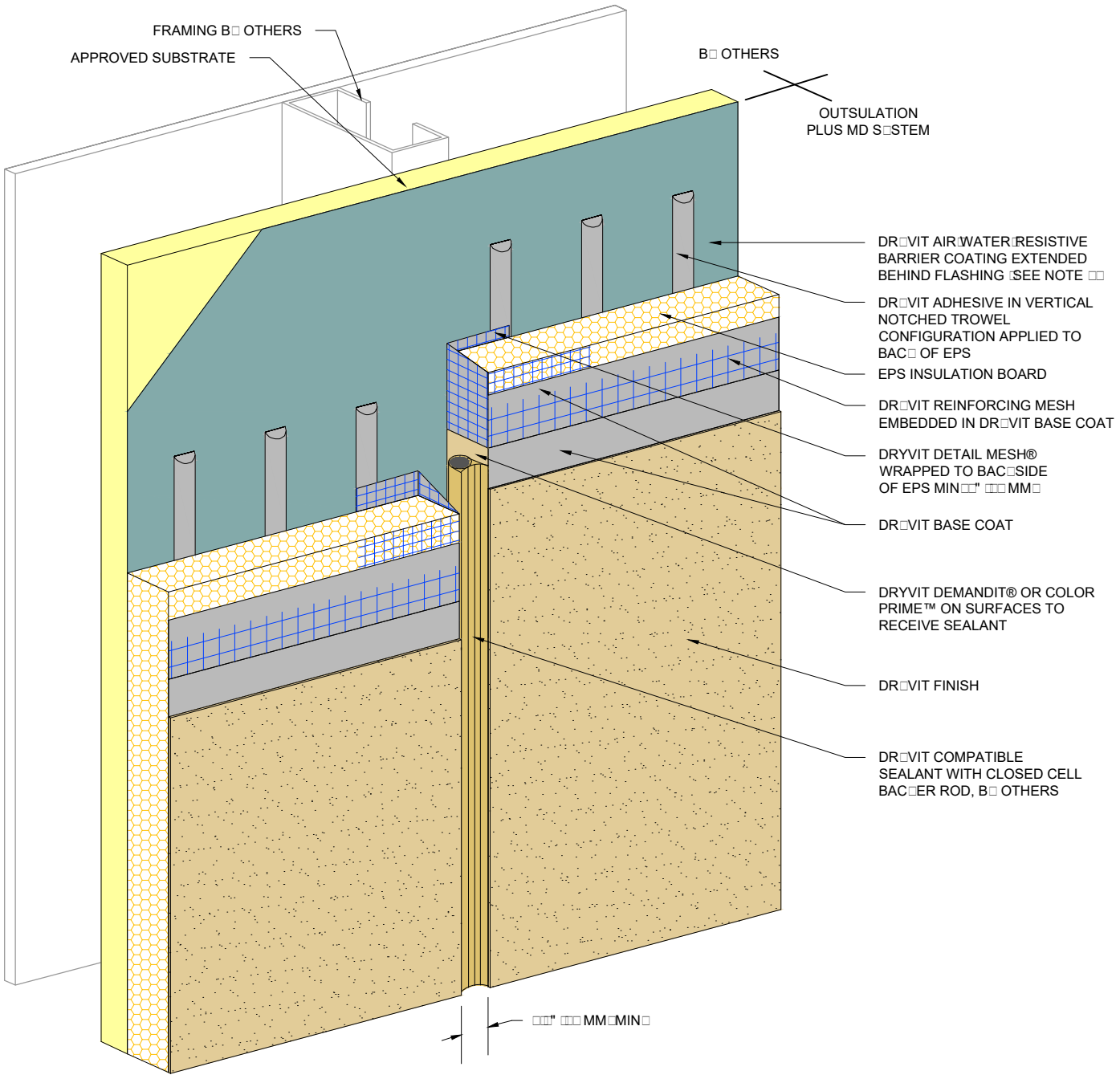

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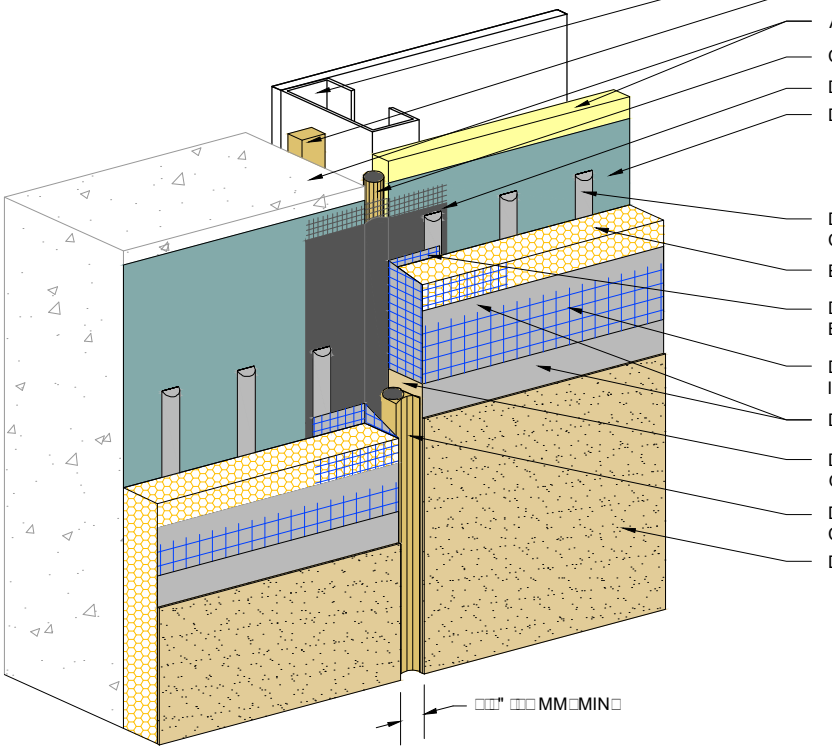

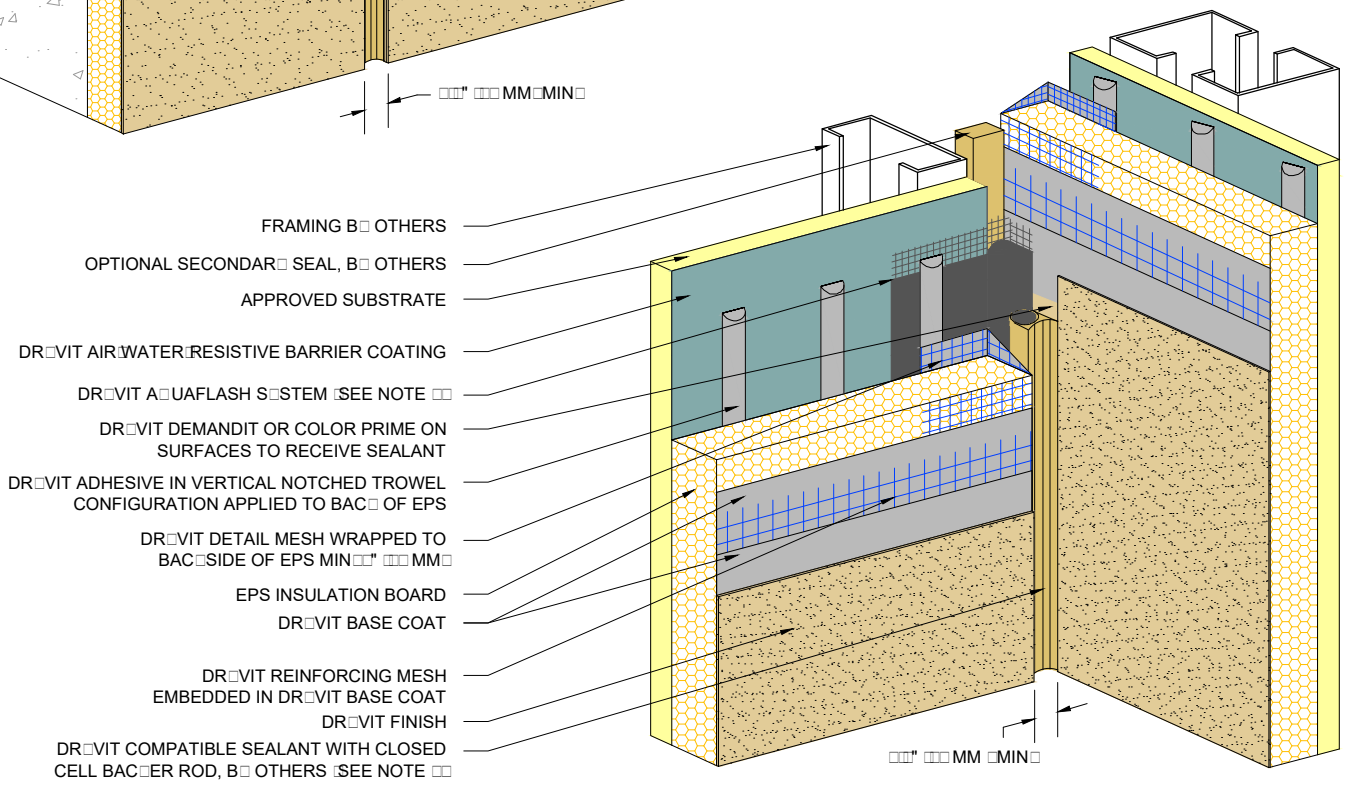

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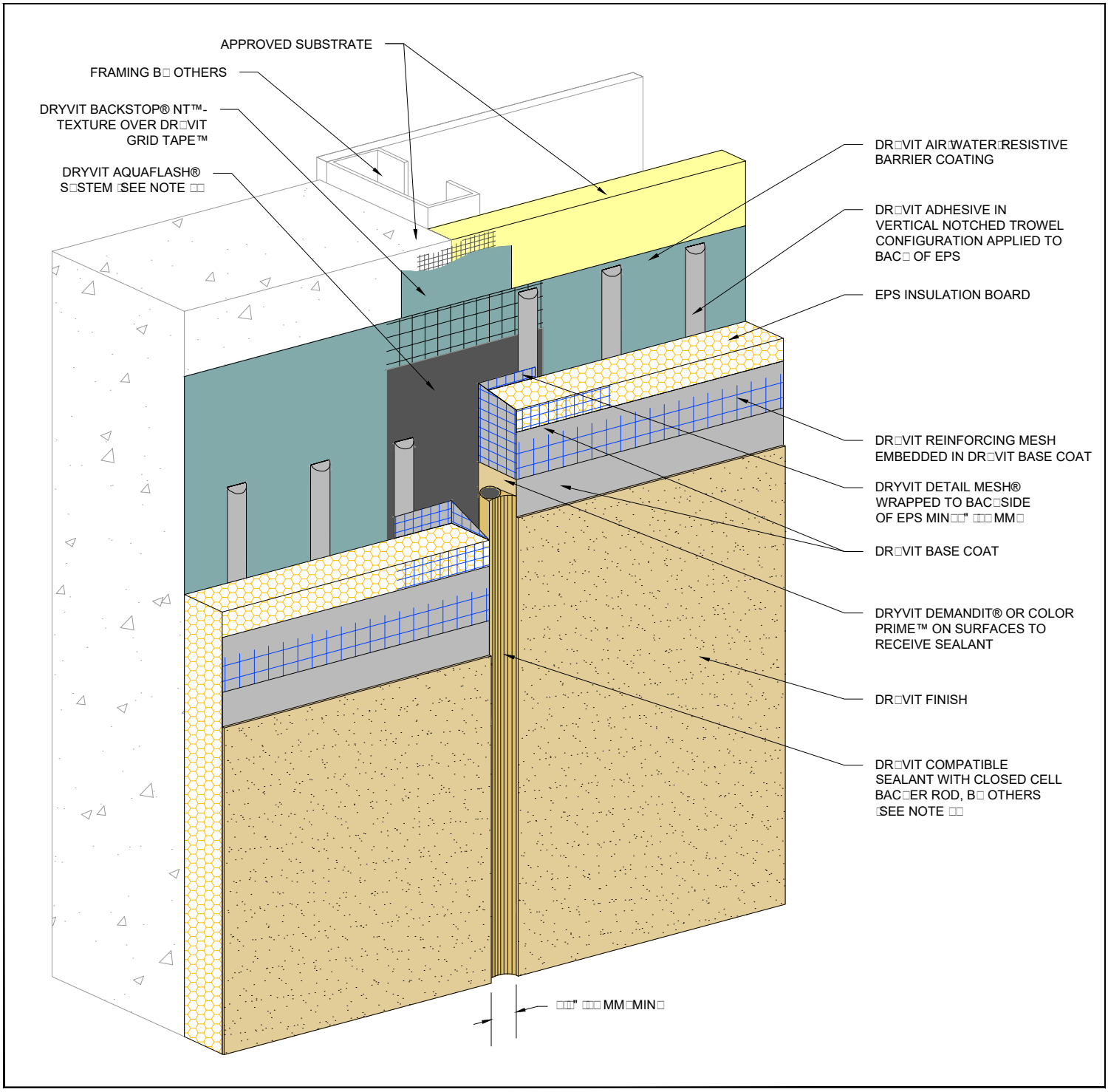

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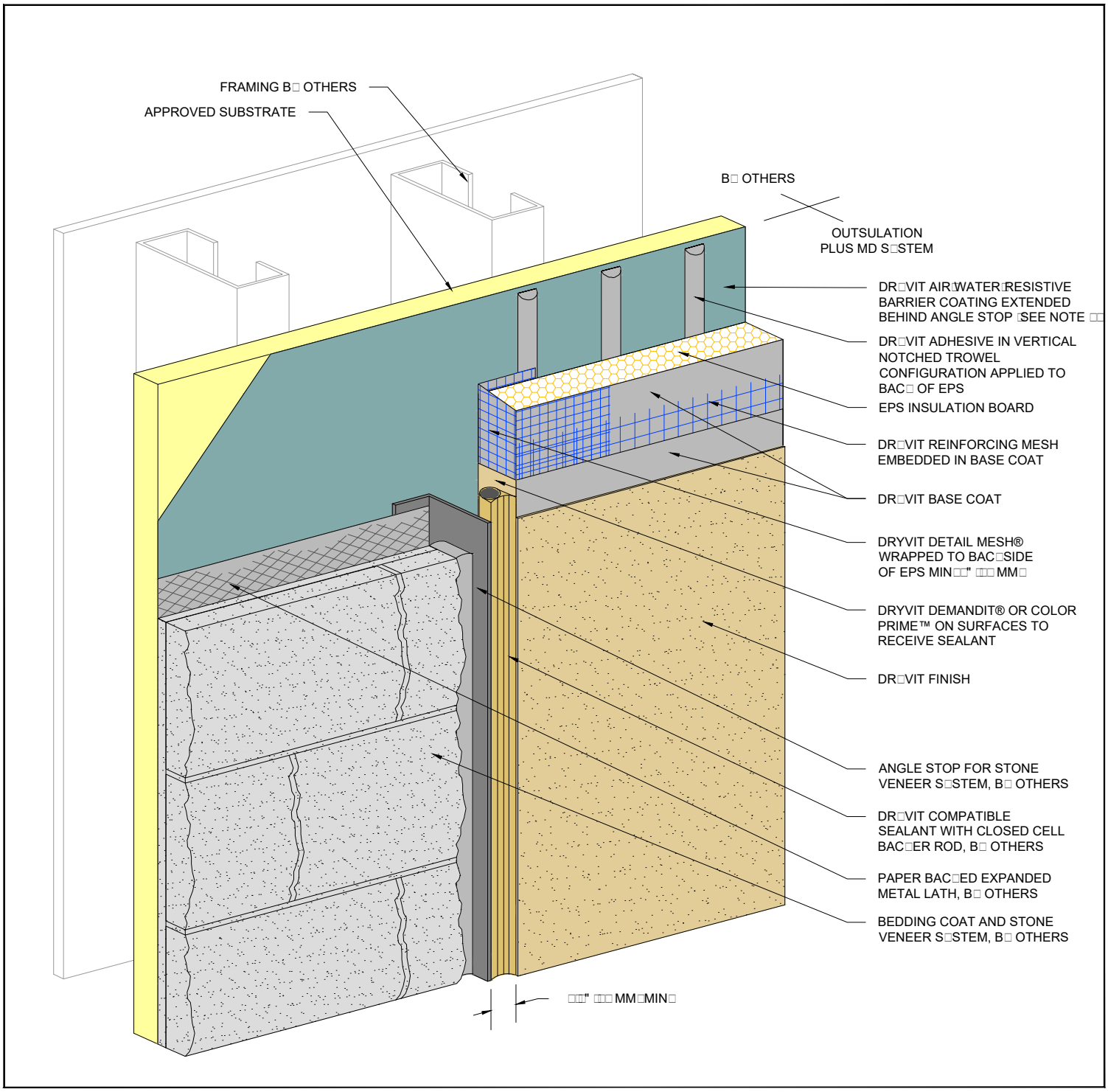

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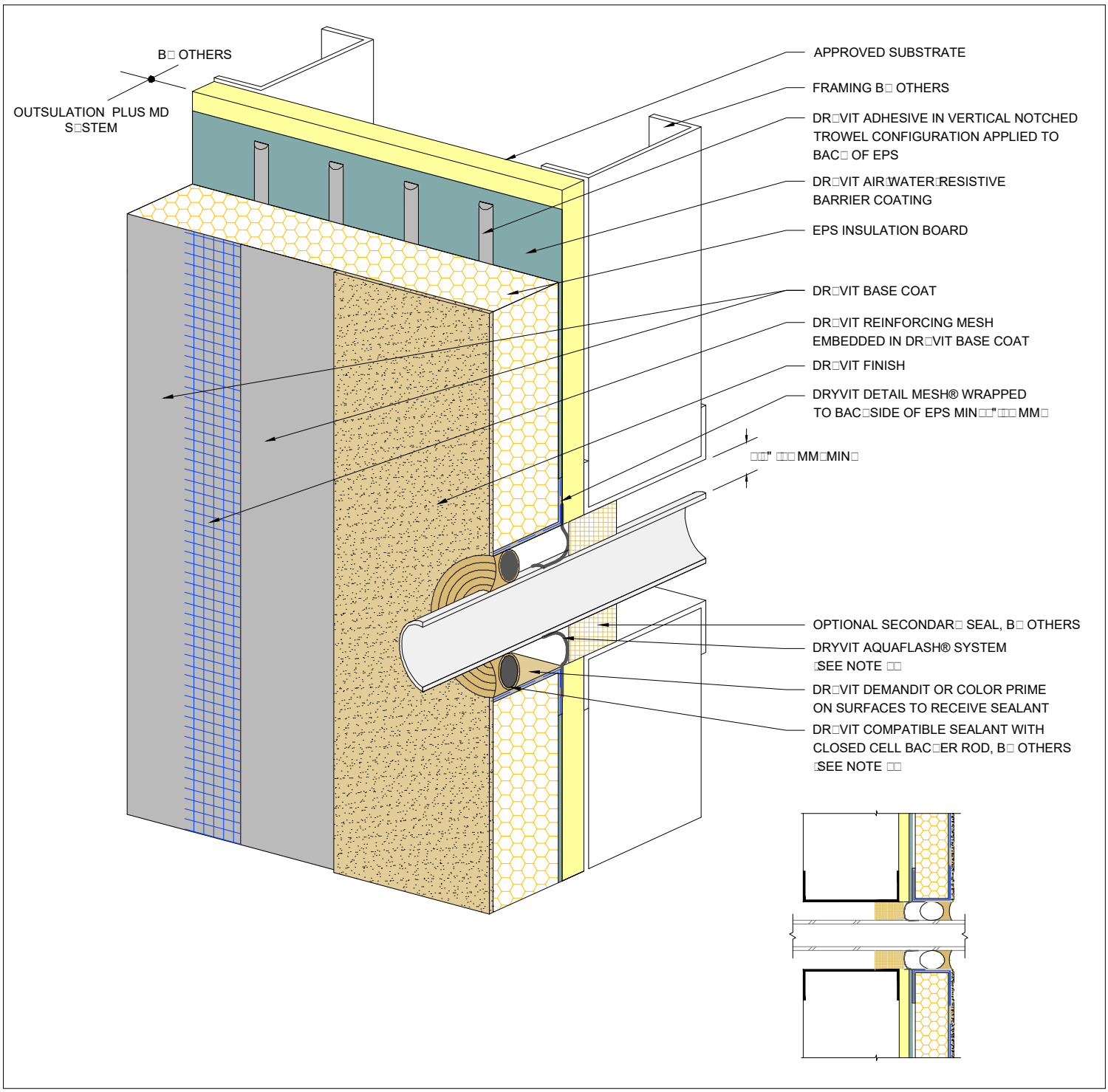

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NOTE□
□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD OR STANDARD PLUS MESH□LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

□□SEALANT SHALL NOT BE IN DIRECT CONTACT WITH ASPHALTIC ADHESIVE ON DR□VIT FLASHING TAPE□COVER DR□VIT FLASHING TAPE LAPS WITH POL□ETH□LENE TAPE OR BAC□ER ROD□

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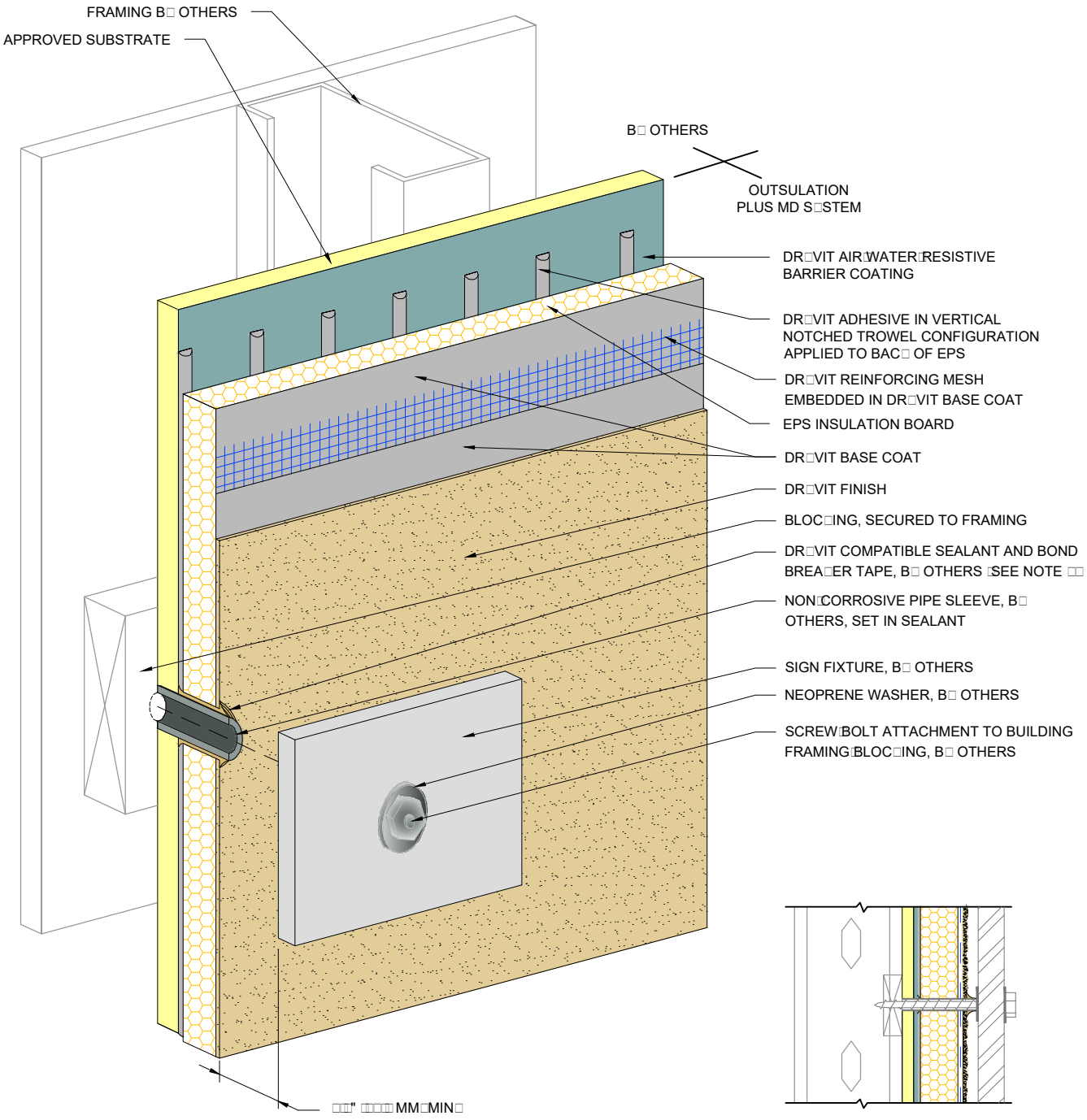

Outsulation® Plus MD System®

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□□PERIMETER OF PIPE SLEEVE IS SEALED TO PREVENT WATER ENTR□ INTO WALL□

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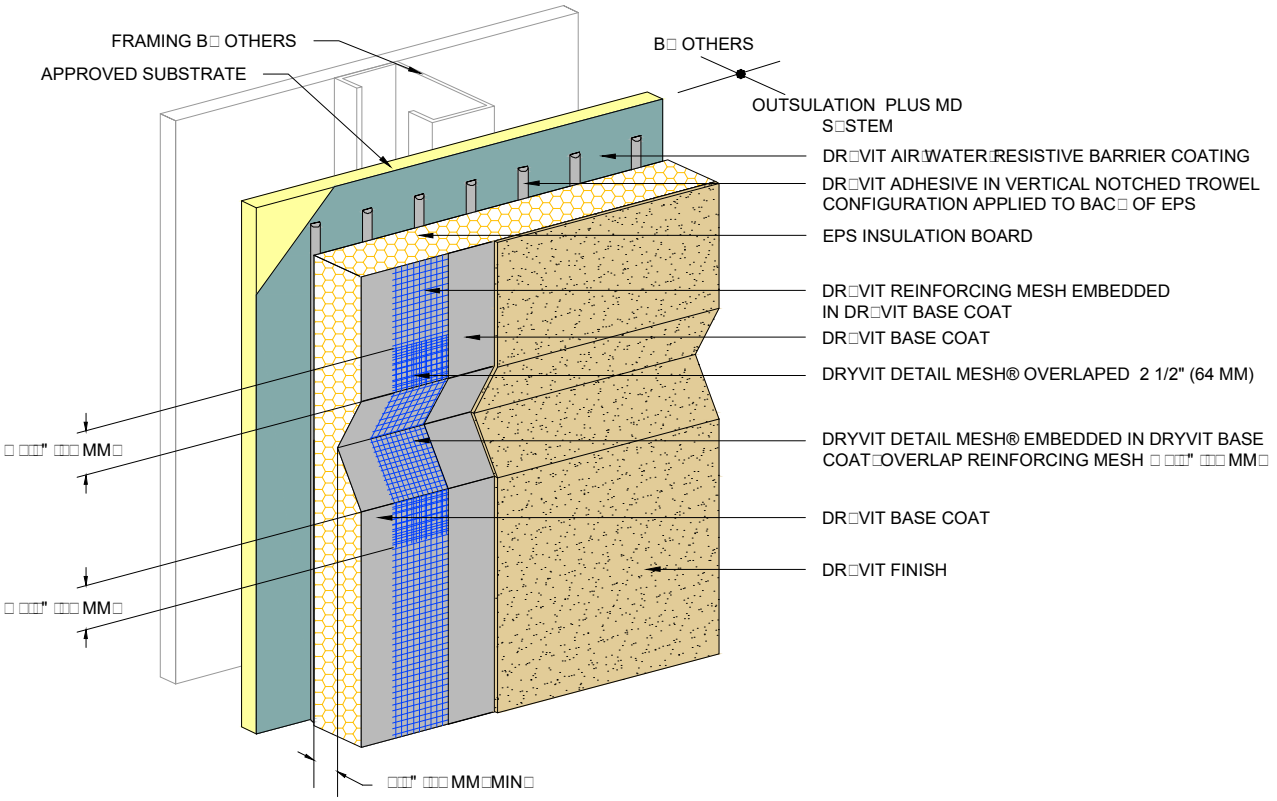

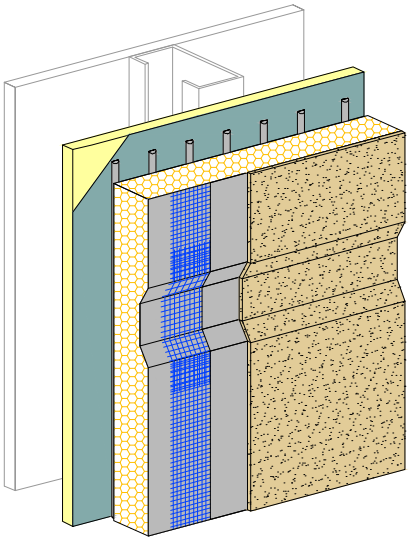

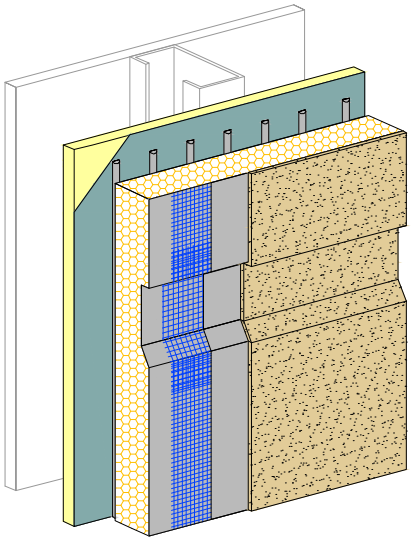

Outsulation® Plus MD System®

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□□SLOPE BOTTOM EDGE OF REVEAL FOR POSITIVE DRAINAGE□

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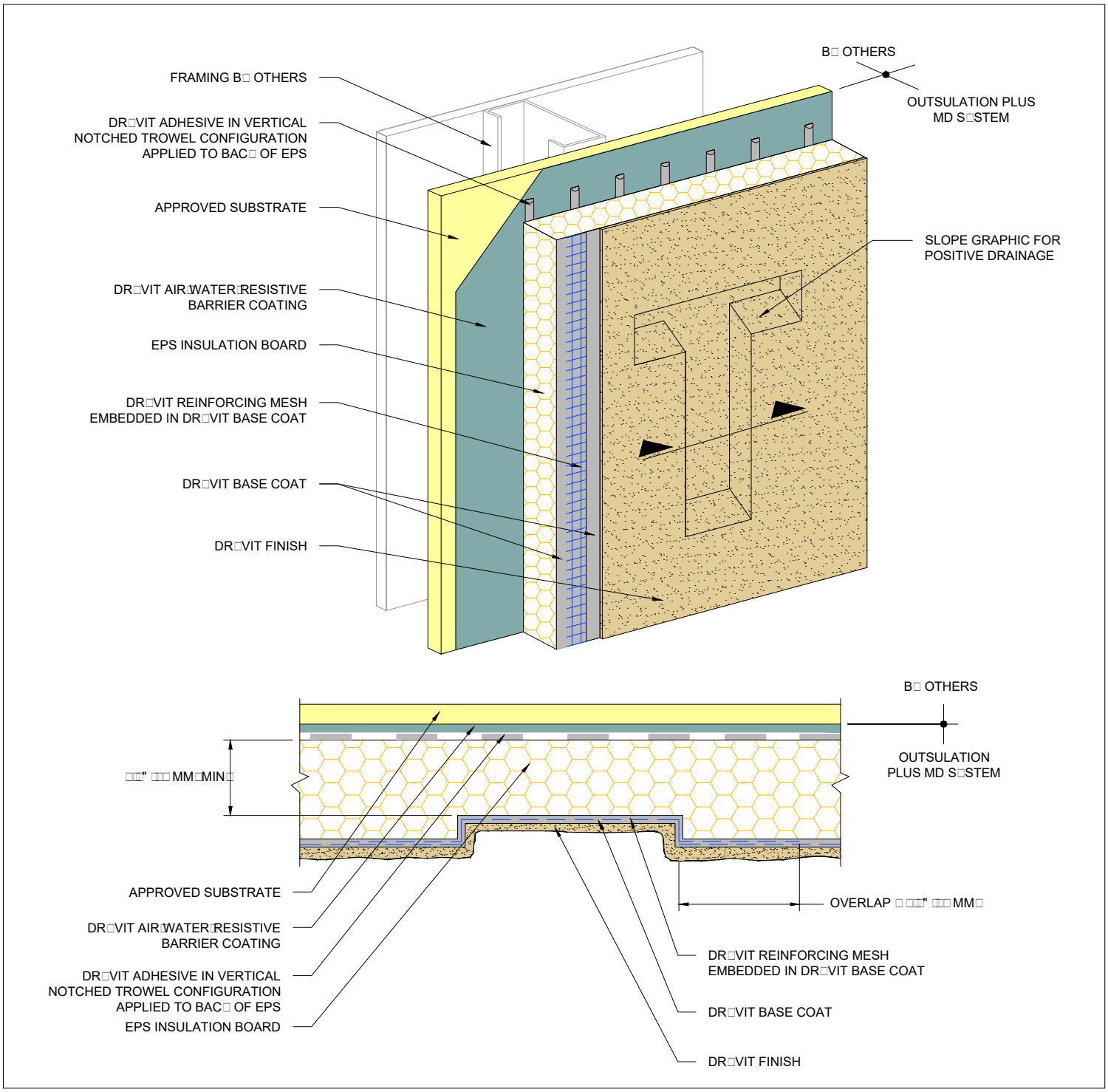

Outsulation® Plus MD System®

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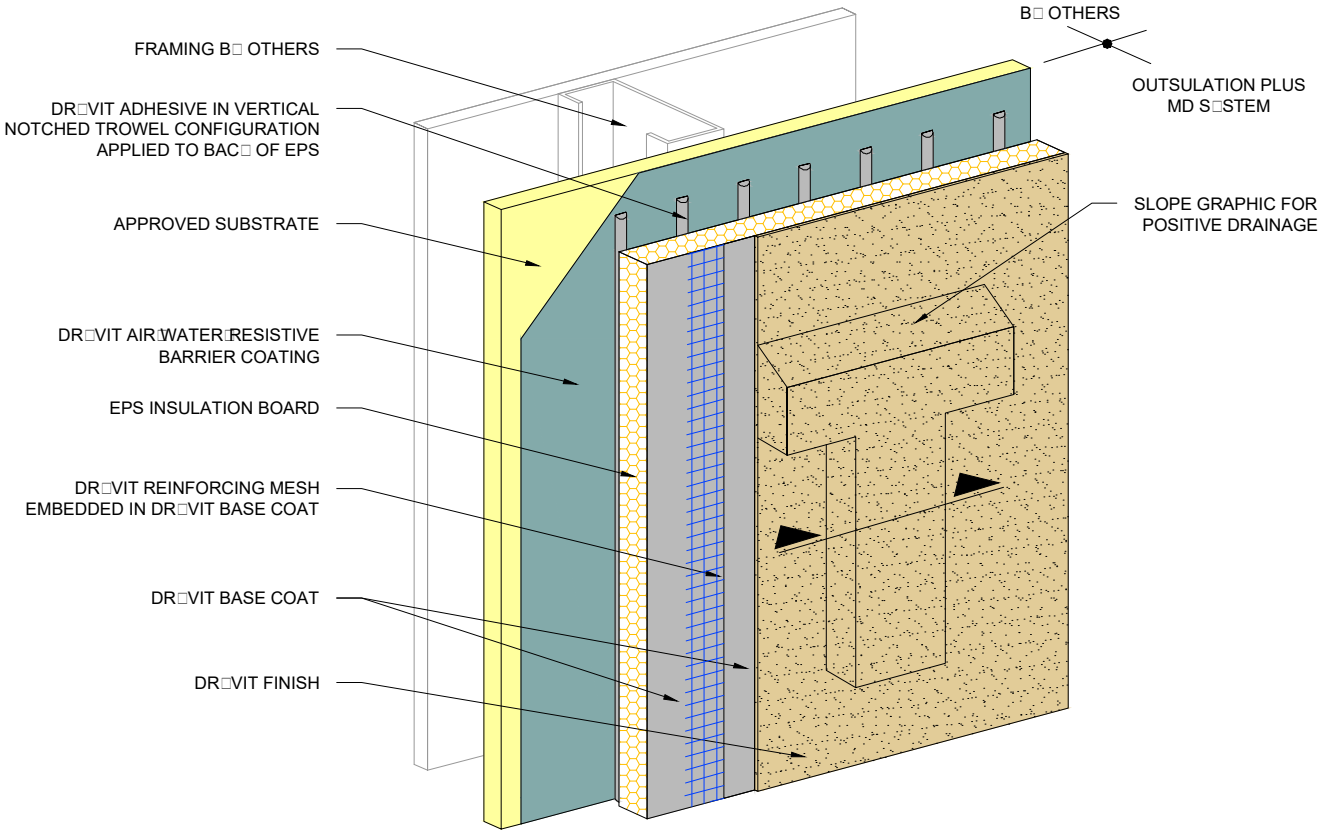

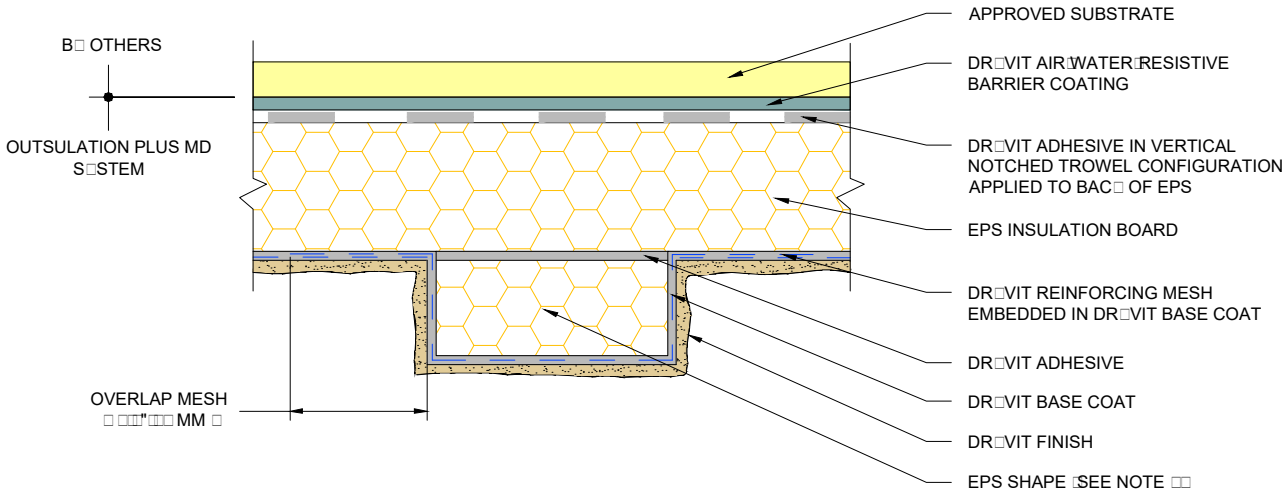

Outsulation® Plus MD System®

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NOTE□
□□MAXIMUM THIC□NESS OF EPS BUILT OUT SHAPES SHALL NOT EXCEED □□ INCHES □□□□ MM□AT AN□ POINT MEASURED FROM THE SUBSTRATE□

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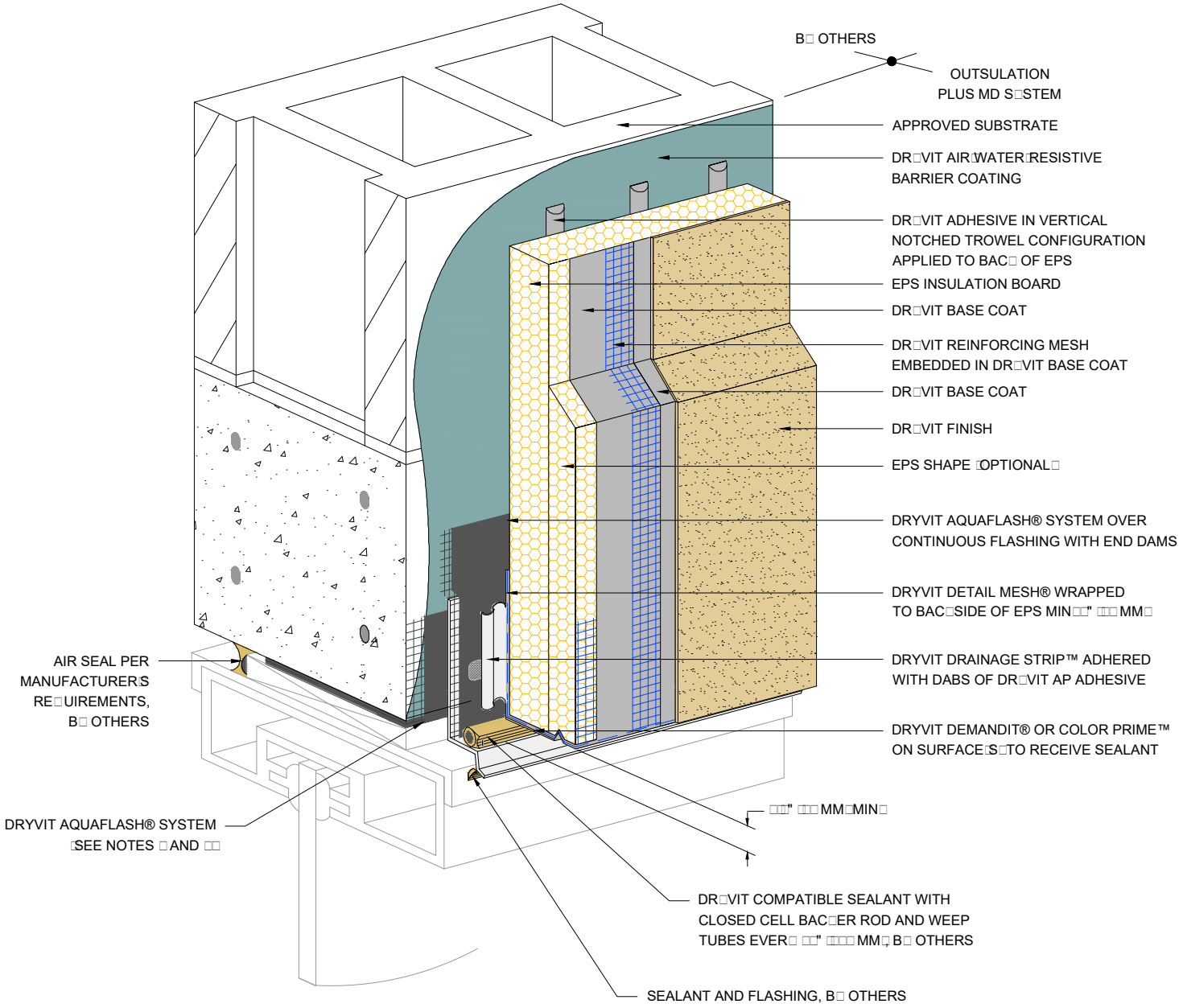

Outsulation® Plus MD System®

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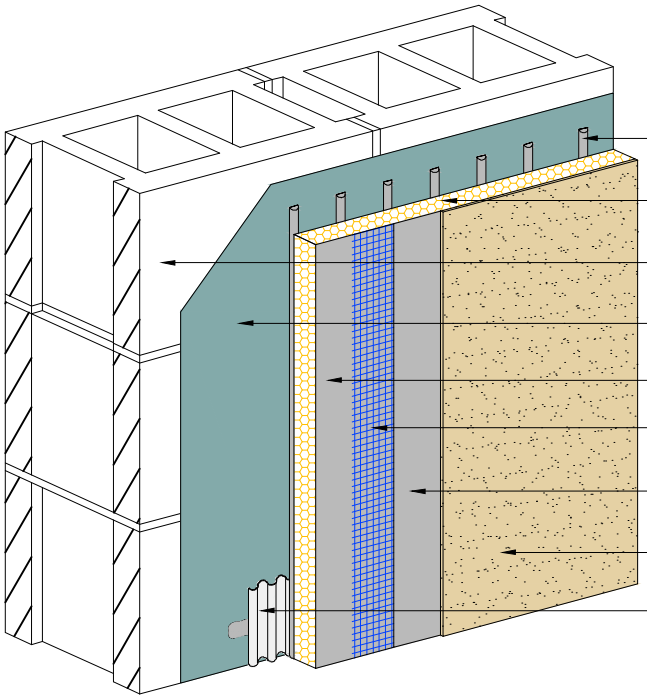
□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

□□DR□VIT AIR□WATER□RESISTIVE BARRIER COATING IS AN ALTERNATE OPTION AT □AMB AND HEAD CONDITION PER DETAIL OPMD □□□□□M□

T□□ □r□□□□□□r□, □□□□□□r□□□, □□d d□□□□ □□□□ □r□□□□□□□□□ □□□ Dr□□□□r□d□□□ □□ □□□ r□□□□□□□□□□□□ □□□□ □r□□□□d□□□□ □r□□□□□□□□A□□□□□□□ □ □ □□□□□ □□□ □ □□□ □□□□□□□□d□□□ □□d□□ □□d □□□□d□rd□□T□□d□□□□□ □r □□□□r□□□□r□ □□□□ □□d □□d□□□□ □□□□ □□d Dr□□□□□□□□□□□□□□d□□□□□ □ □□□ □□□□□□□ □r □□□ □□□ □□□□□d□□□□□d □r □□□ □r□□□□□□r□, d□□□□, □□□□□□r□□ □r □r□□ □□□□□ □□□□□ □r□□□□T□□ □r□□□□d□□□□ □r□□□□□□□□d□□r□ □□□□, □□ □□□ □□□□ d□□r□□□□, □ □□□□□r □□□□ d□□□□r □ □□□□□□□□□□ □□□□□□□□d□□□□□ □□□□□□□d □r □□□ □r□□□□U□□ □□□□ □□□□□□□□□□ □□□□□□□□d□□□d□□ □□□□□□□□ Dr□□□□ □rr□□□T□□d□□□□□ □□□□□□□□ □□□□□□ □ □□□□□□□□□□ C□□□□Dr□□□□ □□□r□ □□□ □□□ □□□ □ □□r□□□□□r□□□□

dryvit®

NORMAL IMPACT



DR□VIT ADHESIVE IN VERTICAL NOTCHED TROWEL CONFIGURATION APPLIED TO BAC□ OF EPS

EPS INSULATION BOARD

APPROVED SUBSTRATE

DR□VIT AIR□WATER□RESISTIVE BARRIER COATING

DR□VIT BASE COAT

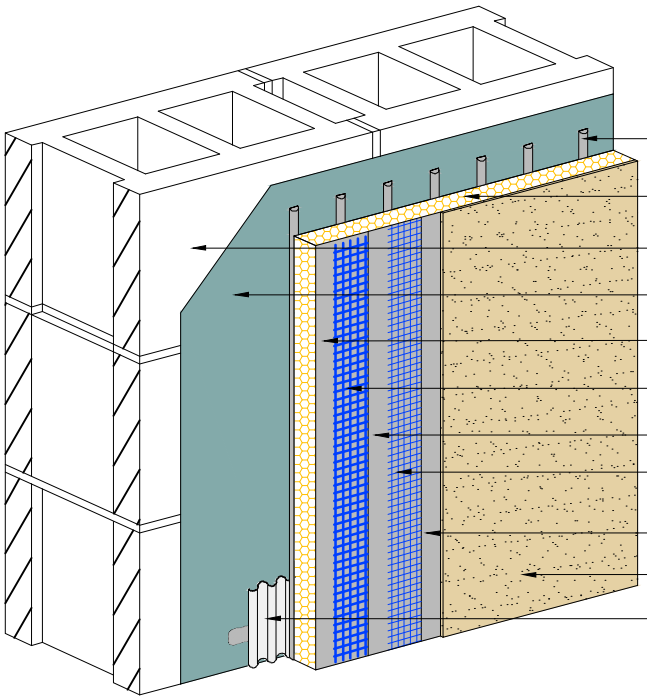
DR□VIT REINFORCING MESH EMBEDDED IN DR□VIT BASE COAT

DR□VIT BASE COAT

DR□VIT FINISH

DRYVIT DRAINAGE STRIP™ ADHERED WITH DABS OF DR□VIT AP ADHESIVE □SEE NOTES □ AND □□

HIGH IMPACT



DR□VIT ADHESIVE IN VERTICAL NOTCHED TROWEL CONFIGURATION APPLIED TO BAC□ OF EPS

EPS INSULATION BOARD

APPROVED SUBSTRATE

DR□VIT AIR□WATER □RESISTIVE BARRIER COATING

DR□VIT BASE COAT

DR□VIT PAN□ER REINFORCING MESH

DR□VIT BASE COAT

DR□VIT REINFORCING MESH EMBEDDED IN DR□VIT BASE COAT

DR□VIT BASE COAT

DR□VIT FINISH

DR□VIT DRAINAGE STRIP ADHERED WITH DABS OF DR□VIT AP ADHESIVE □SEE NOTES □ AND □□

Outsulation® Plus MD System®

O□□□□□□□□□ P□□□MD S□□□□□

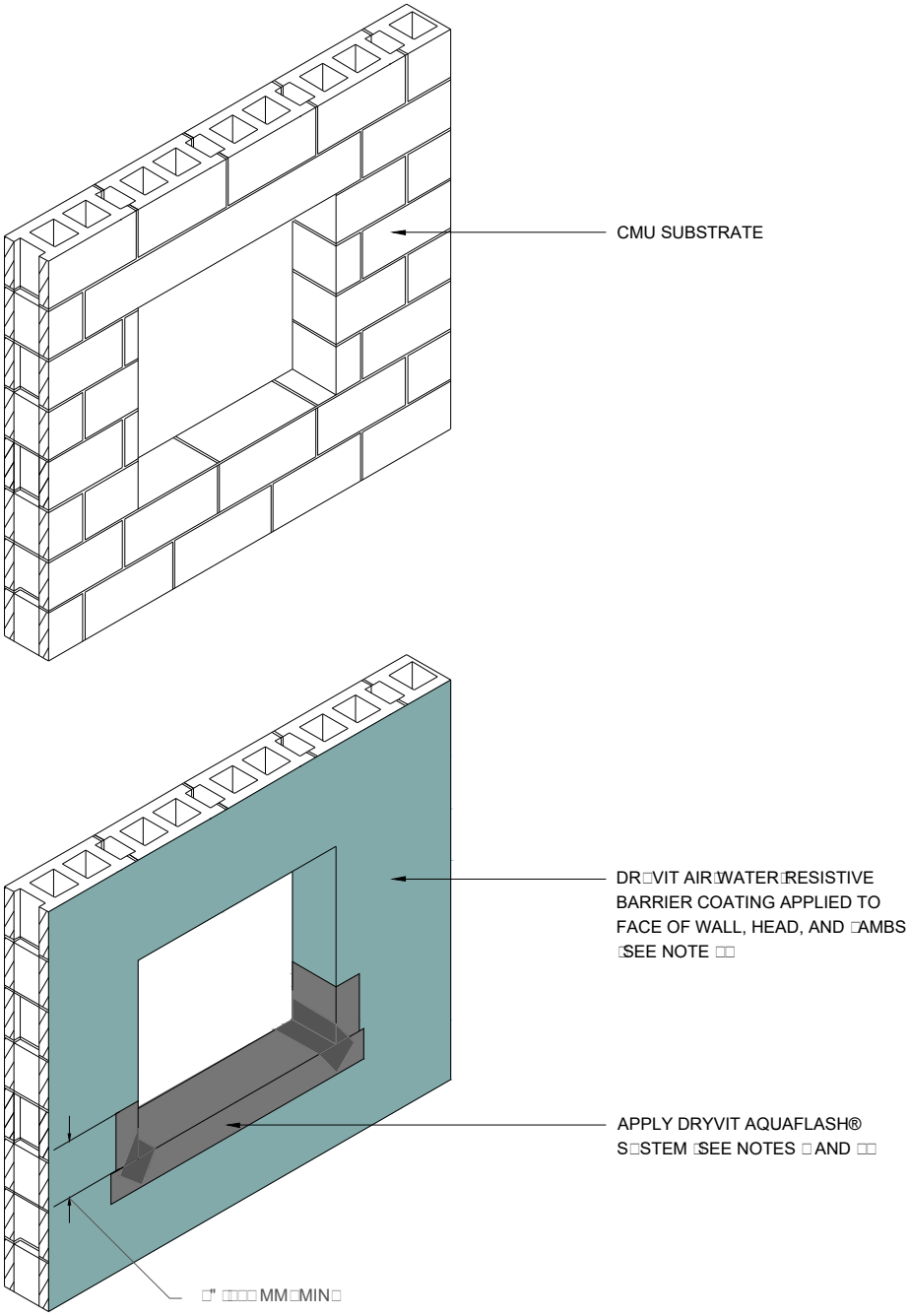
NOTE□

□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

□□AS AN OPTION DR□VIT DRAINAGE TRACK™ CAN BE USED AT SYSTEM TERMINATION AT GRADE, REFER TO OPMD □□□□□M FOR CONFIGURATION□

□□DR□VIT DRAINAGE TRAC□ SHALL ONL□ BE USED AT GRADE LEVEL TERMINATIONS□

T□□ □r□□□□□□r□, □□□□□□r□□□, □□d d□□□□ □□□□ □r□□□□□□□□□ □□□ Dr□□□□r□d□□□ □□ □□□ r□□□□□□□□□□□□ □□□□ □r□□□□d □□□□ □r□□□□□□□□A□□□□□□□ □ □ □□□□□ □□□ □ □□□ □□□□□□□□d□□□ □□d □□d □□□d□rd□□T□□□d□□□□□ □r □□□□r□□□□r□ □□□□ □□d □□d□□□□ □□□□ □□d Dr□□□□□□□□□□□□□□d□□□□□ □ □□□ □□□□□□□ □r □□□ □□□ □□□□□d□□□□□d □r □□□ □r□□□□□□r□, d□□□□, □□□□□□r□□ □r □r□□ □□□□□ □□□□□ □r□□□□T□□ □r□□□□d□□□□ □r□□□□□□□□d□□r□ □□□□, □□ □□□ □□□□ d□□r□□□□, □ □□□□r □□□□ d□□□□r □ □□□□□□□□□□ □□□□□□□□□d□□□□□ □□□□□□□□d □r □□□ □r□□□□U□□ □□□□ □□□□□□□□□□ □□□□□□□□□d□□□d□□□ □□□□□□□□□ Dr□□□□ □ □rr□□□□T□□□d□□□□□ □□□□□□□□ □□□□□ □ □□□□□□□□□□□□ C□□□□□Dr□□□□□ □□□□r□ □□□ □□□□ □□□ □ □□□r□□□□□□r□□□□



Outsulation® Plus MD System®

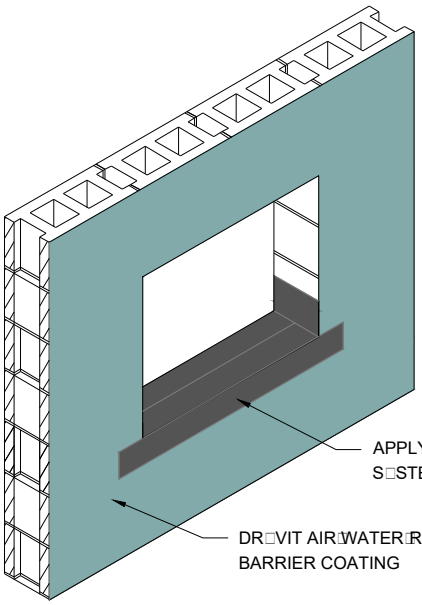
O□□□□□□ Pr□□□r□□□□ □ Backstop® NT™ Option

NOTE□
□□INSTALL WINDOW UNIT AND ASSOCIATED FLASHING PER MANUFACTURER□S RECOMMENDATIONS, CODE RE□UIREMENTS AND PRO□ECT DOCUMENTS□

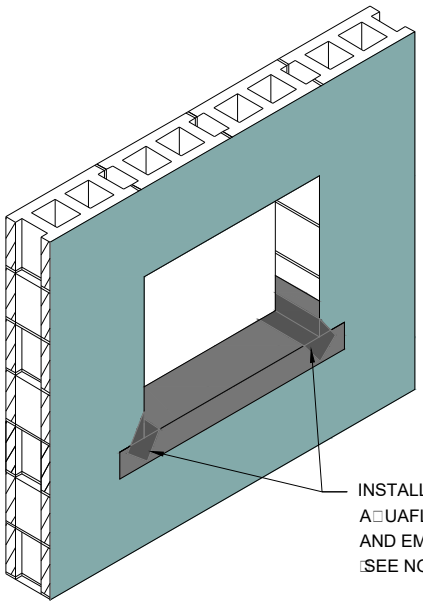
□□REFER TO HEAD, SILL, AND □AMB DETAILS FOR FLASHING INTEGRATION□

□□FOR ADDITIONAL AIR□WATER□RESISTIVE BARRIER DETAILS, REFER TO DR□VIT PUBLICATION DS□□□□

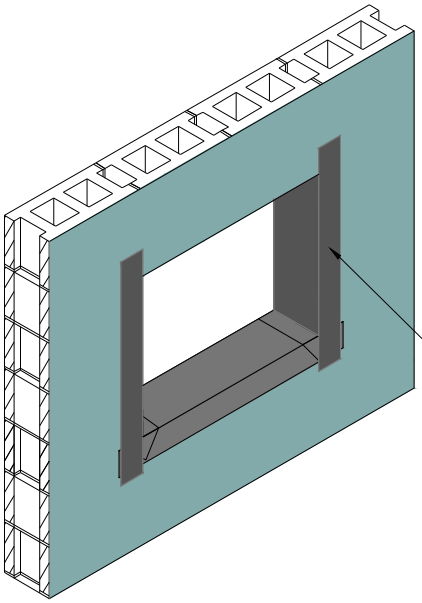
T□□ □r□□□□□□r□, □□□□□□r□□□, □□d d□□□□ □□□□ □r□□□□□□□□ □□□ Dr□□□□r□d□□□ □□ □□□ r□□□□□□□□□□□ □□□□ □r□□□□d □□□□ □r□□□□□□□□A□□□□□□□ □ □ □□□□□ □□□ □ □□ □□□□□□□d□□□ □□d □□d □□□d□rd□□T□□□d□□□□□ □r □□□r□□□□□r□ □□□□ □□d □□d□□□□ □□□□ □□d Dr□□□□□□□□□□□□□d□□□□□ □ □□□ □□□□□□ □r □□□ □□□ □□□□□d□□□□□d □r □□□ □r□□□□□r□, d□□□□, □□□□□r□□□ □r □ □r□□ □□□□□ □□□□ □r□□□□T□□ □r□□□d□□□□ □r□□□□□□□□d□r□ □□□□, □□ □□□ □□□□ d□r□□□□, □ □□□□r □□□□ d□□□r □ □□□□□□□□□ □□□□□□□□d□□□□ □□□□□□□d □r □□□ □r□□□□U□□ □□□ □□□□□□□□□ □□□□□□□□d□□□d□□ □□□□□□□□ Dr□□□ □ □rr□□□T□□ d□□□□ □□□□□□□ □□□□□□ □ □□□□□□□□□□ C□□□□Dr□□□□ □□□r□ □□□ □□□ □□□ □ □□r□□□□□r□□□



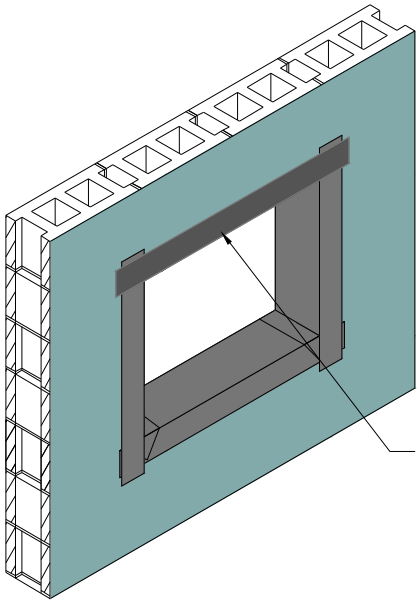
STEP #1



STEP #2



STEP #3



STEP #4

Outsulation® Plus MD System®

O□□□□□□ Pr□□□r□□□□□ □ AquaFlash® System[5] Option

NOTE□

□□DR□VIT A□UAFLASH SHALL EXTEND TO INTERIOR FACE OF OPENING□

□□REFER TO HEAD, SILL AND □AMB DETAILS FOR FLASHING INTEGRATION□

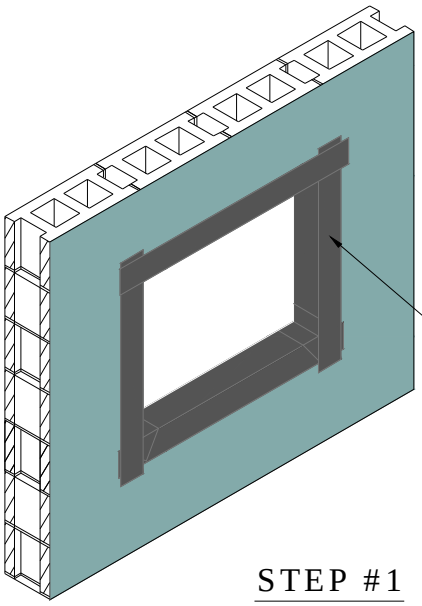
□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

□□INSTALL WINDOW UNIT AND ASSOCIATED FLASHING PER MANUFACTURER□S RECOMMENDATIONS, CODE RE□UIREMENTS AND PRO□ECT DOCUMENTS□

□□A□UAFLASH S□STEM CONSISTS OF A□UAFLASH MESH AND A□UAFLASH LI□UID□

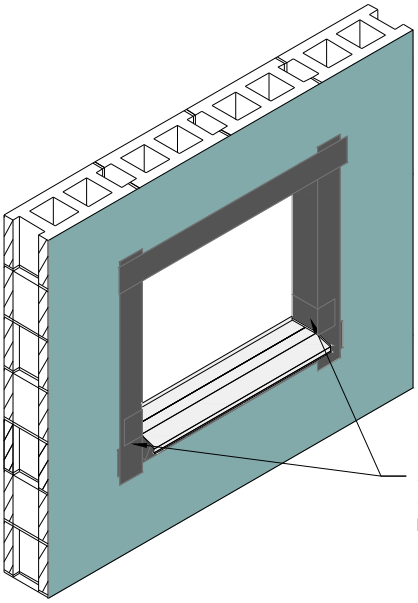
□□FOR ADDITIONAL AIR□WATER□RESISTIVE BARRIER DETAILS, REFER TO DR□VIT PUBLICATION DS□□□□

T□□ □r□□□□□□r□, □□□□□□r□□□, □□d d□□□□ □□□□ □r□□□□□□□□□ □□□ Dr□□□□r□d□□□ □□ □□□ r□□□□□□□□□□□□ □□□□ □r□□□□ d□□□□ □r□□□□□□□□A□□□□□□□ □ □ □□□□□ □□□ □ □□□ □□□□□□□□d□□□ □□d□□ □□d □□□□d□rd□□T□□□d□□□□□ □r □□□□r□□□□r□ □□□□ □□d □□d□□□□ □□□□ □□d Dr□□□□□□□□□□□□□□d□□□□□ □ □□□ □□□□□□ □r □□□ □□□ □□□□□d□□□□□□d □r □□□ □r□□□□□□r□, d□□□□, □□□□□□r□□ □r □ r□□ □□□□□ □□□□□ □r□□□□T□□ □r□□□□d□□□□ □r□□□□□□□□d□r□ □□□□, □□ □□ □□□□ d□r□□□□, □ □□□□□r □□□□ d□□□□r □ □□□□□□□□□□ □□□□□□□□d□□□□□ □□□□□□□d □r □□□ □r□□□□U□□ □□□□ □□□□□□□□□□ □□□□□□□□d□□□d□□□ □□□□□□□□ Dr□□□□ □ rr□□□□T□□d□□□□□□ □□□□□□□□ □□□□□□ □ □□□□□□□□□□□□ C□□□□□Dr□□□□□ □□□r□ □□□ □□□□ □□□ □ □□□r□□□□□□r□□□□



REFER TO OPMD □□□□□□M, AND OPMD □□□□□□M FOR PREPARATION OF OPENING PRIOR TO FLASHING INSTALLATION

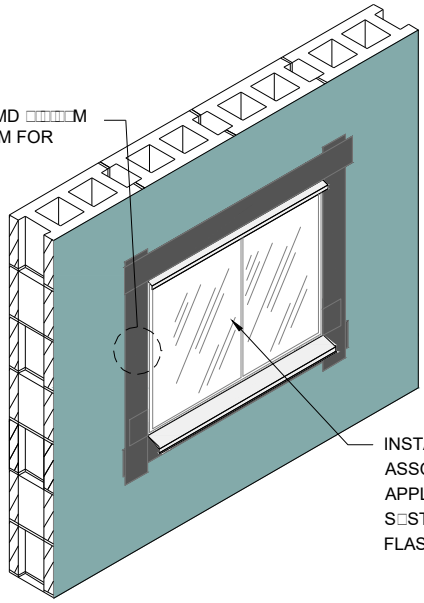
STEP #1



APPLY DRYVIT AQUAFLASH® S□STEM SPLICES LAPPING OVER LIP OF SILL PAN FLASHING□ □SEE NOTES □ AND □□

STEP #2

REFER TO OPMD □□□□□□M □ OPMD □□□□□□M FOR □AMB DETAIL



INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS AND APPL□ DR□VIT A□UAFLASH S□STEM OVER VERTICAL LEG OF FLASHING □SEE NOTES □ AND □□

STEP #3

Outsulation® Plus MD System®

O□□□□□□ F□□□□□□□ I□□□□r□□□□

NOTE□
□□REFER TO OPMD □□□□□□M AND OPMD □□□□□□M FOR INTEGRATION OF FLASHING□

□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

□□FOR ADDITIONAL AIR□WATER□RESISTIVE BARRIER DETAILS, REFER TO DR□VIT PUBLICATION DS□□□□

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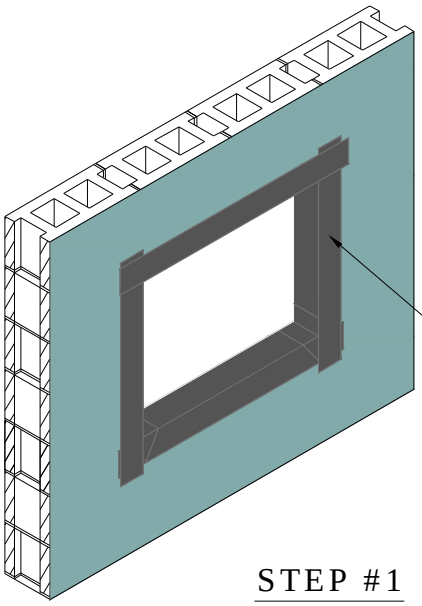
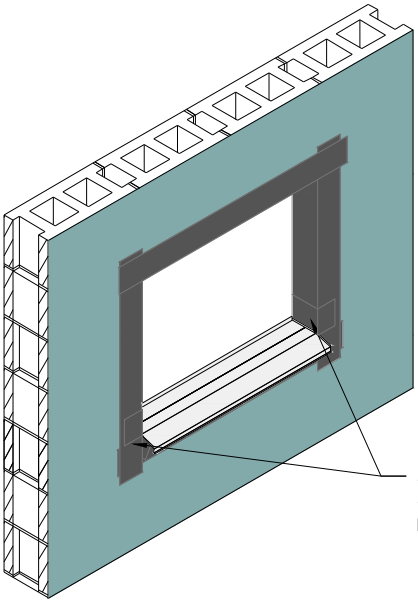


REFER TO OPMD □□□□□□M, AND OPMD □□□□□□M FOR PREPARATION OF OPENING PRIOR TO FLASHING INSTALLATION

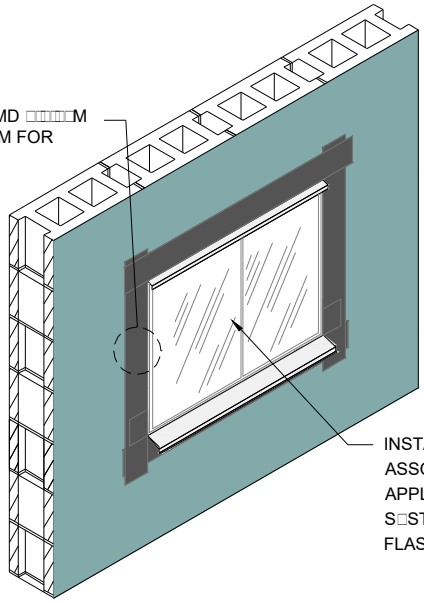
STEP #1



APPLY DRYVIT AQUAFLASH® S□STEM SPLICES LAPPING OVER LIP OF SILL PAN FLASHING□ □SEE NOTES □ AND □□

STEP #2

REFER TO OPMD □□□□□□M □ OPMD □□□□□□M FOR □AMB DETAIL



INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS AND APPL□ DR□VIT A□UAFLASH S□STEM OVER VERTICAL LEG OF FLASHING □SEE NOTES □ AND □□

STEP #3

Outsulation® Plus MD System®

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NOTE□
□□REFER TO OPMD □□□□□□M AND OPMD □□□□□□M FOR INTEGRATION OF FLASHING□

□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

□□FOR ADDITIONAL AIR□WATER□RESISTIVE BARRIER DETAILS, REFER TO DR□VIT PUBLICATION DS□□□□

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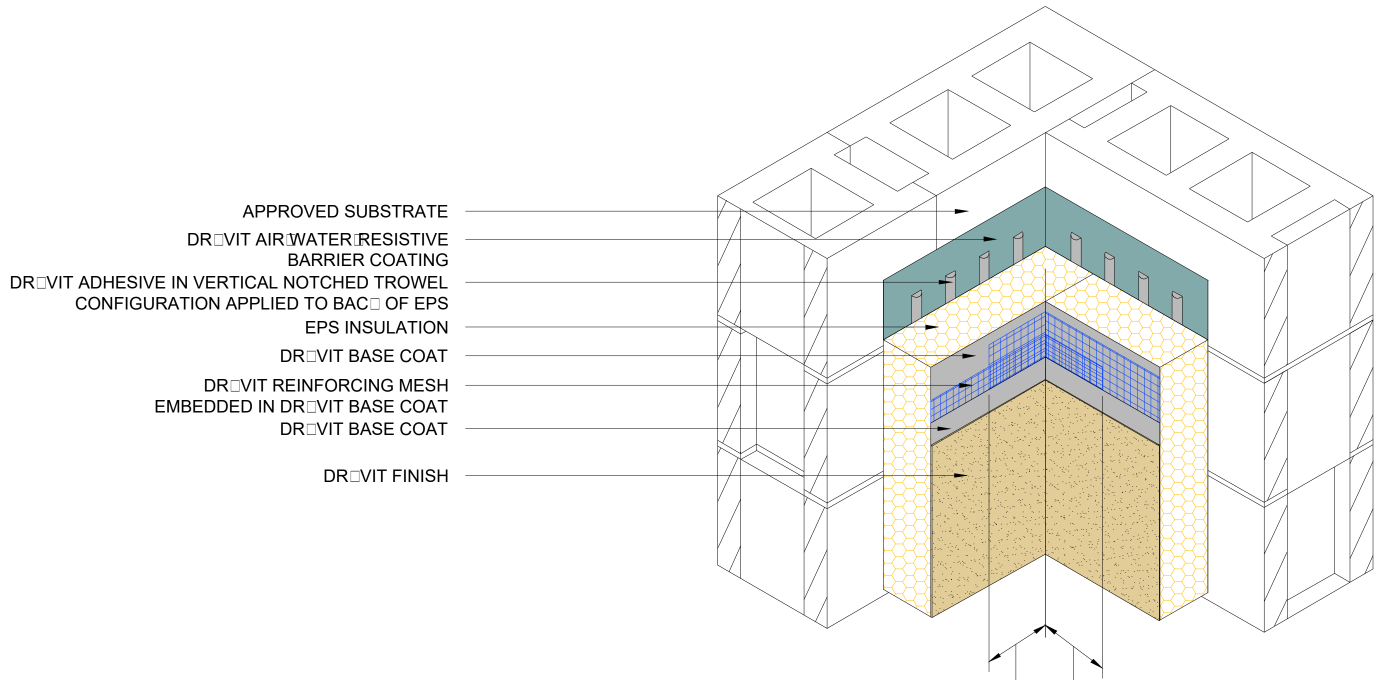
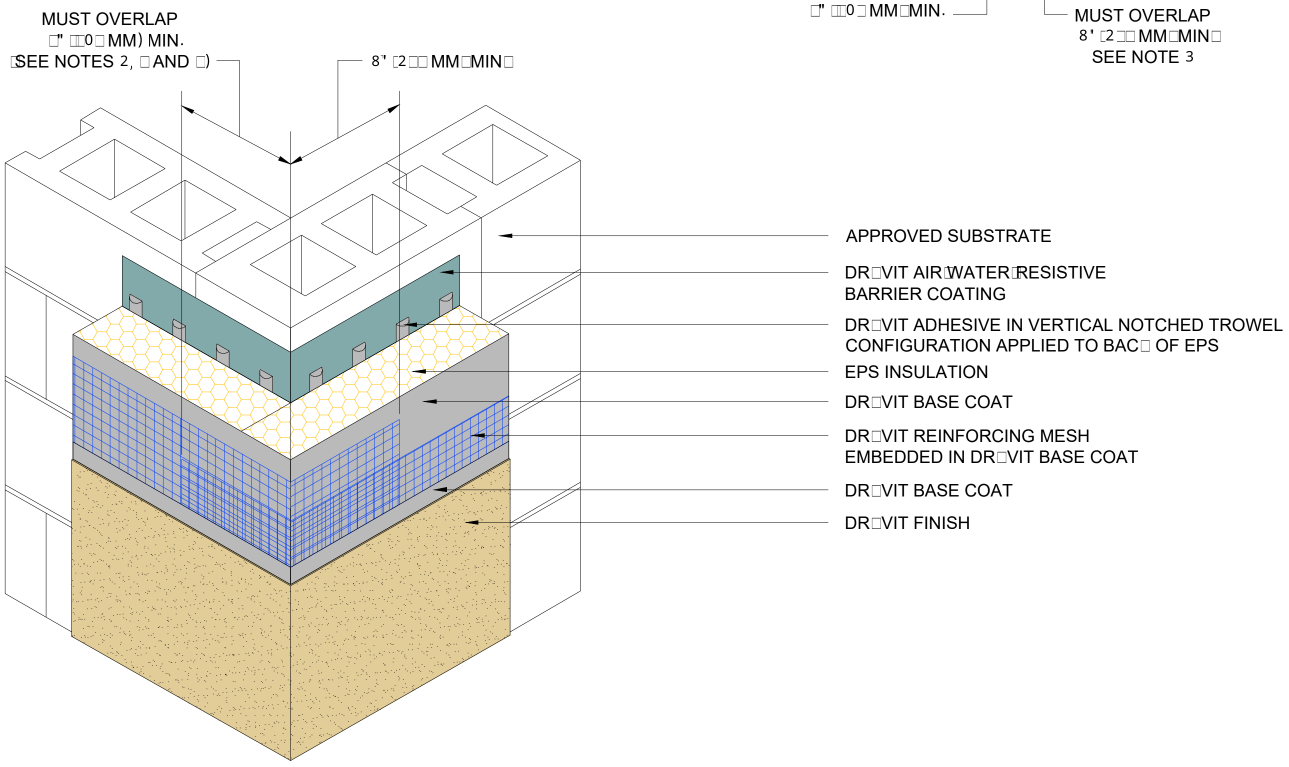




Outsulation® Plus MD System®

I□□d□□O□□□d□ C□r□□r□

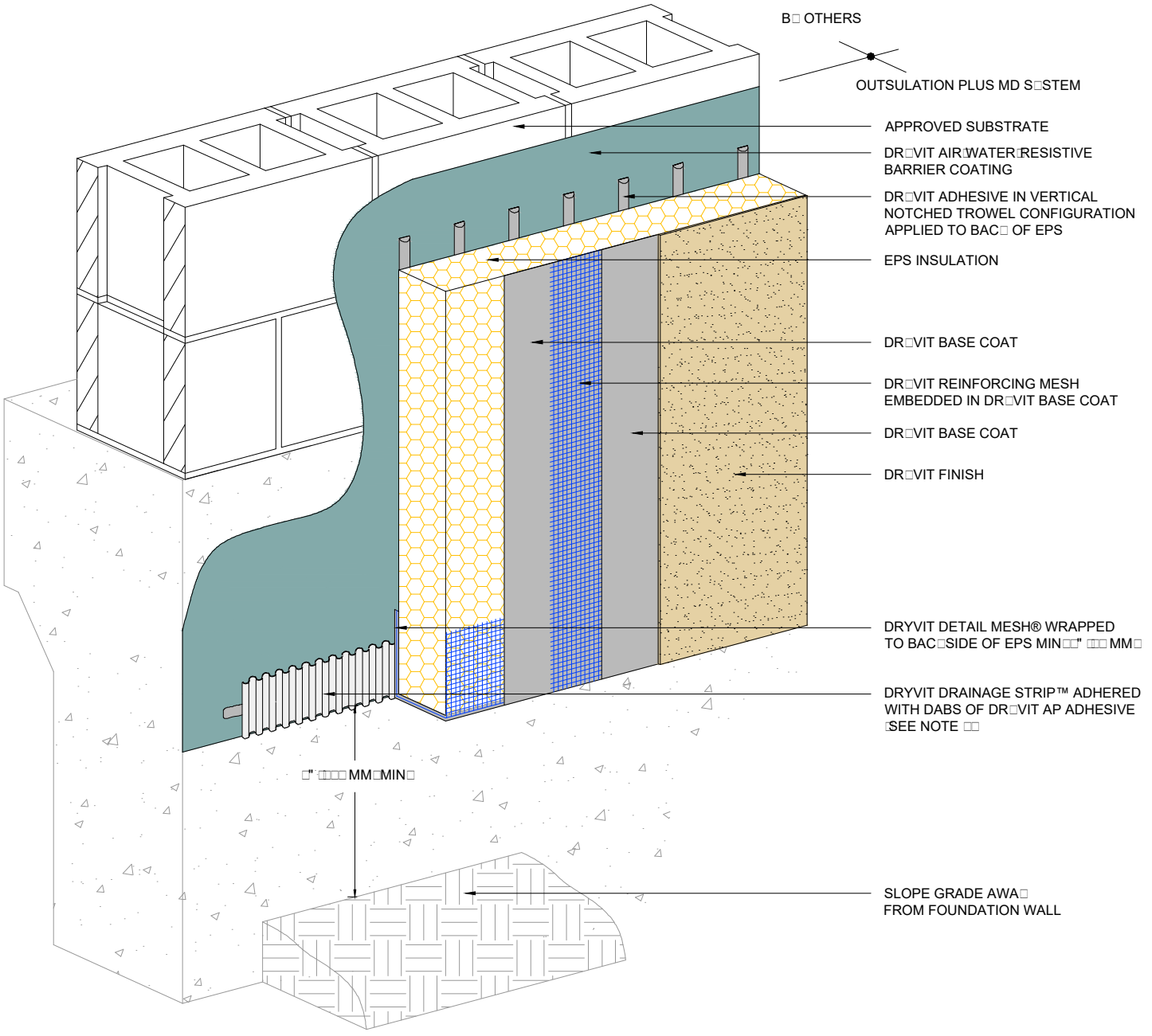
NOTE□
1□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

□. DOUBLE WRAP OUTSIDE CORNERS WITH REINFORCING MESH OR USE CORNER MESH□

□. DO NOT LAP REINFORCING MESH WITHIN □" □□□3 MM□OF A CORNER□

□□OUTSIDE INSULATION BOARD EDGES SHALL BE OFFSET.

T□□ □r□□□□□□r□, □□□□□□r□□□, □□d d□□□□ □□□□ □r□□□□□□□□□ □□□ Dr□□□□r□d□□□ □□ □□□ r□□□□□□□□□□□□ □□□□ p□o□e□ts d□sign □r□□□□□□□□. A□□□□□□□ □ □ □□□□□□ □□□ □ □□□ □□□□□□□□d□□□ □□d□□ □□d □□□□d□rd□. T□□□d□□□□□□ for □□□□r□□□□□r□ □□□□ □□d □□d□□□ □□□□ □□d Dr□□□□□□□□□□□□□d□□□□□ □ □□□ □□□□□□□ for □□□ □□□ □□□□□d□□□□□□d □□r □□□ □r□□□□□□r□, d□□□□, □□□□□□r□□ □r □r□□ □□□□□ □□□□ □r□□□□T□□ □r□□□d□□□□ □r□□□□□□□□d□□r□ □□□□, □□ i s □□□□ d□□r□□□□, □ □□□□r □□□□ d□□□□r □ □□□□□□□□□□ □□□□□□□□d□□□□ □□□□□□□d for □□□ □r□□□. U□□ □□□ □□□□□□□□□ □□□□□□□□d□□□d□□ □□□□□□□□ Dr□□□ □ rr□□□. T□□d□□□□□□ □□□□□□□□ □□□□□□ □ □□□□□□□□□□□□ C□□□□□Dr□□□□ e□su□e □□□ □□□□ □□□ □ □□□r□□□□□r□□□.



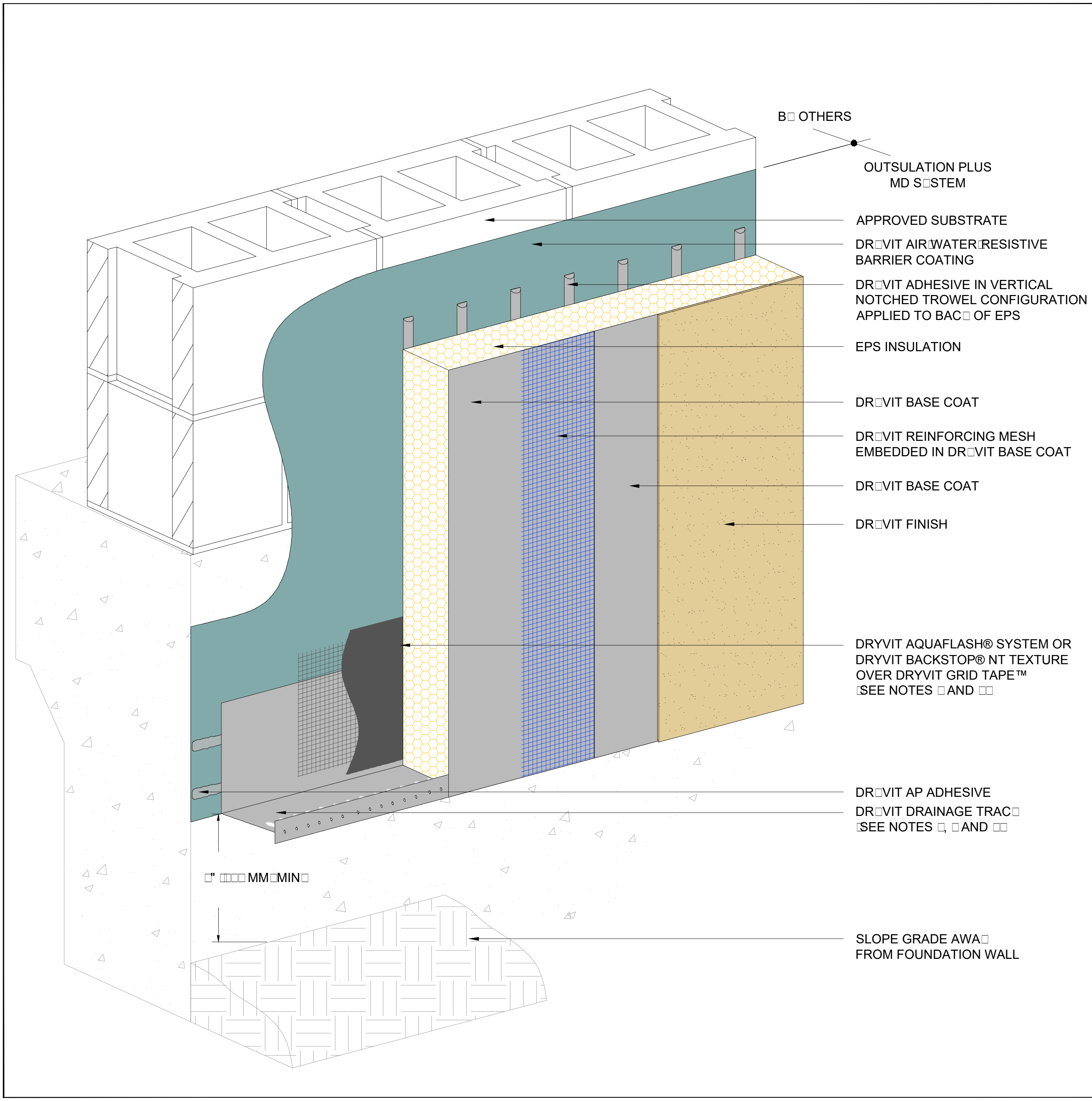
Outsulation® Plus MD System®

Gr□d□ T□r□ □□□□□□ □ □□□ Dr□□□□□□ S□r□□

NOTE□
□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

□□ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN□

T□□ □r□□□□□□r□, □□□□□□r□□□, □□d d□□□□ □□□□ □r□□□□□□□□□ □□□ Dr□□□□r□d□□□ □□ □□□ r□□□□□□□□□□□ □□□□ □r□□□□ d□□□□ □r□□□□□□□□A□□□□□□□ □ □ □□□□□ □□□ □ □□□ □□□□□□□□d□□□ □□d□□ □□d □□□□d□rd□□T□□□d□□□□□ □r □□□□r□□□□r□ □□□□ □□d □□d□□□□ □□□□ □□d Dr□□□□□□□□□□□□□□d□□□□□ □ □□□ □□□□□□ □r □□□ □□□ □□□□□d□□□□□d □r □□□ □r□□□□□□r□, d□□□□, □□□□□□r□□ □r □r□□ □□□□□ □□□□ □r□□□□T□□ □r□□□□d□□□□ □r□□□□□□□□d□□r□ □□□□, □□ □□ □□□□ d□r□□□□, □ □□□□r □□□□ d□□□□r □ □□□□□□□□□□ □□□□□□□□d□□□□ □□□□□□□d □r □□□ □r□□□□U□□ □□□ □□□□□□□□□ □□□□□□□□d□□□d□□ □□□□□□□□ Dr□□□ □ □rr□□□T□□d□□□□ □□□□□□□ □□□□□ □ □□□□□□□□□□ C□□□□Dr□□□□ □□□r□ □□□ □□□ □□ □ □□r□□□□□r□□□



Outsulation® Plus MD System®

Grade Termination with Drainage Track

NOTES

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.

2. LIGHTLY SAND SURFACE OF DRAINAGE TRACK TO MAXIMIZE ADHESION.

3. DRYVIT DRAINAGE STRIP MAY BE SUBSTITUTED FOR DRYVIT DRAINAGE TRACK. IF DRYVIT DRAINAGE STRIP IS USED, EPS INSULATION MUST BE BACK WRAPPED WITH DRYVIT REINFORCING MESH AND DRYVIT BASE COAT (SEE OPMD [illegible]M).

4. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT AQUAFLASH SYSTEM.

5. DRAINAGE TRACK USAGE IS LIMITED TO THE BASE OF THE SYSTEM AT FINISHED GRADE LEVEL.

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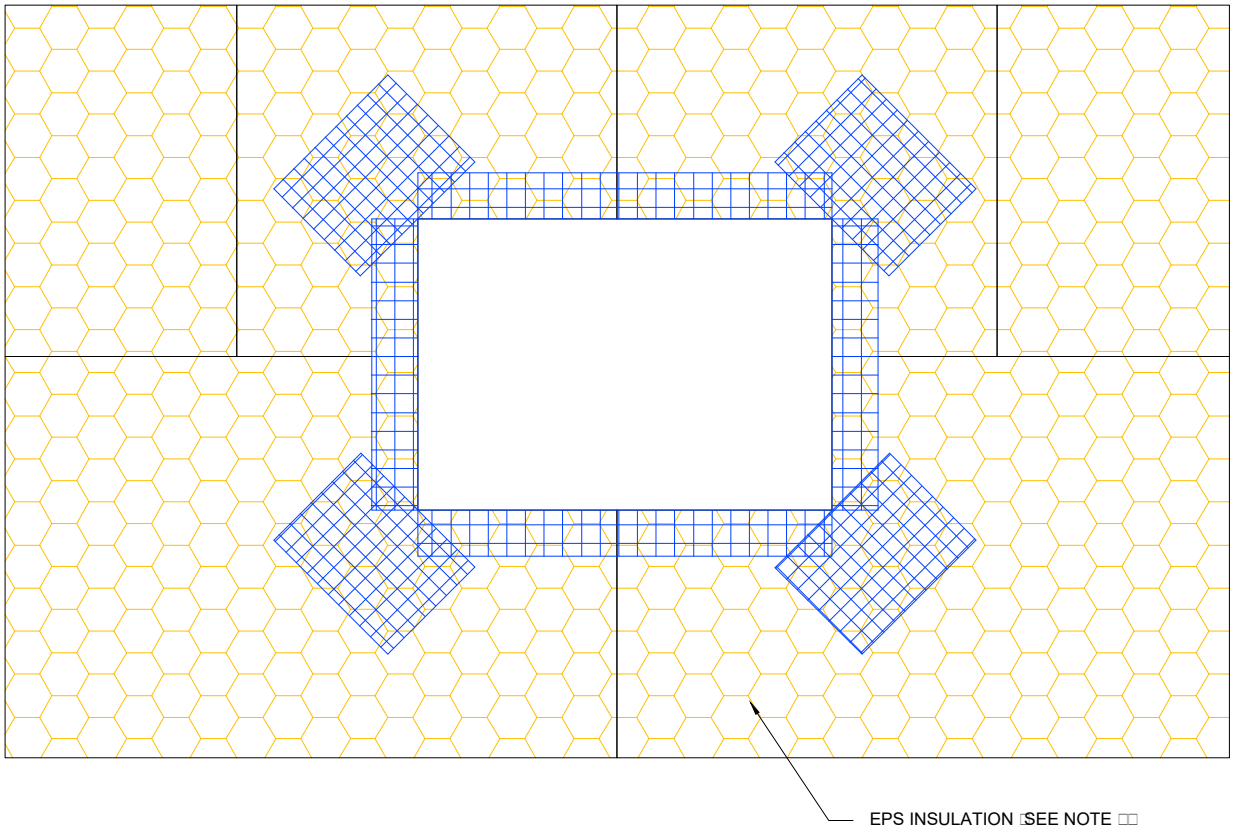

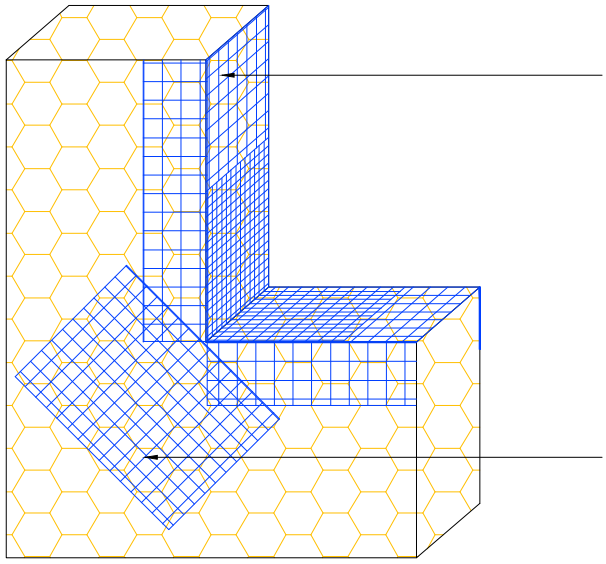

Outsulation® Plus MD System®

EPS Pr□□□r□□□□ A□W□□P□□□□r□□□□□

NOTE□
□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

□□LOCATE INSULATION BOARDS SUCH THAT BOARD EDGES DO NOT ALIGN WITH CORNERS OF PENETRATION□

□□APPL□ A PIECE OF □ □□□" □□□□ MM□X □□" □□□□ MM□ DETAIL REINFORCING MESH DIAGONALL□ AT EACH CORNER□

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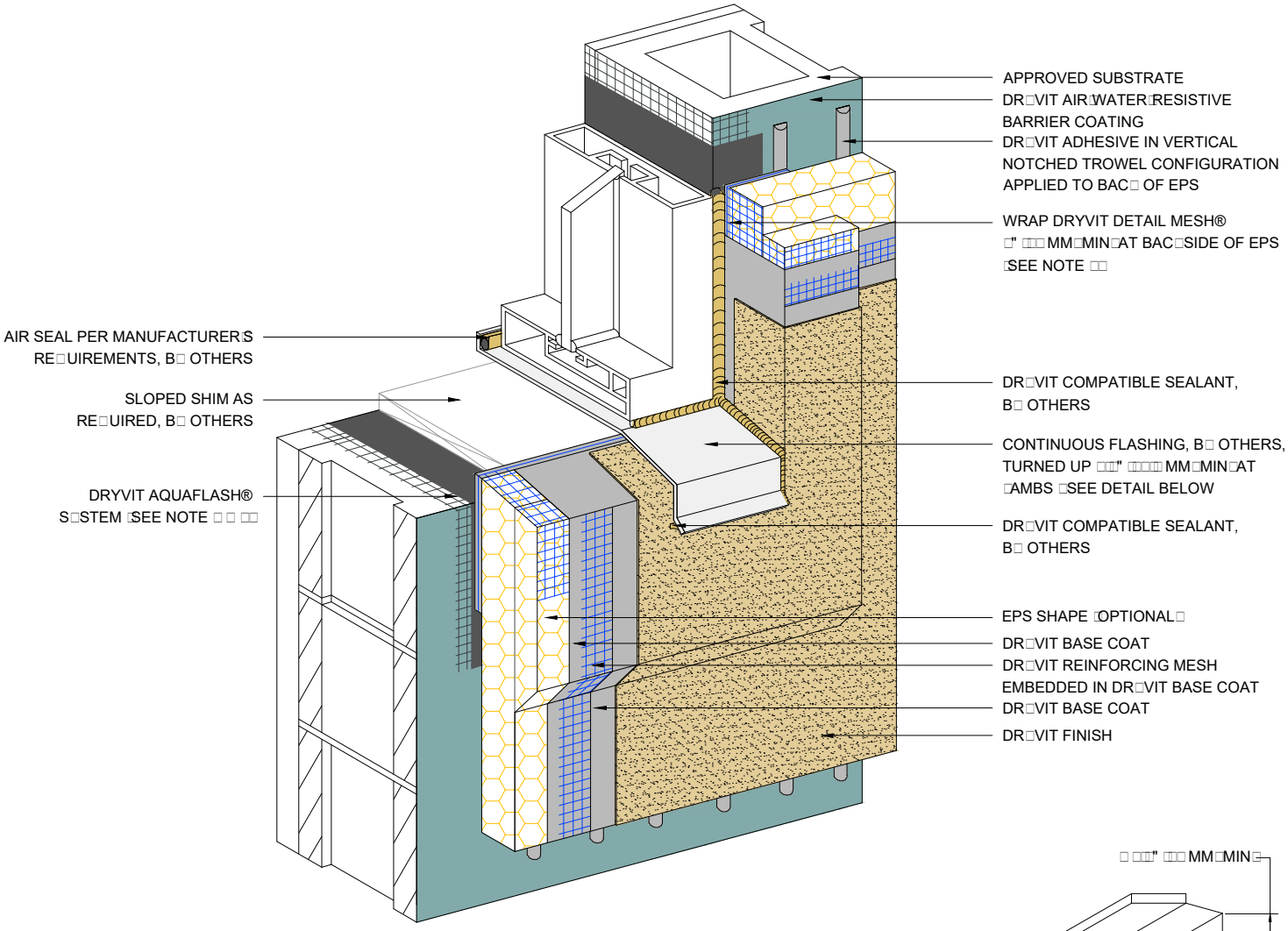

SILL PAN FLASHING DETAIL

Outsulation® Plus MD System®

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NOTE□
□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM□

3. DRYVIT BACKSTOP® NT IS AN ALTERNATIVE OPTION AT □AMB AND HEAD CONDITION PER DETAIL OPMD □□□□□M□

□□EDGE WRAPPING METHOD IS ACCEPTABLE AT SILL AND □AMB IN LIEU OF BAC□ WRAPPING□REINFORCING MESH MUST BE FULL□ EMBEDDED IN BASE COAT AT EPS EDGE AND MUST EXTEND ONTO SUBSTRATE □" □□□ MM□ MIN□

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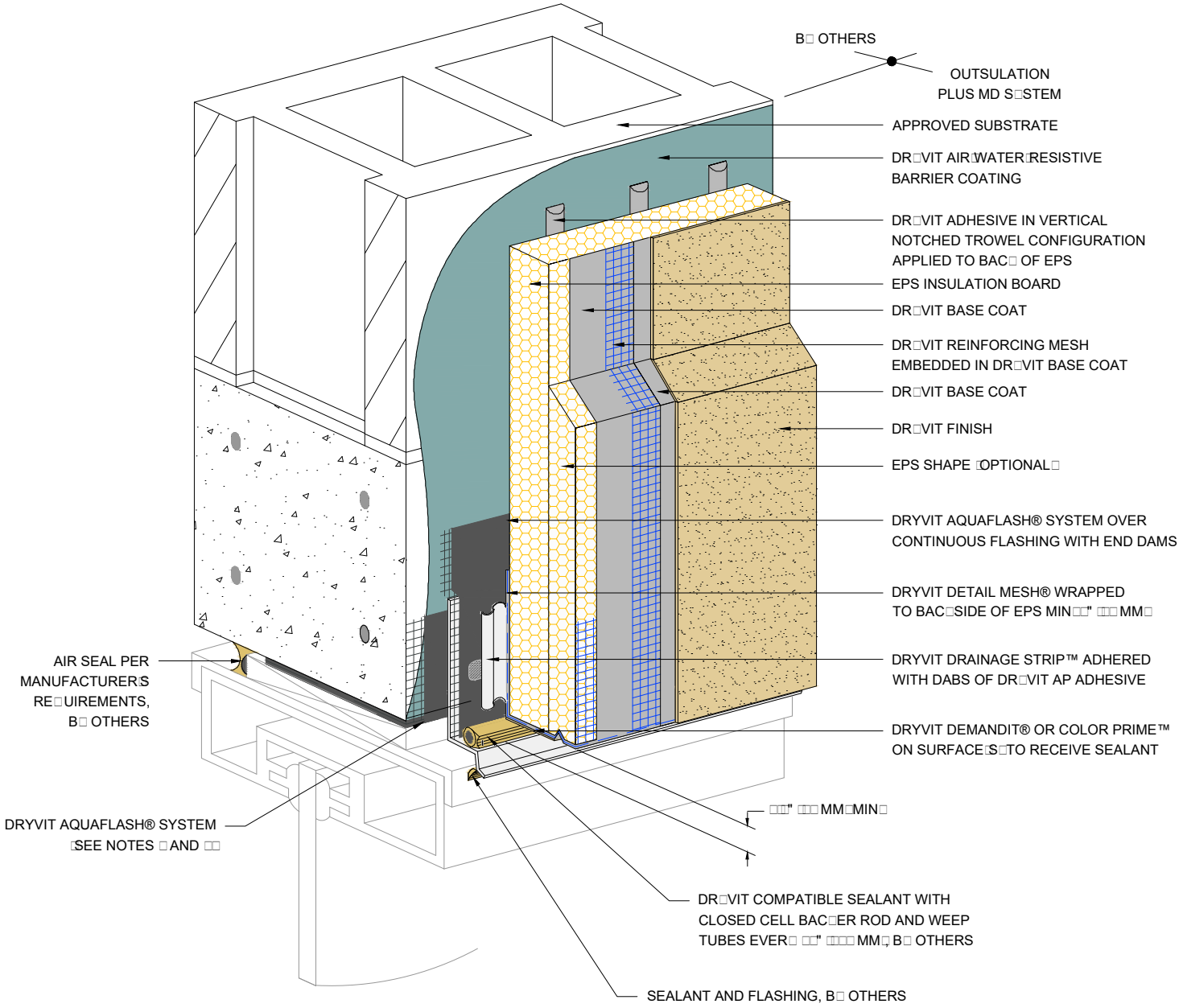

Outsulation® Plus MD System®

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□□DR□VIT AIR□WATER□RESISTIVE BARRIER COATING IS AN ALTERNATE OPTION AT □AMB AND HEAD CONDITION PER DETAIL OPMD □□□□□M□

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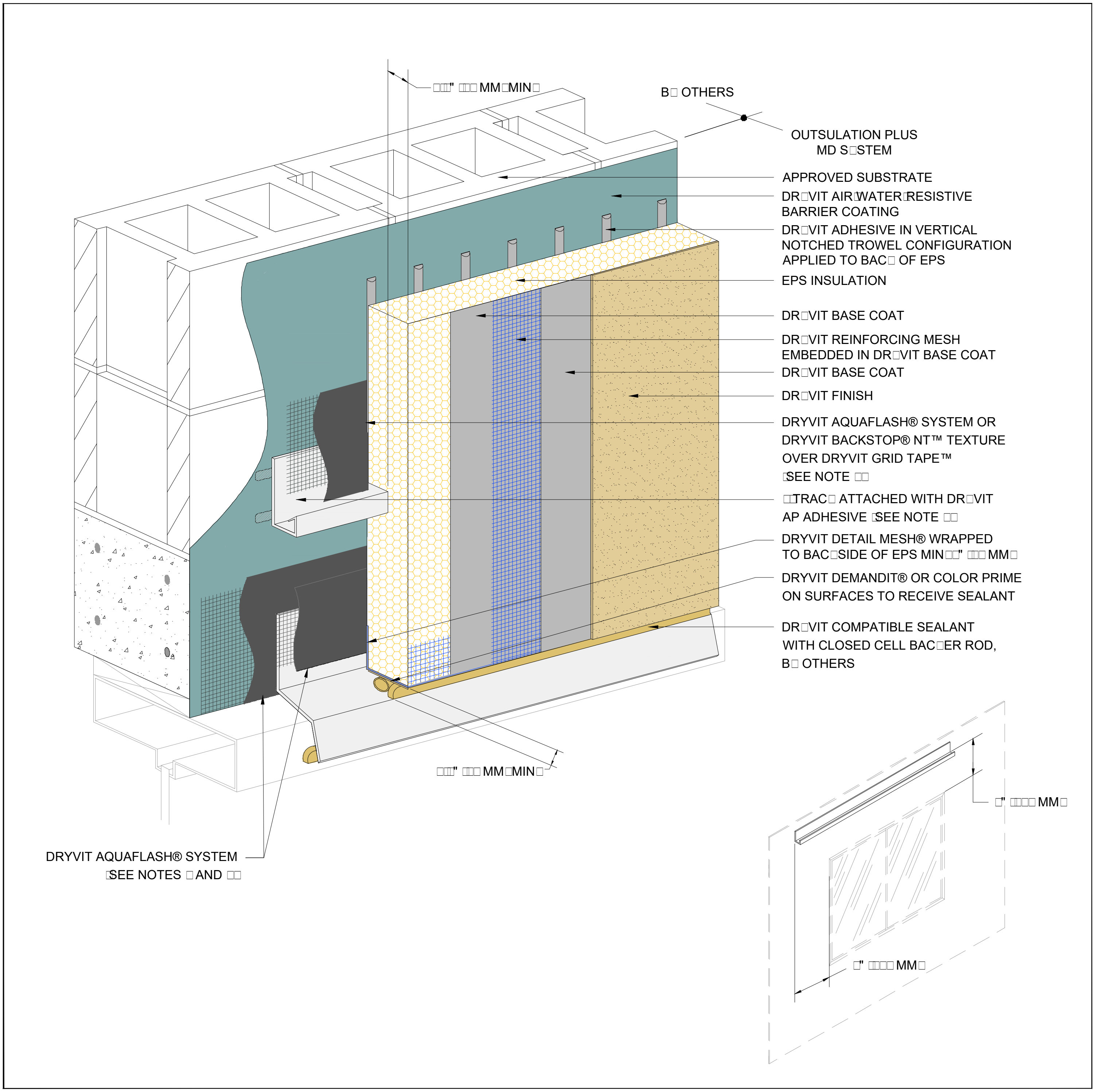

Outsulation® Plus MD System®

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NOTE□

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□□LIGHTL□ SAND SURFACE OF □TRAC□ TO MAXIMI□E ADHESION□

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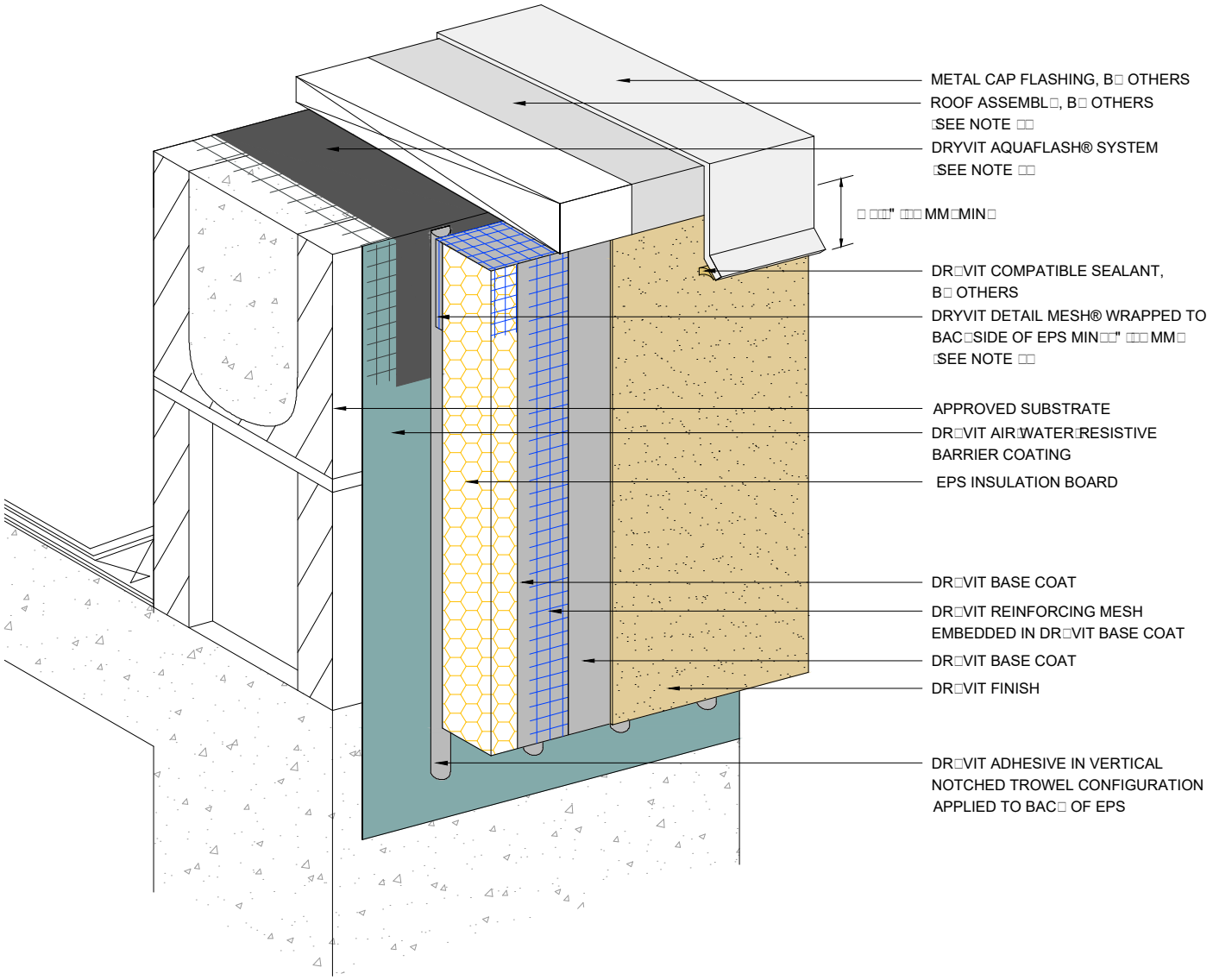

Outsulation® Plus MD System®

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□□EXTEND ROOFING MEMBRANE ACROSS TOP OF PARAPET AND DOWN FACE OF WALL □B□ OTHERS□□

□□EDGE WRAPPING METHOD IS ACCEPTABLE IN LIEU OF BAC□ WRAPPING□REINFORCING MESH MUST BE FULL□ EMBEDDED IN BASE COAT AT EPS EDGE AND MUST EXTEND ONTO SUBSTRATE □" □□□ MM□MIN□

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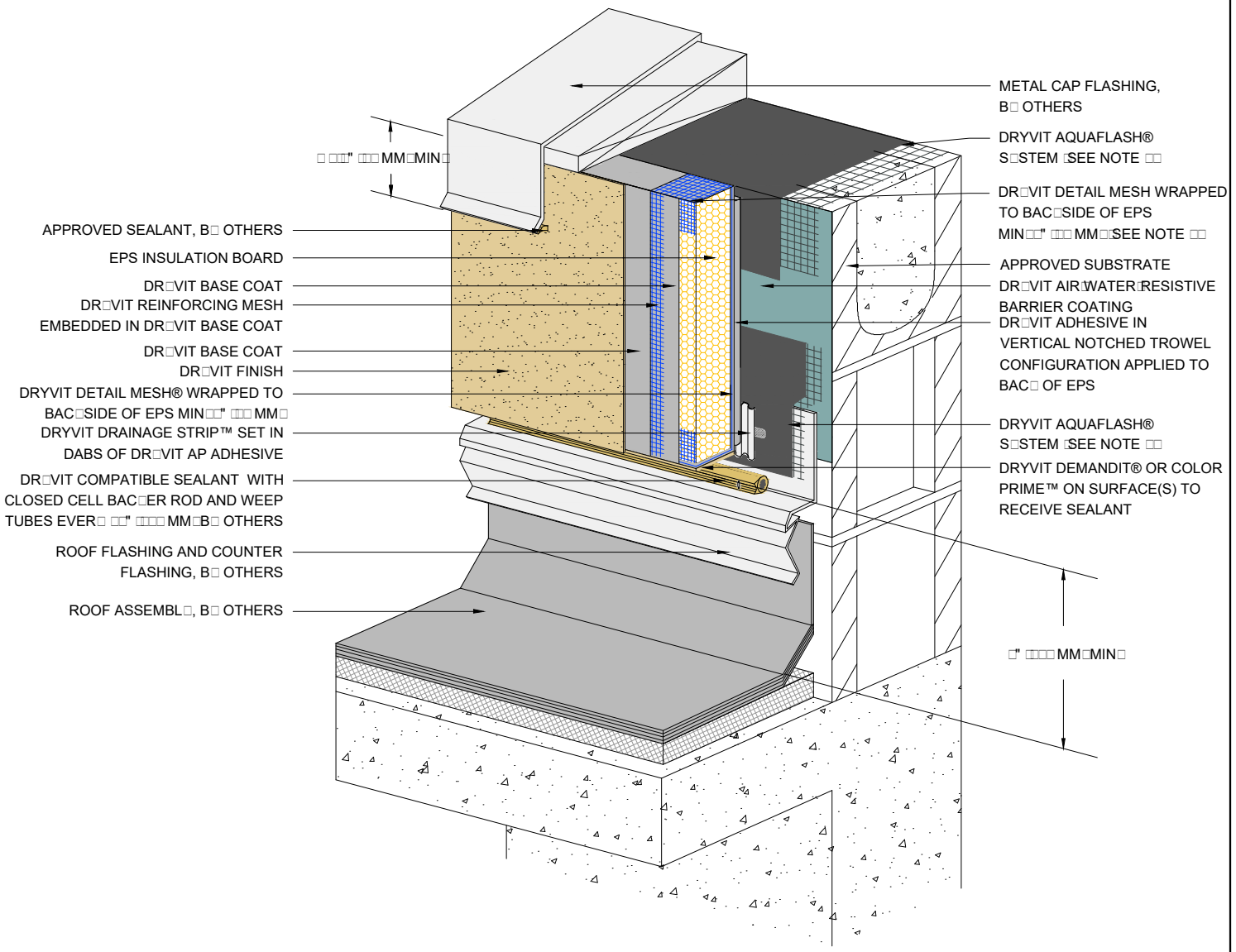

Outsulation® Plus MD System®

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NOTE□
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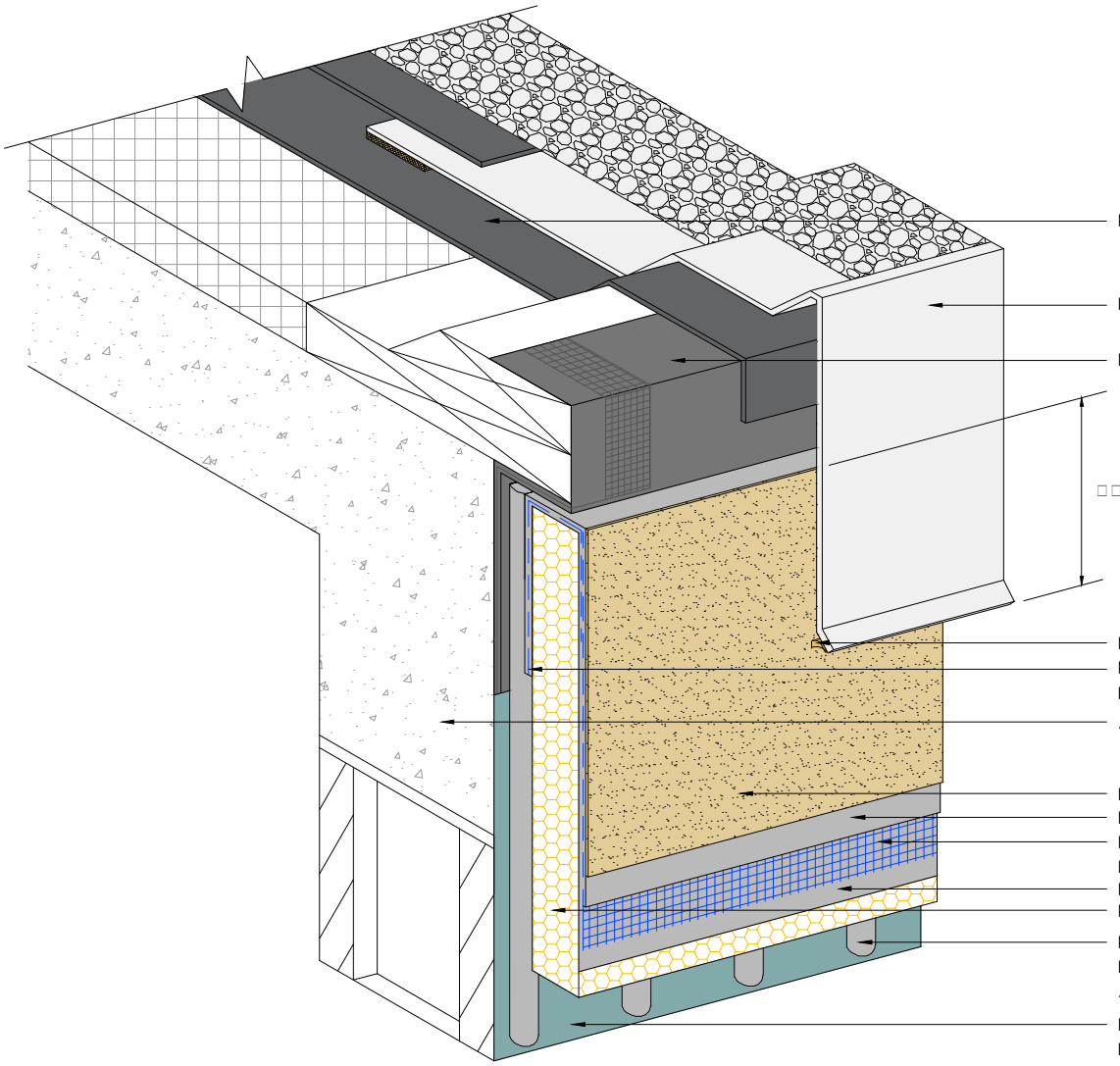

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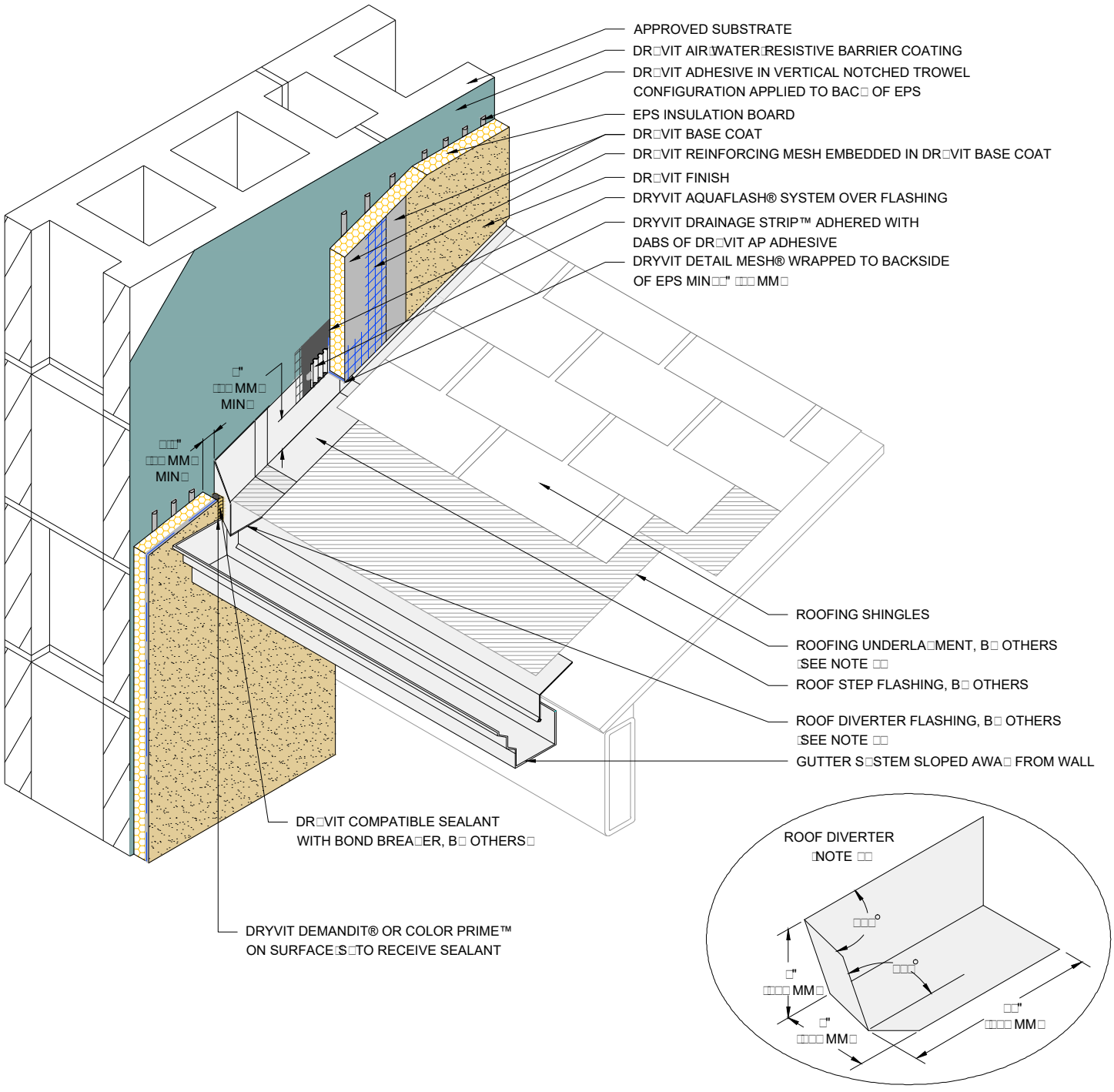

Outsulation® Plus MD System®

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NOTE□
□□EXTEND DIVERTER FLASHING □IC□OUT□ A MINIMUM OF □" □□□ MM□BE□OND FACE OF THE S□STEM□

□□ROOF DIVERTER TO BE MADE FROM CORROSION RESISTANT MATERIAL MIN□ □□GAGE WITH WATER TIGHT SEAMS□

□□EXTEND ROOFING UNDERLA□MENT □" □□□□ MM□UP VERTICAL WALL BEHIND METAL FLASHING□

□□METAL FLASHINGS ARE □□" □□□□ MM□X □" □□□ MM□ LONGER THAN THE EXPOSED PORTION OF THE ROOFING SHINGLE AND ARE BENT IN HALF TO ALLOW FOR TWO □" □□□□ MM□LEGS□ALTHOUGH NOT SHOWN, METAL FLASHINGS ARE STEP FLASHED □INTERWOVEN□WITH ROOFING SHINGLES□

□□FOR ADDITIONAL SLOPED ROOF DETAILS, REFER TO DR□VIT PUBLICATION DS□□□□

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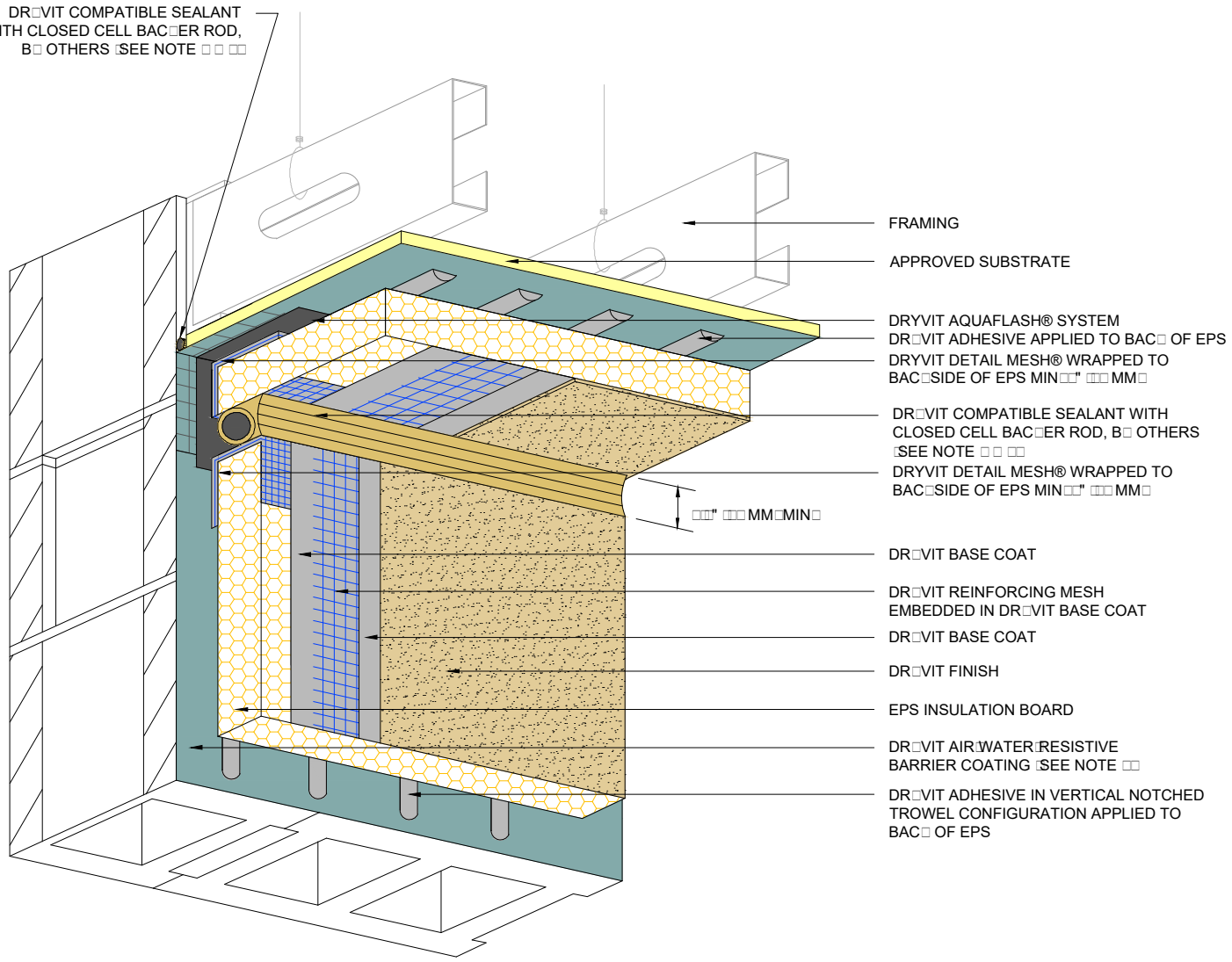

Outsulation® Plus MD System®

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NOTE□
□□DR□VIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT □ONES SHOULD BE INDICATED ON CONTRACT DRAWINGS□

2. DRYVIT DEMANDIT® OR COLOR PRIME™ ON SURFACES TO RECEIVE SEALANT□

□□DR□VIT AIR□WATER□RESISTIVE BARRIER IS RE□UIRED OVER VERTICAL SUBSTRATES□ APPLICATION OVER HORI□ONTAL SOFFIT SUBSTRATE IS OPTIONAL UNLESS RE□UIRED AS PART OF A CONTINUOUS AIR BARRIER S□STEM□

□□SEALANT □OINT IS RE□UIRED FOR SUSPENDED SOFFITS□OPTIONAL FOR RIGIDL□ FRAMED□

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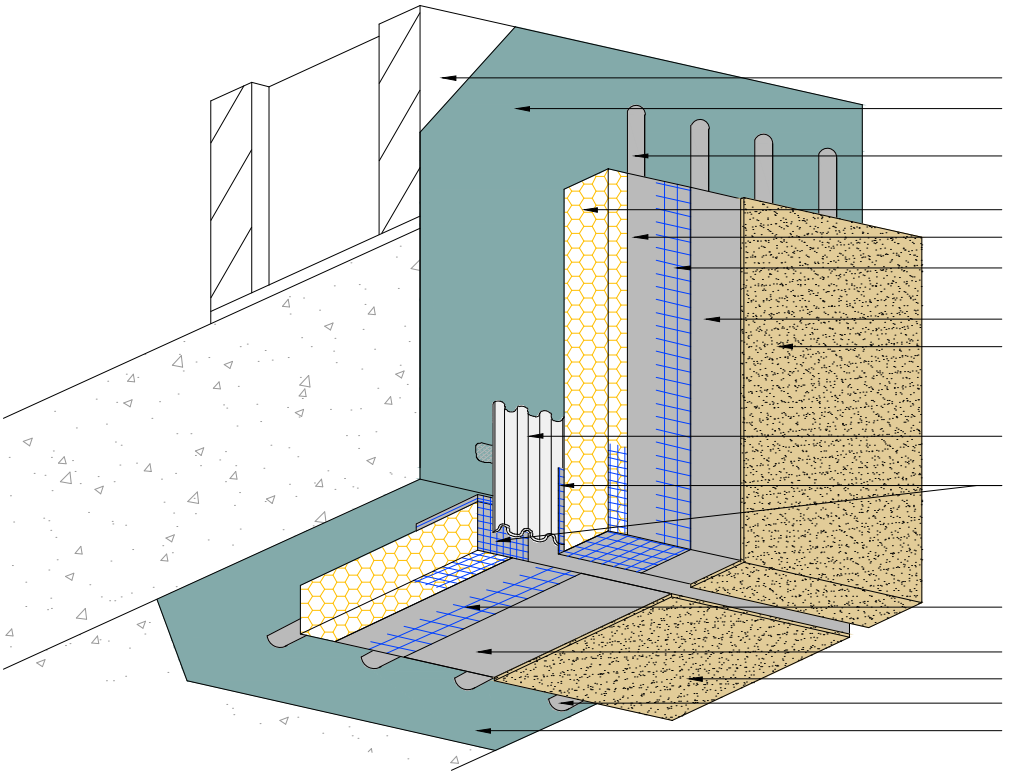

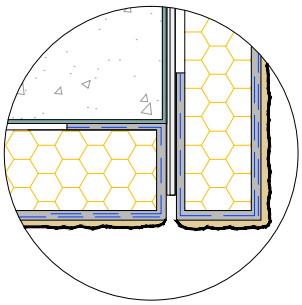

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NOTE□

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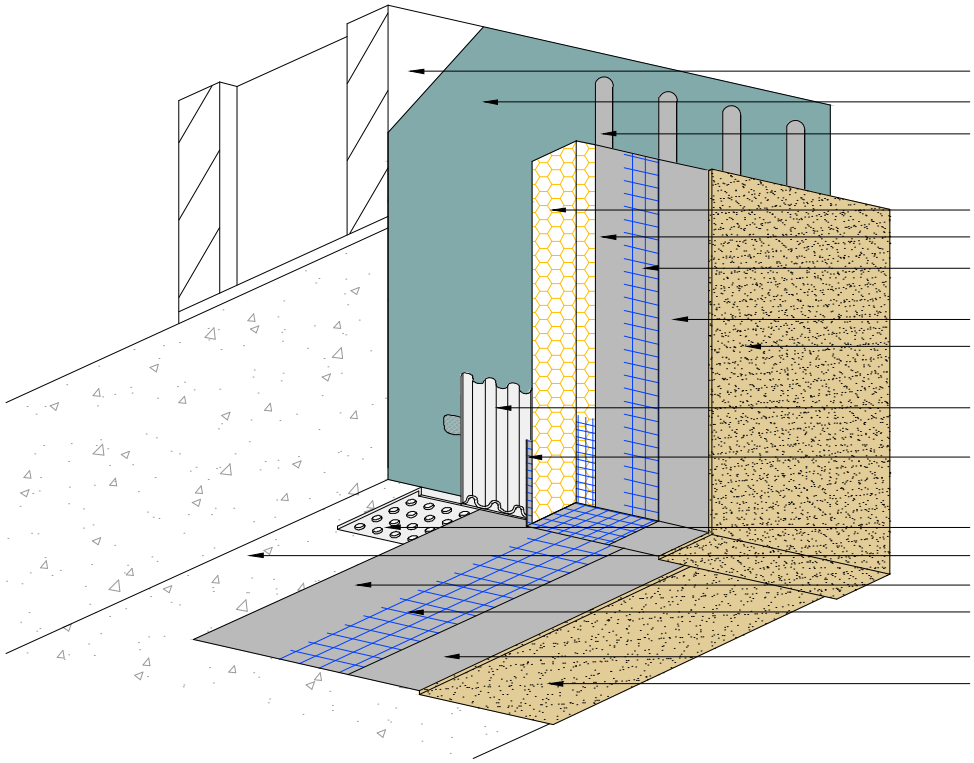

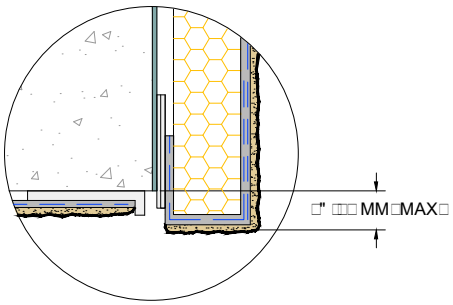

Outsulation® Plus MD System®

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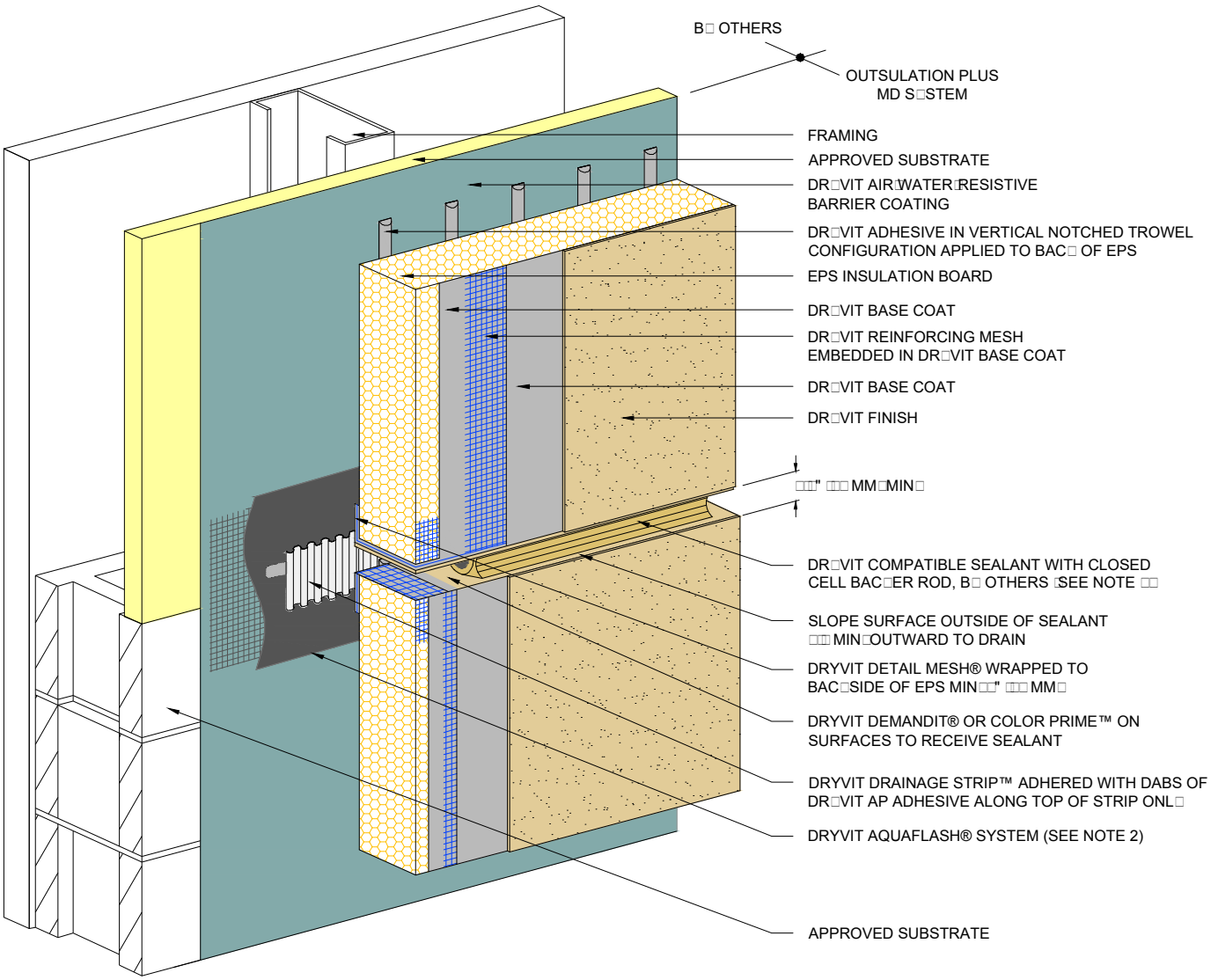

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□□DR□VIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED IN LIEU OF DRYVIT A□UAFLASH S□STEM OVER PREPARED □OINT AT CHANGE IN SUBSTRATE□

□□SEALANT SHALL NOT BE IN DIRECT CONTACT WITH ASPHALTIC ADHESIVE ON DR□VIT FLASHING TAPE□COVER DR□VIT FLASHING TAPE LAPS WITH POL□ETH□LENE TAPE OR BAC□ER ROD□

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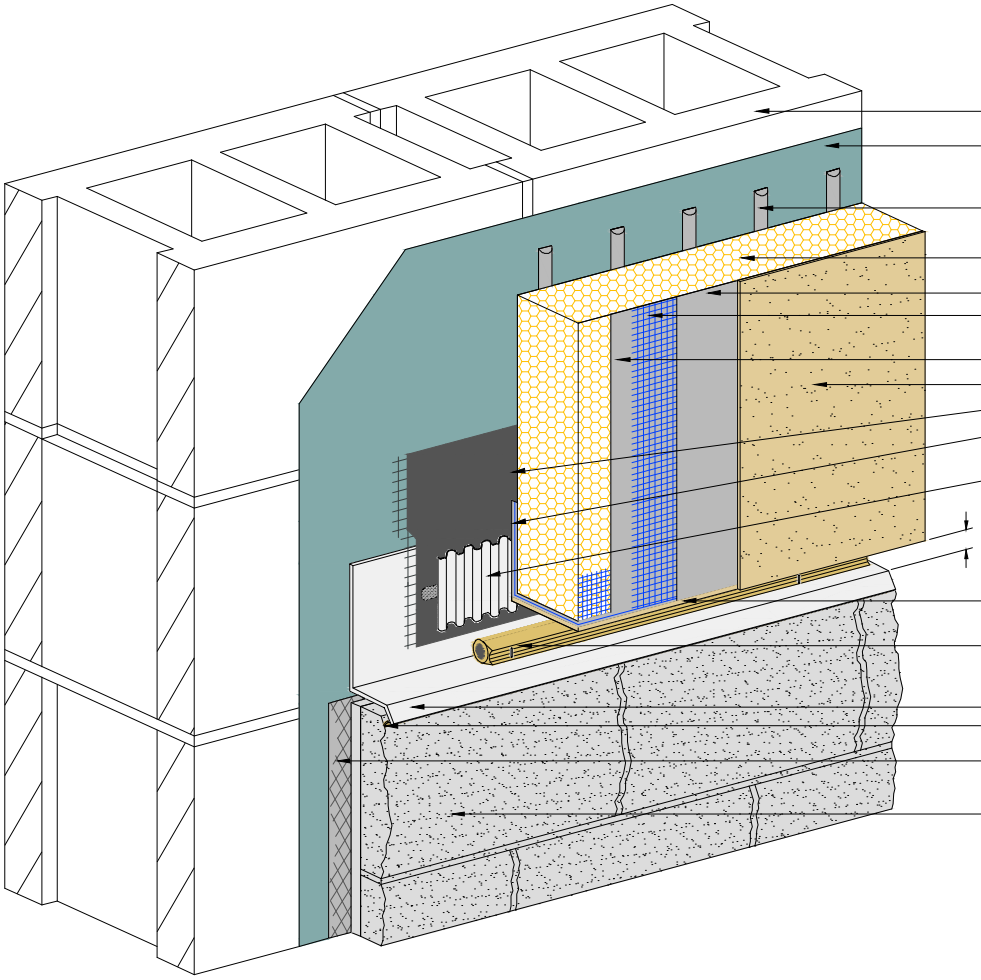

APPROVED SUBSTRATE

DR□VIT AIR□WATER□RESISTIVE BARRIER COATING EXTENDED BEHIND FLASHING □SEE NOTE □□

DR□VIT ADHESIVE IN VERTICAL NOTCHED TROWEL CONFIGURATION APPLIED TO BAC□ OF EPS

EPS INSULATION BOARD

DR□VIT BASE COAT

DR□VIT REINFORCING MESH EMBEDDED IN DR□VIT BASE COAT

DR□VIT BASE COAT

DR□VIT FINISH

DRYVIT AQUAFLASH® SYSTEM (SEE NOTE 2)

DRYVIT DETAIL MESH® WRAPPED TO BAC□SIDE OF EPS MIN□□" □□□ MM□

DRYVIT DRAINAGE STRIP™ ADHERED WITH DABS OF DR□VIT AP ADHESIVE

□□□" □□□ MM□MIN□

DRYVIT DEMANDIT® OR COLOR PRIME™ ON SURFACE□S□TO RECEIVE SEALANT

DR□VIT COMPATIBLE SEALANT WITH CLOSED CELL BAC□ER ROD AND WEEP TUBES EVER□ □□" □□□□ MM□ B□ OTHERS

CONTINUOUS FLASHING, B□ OTHERS

SEALANT WITH BOND BREA□ER, B□ OTHERS

PAPER BAC□ED EXPANDED METAL LATH OR OTHER SLIP SHEET, B□ OTHERS

STONE VENEER S□STEM, B□ OTHERS

Outsulation® Plus MD System®

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□□FOR INSTALLATION OF DR□VIT AIR□WATER□RESISTIVE BARRIER COATING BENEATH CLADDINGS OTHER THAN DR□VIT EIFS, REFER TO DR□VIT PUBLICATION DS□□□□

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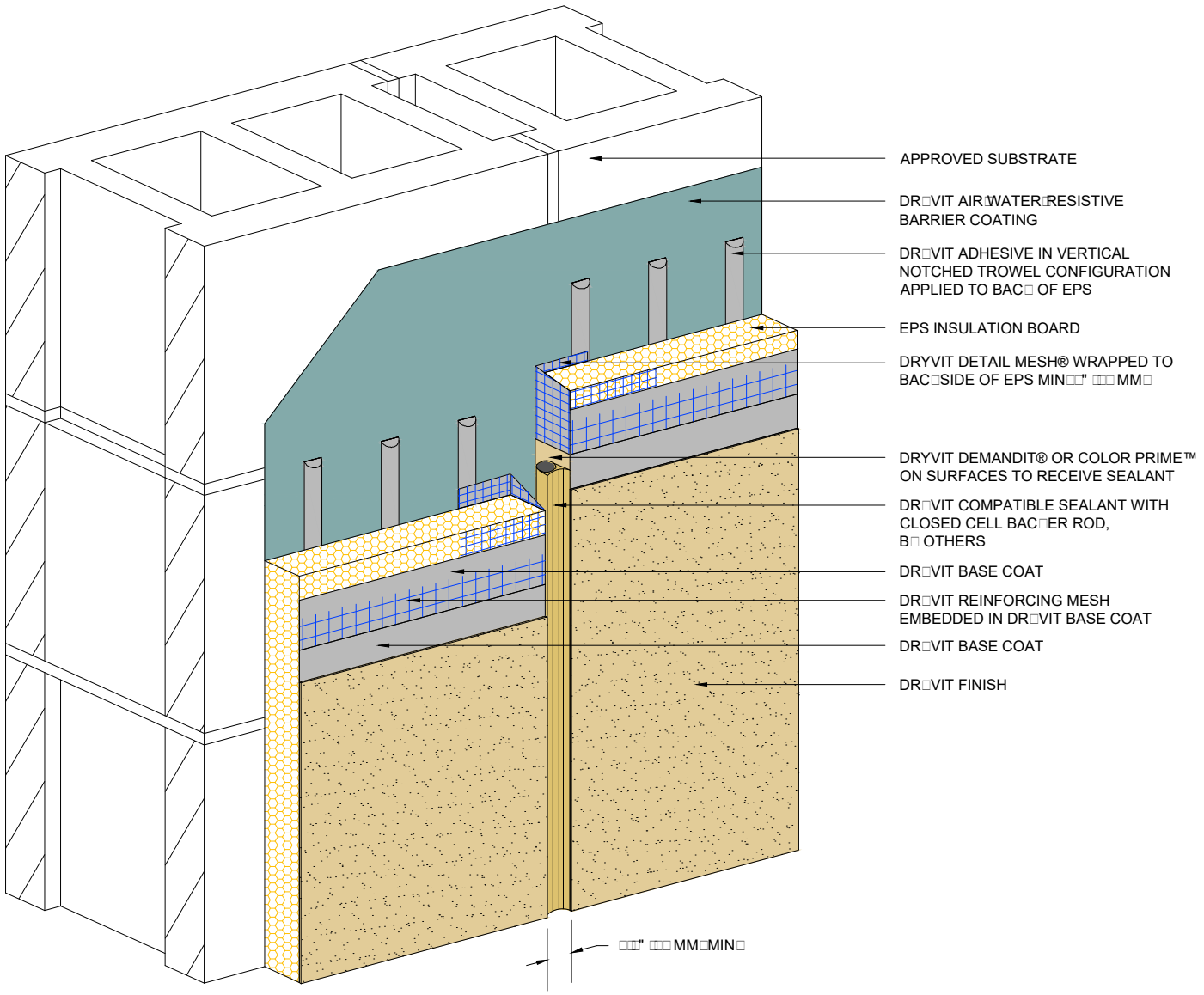
dryvit®



Outsulation® Plus MD System®

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NOTE□
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□□EIFS EXPANSION □OINTS ARE RE□UIRED IN CONTINUOUS ELEVATIONS AT INTERVALS NOT EXCEEDING □□ FT □□□ M□□

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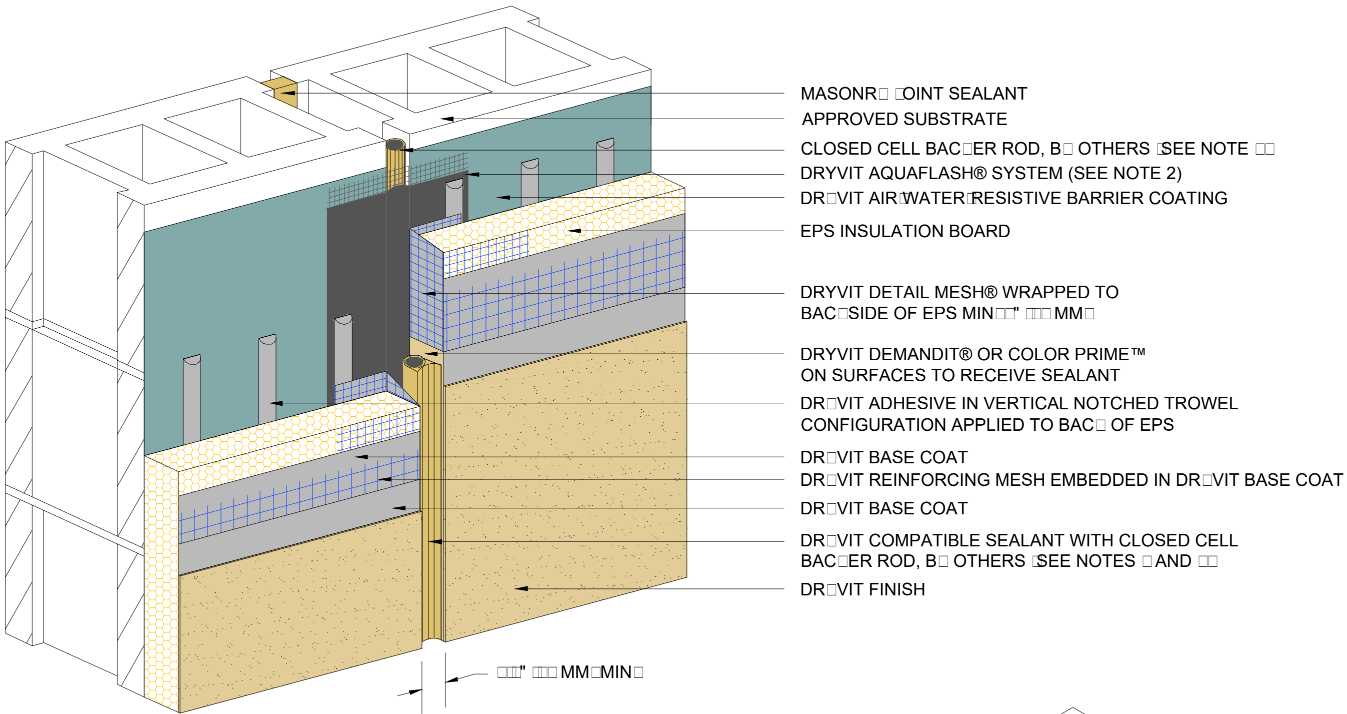

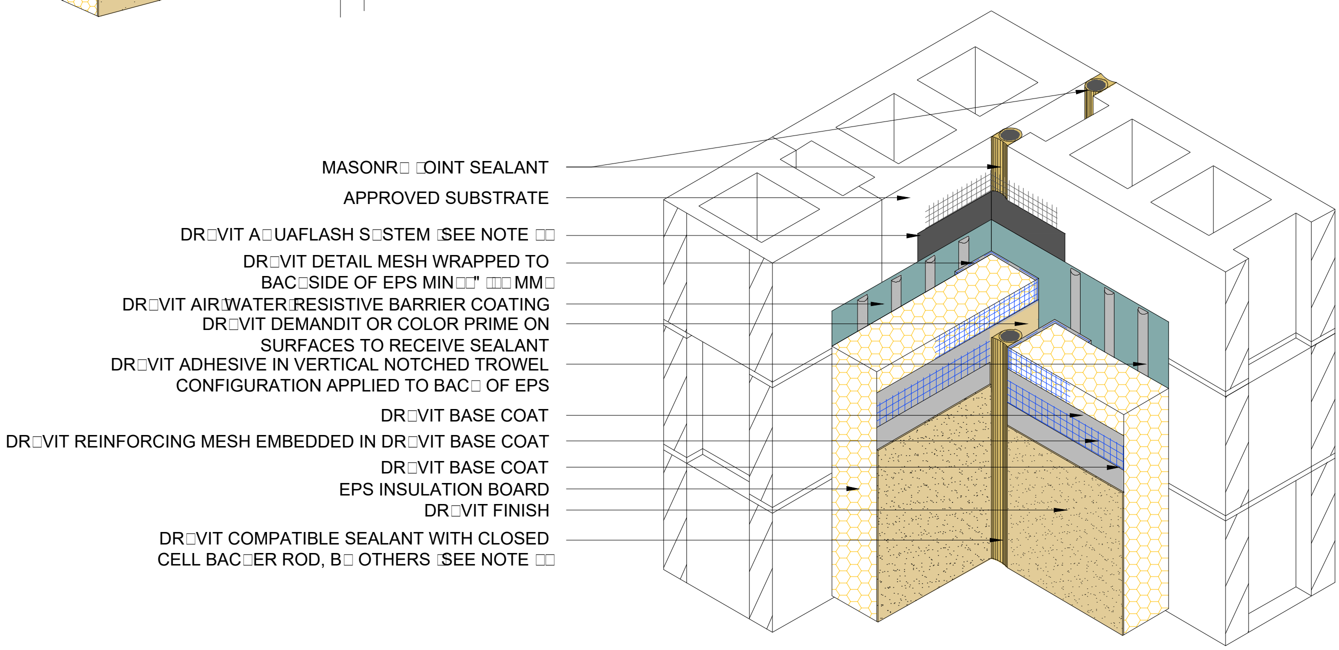

Outsulation® Plus MD System®

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NOTE□

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□□LOCATE EXTERNAL SEALANT □OINT WITHIN □" □□□ MM□OF SUBSTRATE □OINT□

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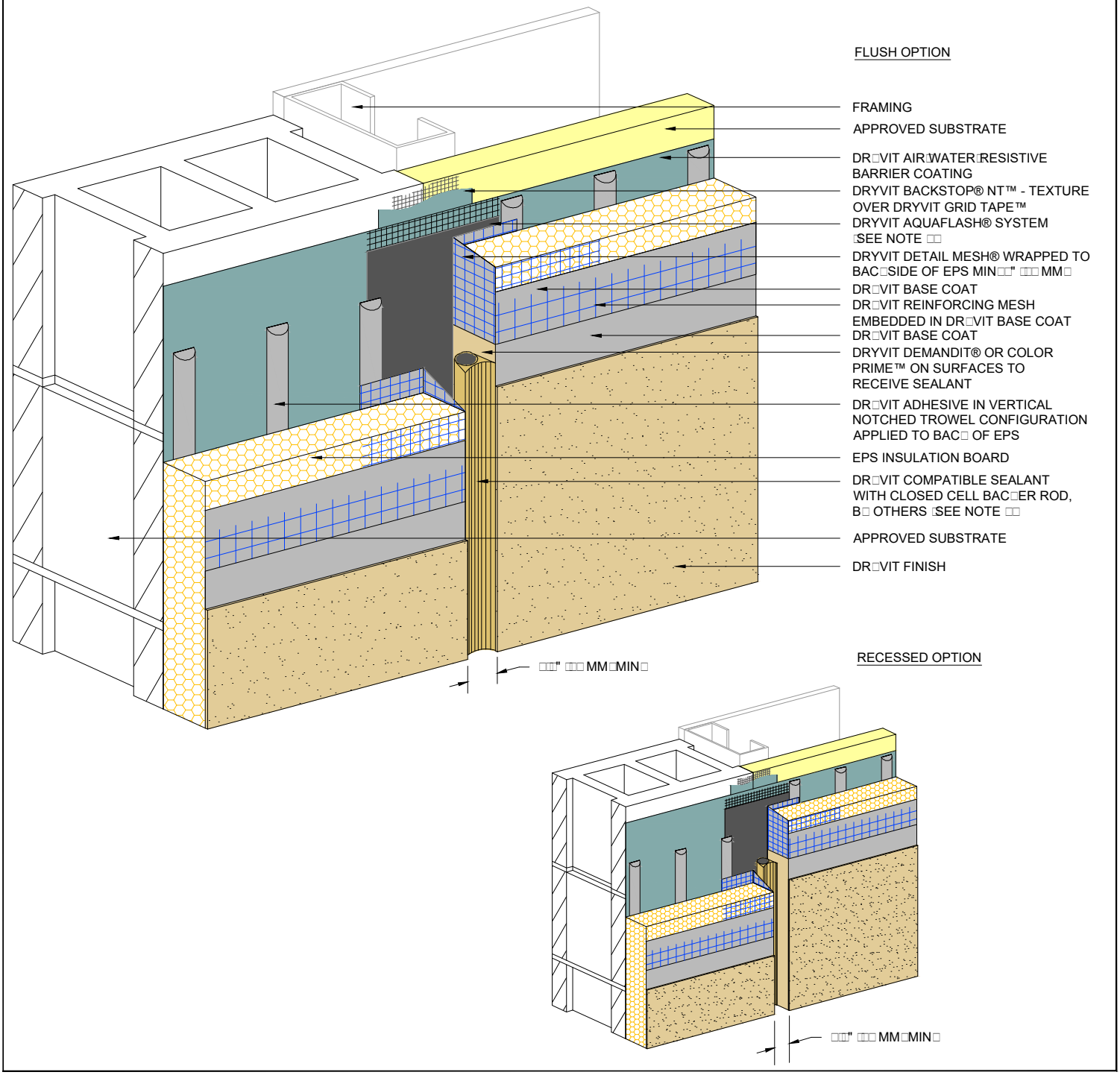

Outsulation® Plus MD System®

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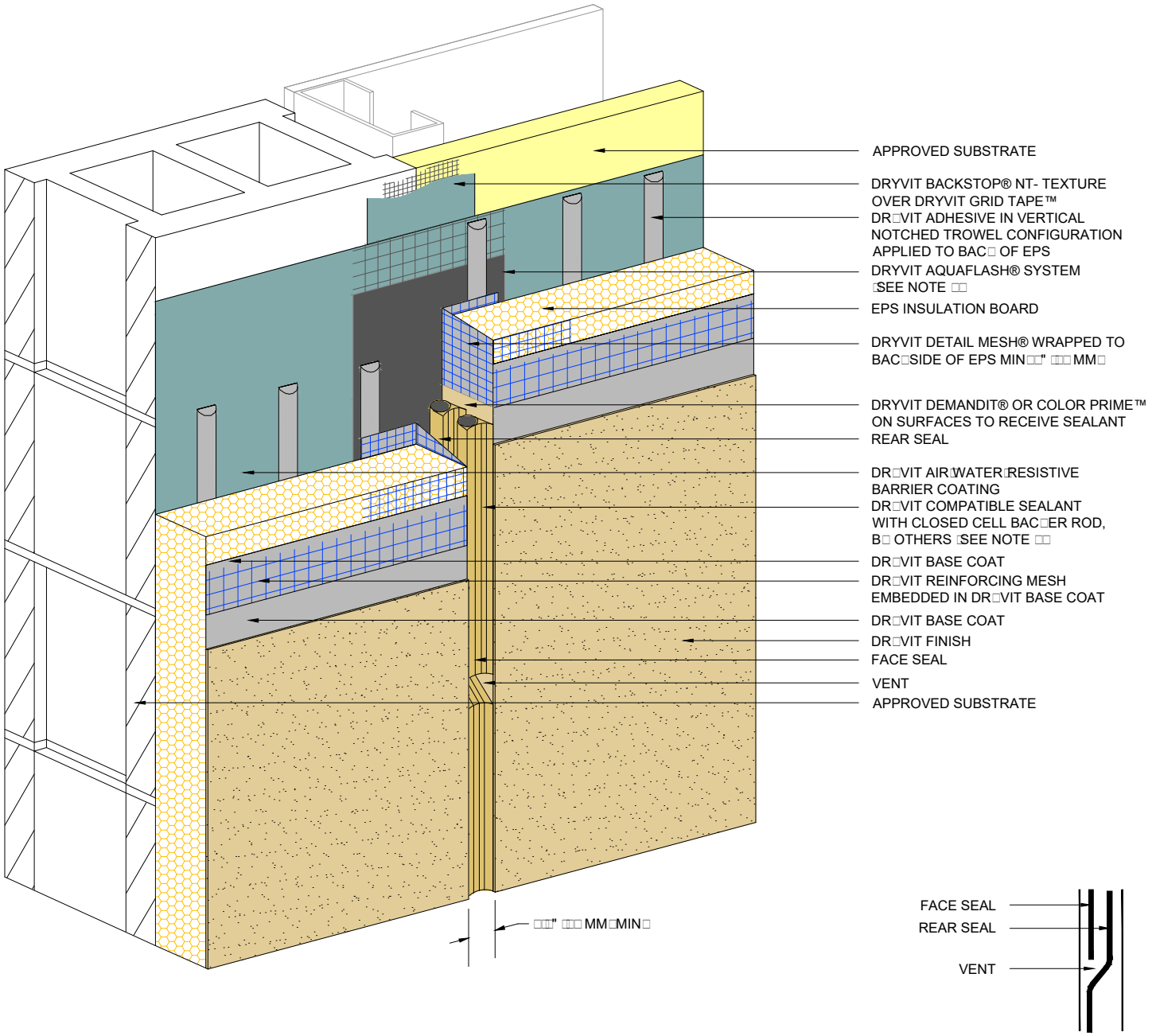

Outsulation® Plus MD System®

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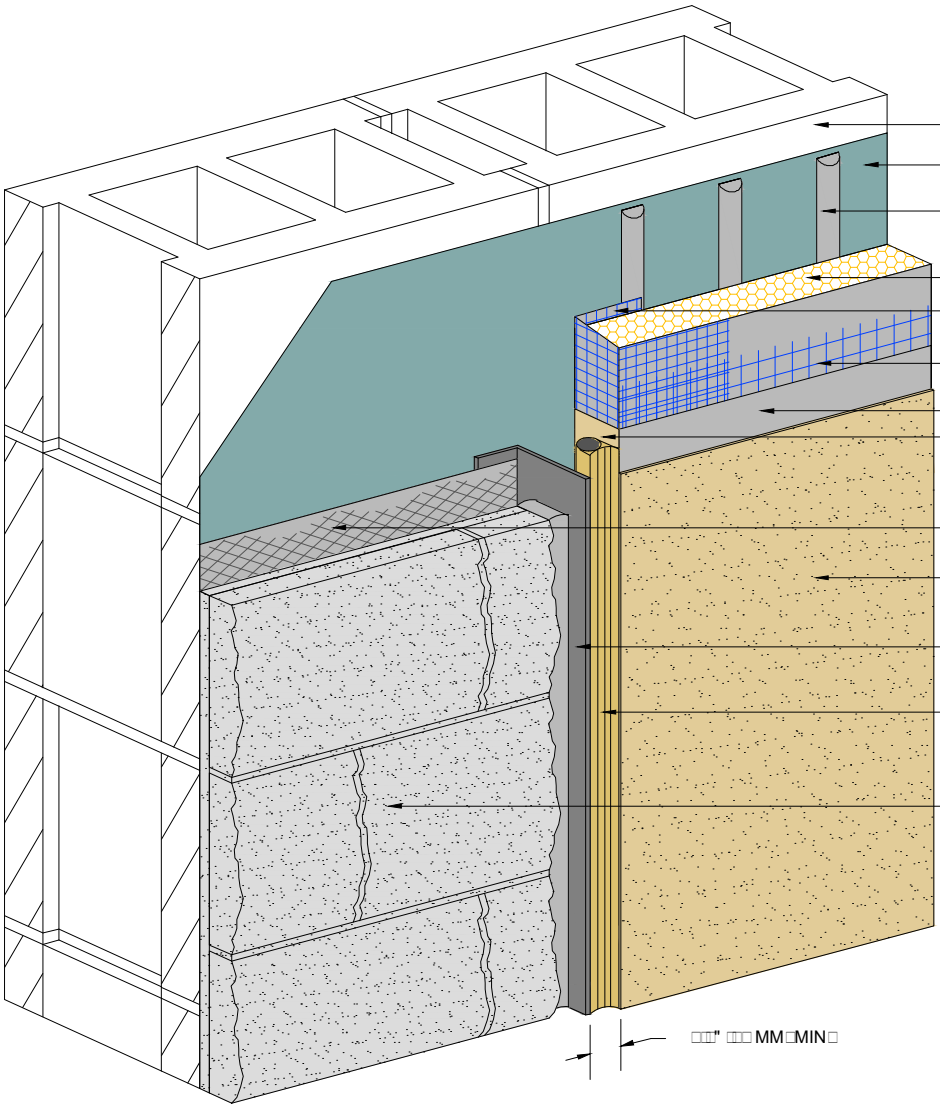
dryvit®



Outsulation® Plus MD System®

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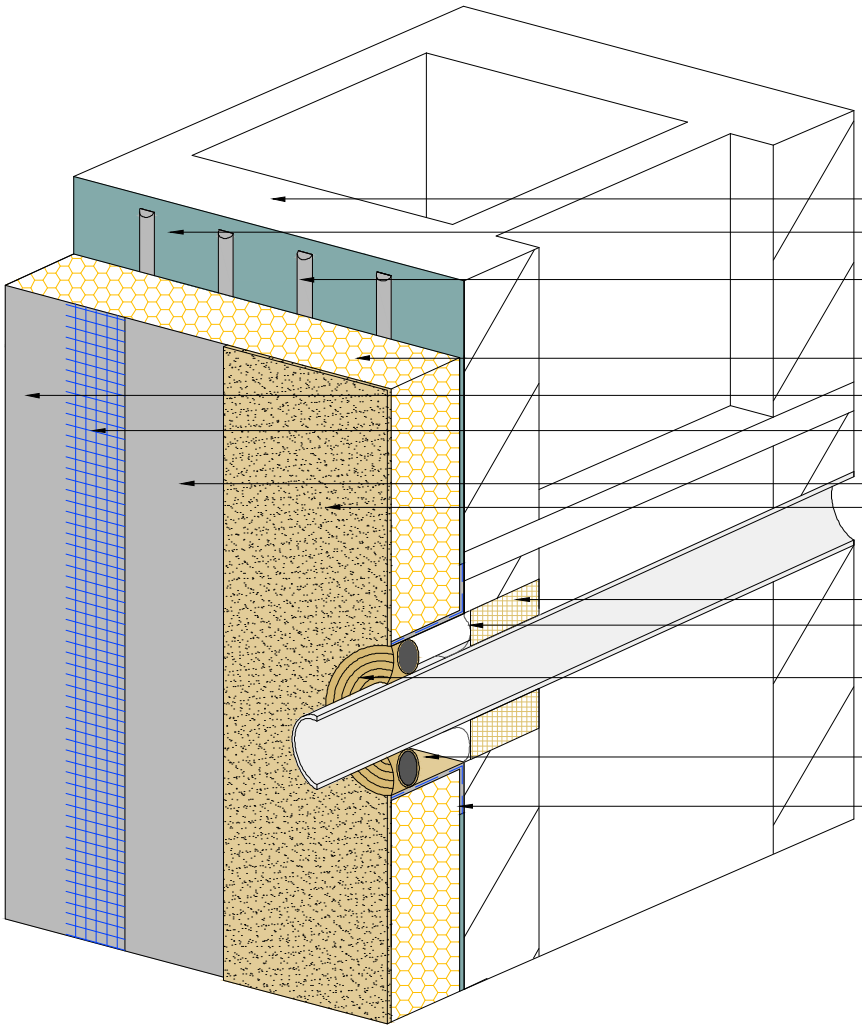


APPROVED SUBSTRATE

DR□VIT AIR□WATER□RESISTIVE BARRIER COATING

DR□VIT ADHESIVE IN VERTICAL NOTCHED TROWEL CONFIGURATION APPLIED TO BAC□ OF EPS

EPS INSULATION BOARD

DR□VIT BASE COAT

DR□VIT REINFORCING MESH EMBEDDED IN DR□VIT BASE COAT

DR□VIT BASE COAT

DR□VIT FINISH

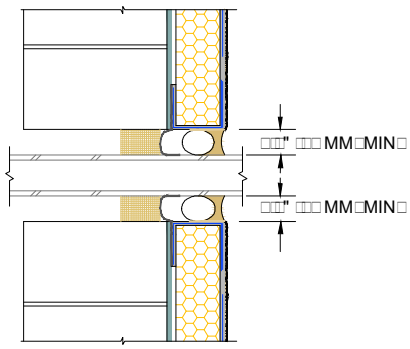
SECONDAR□ SEAL, B□ OTHERS

DRYVIT AQUAFLASH® SYSTEM (SEE NOTE 2)

DR□VIT COMPATIBLE SEALANT WITH CLOSED CELL BAC□ER ROD, B□ OTHERS □SEE NOTE □□

DR□VIT DEMANDIT OR COLOR PRIME ON SURFACES TO RECEIVE SEALANT

DRYVIT DETAIL MESH® WRAPPED TO BAC□SIDE OF EPS MIN□□" □□□MM□



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Outsulation® Plus MD System®

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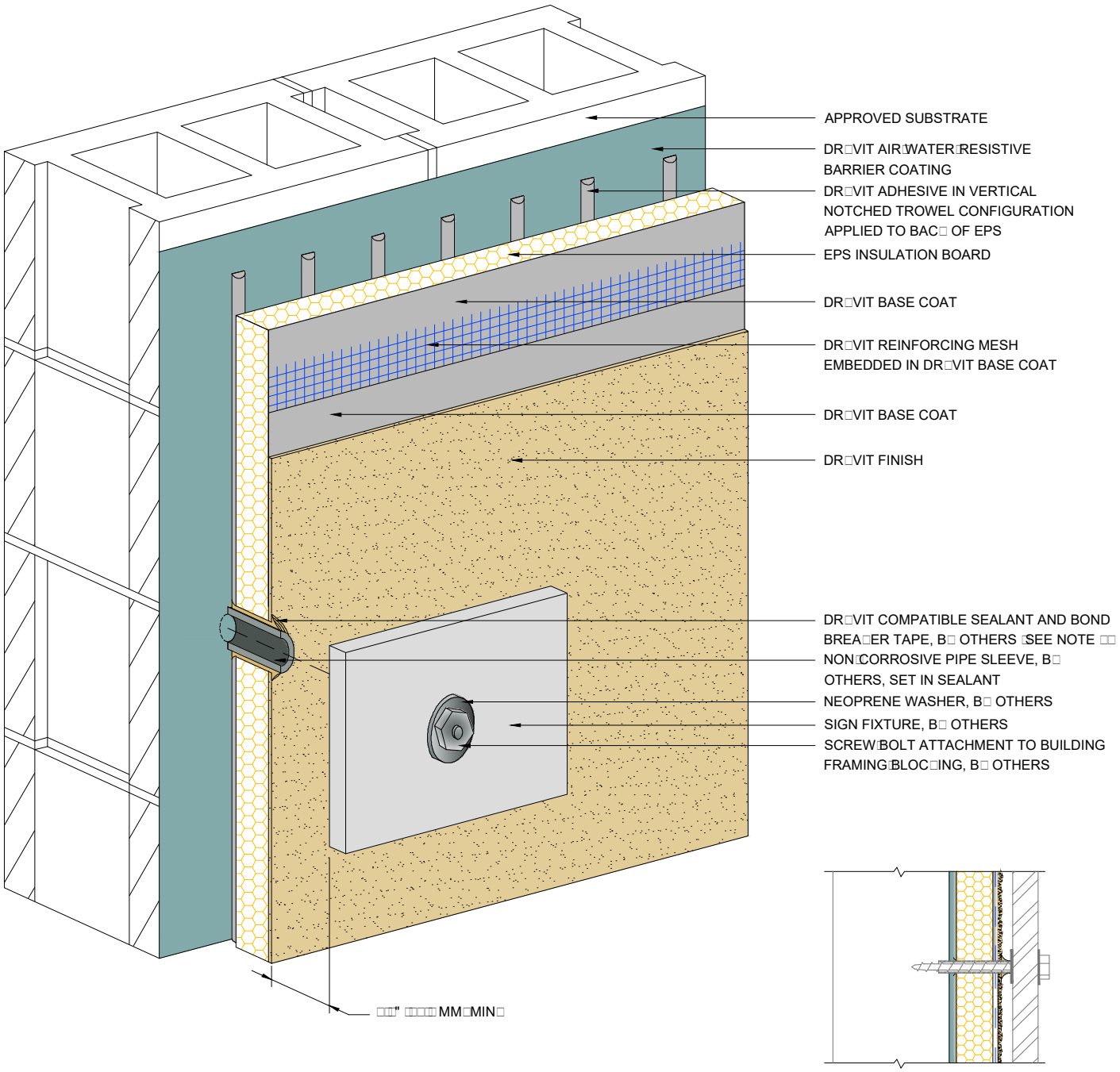

Outsulation® Plus MD System®

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NOTE□
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□□PERIMETER OF PIPE SLEEVE IS CAUL□ED TO PREVENT WATER ENTR□ INTO WALL□

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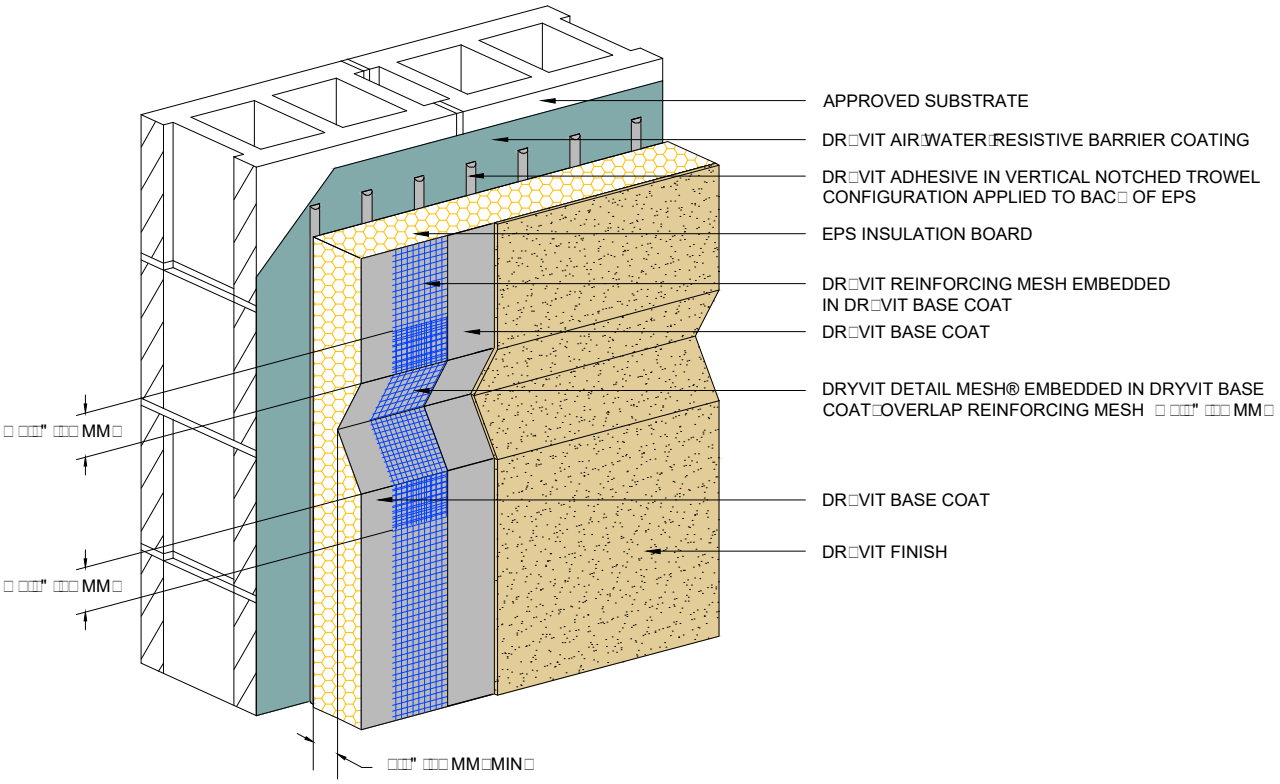

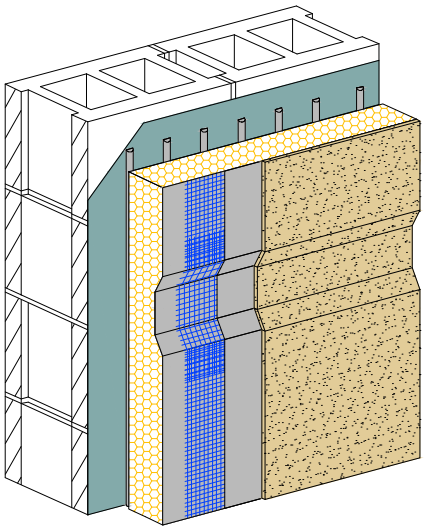

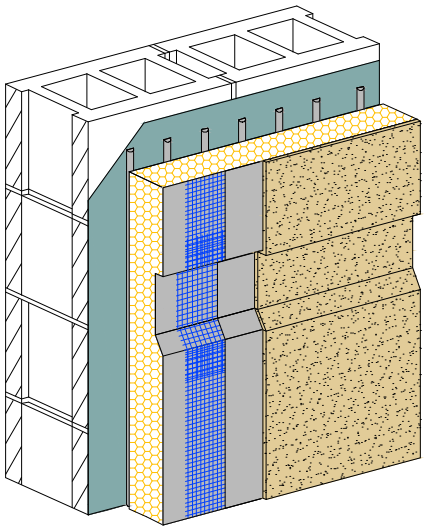

Outsulation® Plus MD System®

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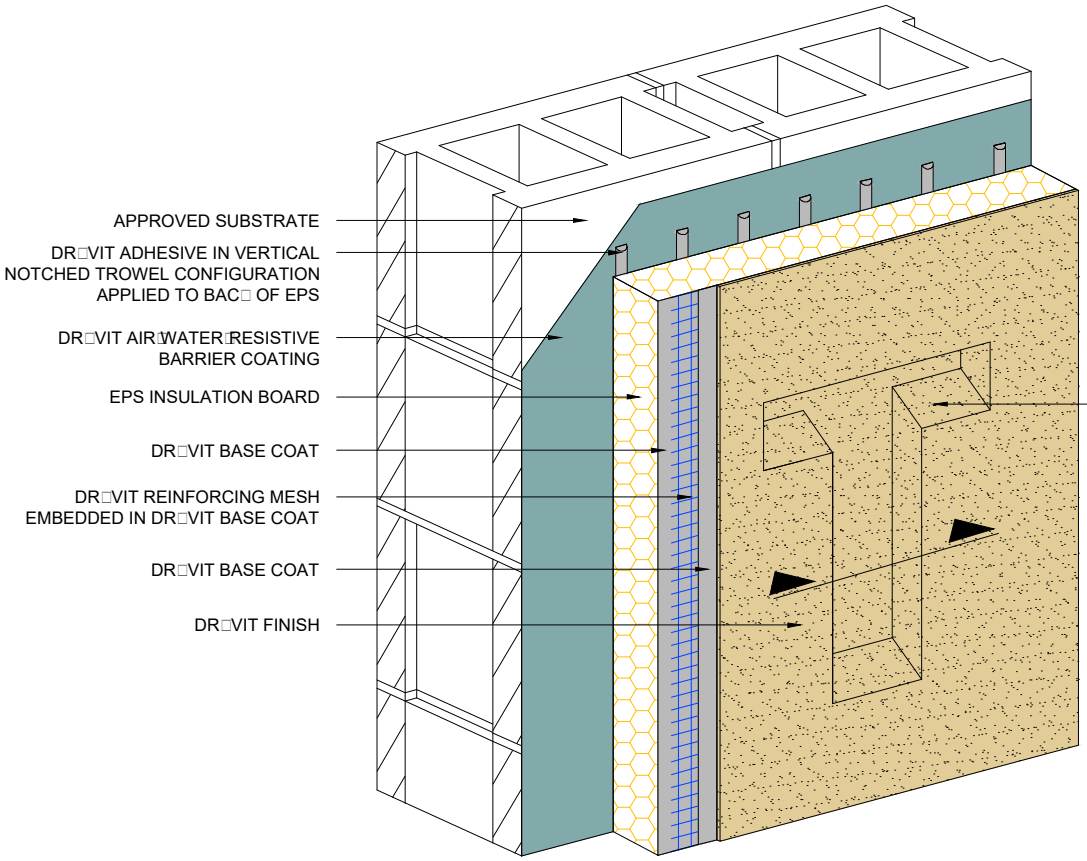

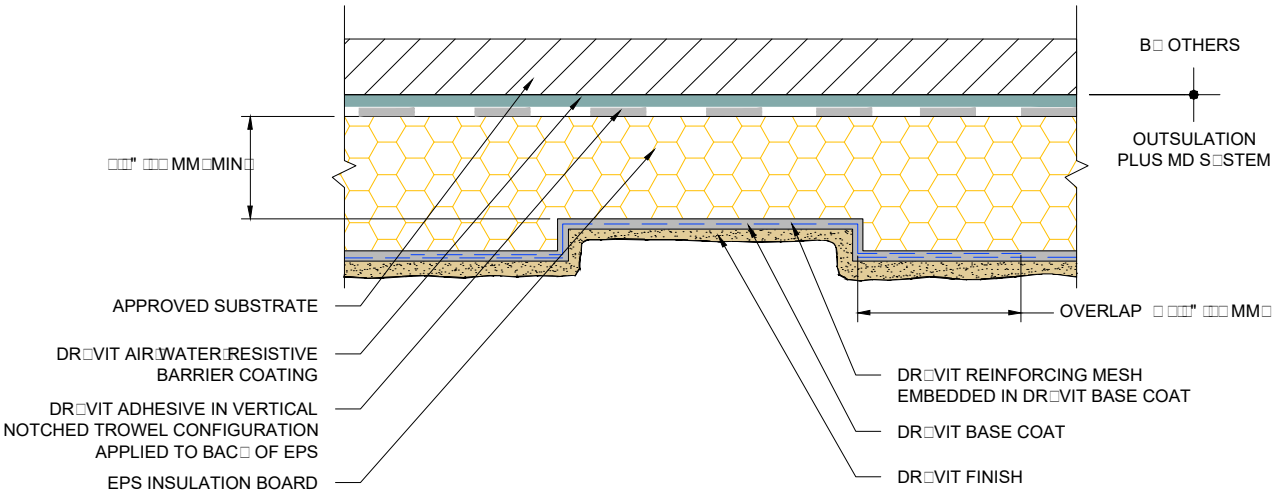

Outsulation® Plus MD System®

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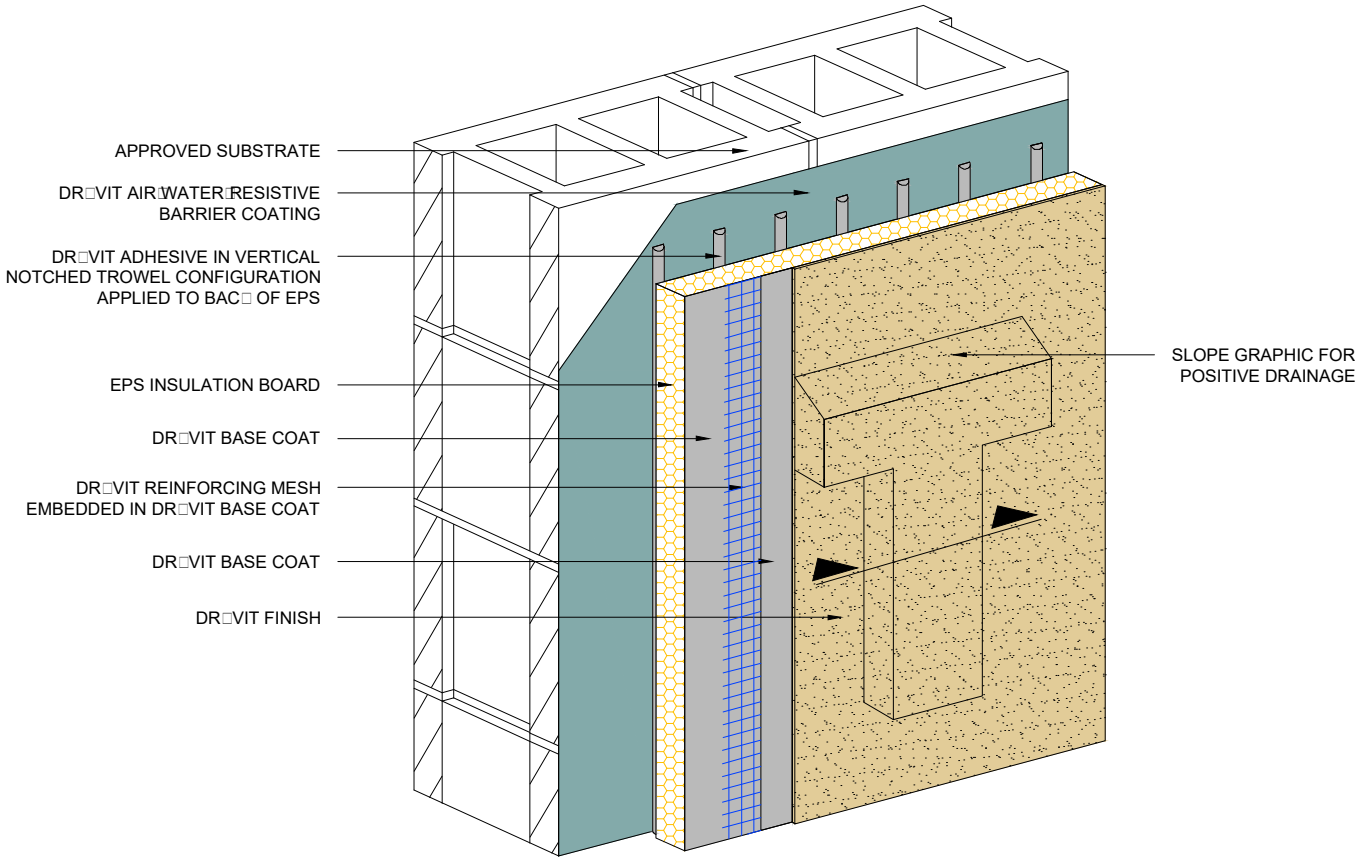

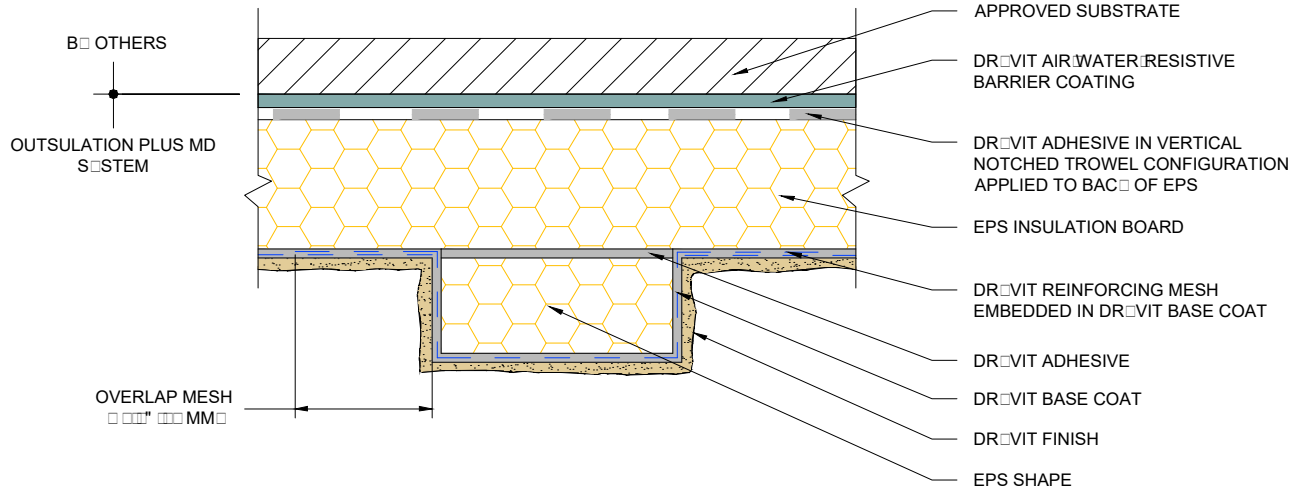

Outsulation® Plus MD System®

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NOTE□
□□MAXIMUM THIC□NESS OF EPS BUILT OUT SHAPES SHALL NOT EXCEED □□ INCHES □□□□ MM□AT AN□ POINT MEASURED FROM THE SUBSTRATE□

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OUTSULATION® PLUS MD SYSTEM®

DS218

An Exterior Wall Insulation and Finish System With Moisture Drainage That Incorporates Continuous Insulation and An Air-Water-Resistive Barrier

Outsulation Plus MD System Application Instructions

An RPM Company

Table of Contents

I. General Installation Requirements

A. Project Conditions

1. Storage
   a. Maximum storage temperature shall not exceed 38 °C (100 °F). Minimum storage temperature shall not be less than 4 °C (40 °F) with the exception of the following products:
      1) Demandit® and Revyvit®: 7 °C (45 °F).
      2) Ameristone™, TerraNeo®, Lymestone™, and Reflectit™: 10 °C (50 °F).
      3) Custom Brick™ Finish: refer to Custom Brick Polymer Specification, DS151.
      4) For other products, refer to specific product data sheets.
2. Application
   a. Application of wet materials shall not take place during inclement weather unless appropriate protection is provided.
   b. Protect materials from inclement weather until they are completely dry.
   c. Air and surface temperatures must be 4 °C (40 °F) or above and must remain so for a minimum of 24 hours or until dry at the time of Dryvit product application with the exception of the following products:
      1) Demandit® and Revyvit®: 7 °C (45 °F).
      2) Ameristone™, TerraNeo®, Lymestone™, and Reflectit™: 10 °C (50 °F).
      3) Custom Brick Finish: refer to Custom Brick Polymer Specification, DS151.
      4) For other products, refer to specific product data sheets.
      5) These temperatures shall be maintained with adequate air ventilation and circulation for a minimum of 24 hours (48 hours for Ameristone, TerraNeo and Lymestone) thereafter, or until the products are completely dry. Cool, humid conditions may require longer drying times.

B. Inspection of Substrate

1. Acceptable substrates for application of the Dryvit Outsulation Plus MD System are listed in the Dryvit Outsulation Plus MD System Specification, DS137.
2. The substrate must be securely fastened per contract documents.
3. The substrate attachment method must comply with all contract documents.
4. The substrate must be clean, dry, structurally sound, free of loose material, voids, projections, hot spots, release agents, coatings, or other materials that may affect adhesion.
5. There shall be no planar irregularities greater than 6.4 mm (1/4 in) within any 1.2 m (4 ft) radius.
6. Wood based sheathings require a 3.2 mm (1/8 in) gap between adjacent sheets per the guidelines published by the APA.

C. Flashing at System Terminations

1. General
   a. Ensure that flashing is installed in accordance with applicable code requirements and the contract documents. As a minimum, opening preparation is required as shown in the Outsulation Plus MD System Installation Details, DS110.
2. Transition at Roof Lines
   a. Ensure the roof has positive drainage, i.e. all runoff shall be directed to the exterior and away from the structure.
   b. Roof flashing (by others) shall be installed in accordance with industry guidelines, manufacturer's instructions and contract documents.
   c. Runoff diverters (i.e. kickouts, crickets and saddles) (by others) shall be installed in accordance with industry guidelines, manufacturer's instructions and contract documents. Particular attention must be paid to the eaves/chimney intersections and sloped roof/wall intersections. Refer to the Dryvit Outsulation Plus MD System Installation Details, DS110.
   d. Hold system a minimum of 203 mm (8 in) above flat roofs; 51 mm (2 in) above sloped roofs.
3. Openings
   a. Heads, jambs and sills of all openings shall be prepared with Dryvit Backstop® NT, AquaFlash®, Flashing Tape™ or other approved flashing material selected by the design professional prior to window/door, mechanical equipment, or other component installation. For proper application, refer to the Dryvit Outsulation Plus MD System Installation Details, DS110.

   NOTE: Sill piece shall extend to the inside face of wall and continue a minimum of 102 mm (4 in) up at the jambs.

   b. Continuous flashing at heads of openings as indicated in contract documents. **NOTE: For windows or doors that do not have integral flashing, a field-applied flashing shall be installed (by others) in accordance with industry guidelines, manufacturer's instructions and contract documents. Refer to the Dryvit Outsulation Plus MD System Installation Details, DS110.**
   c. Individual windows that are ganged to make multiple units require the heads to be continuously flashed and the joints between the units to be fully sealed.

4. Decks and Patios
   a. Wood decks shall be properly flashed prior to system application. See the Dryvit Outsulation Plus MD System Installation Details, DS110
   b. Verify that the system terminates above poured decks, patios, landings, etc. and that they are properly sloped and waterproofed to direct water away from the walls.
5. Utilities
   a. Provisions must be made to ensure that the system terminates properly at lighting fixtures, electrical outlets, hose bibs, dryer vents, etc. Refer to the Dryvit Outsulation Plus MD System Installation Details, DS110 for general information and guidance.
6. Grade Level Terminations
   a. Hold system a minimum of 203 mm (8 in) above finished grade.

D. Sealants
1. Dryvit materials shall be completely dry prior to installation of sealant materials (typically 48 - 72 hours). Humid or cool conditions may require longer drying times.

Notify the general contractor and/or architect and/or owner of all discrepancies. Do not proceed until all unsatisfactory conditions have been corrected.

II. Materials Required for Completing Installation of the Outsulation Plus MD System

A. Materials Supplied by Dryvit Systems, Inc.
1. AquaFlash and AquaFlash Mesh
2. Backstop NT – Texture and/or Backstop NT – Smooth, or Backstop DMS
3. Grid Tape™
4. Dryvit Flashing Tape and Flashing Tape Surface Conditioner™
5. AP Adhesive™
6. Drainage Track
7. Drainage Strip™
8. Starter Strip™- optional
9. Track - optional
10. Genesis®, Genesis® DM, Genesis® DMS, Primus®, Primus® DM, Dryflex®
11. NCB™
12. Genesis® FM
13. Rapidry™ DM 35-50, Rapidry™ DM 50-75, RapidPatch™
14. Standard Mesh, Standard Plus Mesh, Intermediate Mesh, Panzer® 15, Panzer 20, Corner Mesh, and Detail Mesh®
    a. It shall be colored blue for product identification bearing the Dryvit logo.
15. Dryvit Finishes
16. Dryvit Coatings and Primers

NOTE: Materials listed above are those contained or referenced in the Outsulation Plus MD Specification, DS137. Typically the project specification will identify the specific materials necessary to complete application.

B. Materials Supplied by Others
1. Portland Cement: Type I or II
2. Clean Potable Water
3. Expanded Polystyrene Insulation Board meeting DS 131

III. Mixing Instructions

A. General
1. No additives such as sand, aggregates, rapid binders, anti-freeze, accelerators, etc. shall be added to any Dryvit materials under any circumstances. **Such additives will adversely affect the performance of the material and void all warranties.**

B. Air/Water-Resistive Barrier Materials
1. AquaFlash
   a. Open the bucket with a utility knife or lid-off.
   b. AquaFlash is ready to use after an initial spin-up using a “Twister” paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 450 - 500 rpm. Do not add cement or any other additives.
2. Backstop NT
   a. Open the bucket with a utility knife or lid-off.
   b. Backstop NT is ready to use after an initial spin-up using a “Twister” paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 450 - 500 rpm. Do not add cement or any other additives.
3. Backstop DMS (can also be used as adhesive)
   a. See DS704 for mixing instructions

C. Adhesive and Base Coat
1. Primus, Genesis, or Genesis FM
   a. Open the bucket with a utility knife or lid-off.

b. Due to shipping and storage, there may be some separation of materials. Prior to splitting the material and adding Portland cement, mix the material thoroughly. Use a "Twister" paddle or equivalent mixing blade powered by a 12.7 mm (1/2 in) drill, at 500 - 1200 rpm only. **NOTE: A minimum 7 amp drill works best for Portland cement based materials. CAUTION: Do not over-mix or use other types of mixing blades as air entrapment and product damage may occur and result in workability and performance problems.**

c. Pour 1/2 of the freshly mixed material [approximately 13.5 kg (30 lbs)] into a clean plastic container.

d. Add 1/3 of a bag [approximately 13.5 kg (30 lbs)] of fresh, lump free Type I or II Portland cement. Either gray or white cement is acceptable. Add cement slowly and mix thoroughly. **Do not add large quantities of cement at one time.**

e. Clean potable water may be added to the mixture to adjust the workability.

1) Primus

a) Add as little water as possible, in small increments, and only after the Portland cement is thoroughly mixed. **Do not over water as this will degrade the performance and promote efflorescence.**

b) Mix the Primus material with Portland cement thoroughly; then wait five (5) minutes and mix again to break the initial set. Retempering with a small amount of water is permissible provided the mixture has not set. The mixture has a pot life similar to other Portland cement plaster material. Mix only as much material as can be conveniently used during a work period.

2) Genesis and Genesis FM

a) Add 950 ml (1 qt) of water prior to adding Portland cement. Additional water may be added to adjust workability.

b) Mix the Genesis material with Portland cement thoroughly; then wait ten to fifteen (10-15) minutes and mix again to break the initial set. Retempering with a small amount of water is permissible provided the mixture has not set. The mixture has a pot life similar to other Portland cement plaster material. Mix only as much material as can be conveniently used during a work period.

2. Primus DM

a. Pail Mixing

1) One 22.7 kg (50 lb) bag of material will produce approximately 19 L (5 gal) of Primus DM mixture. Add 5.7 L (1.5 gal) of clean potable water into a clean plastic container.

2) Add Primus DM slowly while mixing using a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 500 - 1200 rpm**. NOTE: A minimum 7 amp drill works best for Portland cement based materials.**

3) Thoroughly mix until uniformly wetted, adjusting consistency with a small amount of water or Primus DM material.

4) Allow the mixture to set a minimum of five (5) minutes then retemper, adding a small amount of water if necessary. Material must be free of lumps before using.

b. Mortar Mixer

1) Add 5.7 L (1.5 gal) of clean potable water for each 22.7 kg (50 lb) bag of Primus DM into a clean mortar mixer.

2) Add the Primus DM while the mixer is running. Let mix three to five (3 – 5) minutes, shut mixer off for five (5) minutes, then run mixer for another two to three (2 – 3) minutes to break the set and add a small amount of water if necessary to adjust the workability. The pot life is one to three (1 - 3) hours depending on weather.

3. Genesis DM

a. Pail Mixing

1) One bag of Genesis DM will produce approximately 19 L (5 gal) of Genesis DM mixture. To a clean 19 L (5 gal) pail, add 5.7 - 6.6 L (6 - 7 qt) of clean potable water.

2) Add the Genesis DM slowly while constantly mixing with a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 500 - 1200 rpm. **NOTE: A minimum 7 amp drill works best for Portland cement based materials.**

3) Thoroughly mix until uniformly wetted, adjusting consistency with a small amount of water or Genesis DM.

4) Let set for ten (10) minutes. Retemper, adding a small amount of water if necessary. Material must be free of lumps before using.

b. Mortar Mixer

1) Add 5.7 - 6.6 L (6 - 7 qt) of clean potable water for each 22.7 kg (50 lb) bag of Genesis DM into a clean mortar mixer.

2) Add the Genesis DM while the mixer is running. Let mix three to five (3 – 5) minutes, shut the mixer off for ten (10) minutes, then run mixer for another two to three (2 – 3) minutes to break the set adding a small amount of water if necessary to adjust workability. The pot life is one to one and one half (1 – 1 ½) hours depending on weather.

4. Genesis DMS

a. Sprayer

1) Connect a source of clean, cool potable water to a spray machine suitable for EIFS applications.

2) Regulate the water flow rate to provide the desirable mixing consistency of material. Material may thicken up upon leaving the mixing cylinder at a given water flow and loosen up after pumping. **NOTE: The consistency for application must be determined after pumping**.

b. Pail Mixing

1) One bag of Genesis DMS will produce approximately 19 L (5 gal) of Genesis DMS mixture. To a clean 19 L (5 gal) pail, add 6.6 - 8.5 L (7 - 9 qt) of clean, cool potable water.

2) Add the Genesis DMS slowly while continuously mixing with a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 500 - 1200 rpm. **NOTE: A minimum 7 amp drill works best for Portland cement based materials.**

3) Thoroughly mix until uniformly wetted, adjusting consistency with a small amount of water or Genesis DMS.

4) Let set for five (5) minutes. Retemper, adding a small amount of water if necessary. Material must be free of lumps before using.

c. Mortar Mixer

1) Add 6.6 - 8.5 L (7 - 9 qt) of clean, cool potable water for each 22.7 kg (50 lb) bag of Genesis DMS into a clean mortar mixer.

2) Add the Genesis DMS while the mixer is running. Let mix three to five (3 – 5) minutes, shut the mixer off for five (5) minutes, then run mixer for another two to three (2 – 3) minutes. Retemper, adding a small amount of water if necessary. Material must be free of lumps before using. The pot life is one to three (1 - 3) hours depending on weather.

5. Rapidry DM 35-50

a. Pail Mixing

1) One 22.7 kg (50 lb) bag of Rapidry DM 35-50 will produce approximately 19 L (5 gal) of Rapidry DM 35-50 mixture. To a clean Dryvit 19 L (5 gal) pail, add 6.1 L (6.5 qt) of clean potable water. As an alternative, on the inside of the Dryvit 19 L (5 gal) pail, draw a horizontal line which measures 113 mm (4 7/16 in) from the base of the pail and fill with water.

2) Add the Rapidry DM 35-50 slowly while mixing with a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 500 - 1200 rpm. **NOTE: A minimum 7 amp drill works best for Portland cement based materials.**

3) Thoroughly mix until uniformly wetted, adjusting consistency with a small amount of water or Rapidry DM 35-50 material. Material must be free of lumps before using.

b. Mortar Mixer

1) Add 6.1 L (6.5 qt) of clean potable water for each 22.7 kg (50 lb) bag of Rapidry DM 35-50 into a clean mortar mixer.

2) Add the Rapidry DM 35-50 while the mixer is running. Mix for three to five (3 - 5) minutes adjusting consistency with a small amount of water or Rapidry DM 35-50. Material must be free of lumps before using. The pot life is approximately 30 minutes depending on temperature.

6. Rapidry DM 50-75

a. Pail Mixing

1) One 20.4 (45 lb) bag of Rapidry DM 50-75 will produce approximately 19 L (5 gal) of Rapidry DM 50-75 mixture. To a clean Dryvit 19 L (5 gal) pail, add 5.2 L (5.5 qt) of clean potable water. As an alternative, on the inside of the Dryvit 19 L (5 gal) pail, draw a horizontal line which measures 97 mm (3 13/16 in) from the base of the pail and fill with water.

2) Add the Rapidry DM 50-75 slowly while mixing with a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 500 - 1200 rpm. **NOTE: A minimum 7 amp drill works best for Portland cement based materials.**

3) Thoroughly mix until uniformly wetted, adjusting consistency with a small amount of water or Rapidry DM 50-75 material.

4) Let set for five (5) minutes. Retemper, adding a small amount of water if necessary. Material must be free of lumps before using.

b. Mortar Mixer

1) Add 5.2 L (5.5 qt) of clean potable water for each 20.4 kg (45 lb) bag of Rapidry DM 50-75 into a clean mortar mixer.

2) Add the Rapidry DM 50-75 while the mixer is running. Mix for three to five (3 – 5) minutes, shut the mixer off for 5 minutes, then run mixer for another two to three (2 – 3) minutes to break the set adjusting consistency with a small amount of water or Rapidry DM 50-75. The pot life is approximately 30 minutes depending on temperature.

D. Base Coat only

1. NCB

a. Open the bucket with a utility knife or lid-off.

b. Mix NCB to a smooth, homogeneous consistency with a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 450 - 500 rpm. A small amount of clean potable water may be added to adjust workability.

2. Dryflex
   a. Open the bucket with a utility knife or lid-off.
   b. Due to shipping and storage, there may be some separation of materials. Prior to splitting the material and adding Portland cement, mix the material thoroughly. Use a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 500 - 1200 rpm. **NOTE: A minimum 7 amp drill works best for Portland cement based materials. CAUTION: Do not over-mix or use other types of mixing blades as air entrapment and product damage may occur and result in workability and performance problems.**
   c. Pour 1/2 of the freshly mixed material [approximately 10.21 kg (22.5 lbs)] into a clean plastic container.
   d. Add 1/4 of a bag [approximately 10.21 kg (22.5 lbs)] of fresh, lump free Type I or II Portland cement. Either gray or white cement is acceptable. Add cement slowly and mix thoroughly. **Do not add large quantities of cement at one time.**
   e. Clean potable water may be added to the mixture to adjust the workability. Add as little water as possible, in small increments, and only after the Portland cement is thoroughly mixed. **Do not over-water as this will degrade the performance and promote efflorescence. NOTE: It is advisable to mix the Dryflex material with Portland cement thoroughly; then wait five (5) minutes and mix again to break the initial set. Retempering with a small amount of water is permissible provided the mixture has not set. The mixture has a pot life similar to any Portland cement material. Mix only as much material as can be conveniently used during a work period.**

E. Primers
1. Color Prime™, Color Prime - W™, Primer with Sand™, and Weatherprime®
   a. Mix material with a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 450 - 500 rpm to a homogeneous consistency.

F. Finish
1. Quarzputz®, Quarzputz® E, Sandblast®, Freestyle®, Sandpebble®, Sandpebble® E, Sandpebble® Fine, Sandpebble® Fine E, Mojave E™, Weatherlastic® Finishes, and DPR FM™ Finishes.
   a. Thoroughly mix the factory-prepared Dryvit finish with a "Twister" paddle or equivalent mixing blade powered by a 12.7 mm (1/2 in) drill, at 450 - 500 rpm, until a uniform, homogeneous consistency is attained. A small amount of clean potable water may be added to adjust workability. Always add the same amount of water to each pail within a given lot to avoid color variation.

   NOTE: If using a tint pack to color finish please refer to Tint Pack Mixing Instructions, DS750.

G. Specialty Finishes
1. Ameristone
   a. Mix Ameristone for approximately one (1) minute to ensure uniformity using a "Twister" paddle or equivalent mixing blade powered by a 12.7 mm (1/2 in) drill, at 450 - 500 rpm, just prior to application. **DO NOT OVERMIX.**
   b. Mix all pails for the same amount of time.
   c. If clean potable water is added as described in DS142 for various application techniques, the same amount must be added to each pail.
2. Stone Mist®
   a. Mix Stone Mist for one (1) minute to ensure uniformity using a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, 450 - 500 rpm, just prior to application. **DO NOT OVERMIX.**
3. TerraNeo
   a. Mix TerraNeo for one (1) minute just prior to application, to ensure uniformity using a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 450 - 500 rpm. **DO NOT OVERMIX**.
4. Lymestone
   a. Mix Lymestone with a "Twister" paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 450 - 500 rpm until a uniform workable consistency is attained.

   NOTE: If using a tint pack to color finish please refer to Tint Pack Mixing Instructions, DS750.
5. Custom Brick Finishes
   a. For Custom Brick finishes, refer to Dryvit Custom Brick Application Instructions, DS154, for complete mixing instructions.

   NOTE: If using a tint pack to color finish please refer to Tint Pack Mixing Instructions, DS750.
6. Reflectit™
   a. Refer to Reflectit Data Sheet DS705 and Application Instructions DS124 for complete instructions.

H. Coatings and Sealers
1. Demandit, Revyvit, Weathercoat™, and Weatherlastic® Smooth
   a. Mix material with a “Twister” paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 450 - 500 rpm to a homogeneous consistency.
2. Tuscan Glaze™
   a. Mix Tuscan Glaze with a “Twister” paddle or equivalent mixing blade, powered by a 12.7 mm (1/2 in) drill, at 450 - 500 rpm to a homogeneous consistency, immediately prior to application. As an alternate, boxing of buckets is acceptable. **Continuously** agitate throughout application to ensure color consistency.
3. SealClear™
   a. Stir material thoroughly before using and stir often during the application process. As an alternate, boxing of buckets is acceptable.

IV. Rough Opening Preparation Options

A. AquaFlash System Option
1. AquaFlash must be installed to provide a continuous barrier from the air/water-resistive barrier/sheathing substrate onto the framing edges at discontinuities and terminations such as openings, expansion joints, tops of parapets, etc. Refer to Dryvit Outsulation Plus MD System Installation Details, DS110.
2. Surface Preparation
   a. Apply only when air and surface temperatures are above 4 °C (40 °F).
   b. The surface to receive the AquaFlash System must be clean, dry, smooth and free of any condition that will hinder adhesion.
   c. Clean loose dust or dirt from the surface by wiping with a clean, dry cloth or brush.
3. AquaFlash System Application
   a. Rough Openings (Windows, Doors, Others)
      1) Cut AquaFlash Mesh to proper length [rough opening plus 102 mm (4 in)] extending 51 mm (2 in) past each jamb – Figure 1.

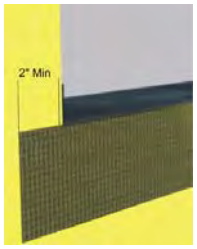

Figure 1

      2) Begin at the sill of an opening. Using a brush or 19 mm (3/4 in) nap roller, apply a liberal coat of AquaFlash Liquid material to the air/water-resistive barrier/substrate surface. **NOTE: The AquaFlash System must extend to the interior face of the wall opening.**
      3) Immediately lay the AquaFlash Mesh into the wet material and brush smooth adding additional material to completely embed the mesh - Figure 2.

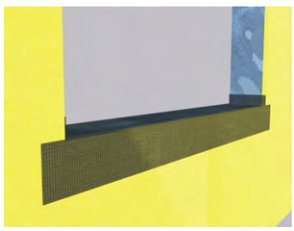

Figure 2

      4) Install the AquaFlash System at the jambs in the same manner overlapping onto the sill material a minimum of 51 mm (2 in) – Figure 3.

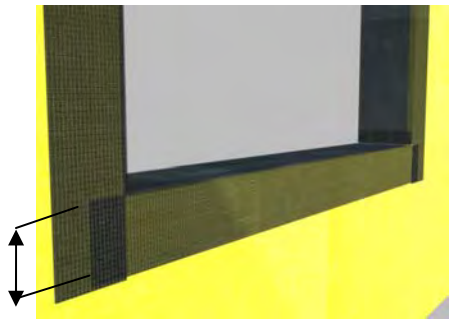

Figure 3

5) Install the AquaFlash System at the head overlapping the jamb pieces a minimum of 51 mm (2 in) – Figure 4.

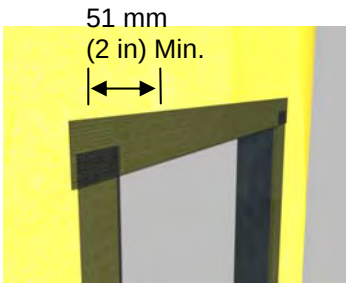

Figure 4

6) Install diagonal "butterflies" consisting of AquaFlash Liquid and AquaFlash Mesh at each sill/jamb corner – Figure 5.

Figure 5

7) Allow material to set for approximately 15 minutes then apply a second liberal coat of AquaFlash Liquid and smooth out to ensure a continuous film free of voids, pinholes, or other discontinuities.

4. Sill Pan Flashing (Exposed)
   a. Install a watertight pan flashing at all sill locations - Figure 6.
   b. The flashing shall extend between the framing members of the rough opening and shall be sized to protect the sill, sheathing and the surface of the Outsulation Plus MD System. It must include vertical legs at the back and sides to ensure proper collection of water. **NOTE: All flashing shall be continuous, have watertight seams, and shall be configured to shed all water to the exterior of the system.**
   c. The flashing shall extend a minimum of 64 mm (2 1/2 in) down over the face of the Outsulation Plus MD System - Figure 6.

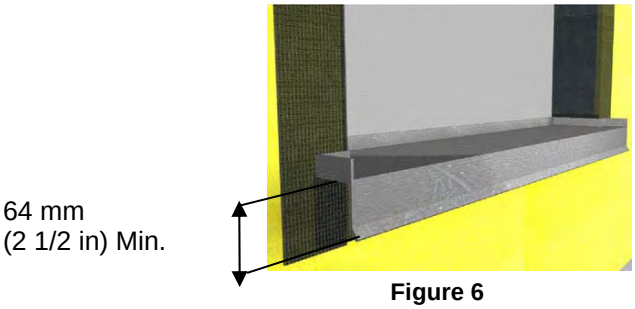

Figure 6

5. Sill Pan Flashing (Concealed) for use with nail-on-windows (refer to Dryvit Outsulation Plus MD Installation Details, DS110)
   a. Install a watertight pan flashing at all sill locations.
   b. The flashing shall extend between the framing members of the rough opening and shall be sized to protect the sill and sheathing. It must include vertical legs at the back and sides to ensure proper collection of water. It shall extend a minimum of 102 mm (4 in) below the opening and have a sloped horizontal leg which continues over the top edge of the Outsulation Plus MD System. **NOTE: All flashing shall be continuous, have watertight seams, and shall be configured to shed all water to the exterior of the system.**
6. Installation of AquaFlash Over Metal or PVC Flashing Materials
   a. The AquaFlash System may be applied directly over clean galvanized, painted metal, or PVC flashing.
   b. Prepare rough opening as described in Section IV.A.3.
   c. Install flashing material per contract documents.
   d. Clean the surface of the flashing to ensure that it is free of dirt, dust, oil, or other contaminants that may interfere with adhesion. **NOTE: PVC products should be lightly abraded to break the surface skin and provide tooth for the coating.**

e. Cut AquaFlash Mesh to proper length [flashing plus 102 mm (4 in) extending 51 mm (2 in) beyond each end of flashing] - Figure 7.

Figure 7

f. Using a brush or 19 mm (3/4 in) nap roller, apply a liberal coat of AquaFlash Liquid material to the flashing and adjacent air/water-resistive barrier/substrate surface.
g. Immediately lay the AquaFlash Mesh into the wet material and brush smooth adding additional material to completely embed the mesh.
h. Allow material to set for 15 minutes then apply a second liberal coat of AquaFlash Liquid and smooth out to ensure a continuous film free of voids, pinholes, or other discontinuities and allow to dry.

B. Dryvit Backstop NT Option

1. Surface Preparation
   a. Apply only when air and surface temperatures are above 4 °C (40 °F).
   b. The surface to receive the Backstop NT must be clean, dry, smooth and free of any other condition that will hinder adhesion.
   c. Remove loose dust or dirt from the surface by wiping with a clean, dry cloth or brush.
2. Dryvit Backstop NT Application

   NOTE: Backstop NT may be applied to the sill of the opening but it must also be covered with either the Dryvit AquaFlash System or Dryvit Flashing Tape.

   a. Rough Openings (Windows, Doors, Others)
      1) Apply Dryvit Grid Tape along the jambs and head of the opening as well as all sheathing joints that may intersect the opening and lap onto face of wall a minimum of 51 mm (2 in). Add additional pieces of Grid Tape at the inside corners of the opening to maintain continuity – Figure 8.

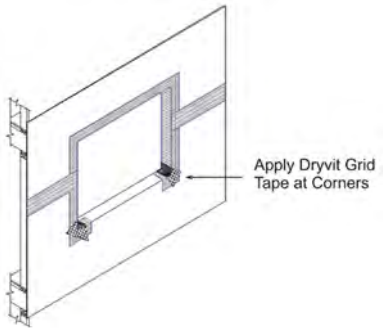

Figure 8

2) Using a stainless steel trowel apply Backstop NT – Texture over the Grid Tape extending to the inside face of the opening and onto the face of the exterior sheathing a minimum of 152 mm (6 in) – Figure 9.

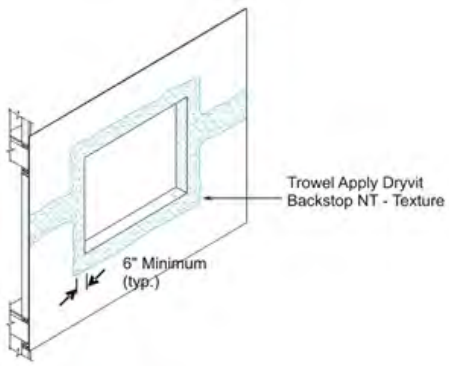

Figure 9

3) Apply Dryvit AquaFlash System or Flashing Tape at sill in accordance with Sections IV.A.3 and IV.C respectively. **NOTE: AquaFlash System or Flashing Tape must extend up the jambs a minimum of 102 mm (4 in) – Figure 10.**

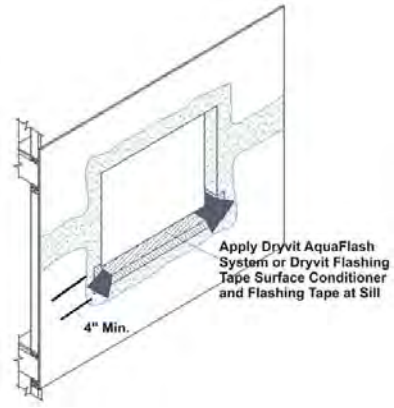

Figure 10

4) Install the specified component (i.e. window, etc.) and associated flashings per manufacturer's directions and contract documents. Then apply Backstop NT – Texture or Smooth to the remainder of the wall surface as described in Section VI and lap over the previously installed material (do not lap over Flashing Tape if specified) around openings – Figure 11.

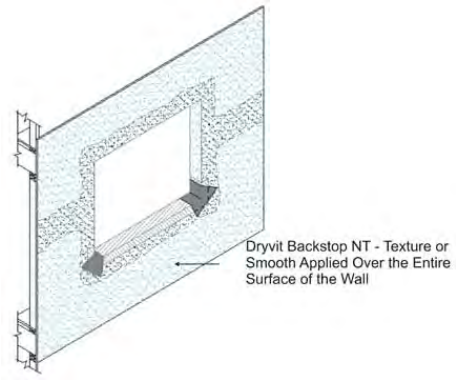

Figure 11

C. Dryvit Flashing Tape Option

Caution: The Dryvit Flashing Tape and Surface Conditioner must be handled properly. Refer to the Material Safety Data Sheets for proper handling, storage, health and environmental considerations.
NOTE: **When Dryvit Flashing Tape is specified for rough opening preparation the air/water-resistive barrier must be installed prior to preparing the opening (see Section VI).**

NOTE: Coordinate the Dryvit Flashing Tape application with the insulation board installation. Apply only enough Dryvit Flashing Tape that can be covered with the insulation board in the same work period.

1. Dryvit Flashing Tape must be installed to provide a continuous barrier from the air/water-resistive barrier/sheathing substrate onto the framing edges at discontinuities and terminations such as openings, expansion joints, tops of parapets, etc. Refer to Dryvit Outsulation Plus MD System Installation Details, DS110.
2. Surface Preparation
   a. Apply only when air and surface temperatures are above 4 °C (40 °F).
   b. The surface to receive the Dryvit Flashing Tape must be clean, dry, smooth and free of any condition that will hinder adhesion.
   c. Clean loose dust or dirt from the surface by wiping with a clean, dry cloth or brush.
3. Dryvit Flashing Tape Surface Conditioner Application
   a. Pour the desired amount of surface conditioner into a clean container to prevent contamination.
   b. Apply to the surfaces, which are to receive the Dryvit Flashing Tape, using a brush or roller. Sufficient surface conditioner should be applied to condition the surface to a dust free state suitable for the application of the Dryvit Flashing Tape. It should not be applied so heavily that it puddles or runs. Application of excess material will not improve adhesion but will extend the drying time.
   c. Allow to dry until the surface is slightly tacky. Low temperatures and high humidity conditions may require longer drying times. Conditioning should be limited to areas that can be covered with Dryvit Flashing Tape within the same day.
4. Dryvit Flashing Tape Application
   a. General
      1) Cut the Dryvit Flashing Tape to the appropriate length. Peel the release paper to expose the rubberized asphalt adhesive and align the tape into position before touching the wall.
      2) Position the tape on the wall face so that it covers the Backstop NT 51 mm (2 in) and the remainder is turned into the opening.
      3) Move along the opening being careful to put the tape as evenly as possible and avoiding fish-mouths along the edges. If wrinkles develop, cut out the affected area and replace.
      4) Apply pressure to the tape so that it is firmly in contact with the wall surface. Press the tape into place with a hand roller as soon as possible to ensure continuous and intimate contact with the surface.
      5) End laps that occur must maintain a minimum overlap of 51 mm (2 in).
      6) Apply Dryvit Flashing Tape so that it completely covers the stud edges extending to the interior face of the opening. Additional strips of Dryvit Flashing Tape may be needed.
      7) Cold weather application may require the use of a heat gun to warm the wall surface in order to obtain good initial adhesion.
   b. Sill/jamb intersections and similar conditions
      1) Apply the Dryvit Flashing Tape as shown in the detail below - Figure 12.
      2) Apply sill piece first, then apply the corner splice piece. The jamb piece is applied next, lapping over the splice piece.

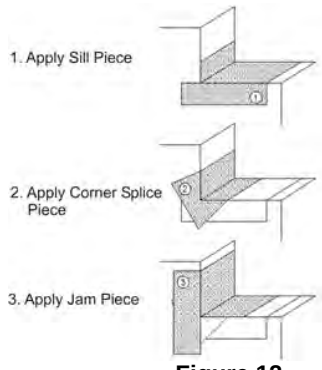

Figure 12

   c. Head/jamb intersections
      1) The jamb pieces are applied first, followed by the corner splice pieces. The head piece is applied last.
   d. Lap additional pieces of Dryvit Flashing Tape as necessary to cover the returns to the inside edge of the stud or track.

V. Substrate Expansion Joint Bridging Options

A. AquaFlash System Option
   1. Surface Preparation
      a. Apply only when air and surface temperatures are above 4 °C (40 °F).
      b. The surface to receive AquaFlash System must be clean, dry, smooth and free of any condition that will hinder adhesion.

c. Clean loose dust or dirt from the surface by wiping with a clean, dry cloth or brush.

2. AquaFlash System Application
   a. The width of the AquaFlash Mesh must overlap each side of the joint a minimum of 51 mm (2 in) - Figure 13.
   b. Clean the joint to allow for the installation of a backer material. Install a closed cell polyethylene backer rod sized a minimum of 50% larger than the joint width. Install so that the backer rod is recessed or projects a minimum of 6.4 mm (1/4 in) from the wall surface.

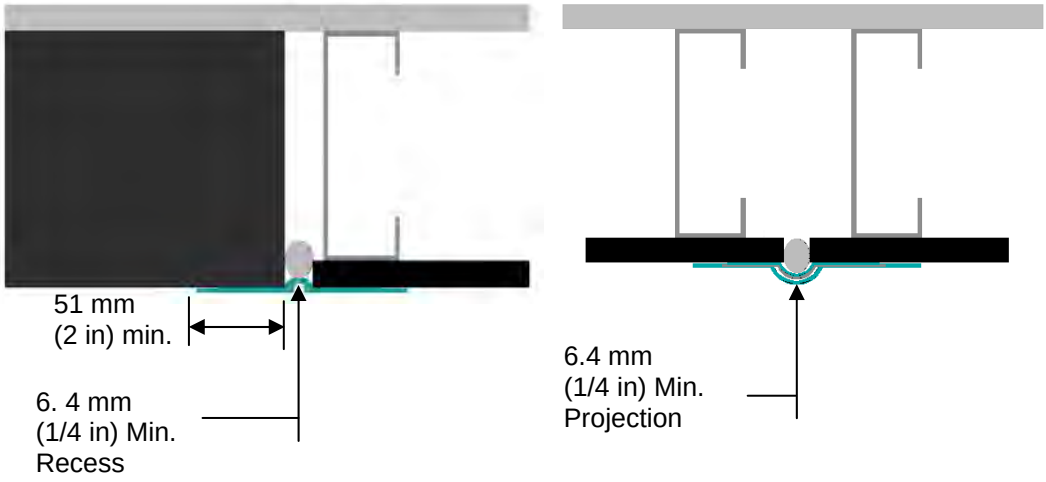

Figure 13

c. Using a brush or 19 mm (3/4 in) nap roller, apply a liberal coat of AquaFlash Liquid material to the backer rod and adjacent substrate surface to the width of the AquaFlash Mesh - Figure 14.

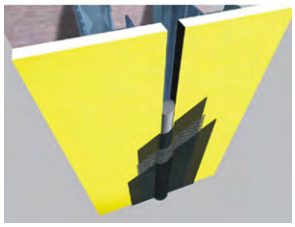

Figure 14

d. Immediately lay the AquaFlash Mesh into the wet material and brush smooth adding additional material to completely embed the mesh.
e. Allow material to set for 15 minutes then apply a second liberal coat of AquaFlash Liquid and smooth out to ensure a continuous film free of voids, pinholes, or other discontinuities.

B. Dryvit Flashing Tape and Flashing Tape Surface Conditioner Option

NOTE: **When Dryvit Flashing Tape is specified for substrate expansion joint bridging, the air/water-resistive barrier must be installed prior to preparing the joint (see Section VI).**

NOTE: Coordinate the Dryvit Flashing Tape application with the insulation board installation. Apply only enough Dryvit Flashing Tape that can be covered with the insulation board in the same work period.

1. Surface Preparation
   a. Apply only when air and surface temperatures are above 4 °C (40 °F).
   b. The surface to receive Dryvit Flashing Tape Surface Conditioner and Dryvit Flashing Tape must be clean, dry, smooth and free of any condition that will hinder adhesion.
   c. Clean loose dust or dirt from the surface by wiping with a clean, dry cloth or brush.
2. Dryvit Flashing Tape Surface Conditioner Application
   a. Pour the desired amount of surface conditioner into a clean container to prevent contamination.
   b. Apply to the surfaces, which are to receive the Dryvit Flashing Tape, using a brush or roller. Sufficient surface conditioner should be applied to condition the surface to a dust free state suitable for the application of the Dryvit Flashing Tape. It should not be applied so heavily that it puddles or runs. Application of excess material will not improve adhesion but will extend the drying time.
   c. Allow to dry until the surface is slightly tacky. Low temperatures and high humidity conditions may require longer drying times. Conditioning should be limited to areas that can be covered with Dryvit Flashing Tape within the same day.

3. Position the Dryvit Flashing Tape so that it is centered over the joint. Adhere to one side of the joint, and then adhere the adjacent side. Allow enough slack in the tape to account for any joint movement.

VI. Air/Water-Resistive Barrier Application

A. When using Backstop DMS refer to DS704

B. Ensure that the wall surface and ambient temperature are above 4 °C (40 °F) and rising at the time of Backstop NT application. **WARNING: Do not apply the Dryvit materials in the rain. The underlying wall materials and substrate surface must be dry prior to applying the air/water-resistive barrier.**

C. Sheathing Substrates

1. Prior to applying the Backstop NT over a sheathing substrate, check to ensure that:
   a. The sheathing is of a type listed in the Outsulation Plus MD System Specification, DS137.
   b. The sheathing is structurally sound, free of loose material, voids, projections or other conditions that may interfere with the installation of the Outsulation Plus MD System.
   c. The sheathing is clean, dry, and free of grease, oil, paint and other foreign material.
      1) Exterior grade gypsum sheathing facing paper shall not show signs of deterioration and shall be firmly bonded to the core.
      2) Plywood or OSB moisture content shall not exceed 19% as measured by a probe type moisture meter.
   d. There are no planar irregularities greater than 6.4 mm (1/4 in) within any 1.2 m (4 ft) radius. **SHEATHING WITH GAPS OR DAMAGE EXCEEDING 6.4 mm (1/4 in) IN ANY ONE DIRECTION MUST BE REPLACED. NOTE: Notify the general contractor and/or architect and/or owner of all discrepancies. Do not proceed until all unsatisfactory conditions have been corrected.**
   NOTE: OSB sheathing requires that joints and fasteners be treated with Backstop NT - Texture. A minimum of two (2) coats of Backstop NT - Smooth are required for the field of the wall. Backstop NT - Texture is not recommended for application in the field of the board.

D. Concrete or Masonry Substrates

NOTE: Backstop NT - Texture is the only recommended product use over concrete and masonry.

1. Prior to applying the Backstop NT - Texture over a concrete or masonry substrate, check to ensure that:
   a. All cracks are repaired using appropriate procedures and materials.
   b. The substrate is structurally sound, free of loose material, voids, projections or other conditions that may interfere with the installation of the Outsulation Plus MD System.
   c. The substrate is clean, dry, free of grease, oil, paint, form release agents, efflorescence and other foreign materials that may inhibit adhesion.
   d. There are no planar irregularities greater than 6.4 mm (1/4 in) within any 1.2 m (4 ft) radius.
      1) **Mortar joints that are NOT struck flush or heavily textured masonry units shall be skim coated with Dryvit Genesis or Genesis DM prior to the application of Backstop NT - Texture.**
         a) Mix Genesis or Genesis DM in accordance with Section III.C.1 or III.C.3, respectively.
         b) With a stainless steel trowel, apply a coat of the Genesis mixture or Genesis DM mixture over the substrate to fill the mortar joints and surface texture to provide a uniform smooth surface for the application of the Backstop NT - Texture.
         c) Allow the skim coat to completely dry prior to applying the Backstop NT - Texture.

E. Usage Application Chart

Backstop NT - Texture and Backstop NT - Smooth Usage/Application Chart				
Substrate	**Location**	**Product**	**Tool**	**Approximate Coverage Per Pail[e]**
Exterior Grade Gypsum Sheathing	**Joints[a]**	**Backstop NT - Texture**	**Trowel**	**91 m (300 lin. ft.)**
	Face[f]	**Backstop NT - Texture OR Backstop NT - Smooth**	**Trowel or FoamPRO #58 Roller[b]**	**For both tools 23-28 m^2 (250-300 ft^2)**
			12.7 mm (1/2 in) Nap Roller	**46 m^2 (500 ft^2)[c]**
Fiberglass Faced Exterior Gypsum Sheathing	**Joints[a]**	**Backstop NT - Texture**	**Trowel**	**91 m (300 lin. ft.)**
	Face[f]	**Backstop NT - Texture OR Backstop NT - Smooth**	**Trowel**	**23-28 m^2 (250-300 ft^2) [includes joints]**
			19 mm (¾ in) Nap Roller	**37 m^2 (400 ft^2)[c]**
Exterior Grade and Fire Retardant Treated Plywood and Exterior Cement Board	**Joints[a]**	**Backstop NT - Texture**	**Trowel**	**91 m (300 lin. ft.)**
	Face[f]	**Backstop NT - Texture OR Backstop NT - Smooth**	**Trowel or FoamPRO #58 Roller[b]**	**For both tools 23-28 m^2 (250-300 ft^2)**
			12.7 mm (1/2 in) Nap Roller	**37 m^2 (400 ft^2)[c]**
APA Exposure 1 Rated Oriented Strand Board (OSB)	**Joints[a]**	**Backstop NT - Texture**	**Trowel**	**91 m (300 lin. ft.)**
	Face[f]	**Backstop NT - Smooth**	**12.7 mm (1/2 in) Nap Roller**	**33-37 m^2 (350-400 ft^2) applied in 2 coats**
Concrete and Masonry	**Face[d]**	**Backstop NT - Texture**	**Trowel[g]**	**16.7 m^2 (180 ft^2)[g]**
			FoamPRO #58 Roller[b]	**11-14 m^2 (125-150 ft^2)[g] applied in 2 coats**

[a] Tape the joints with Dryvit Grid Tape prior to application of Backstop NT - Texture at joints and screw heads.
[b] Up to 1 pint (16 oz) of water may be added to a 60 lb pail of Backstop NT - Texture for roller or spray applications only. The FoamPRO #58 roller cover (FoamPRO Mfg., Inc., www.foampromfg.com) is available at home supply stores.
[c] Because of application methodology and absorptive surface differences, two coats may be required to obtain this coverage.
[d] Due to variations in types of concrete/masonry, apply a 6 ft x 6 ft test area with coverage as indicated in the chart, before proceeding with the entire job. If there are voids in the dried BSNT - Texture, particularly at the mortar joints, the job should be parged with Genesis®, 24 hours prior to BSNT - Texture application. **Backstop NT shall NOT be used as a skim coat for parging joints or heavy textured units**.
[e] Backstop NT - Texture and Smooth should be applied at the recommended coverage rates to form a continuous film free of voids at a dry film thickness of approximately 12 mils (the approximate diameter of the aggregate component).
[f] Backstop NT - Texture (with up to 1 pint water addition per 60 lb. pail) or Smooth may be sprayed and backtrowelled/backrolled.
[g] Coverage may vary depending on the porosity of the substrate. Coverage assumes a smooth, dense surface.

Refer to Product Data Sheets for Complete Mixing and Application Instructions

Backstop® NT – Smooth on DensGlass® Gold – Dried Appearance and Wet Mill Reading

3/4" Nap Roller Applied **800** ft²/pail application rate	3/4" Nap Roller Applied **400** ft²/pail application rate
	

Note: When Backstop NT – Smooth is applied at the correct rate of **400** ft²/pail (yielding a dry film thickness of ~12 mils**), the yellow color from the DensGlass Gold substrate does not show through compared to a higher application rate of **800** ft²/pail.

**A 12 mil dry film will be obtained when:

1. Backstop NT – Smooth is applied at the correct rate of **400** ft²/pail
   and/or
2. The wet mil reading on one coat of BSNT – Smooth is 13 – 14 mils

F. Application of Backstop NT

1. Dryvit Grid Tape (not required with concrete and masonry substrates)
   a. For sheathing substrates, apply the Dryvit Grid Tape along all joints in the sheathing, as well as inside corners, outside corners, and exposed edges at terminations that will not be covered with Dryvit AquaFlash or Dryvit Flashing Tape.
   b. Center the Dryvit Grid Tape on the sheathing joints, edges, etc. with the pressure sensitive adhesive backing in contact with the sheathing surface. Press into position with hand pressure until adhesion is achieved.
   c. Apply only enough Dryvit Grid Tape as can be covered with Backstop NT - Texture in the same day.
2. Dryvit Backstop NT - Texture Application

   NOTE: Backstop NT Texture is <u>NOT</u> recommended for use over the face of OSB.

   a. General: Backstop NT - Texture can be applied using a roller, trowel or spray equipment over the listed substrates, as noted in the usage chart above. Backstop NT - Texture should be applied at the recommended coverage rate to achieve a continuous film at a minimum dry film thickness of approximately 0.3 mm (12 mils).
   b. Roller Application
      1) Apply Dryvit Grid Tape as described in Section VI.F.1 above. Mix the Backstop NT - Texture material as described in Section III.B.2. Using a stainless steel trowel or spatula, apply a layer of Backstop NT - Texture over the Dryvit Grid Tape and spot all fastener heads – Figure 15. **NOTE: Dryvit Grid Tape is not necessary over fastener heads.**

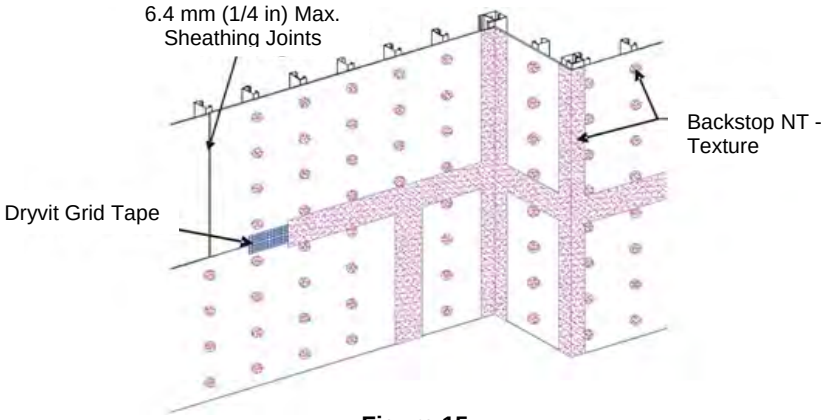

Figure 15

2) Allow to dry for a minimum of 2 hours or until dry to the touch. **NOTE: Cool, humid conditions may require longer drying times**
   a) Because of the absorption characteristics, plywood substrates may require a second pass to fill any voids at the sheathing joints. After the first pass has dried, check the joints and spot any voids that may be present with additional Backstop NT – Texture material and allow to dry.
3) Use a coarse, open-cell foam roller cover with a 9.5 mm (3/8 in) foam nap (FoamPRO #58 roller). Apply a uniform, continuous film of Backstop NT – Texture over the entire surface of the sheathing, concrete or masonry, including the previously treated areas – Figure 16. **NOTE: If the roller pulls material back out of the sheathing joints, it indicates that the joint material is not sufficiently dry.**
   a) For concrete and masonry, ensure that a continuous film of uniform thickness is applied across the entire surface and across mortar joints. Minimum 2 coats are required allowing a minimum of 2 hours between coats. Cool, damp weather may require longer time between coats.

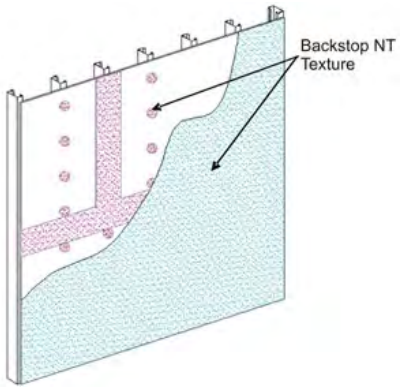

Figure 16

4) While the Backstop NT - Texture is still wet, using a trowel or spatula, smooth out the Backstop NT - Texture around all window and door perimeters and other areas that will later receive Dryvit Flashing Tape - Figure 17.

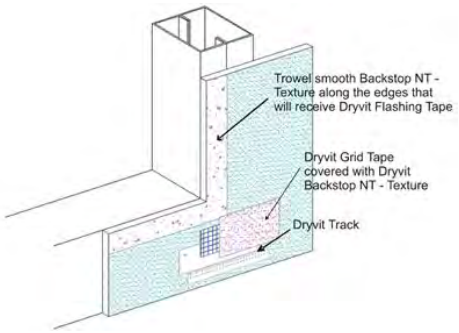

Figure 17

5) The Backstop NT - Texture material should be applied in a uniform, continuous film at the recommended coverage rate. **NOTE: Substrates with a surface texture or high porosity will require additional material.**

c. Trowel Application
   1) Apply Dryvit Grid Tape as described in Section VI.F.1 above. Mix the material, as described in Section III.B.2, and using a stainless steel trowel or spatula, apply a layer of Backstop NT – Texture over the grid tape. Spotting of fasteners is not necessary when applying Backstop NT - Texture using a trowel. Allow to dry for a minimum of 2 hours or until dry to the touch.
   2) Using a stainless steel trowel, apply a continuous coating of Backstop NT - Texture material onto the entire surface. The material should be applied at a smooth, uniform, continuous film approximately equal to the thickness of the aggregate.

d. Spray/Back-Rolling Application
   1) Apply Dryvit Grid Tape as described in Section VI.F.1 above. Mix the material as described in Section III.B.2 and using a stainless steel trowel or spatula, apply a layer of Backstop NT - Texture over the grid tape and spot all fastener heads. Allow to dry for a minimum of 2 hours or until dry to the touch.
   2) Because of the absorption characteristics, plywood substrates may require a second pass to fill any voids at the sheathing joints. After the first pass has dried, check the joints and spot any voids that may be present with additional Backstop NT - Texture material and allow to dry.

3) Using a hand held hopper gun or other suitable spray equipment; spray a layer of Backstop NT - Texture onto the wall surface. Using a coarse, open-cell foam roller cover with a 9.5 mm (3/8 in) foam nap (FoamPro #58 roller), roll the material to create a smooth continuous film. **NOTE: If the roller pulls material back out of the sheathing joints, it indicates that the joint material is not sufficiently dry.**
4) While Backstop NT - Texture is still wet, using a trowel or spatula, smooth out the Backstop NT - Texture around all window and door perimeters and other areas that will later receive Dryvit Flashing Tape – Figure 17.
5) Backstop NT - Texture material should be applied in a uniform, continuous film at the recommended coverage rate. **NOTE: Substrates with a surface texture or high porosity will require additional material.**

e. Allow the Backstop NT – Texture to completely dry prior to installation of the Outsulation Plus MD System

3. Backstop NT - Smooth Application

a. General: Dryvit Backstop NT - Smooth can be applied using a roller or sprayed and back-rolled over the acceptable sheathing substrates. **NOTE: OSB sheathing requires that joints and fasteners be treated with Backstop NT - Texture. A minimum of two (2) coats of Backstop NT - Smooth are required for the field of the wall. Backstop NT - Texture is not recommended for application in the field of the board.**

b. Sheathing Substrates: All fastener heads shall be spotted and joints treated with Backstop NT - Texture and Dryvit Grid Tape prior to Backstop NT -Smooth application, in accordance with Section VI.F.2.

c. Roller Application

1) Using the appropriate nap roller (see Usage Application Chart), apply the Backstop NT - Smooth over the entire wall surface, including previously treated joints. **NOTE: If the roller pulls material back out of the sheathing joints, it indicates that the joint material is not sufficiently dry.**
2) Backstop NT - Smooth material should be applied in a uniform, continuous film at the recommended coverage rate. **NOTE: Sheathing substrates with a surface texture or high porosity will require additional material.**

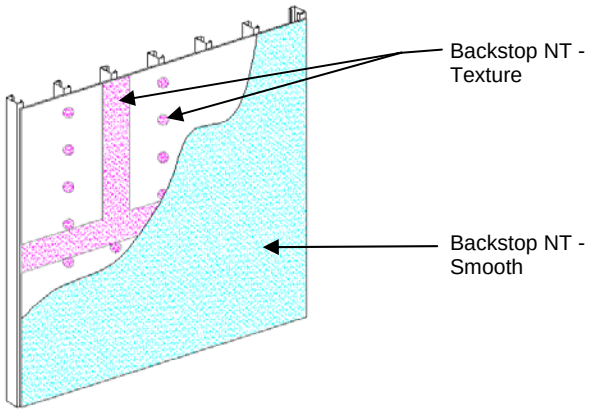

Figure 18

d. Spray/Back-Rolling Application

1) Backstop NT - Smooth may be applied to the wall using spray equipment and back-rolled using the appropriate nap roller (see Usage Application Chart).
2) Allow the Backstop NT – Smooth to completely dry, check the wall to ensure that the Backstop NT - Smooth is continuous and touch up any visible voids with additional Backstop NT - Smooth material.

e. Allow the Backstop NT – Smooth to completely dry prior to installation of the Outsulation Plus MD System.

VII. Accessories

A. Installation of the Dryvit Drainage Strip or Drainage Track

1. Dryvit Drainage Strip (Optional - not required when Drainage Track is specified)

a. Dryvit Drainage Strip shall be used at the base of the walls and shall be installed at the heads of all penetrations and at expansion/control joints as shown in Outsulation Plus MD Installation Details, DS110.

b. Using a chalk line, strike a level line at the base of the wall, head of opening or expansion/control joint to use as reference in applying the Dryvit Drainage Strip.

c. Install the Dryvit Drainage Strip by applying dabs of Dryvit's AP Adhesive at 305 mm (12 in) on center on the dry Backstop NT air/water-resistive barrier.

d. Position the Dryvit Drainage Strip on the chalk line and press firmly against the substrate to ensure firm contact between the adhesive and the wall surface. Staples or other fasteners may be used if necessary to maintain position until the insulation board is installed.

2. Dryvit Drainage Track (Optional - not required when Drainage Strip is specified)
   a. Dryvit Drainage track usage is limited to the base of the system at finished grade level.
   b. Using a chalk line, strike a level line at the base of the wall that coincides with either the top or bottom of the nailing flange.
   c. Install the Dryvit Drainage Track by applying a continuous horizontal bead of Dryvit's AP Adhesive on the wall side of the track's nailing flange.
   d. Position the track on the chalk line and press firmly against the substrate to ensure firm and continuous contact between the adhesive and the wall surface. **NOTE: Do not overlap tracks, they shall be butted tightly.**
   e. Secure the track to the wall using corrosion resistant fasteners attached into the underlying framing members. **NOTE: It is recommended that the surface of the Drainage Track be lightly sanded to improve adhesion of Backstop NT or AquaFlash.**
   f. Install the AquaFlash System, Backstop NT and Grid Tape or Flashing Tape on the flange of the Drainage Track and the adjacent wall in order to ensure water-tightness at the flange/wall interface. See Section IV for proper application.

VIII. Insulation Board Installation

A. When using Backstop DMS refer to DS704

B. System Terminations
   1. Attach Detail Mesh around the perimeter of all openings, penetrations, and other system terminations by stapling or applying a ribbon of adhesive mixture on the substrate and embedding the Detail Mesh into the wet mixture. **NOTE: Back wrapping is not required at the base of the wall when using the Dryvit Drainage Track**.
   2. Position the Detail Mesh so that a minimum of 64 mm (2 1/2 in) will extend onto the face of the insulation board. Keep the mesh, which is not embedded, clean.

C. Inspection of the Insulation Board
   1. Prior to installing the insulation board, it shall be checked to ensure that:
      a. It is shipped in a clear polyethylene bag bearing the Dryvit name. In addition, the lot number of the insulation board shall be visible on the outside of the bag. Insulation board shall be obtained from Dryvit Systems, Inc. or its authorized distributors, and made exclusively by manufacturers listed by Dryvit Systems, Inc.
      b. One edge of each board shall bear the word Dryvit, the plant identification number of the block molder, the appropriate model code report number, and the name of the third party quality control agency with corresponding number. In addition, one board in each bag shall bear the same markings on the face.
      c. The insulation board measures a maximum of 0.6 m (2 ft) by 1.2 m (4 ft) with a minimum thickness of 19 mm (3/4 in).
      d. The insulation board meets the following tolerances:
         1) Length: Plus or minus 1.6 mm (1/16 in).
         2) Width: Plus or minus 1.6 mm (1/16 in).
         3) Thickness: Plus or minus 1.6 mm (1/16 in) for boards greater than 25 mm (1 in), plus 1.6 mm (1/16 in) minus 0 for boards less than or equal to 25 mm (1 in).
         4) Squareness: Shall not deviate from square by more than 0.8 mm (1/32 in) in 305 mm (12 in) of total length or width.
         5) Edge Trueness: Shall not deviate more than 0.8 mm (1/32 in) in 305 mm (12 in).
         6) Face Flatness: Shall not exhibit any bowing of more than 0.8 mm (1/32 in) in the length.

         WARNING: A**ny insulation board not meeting the above requirements should be rejected and not installed.**

D. Methods of Applying the Dryvit Adhesive
   1. Mix the Dryvit adhesive in accordance with Section III.C
      a. Cementitious Adhesive
         1) Notched Trowel Method
            a) With a notched trowel, 9.5 mm (3/8 in) wide, 12.7 mm (1/2 in) deep notches spaced 38 mm (1 1/2 in) apart, apply the adhesive mixture to the backside of the insulation board. Holding the trowel at a 45° angle, apply firm pressure to the insulation board in order to scrape the excess adhesive from between the adhesive beads. **NOTE: Apply the adhesive so that the ribbons run vertically when the insulation board is placed on the wall.**
         2) Ribbon and Dab Method
            a) Using a stainless steel trowel, install a ribbon of the adhesive mixture, 51 mm (2 in) wide by 9.5 mm (3/8 in) thick around the entire perimeter of the insulation board. Place eight (8) dabs of the adhesive mixture 9.5 mm (3/8 in) thick by 102 mm (4 in) in diameter approximately 203 mm (8 in) on center to the interior area of the insulation board. **NOTE: The ribbon and dab method of applying**

the adhesive mixture shall not be used, nor is it recognized by the building codes when applying the Outsulation Plus System over a sheathing substrate. Installations over a sheathing substrate shall use the notched trowel method described above.

3) Push Box Method

a) A push box may also be used to install the adhesive mixture on the insulation board. Contact Dryvit Systems, Inc. for complete details for construction of a push box. **NOTE: Apply the adhesive so that the ribbons run vertically when the insulation board is placed on the wall.**

b. Non-cementitious Adhesive

1) AP Adhesive - recommended for use in limited areas only, such as metal surfaces, including steel lintels, metal flashing, etc.

a) Cut the smallest opening possible in spout (just large enough so adhesive can flow easily when gunned). It is intended to be applied in thin beads [approximately 9.5 mm (3/8 in)].

2. When using Backstop DMS refer to DS704

E. Insulation Board Installation

1. Prior to installing the insulation board, ensure that the surface of the Backstop NT is uniform in thickness, continuous, clean, dry and free of any foreign materials that will affect adhesion of the insulation board.
2. Begin installation of the insulation board from a permanent or temporary support.
3. When sheathing is used as a substrate, use a 305 mm (12 in) high by 1.2 m (4 ft) long piece of insulation board as a starter row at the base of the wall. This will help minimize the insulation board joints from coinciding with the sheathing joints. Offset the insulation board joints from the sheathing joints a minimum of 203 mm (8 in) in both vertical and horizontal directions. Install the insulation boards with their long edges oriented horizontally.
4. Apply the adhesive to the insulation board as described in Section VIII.D.
   a. When using Primus, Genesis, Primus DM, Genesis DM, Genesis DMS or Genesis FM as the adhesive, butter the edge of the insulation board at all terminations in order to properly embed the previously installed Detail Mesh used for back wrapping. Back wrapping is necessary to provide appropriate fire performance and to create the proper surface for application of sealant. **NOTE: The application of the adhesive mixture to the edge of the insulation board is <u>only</u> done when wrapping with the Detail Mesh.**
   b. Genesis DMS may be applied to the substrate surface in a vertical notched trowel pattern as described in Section VIII.D.1.a.1). Refer to Genesis DMS Data Sheet, DS471.
5. Position the insulation board horizontally on the substrate. Press the board gently to the substrate and slide it into position. Apply firm pressure over the entire surface of the insulation board to ensure uniform contact and high initial grab.
6. Using a margin trowel, clean the insulation board edges of any adhesive mixture. Ensure that the insulation board joints are butted tightly and faces are level and flush. **CAUTION: Do not allow adhesive to remain in board joints.**
7. Install subsequent rows of insulation board in a running bond pattern (vertical joints staggered).
8. With factory edges exposed, stagger vertical joints at inside and outside corners. Make sure the corners are straight and plumb.
9. To ensure an overall flat surface, tamp the insulation board surface with a board that overlaps two to four rows of insulation.
10. If for any reason the insulation board joints are not butted tightly, slivers of insulation board must be installed to fill any gaps. ALL GAPS GREATER THAN 1.6 mm (1/16 in) MUST BE SLIVERED. **Tip: In order to create a tight fit, it is recommended that a wider joint be cut with a hot groover or similar tool to allow for a more precise fitting sliver. Do not install adhesive on sliver edges.**
11. Windows, Doors, Mechanical Equipment and <u>all</u> Wall Penetrations
    a. Option 1
       1) At openings, align the insulation boards so that the edges (vertical and horizontal joints) do not coincide with the corners of the opening (refer to Dryvit Outsulation Plus MD System Installation Details, DS110).
       2) Attach Detail Mesh around the perimeter of the opening as described in Section VIII.B.
       3) Hold the insulation board back from the window/door frame or mechanical equipment to allow for differential movement, proper system edge preparation, and sealant installation as shown in the Dryvit Outsulation Plus MD System Installation Details, DS110.
    b. Option 2 - Installation of J Track at heads of all openings [length not to exceed 0.3 m (10 ft)]. **Tip: It is recommended to use a 19 mm (3/4 in) casing bead as manufactured by Plastic Components – item numbers 1075 or CB 75-25.**
       1) Because insulation board joints cannot align with corners of openings, first cut L-shaped pieces of insulation board for the corners of the opening. Then measure and cut the insulation board to the proper length to fit between the corner pieces over the opening. Insulation board shall be notched to receive J track as shown in the Dryvit Outsulation Plus MD System Installation Details, DS110.
       2) Mix the adhesive material as described in Section III.C.
       3) Cut the Detail Mesh to a working length.

4) Apply a ribbon of adhesive mixture on the air/water-resistive barrier/substrate and position the Detail Mesh in the wet mixture allowing for a 64 mm (2 1/2 in) minimum overlap onto the face of the insulation board. Keep the mesh, which is not embedded, clean.
5) Apply the adhesive mixture to the backside of the insulation board in accordance with Section VIII.D and position on the wall. Press gently and slide into position applying uniform pressure to ensure full contact and high initial grab.
6) Using a margin trowel, remove any adhesive from the edges of the insulation boards that will abut other insulation boards. **CAUTION: Do not allow adhesive to remain in board joints. Ensure that the insulation board joints are abutted tightly, and are level and flush.**
7) Measure and cut J Track so that it extends 152 mm (6 in) beyond the edges of the opening as shown in Outsulation Plus MD Installation Details DS110.
8) Install the J Track by applying a continuous bead of Dryvit AP Adhesive on the wall side of the vertical nailing flange of the track and position over the notched insulation board. Press firmly against the substrate to ensure firm and continuous contact between the adhesive and the wall surface.
9) Secure the track to the wall using corrosion resistant fasteners attached into the underlying framing members. **NOTE: It is recommended that the surface of the track be lightly sanded to improve adhesion.**
10.) Install the AquaFlash System, Backstop NT and Grid Tape or Flashing Tape on the flange of the J Track and the adjacent wall in order to ensure water-tightness at the flange/wall interface. See Section IV for proper application.

12. Expansion Joints
    a. Attach Detail Mesh around the perimeter of the opening as described in Section VIII.B.
    b. When abutting dissimilar materials, leave a minimum 19 mm (3/4 in) separation between the insulation board and abutting material to allow for differential movement, proper system edge preparation and sealant installation.
    c. When the Outsulation Plus MD System is installed at a substrate transition, leave a minimum 19 mm (3/4 in) separation between the insulation boards to allow for differential movement, proper system edge preparation and sealant installation.
13. **IMPORTANT:** Once the insulation board and Detail Mesh are in place, wait a minimum of 24 hours prior to working on the surface of the insulation board to prevent any movement which may weaken the bond of the adhesive mixture to the substrate. **NOTE: Be sure to protect the installed insulation board from rain, freezing or inclement weather for a period of 24 hours.**
14. Any irregularities in the insulation board surface must be sanded flat. Sanding is accomplished with a light circular motion. **The entire wall area must be sanded.** Use grade 20 grit sandpaper or coarser, in conjunction with hand, electric or air rasps. **NOTE: Do not sand parallel to the insulation board joints**. **CAUTION: The contractor shall take precautions to contain EPS dust from rasping operation in accordance with contract documents. Use of vacuum rasps are recommended to minimize introduction of EPS dust into the environment.**
15. Remove all loose pieces of insulation board and dust from the sanding operation using a brush, broom, or compressed air. Use OSHA required masks to protect against inhaling EPS dust.
16. All Detail Mesh that was previously installed for back wrapping the insulation board shall be embedded in the base material mixture at this time.
    a. With a stainless steel trowel, apply any of Dryvit's cementitious base material mixture to the face (and edge if not previously coated) of the insulation board and embed the Detail Mesh in the wet mixture. **NOTE: It is not recommended to use NCB to embed reinforcing mesh at EPS edges that will receive sealant.**
17. Aesthetic Reveals
    a. To install an aesthetic reveal, snap a straight line using a chalk line to mark the position.
    b. Position a straight edge such as a steel stud or track against the insulation board in the proper location to guide the appropriate cutting tool (router, hot knife, or hot groover). **CAUTION: The thickness of the insulation board in the bottom of the reveal must not be less than 19 mm (3/4 in).**
    c. Use Detail Mesh to ensure continuity of reinforcing mesh through aesthetic reveals continuing a minimum of 64 mm (2 1/2 in) on each side of the reveal.
       1) Apply the base material mixture in the reveal and on the adjacent insulation board surfaces.
       2) Embed the Detail Mesh into base coat mixture on one side of the reveal only.
       3) Use a sled or special tool configured to the profile of the reveal. Embed the Detail Mesh into the base coat mixture through the reveal being careful not to cut the mesh.
       4) Embed the Detail Mesh into the base coat mixture on the other side of the reveal. Ensure that the mesh is fully embedded and that all excess material is removed from the reveal.
       5) Using a damp brush, smooth out any irregularities in the base coat.
       CAUTION: If the mesh is cut in the reveal, a new piece of mesh must be installed over the cut.

18. Where Corner Mesh is specified for additional impact resistance at outside corners, the Corner Mesh shall be embedded in the base coat mixture and allowed to set prior to installing the overall reinforced base coat over the face of the wall.
19. Corners of all openings such as windows, doors, mechanical equipment and all penetrations shall be reinforced with Detail Mesh placed diagonally to the opening as illustrated in Figure 19.

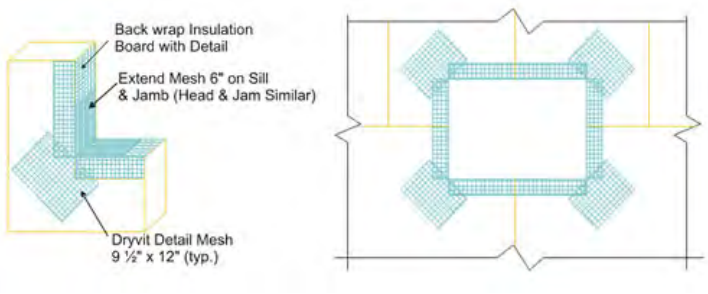

Figure 19

IX. Installation of Reinforcing Mesh and Base Coat

A. General
1. **Do not apply the Dryvit materials in the rain. The insulation board must be dry prior to applying the base coat material.**
2. Prior to installing the reinforced base coat, inspect the surface of the insulation board for:
   a. Flatness: Use a minimum 2.4 m (8 ft) straight edge. Sand any high areas and out-of-plane board joints flat, as described in Section VIII.E.14 and 15. **CAUTION: Do not build up low areas with base coat mixture to form a flat surface.**
   b. Damage and foreign materials: correct deficiencies as necessary.
   c. Surface degradation due to weathering or UV, visible as discoloration. Sand affected areas to remove deterioration while maintaining the flatness of the surface.

B. Mix the base coat material as described in Section III.C and D.

C. Prior to installing the reinforcing mesh, it should be inspected to ensure that it has been furnished by Dryvit Systems, Inc.
1. Dryvit reinforcing mesh is available in the following widths and lengths:
   a. Standard - 1.2 m x 45.7 m (48 in x 150 ft); 1.8 m x 45.7 m (72 in x 150 ft)
   b. Standard Plus, and Intermediate - 1.2 m x 45.7 m (48 in x 150 ft)
   c. Panzer 15 - 1.2 m x 22.9 m (48 in x 75 ft)
   d. Panzer 20 - 1.2 m x 22.9 m (48 in x 75 ft)
   e. Corner - 235 mm x 45.7 m (9 1/4 in x 150 ft)
   f. Detail - 241 mm x 45.7 m (9 1/2 in x 150 ft)
2. It shall be colored blue for product identification bearing the Dryvit logo.

D. Installation of Dryflex base coat in high exposure areas such as sloped surfaces, window sills, etc.
1. Using a stainless steel trowel, apply the Dryflex mixture on the surface of the insulation board in a uniform thickness of approximately 2.4 mm (3/32 in). Apply the Dryflex continuously over the sloped surface and continue minimum 152 mm (6 in) onto the vertical areas.
2. Immediately place the reinforcing mesh against the wet Dryflex mixture. With the curve of the mesh against the wall, trowel from the center to the edges, avoiding wrinkles, until the mesh is fully covered and not visible. The overall minimum base coat thickness shall be sufficient to **fully embed** the reinforcing mesh. The recommended method is to apply the base coat in two (2) passes.

NOTE: The reinforcing mesh can be continued across the transition from Dryflex base coat to standard base coat.

3. Allow the Dryflex to cure a minimum of 24 hours or until dry.

E. Base Coat Application
1. Standard Base Coat (single layer of Standard, Standard Plus or Intermediate Reinforcing Mesh)
   a. The base coat shall be applied such that the resulting overall minimum base coat thickness is sufficient to **fully embed** the reinforcing mesh. The recommended method is to apply the base coat in two (2) passes.
   b. Double pass method (recommended)
      1) Using a stainless steel trowel, apply the base coat mixture on the entire surface of the insulation board to an area slightly larger than the width and length of a piece of reinforcing mesh, in a uniform thickness of 1.6 mm (1/16 in). **NOTE: The reinforcing mesh may be installed either vertically or horizontally.**
      2) Immediately place the reinforcing mesh against the wet base coat mixture. With the curve of the mesh against the wall, trowel from the center to the edges avoiding wrinkles, until the mesh is fully embedded and not visible. Trowel smooth to a uniform thickness slightly more than the thickness of the reinforcing mesh. **NOTE: The reinforcing mesh shall be continuous at corners and mesh edges lapped not**

less than 64 mm (2 1/2 in). Do not lap the reinforcing mesh within 203 mm (8 in) of a corner. Tip: Corners and edges normally require light strokes with a small damp brush to smooth out irregularities.

3) Allow the base coat mixture to take up until firm to the touch. Trowel a second tight coat of the base coat mixture over the first coat to **fully cover** the reinforcing mesh - Figure 20. The result should be such that the reinforcing mesh is approximately centered within the base coat thickness. Do not allow the first pass to completely dry prior to the second pass application or an excessive amount of base coat mixture will be necessary to fully coat the wall surface.

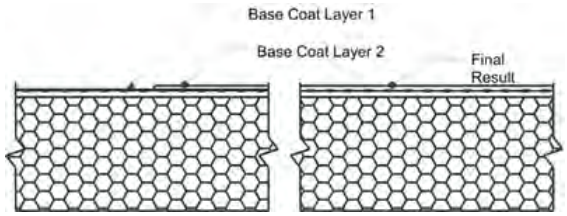

Figure 20

c. Single pass method (optional)

1) Using a stainless steel trowel, apply the base coat mixture on the entire surface of the insulation board to an area slightly larger than the width and length of a piece of reinforcing mesh, in a uniform thickness of 1.6 mm (1/16 in). **NOTE: The reinforcing mesh may be installed either vertically or horizontally.**

2) Immediately place the reinforcing mesh against the wet base coat mixture. With the curve of the mesh against the wall, trowel from the center to the edges avoiding wrinkles, until the mesh is fully embedded and not visible. Trowel smooth to a uniform thickness slightly more than the thickness of the reinforcing mesh. **NOTE: The reinforcing mesh shall be continuous at corners and mesh edges lapped not less than 64 mm (2 1/2 in). Do not lap the reinforcing mesh within 203 mm (8 in) of a corner. Tip: Corners and edges normally require light strokes with a small damp brush to smooth out irregularities.**

d. Protect completed work from water penetration and runoff.

e. Allow the base coat to cure a minimum of 24 hours before proceeding with application of finish coat. Cool, damp conditions may require longer drying times. Do not apply finish to a wet or damp base coat.

2. Panzer Mesh Base Coat (Panzer 15 or Panzer 20 used in conjunction with Standard or Standard Plus Reinforcing Mesh). **Panzer Mesh is recommended for use at all ground floor locations and at high traffic areas. Refer to contract documents.**

a. Using a stainless steel trowel, apply the base coat mixture on the entire surface of the insulation board to an area slightly larger than the width and length of a piece of reinforcing mesh, in a uniform thickness of approximately 3.2 mm (1/8 in).

b. Immediately place the reinforcing mesh against the wet base coat mixture. With the curve of the mesh against the wall, trowel from the center to the edges avoiding wrinkles until the mesh is fully covered and not visible.

c. Continue in the same manner until the entire area requiring Panzer Mesh is covered. **CAUTION: Do not lap the Panzer Mesh. Adjacent pieces are to be tightly butted.**

d. Protect completed work from water penetration and runoff.

e. Allow the Panzer base coat to cure a minimum of 24 hours prior to applying Dryvit's Standard or Standard Plus Reinforcing Mesh.

f. Apply the second layer of reinforcing mesh in accordance with Section IX.E.1.c. Offset the edges of the Standard or Standard Plus Reinforcing Mesh from the edges of the Panzer Mesh a minimum of 203 mm (8 in). **Tip: If Panzer Mesh is installed horizontally, we recommend the Standard or Standard Plus Mesh be installed vertically and vice versa.**

X. Sealant Joint Preparation

A. All Outsulation Plus MD base coat surfaces which will be in contact with sealant must be coated with either Color Prime or Demandit.

1. Mix Color Prime or Demandit in accordance with Section III.E and H respectively.
2. Using a small brush, apply Color Prime or Demandit to the base coat surface that is to be in contact with the sealant and extending to the joint edge.
3. Allow the Color Prime or Demandit to dry a minimum of 48 hours prior to applying the sealant primer and sealant. Cool damp weather may require longer drying times.
4. Refer to sealant manufacturer’s installation instructions for the proper application of the sealant.

XI. Dryvit Primers

A. Prior to applying the Dryvit primers, the base coat shall have cured a minimum of 24 hours and shall be dry and hard. Cure time may be longer depending on environmental conditions. **NOTE: Refer to Product Data Sheets when applying over other materials.**

B. Inspect the base coat for any irregularities such as trowel marks, board lines, rough corners and edges, improper reinforcing mesh embedment as well as efflorescence. **NOTE: Correct all irregularities and remove all efflorescence prior to applying the Dryvit primer.**

C. Color Prime and Weatherprime
1. Mix to a smooth homogeneous consistency in accordance with Section III.E.
2. Apply with a brush, roller, or airless spray equipment. Refer to Color Prime or Weatherprime Data Sheets, DS410 or DS436 respectively for complete instructions.

D. Color Prime W
1. Mix to a smooth homogeneous consistency in accordance with Section III.E.
2. Application with airless spray equipment is recommended. Refer to Color Prime W Data Sheet, DS474 for complete instructions.

E. Primer with Sand
1. Mix to a smooth homogeneous consistency in accordance with Section III.E.
2. Application with a roller is recommended. Refer to Primer with Sand Data Sheet, DS477 for complete instructions.

XII. Dryvit Finish

A. Prior to applying the Dryvit finish, the base coat shall have cured a minimum of 24 hours and shall be dry and hard. Cure time may be longer depending on environmental conditions.

B. Inspect the base coat for any irregularities such as trowel marks, board lines, rough corners and edges, improper reinforcing mesh embedment as well as efflorescence. **NOTE: Correct all irregularities and remove all efflorescence prior to applying the Dryvit finish.**

C. Application
1. General
   a. Important: All Dryvit finishes must be installed continuously to a natural break such as corners, expansion joints, or tapeline. Mechanics must maintain a wet edge. Whenever possible, order enough material in a single batch to complete the project to avoid potential color variations from batch to batch. Sufficient personnel and scaffolding must be provided to continuously finish a distinct wall area or otherwise cold joints will result. Scaffolding must be spaced a minimum of 458 mm (18 in) from the wall to prevent staging lines. On hot windy days, the wall may be fogged with clean potable water to cool the wall and facilitate finish installation. As with other plaster materials, installation work should precede the sun. For example, work the shady or cool side of the building. If this is not possible, scaffold should be shaded with a tarp or nursery shade cloth. Do not introduce water to the finish material once it is installed on the wall. This will cause color variations. Each mechanic must use the same tool and hand motion and match the texture of the mechanics above, below and on each side. Use finish from a single batch number whenever possible.
   b. Do not apply Dryvit materials in the rain. The base coat must be dry prior to applying the Dryvit finish or coatings.
   c. Do not apply textured Dryvit finish material in sealant joints. Refer to Section X for proper sealant joint preparation.
2. Quarzputz, Quarzputz E, Sandblast, Weatherlastic Quarzputz
   a. Mix the Dryvit finish as described in Section III.F.
   b. Using a clean stainless steel trowel, apply a coat of the Dryvit finish in a uniform thickness on the dry base coat. **NOTE: The Dryvit Quarzputz finish shall be applied and leveled to a uniform thickness no greater than the largest aggregate. The Sandblast finish is applied and leveled to a thickness of approximately 1 1/2 times the largest aggregate.**
   c. The texture is achieved by uniform hand motion and/or tool that produces the texture to match the approved sample. Each mechanic must use the same tool and hand motion to ensure that the texture achieved is uniform over the entire wall area.
3. Sandpebble, Sandpebble E, Sandpebble Fine, Sandpebble Fine E, Weatherlastic Sandpebble, Weatherlastic Sandpebble Fine, Sandpebble FM and Sandpebble Fine FM
   a. Mix the Dryvit finish as described in Section III.F.
   b. Using a clean, stainless steel trowel, apply an even coat of the finish to a thickness slightly thicker than the largest aggregate size.
   c. Pull across using a horizontal trowel motion to develop a uniform thickness no greater than the largest aggregate of the material.
   d. The texture is achieved by a uniform hand floating motion with a clean stainless steel trowel; wipe the trowel and wet it lightly. Apply light pressure in a circular motion.

4. Freestyle
   a. Mix the Dryvit finish as described in Section III.F.
   b. Using a clean, stainless steel trowel, apply the Freestyle finish on the base coat in a thickness not greater than 1.6 mm (1/16 in). The texture is either pulled out of this base to a thickness of no greater than 6.4 mm (1/4 in) or the texture may be achieved by adding more Freestyle finish to the base coat using the same texturing motions that are used with other plaster materials, such as, a skip trowel finish. Numerous other aesthetically pleasing textures can be created to match approved samples. **NOTE: The maximum thickness of Freestyle finish texture shall not exceed 6.4 mm (1/4 in).**
5. Weatherlastic Adobe
   a. Using a brush, roller or airless spray equipment, apply a coat of color coordinated Color Prime (see Section III.E for mixing instructions) at the recommended coverage to the cured base coat and allow to dry.
   b. Mix the Weatherlastic Adobe finish material as described in Section III.F.
   c. Using a stainless steel trowel, apply a coat of Weatherlastic Adobe approximately 1.6 mm (1/16 in) to the wall surface. Allow the Weatherlastic Adobe finish to take-up.
   d. Using a stainless steel trowel, apply a second coat of Weatherlastic Adobe to obtain the desired texture. **Tip: An atomizing spray bottle may be used to apply a mist of water to the surface in the finishing step.**
6. Ameristone
   a. Mix the Ameristone finish as described in Section III.G.1.
   b. Apply Ameristone finish in accordance with Ameristone Application Instructions, DS142.
7. Stone Mist
   a. Mix the Stone Mist finish as described in Section III.G.2.
   b. Apply Stone Mist finish in accordance with Stone Mist Data Sheet, DS420.
8. TerraNeo
   a. Mix the TerraNeo finish as described in Section III.G.3.
   b. Apply TerraNeo finish in accordance with TerraNeo Data Sheet, DS481.
9. Lymestone
   a. Mix the Lymestone finish as described in Section III.G.4.
   b. Apply Lymestone finish in accordance with Lymestone Data Sheet, DS472.
10. Custom Brick
    a. Refer to Dryvit Custom Brick Application Instructions, DS154 for complete installation instructions.
11. Mojave E™
    a. Refer to Mojave E product Data Sheet DS706.
12. Reflectit
    a. Refer to Reflectit product Data Sheet, DS705 and Application Instructions DS124.

XIII. Coatings and Sealers

A. Demandit and Weathercoat
1. Mix to a smooth homogeneous consistency in accordance with Section III.H.1.
2. Apply with a brush, roller, or airless spray equipment.
3. When applying with a roller, a maximum 19 mm (3/4 in) nap, polyester or polyester blend with nylon or lambswool, with beveled ends and a phenolic core is recommended. A 458 mm (18 in) wide roller frame with a 57 mm (2 1/4 in) inside diameter is also recommended.
4. Apply in one continuous coat, maintaining a wet edge as the application proceeds to a natural break. The roller cover must be kept fully loaded as the application proceeds. **CAUTION: Do not stretch out the application by rolling with a dry roller. The last leveling roller strokes should always be in the same direction. Do not cut in around openings prior to overall application, but rather, do the cut-in work as the application proceeds.**
5. Do not allow Demandit or Weathercoat to dry on roller covers. Roller covers with dried coating do not apply the coating evenly.
6. Changing color requires the application of two coats.

B. Revyvit
1. Mix the Revyvit to a smooth homogeneous consistency in accordance with Section III.H.1.
2. Apply the Revyvit with a brush or 12.7 mm – 15.9 mm (1/2 in - 5/8 in) nap roller.
3. Roll or brush in multiple directions and then lightly finish in one direction to ensure that no lap marks remain.
4. A second coat may be required for heavy textured surfaces or when there is a contrast of colors. Apply the second coat as described in paragraph XIII.B.2 and 3 above. **CAUTION: Do not attempt to apply Revyvit in one heavy coat. Two coats are recommended. Apply the second coat only after the first coat is completely dry. Important: Texture changes will exist after Revyvit is applied over existing Dryvit finishes. The degree of change is a function of the thickness and the number of coats of Revyvit.**

C. Weatherlastic Smooth
1. Mix the Weatherlastic Smooth to a smooth, homogeneous consistency in accordance with Section III.H.1.
2. Apply a minimum 11 mils dry film thickness (22 mils wet film thickness). This is achieved by applying the Weatherlastic Smooth in two (2) 11 mil wet coats. Under average drying conditions, 21 °C (70 °F), 50% RH, two (2) hours drying time between coats should be adequate.
3. For cutting-in and trim, a nylon bristle brush is recommended.
4. Roller Application
   a. A minimum 254 mm (10 in) roller cover with a 32 mm - 38 mm (1 1/4 in - 1 1/2 in) nap is recommended.
   b. Completely saturate the roller cover and keep the roller loaded with coating to avoid foaming. Do not dry-roll or over-roll as this will cause excessive entrapment of air within the coating.
   c. A second coat is applied in a similar manner after the first coat has adequately dried.
5. Spray Application
   a. Application by airless spray equipment or mastic pump and gun allows application of coating at total required application rate with a minimum of stipple or thickness variations.
   b. Equipment should have the capacity to pump 7.6 L (2 gal) of coating per minute.
   c. Material hose should be minimum 12.7 mm (1/2 in) inside diameter for spraying coating through more than a 15 m (50 ft) length. Minimum bursting of 3600 N (800 lbs) is recommended. **Tip: Orifice sizes of 0.53 mm - 0.81 mm (0.021 in - 0.032 in) will be required depending on equipment used.**
   d. Cross apply coating holding spray gun perpendicular to, and approximately 1 m (3 ft) from the wall surface. Avoid excessive material build-up by holding spray gun away from the wall when pulling the trigger, then bringing gun across area to be coated. Maintain a wet edge and avoid starting and stopping in the middle of the wall. Do not attempt to overreach spray pattern as this may result in appearance of irregular spray pattern. Place scaffolding and equipment to facilitate quick application without numerous interruptions.
   e. A 10 % loss from overspray should be anticipated.
   f. Backrolling sprayed areas is recommended to control pinholing on spray applications over porous surfaces.

D. Tuscan Glaze
1. Mix Tuscan Glaze to a smooth homogenous consistency in accordance with Section III.H.2. Continuously agitate throughout application to ensure color consistency.
2. Tuscan Glaze is best applied on large areas using a Hudson-type sprayer or airless spray equipment. For smaller areas, Tuscan Glaze is best applied with a paint pad or, depending on the desired results, a roller, paint brush or sponge. Job site mock-ups are required and should represent the actual job site application techniques.
3. Apply Tuscan Glaze evenly in light strokes. If sagging or running occurs, use a sponge or paint pad to correct immediately. Watch for brush or roller lines. If brush or roller lines appear, use a damp sponge, a paint pad or rag to make them disappear before the Tuscan Glaze starts to dry. The wall may be blotted with a camelback sponge to achieve the desired mottled appearance. Check walls throughout the application to insure that uniformity and the desired appearance is achieved.

E. SealClear
1. Mix SealClear to a smooth, homogeneous consistency in accordance with Section III.H.3.
2. For application instructions, refer to the SealClear Data Sheet, DS426.

XIV. Maintenance and Repair

A. Refer to DryvitCARE EIFS Repair Procedures, DS498.

DISCLAIMER

Information contained in this specification conforms to standard detail and product recommendations for the installation of the Dryvit Outsulation Plus MD System products as of the date of publication of this document and is presented in good faith. Dryvit Systems, Inc. assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To insure that you are using the latest, most complete information, contact Dryvit Systems, Inc., at:

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OUTSULATION® PLUS MD SYSTEM®

DS110

An Exterior Wall Insulation and Finish System With Moisture Drainage That Incorporates Continuous Insulation and An Air/Water-Resistive Barrier

Outsulation Plus MD System Installation Details

An RPM Company

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NOTE

DRYVIT MAKES NO REPRESENTATION REGARDING CONFORMITY OF ITS SUGGESTIONS TO MODEL BUILDING CODES, ENGINEERING CRITERIA, SPECIFIC APPLICATIONS OR PROJECT LOCATIONS. ALL COMPONENTS INDICATED IN ILLUSTRATIONS, AS WELL AS OTHERS THAT MAY BE REQUIRED FOR THE INTEGRITY OF THE SYSTEM SHALL BE DESIGNED, DETAILED AND ENGINEERED BY REPRESENTATIVES OF THE ARCHITECT, OWNER OR CONTRACTOR TO BE IN CONFORMANCE WITH MODEL CODES, ARCHITECTURAL AND ENGINEERING REQUIREMENTS PERTAINING TO SPECIFIC BUILDING PROJECTS.

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THE LIABILITIES OF DRYVIT SHALL BE AS STATED IN THE OUTSULATION PLUS MD LIMITED COMMERCIAL WARRANTY. CONTACT DRYVIT FOR A FULL AND COMPLETE COPY OF THE WARRANTY.

Outsulation® Plus MD System®

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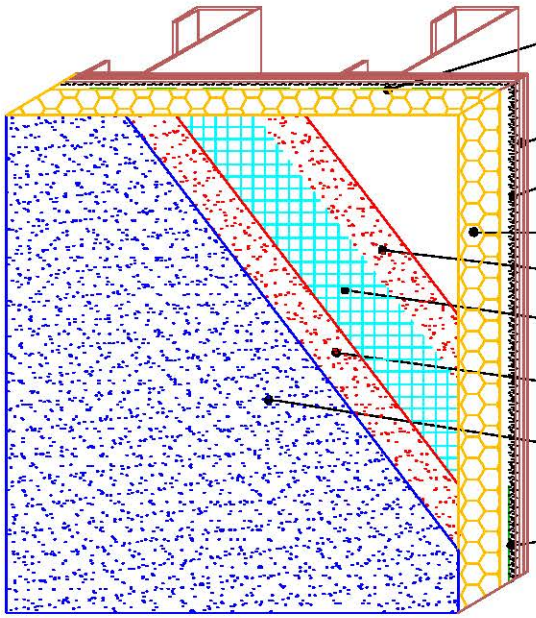
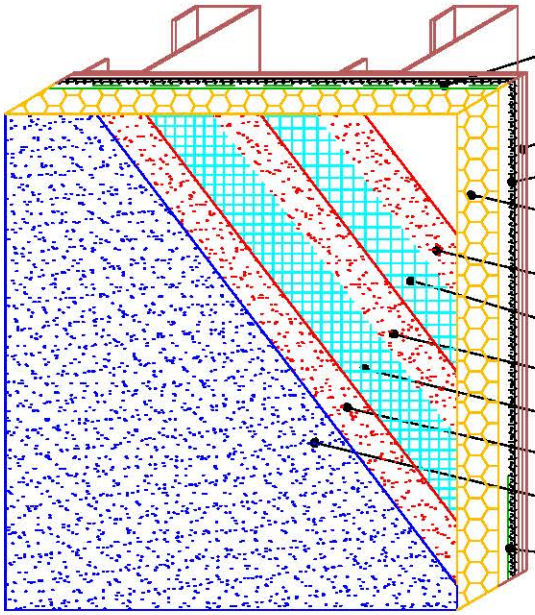
NORMAL IMPACT



- DRYVIT ADHESIVE IN VERTICAL NOTCHED TROWEL CONFIGURATION
- APPROVED SUBSTRATE
- DRYVIT WATER-RESISTIVE BARRIER COATING
- EPS INSULATION BOARD
- DRYVIT BASE COAT
- DRYVIT REINFORCING MESH
- DRYVIT BASE COAT
- DRYVIT FINISH
- DRAINAGE STRIP (SEE NOTES 2 AND 3)

HIGH IMPACT



- DRYVIT ADHESIVE IN VERTICAL NOTCHED TROWEL CONFIGURATION
- APPROVED SUBSTRATE
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- EPS INSULATION BOARD
- DRYVIT BASE COAT
- DRYVIT PANZER REINFORCING MESH
- DRYVIT BASE COAT
- DRYVIT REINFORCING MESH
- DRYVIT BASE COAT
- DRYVIT FINISH
- DRAINAGE STRIP (SEE NOTES 2 AND 3)

Outsulation® Plus MD System®

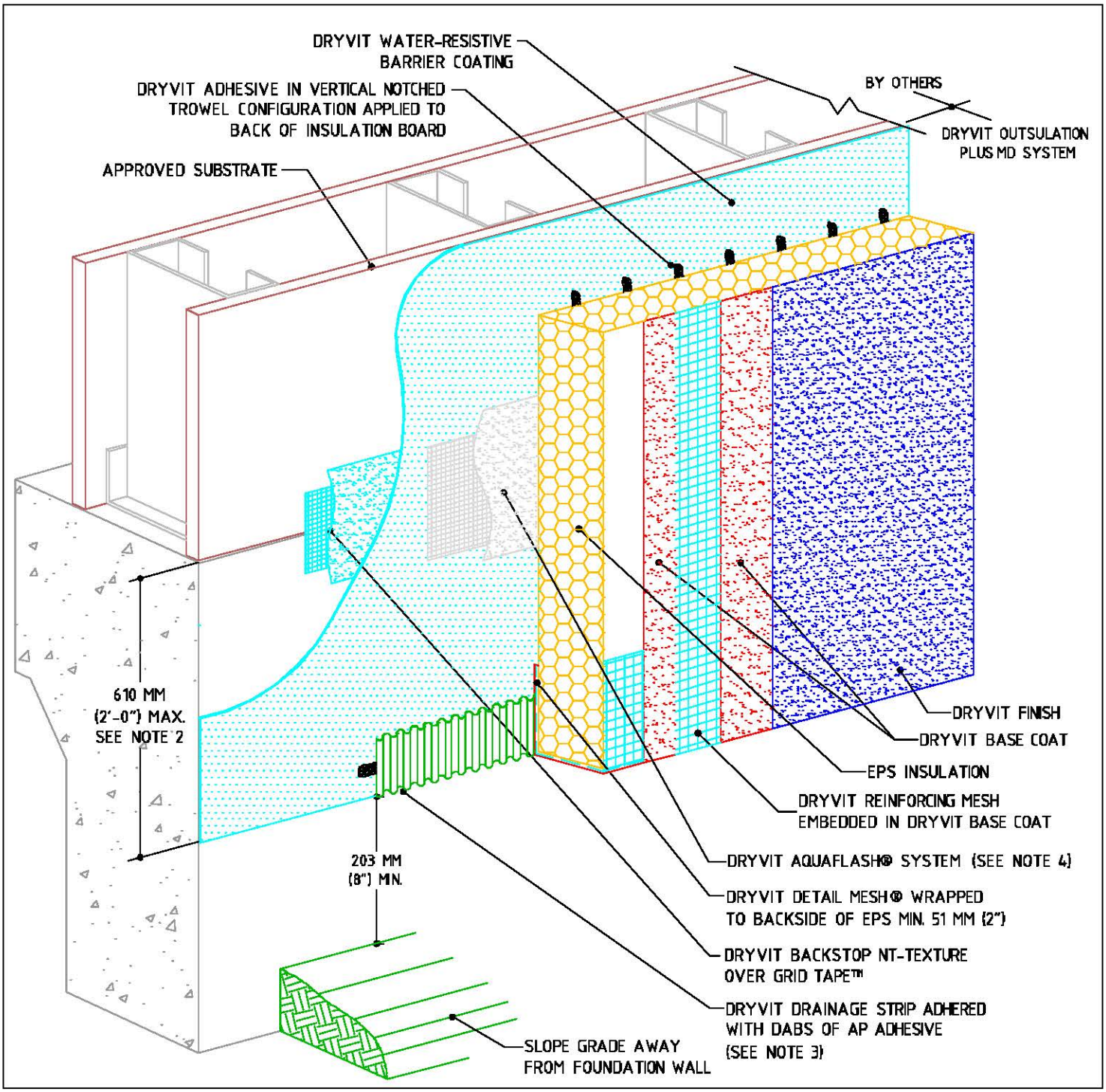
Outsulation Plus MD System

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. AS AN OPTION DRYVIT DRAINAGE TRACK™ CAN BE USED AT SYSTEM TERMINATION AT GRADE, REFER TO OPMD 0.0.03 FOR CONFIGURATION.
3. DRYVIT DRAINAGE TRACK SHOULD ONLY BE USED AT GRADE LEVEL TERMINATIONS.

dryvit®

APPROVED BY:	REV:	DATE:
RS	10	03/08



Outsulation® Plus MD System®

Grade Termination with Drainage Strip

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. EXPANSION JOINT IS REQUIRED ALONG TOP OF FOUNDATION IF 610 MM (2'-0") DIMENSION IS EXCEEDED.
3. ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN.
4. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.

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RS	B	03/08

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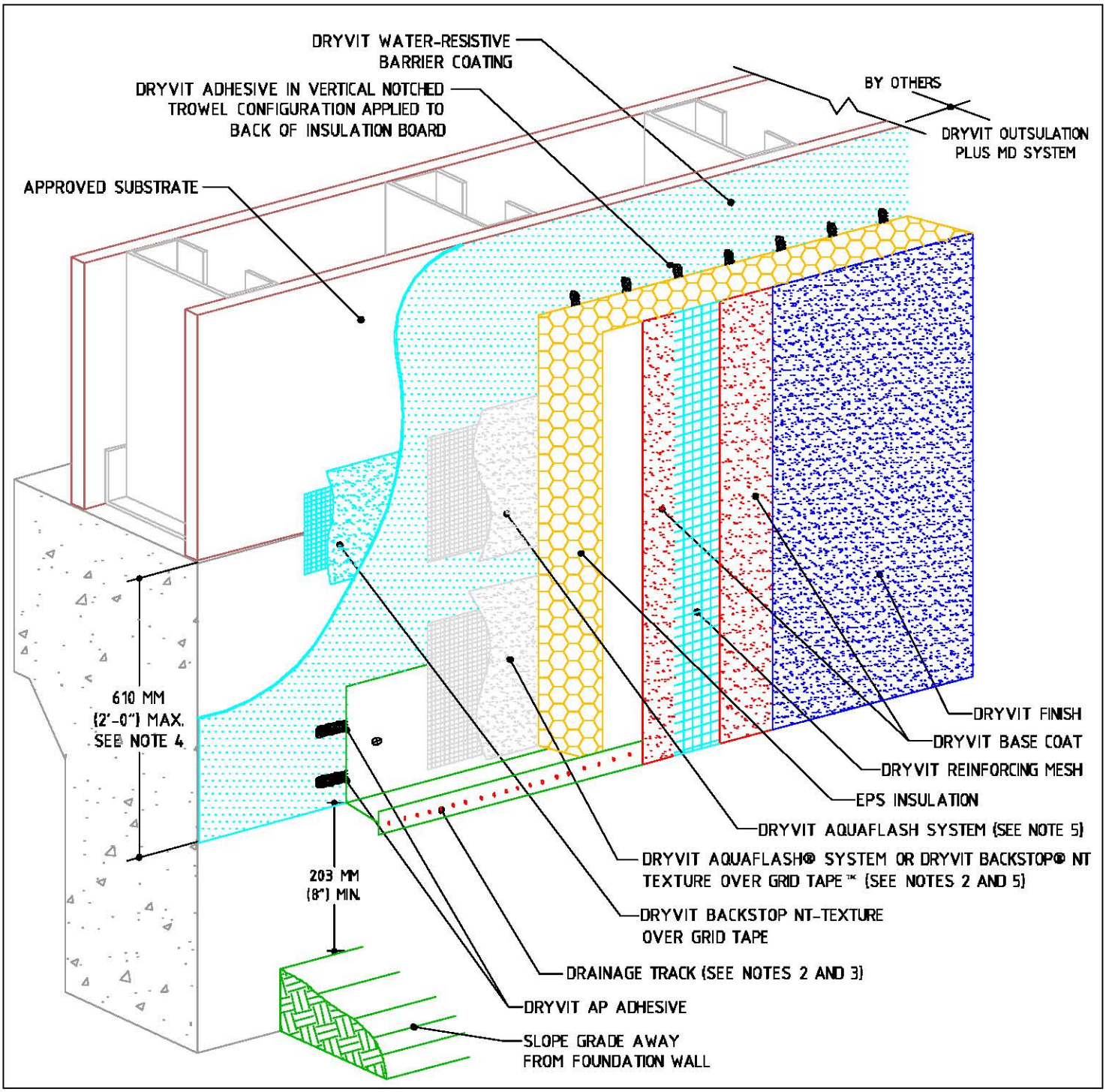

Outsulation® Plus MD System®

Grade Termination with Drainage Track

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. LIGHTLY SAND SURFACE OF DRAINAGE TRACK TO MAXIMIZE ADHESION.
3. DRYVIT DRAINAGE STRIP MAY BE SUBSTITUTED FOR DRYVIT DRAINAGE TRACK. IF DRYVIT DRAINAGE STRIP IS USED, EPS INSULATION MUST BE BACK WRAPPED WITH DRYVIT REINFORCING MESH AND DRYVIT BASE COAT (SEE OPMD 0.0.02).
4. EXPANSION JOINT IS REQUIRED ALONG TOP OF FOUNDATION IF 610 MM (2'-0") DIMENSION IS EXCEEDED.
5. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.

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RS	B	03/08

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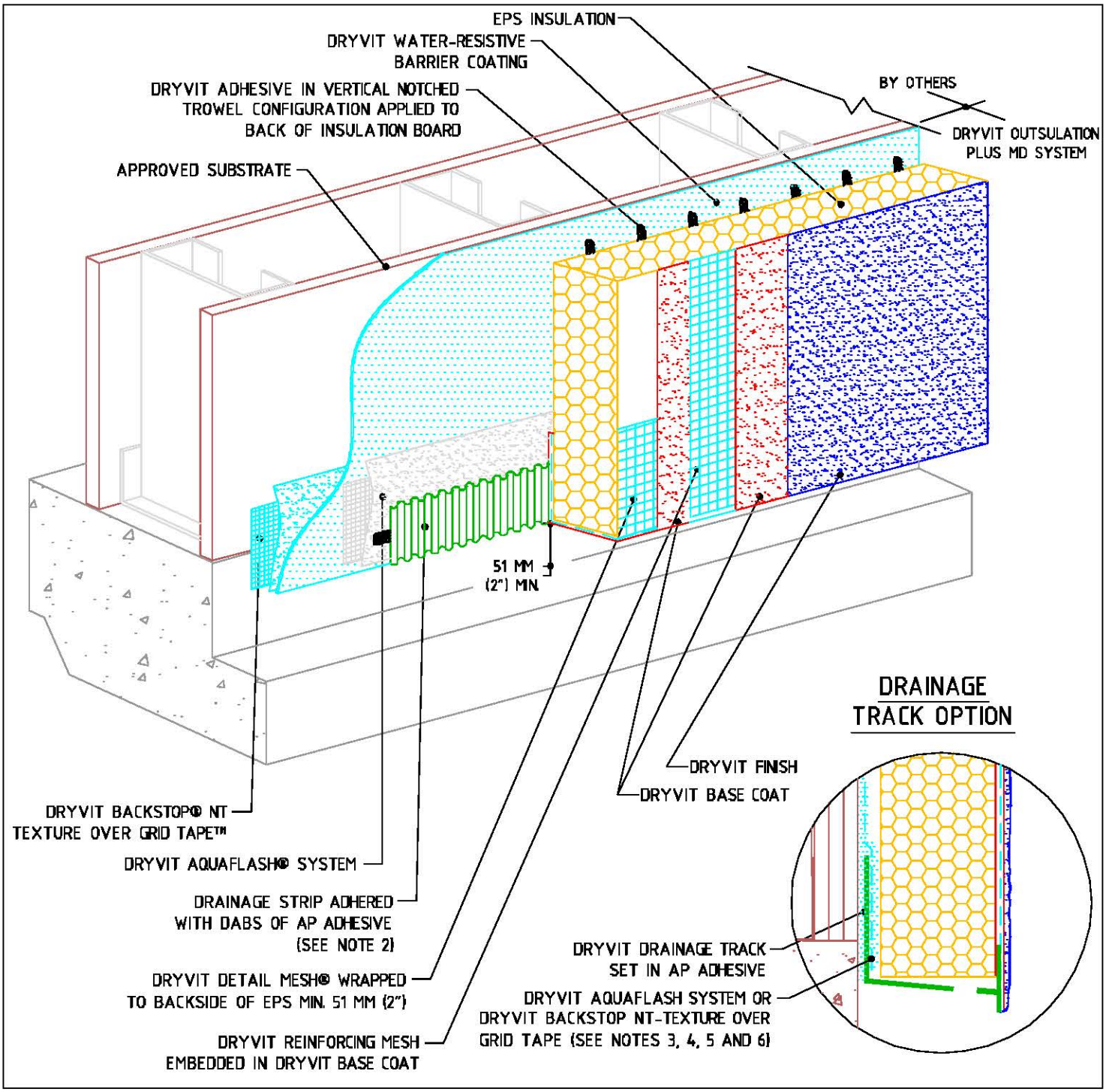

Outsulation® Plus MD System® Grade Level Termination At Concrete Curb

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN.
3. AS AN OPTION DRYVIT DRAINAGE TRACK CAN BE USED AT SYSTEM TERMINATION AT GRADE, REFER TO OPMD 0.0.03 FOR CONFIGURATION.
4. LIGHTLY SAND SURFACE OF DRAINAGE TRACK TO MAXIMIZE ADHESION.
5. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.
6. DRYVIT DRAINAGE TRACK SHOULD ONLY BE USED AT GRADE LEVEL TERMINATIONS.

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RS	B	03/08

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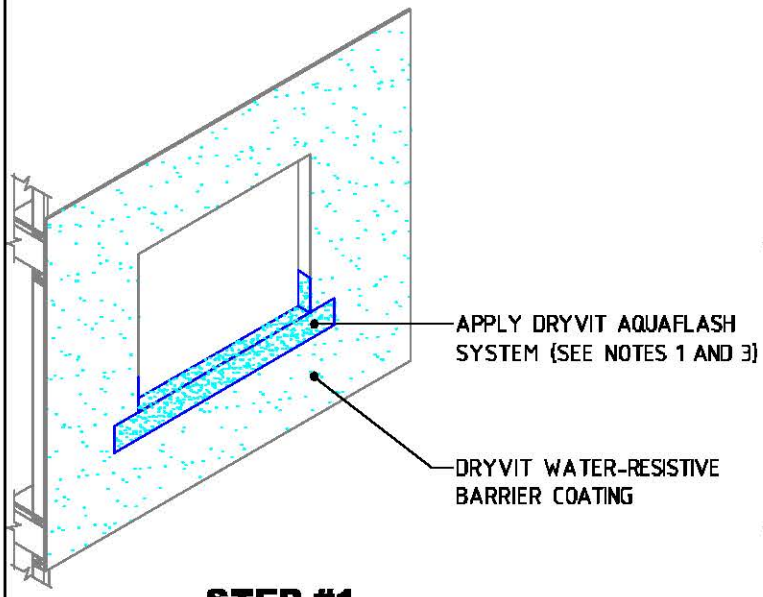
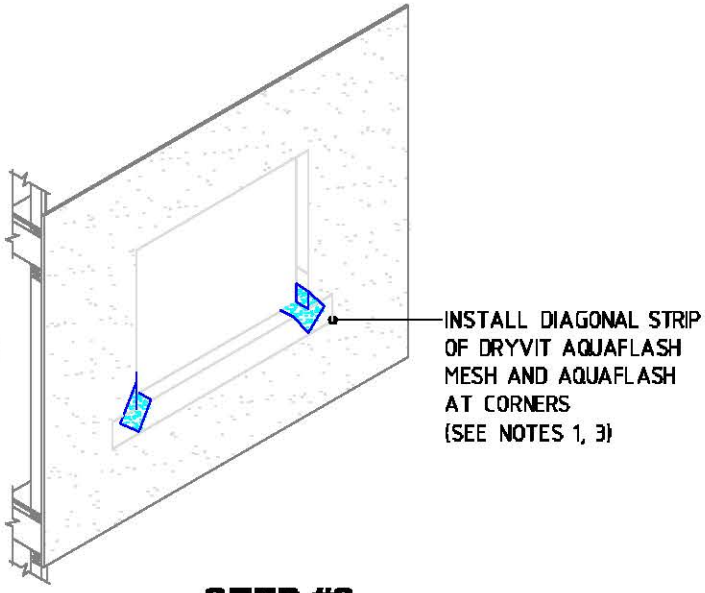
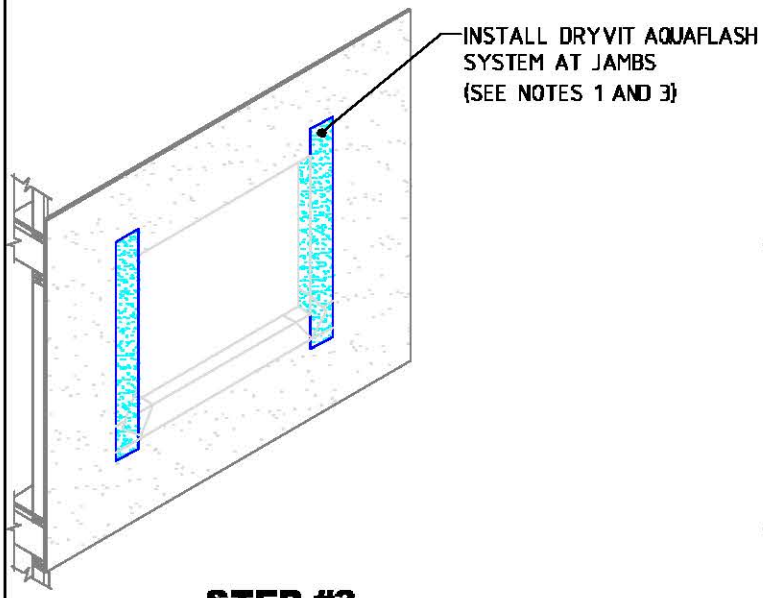


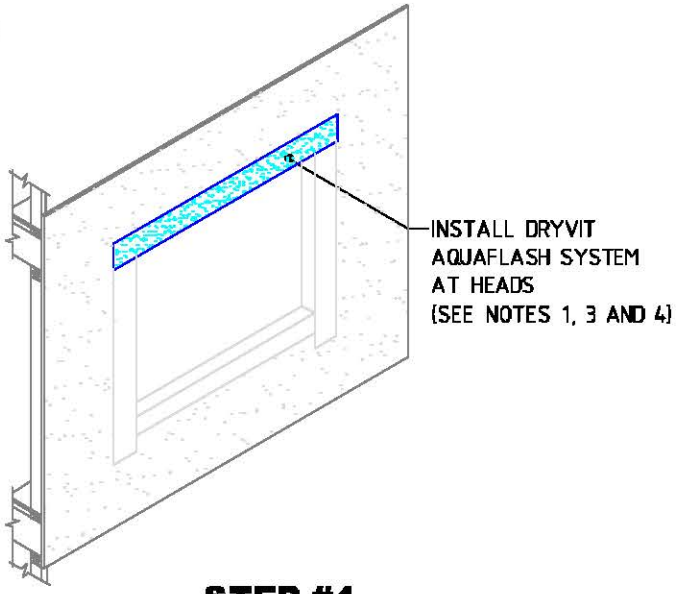
STEP #1



STEP #2



STEP #3



STEP #4

Outsulation® Plus MD System®

Opening Preparation- AquaFlash® System Option

NOTE:

1. DRYVIT AQUAFLASH SHALL EXTEND TO INTERIOR FACE OF OPENING.
2. REFER TO HEAD, SILL AND JAMB DETAILS FOR FLASHING INTEGRATION.
3. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.
4. INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS PER MANUFACTURER'S RECOMMENDATIONS, CODE REQUIREMENTS AND PROJECT DOCUMENTS.

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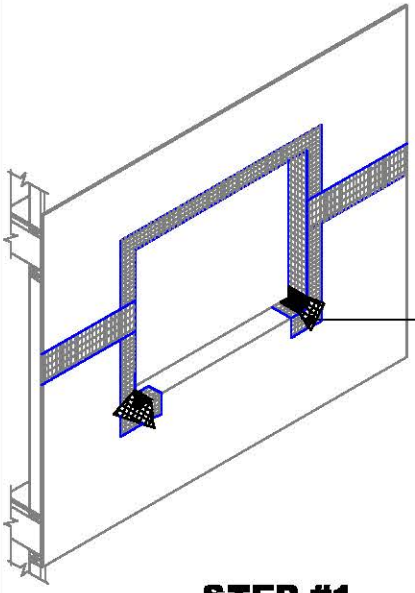
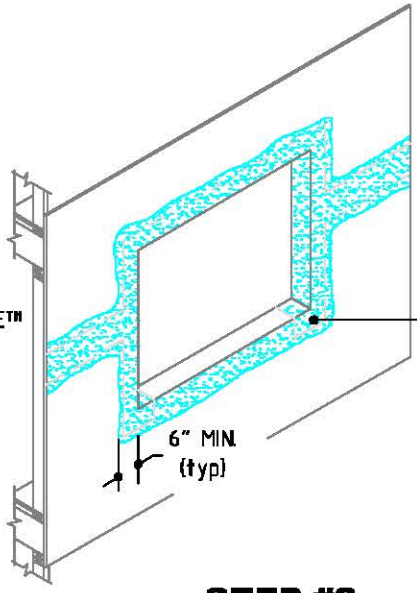
RS	B	03/08



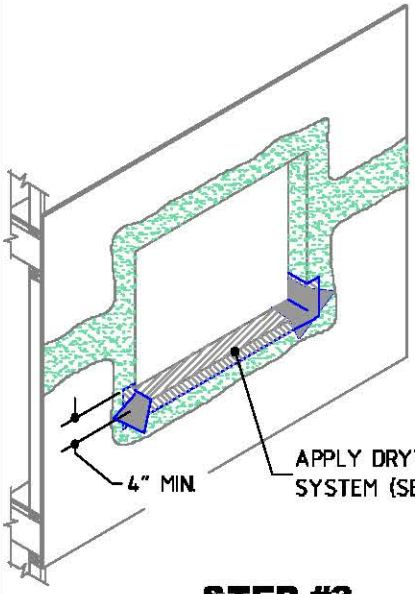
APPLY DRYVIT GRID TAPE™
(SEE NOTES 1 AND 2)

STEP #1



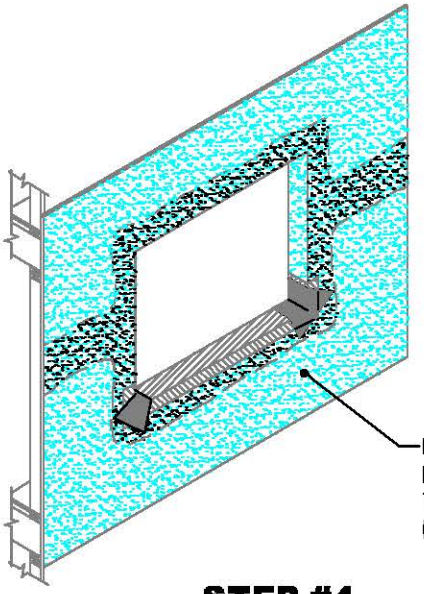
TROWEL APPLY DRYVIT
BACKSTOP NT-TEXTURE
(SEE NOTE 2)

STEP #2



APPLY DRYVIT AQUAFLASH®
SYSTEM (SEE NOTES 2, 3 AND 5)

STEP #3



DRYVIT WATER RESISTIVE
BARRIER COATING APPLIED
TO FACE OF WALL
(SEE NOTE 5)

STEP #4

Outsulation® Plus MD System® Opening Preparation- Backstop® NT Option

NOTE:

1. APPLY DRYVIT GRID TAPE ON CORNERS OF OPENING AND SHEATHING JOINTS.
2. TROWEL APPLY DRYVIT BACKSTOP NT-TEXTURE OVER THE DRYVIT GRID TAPE ALL THE WAY TO INSIDE FACE OF OPENING. ALL VOIDS MUST BE FILLED; MULTIPLE PASSES MAY BE REQUIRED. AS AN OPTION, DRYVIT GRID TAPE AND DRYVIT BACKSTOP NT-TEXTURE MAY ALSO BE APPLIED AT THE SILL PRIOR TO DRYVIT AQUAFLASH SYSTEM OR FLASHING TAPE APPLICATION.
3. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM AT SILL, INCLUDING CORNER SPLICES.
4. INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS PER MANUFACTURER'S RECOMMENDATIONS, CODE REQUIREMENTS AND PROJECT DOCUMENTS.
5. REFER TO HEAD, SILL AND JAMB DETAILS FOR FLASHING INTEGRATION.

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RS	B	03/08

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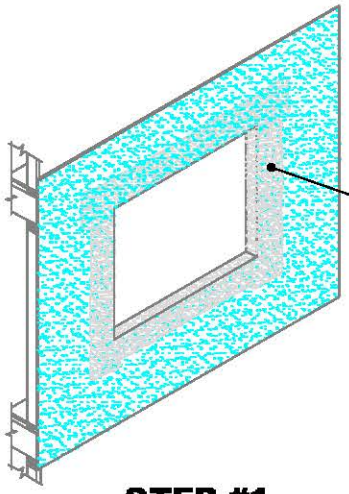
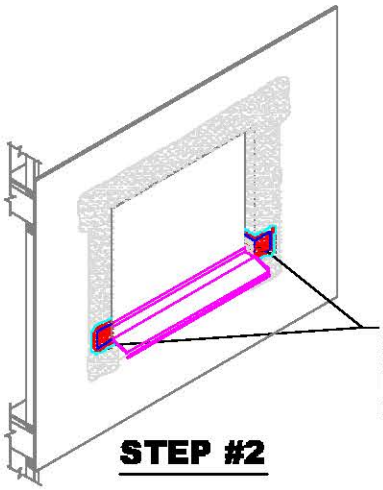


REFER TO OPMD 0.0.05, AND 0.0.06 FOR PREPARATION OF OPENING PRIOR TO FLASHING APPLICATION

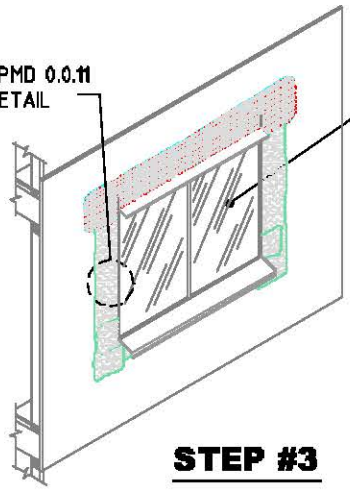
STEP #1



APPLY DRYVIT AQUAFLASH® SYSTEM SPLICES LAPPING OVER LIP OF SILL PAN FLASHING. (SEE NOTES 1 AND 2)

STEP #2

REFER TO OPMD 0.0.11 FOR JAMB DETAIL



INSTALL WINDOW UNIT AND ASSOCIATED FLASHINGS AND APPLY DRYVIT AQUAFLASH SYSTEM OVER VERTICAL LEG OF FLASHING (SEE NOTES 1 AND 2)

STEP #3

Outsulation® Plus MD System®

Opening Flashing Integration

NOTE:

1. REFER TO OPMD 0.0.08, 0.0.09 FOR INTEGRATION OF FLASHING.
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.

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RS	3	03/08

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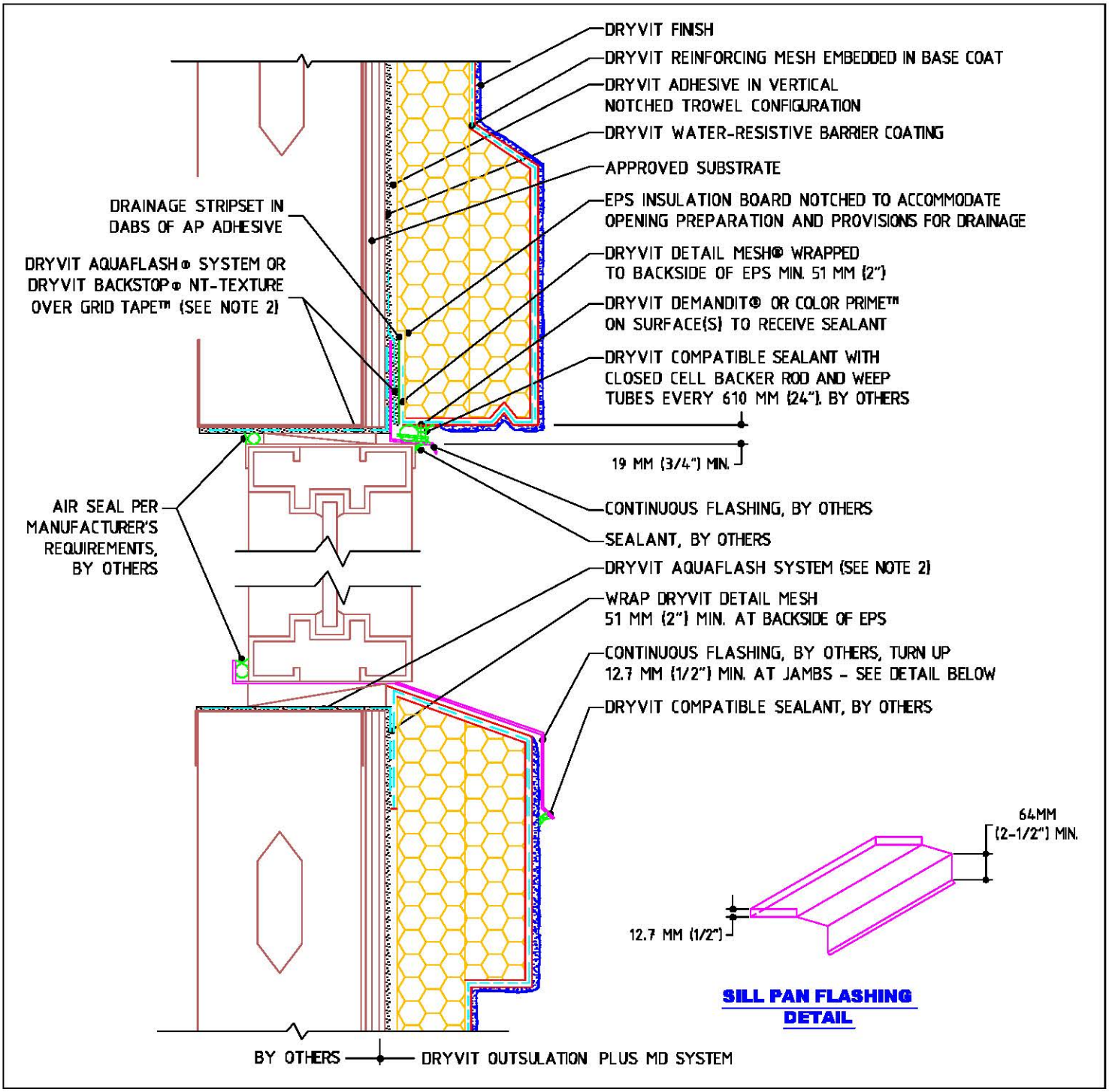


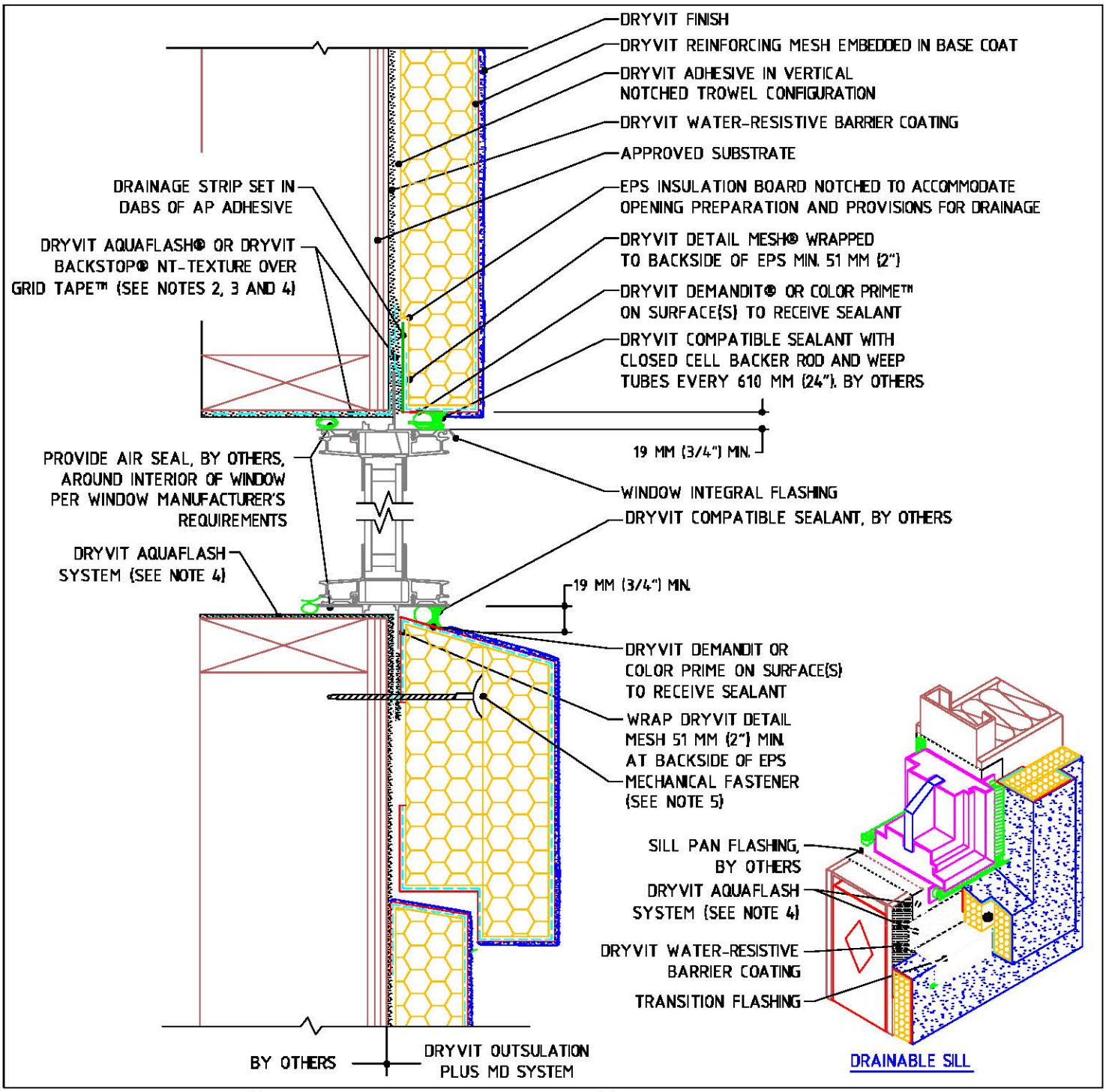
Outsulation® Plus MD System®

Head/Sill- Storefront Window

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.

APPROVED BY:	REV:	DATE:
RS	11	03/08



Outsulation® Plus MD System®

Head/Sill- Self Flashing Window

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. ADDITIONAL HEAD FLASHING MAY BE NECESSARY FOR WINDOWS THAT ARE NOT SELF FLASHING.
3. LIGHTLY SAND SURFACE OF DRYVIT TRACK TO MAXIMIZE ADHESION.
4. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.
5. ADHESIVE ONLY APPLICATION IS ACCEPTABLE WHEN USING THE AQUAFLASH SYSTEM.

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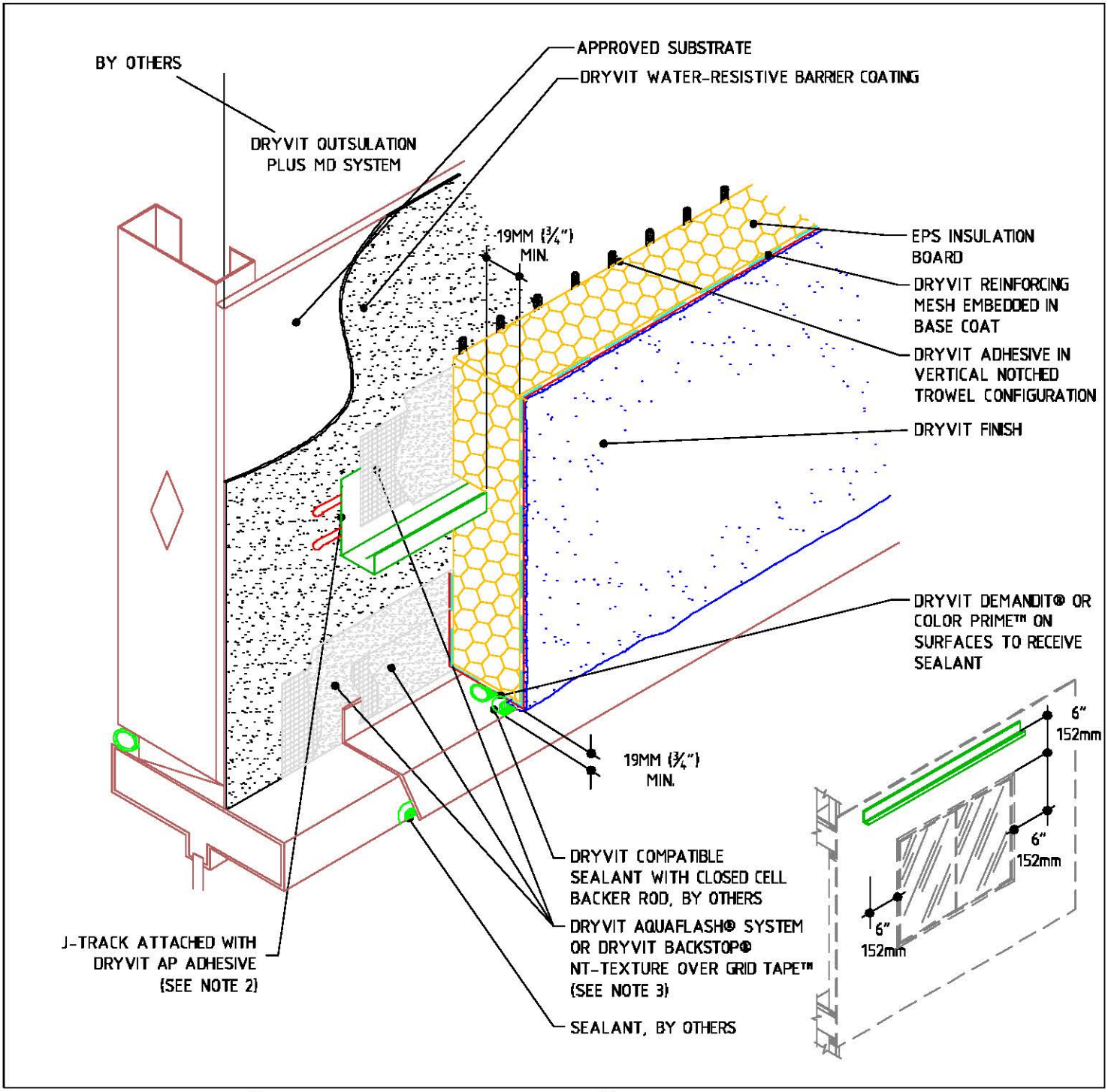


Outsulation® Plus MD System®

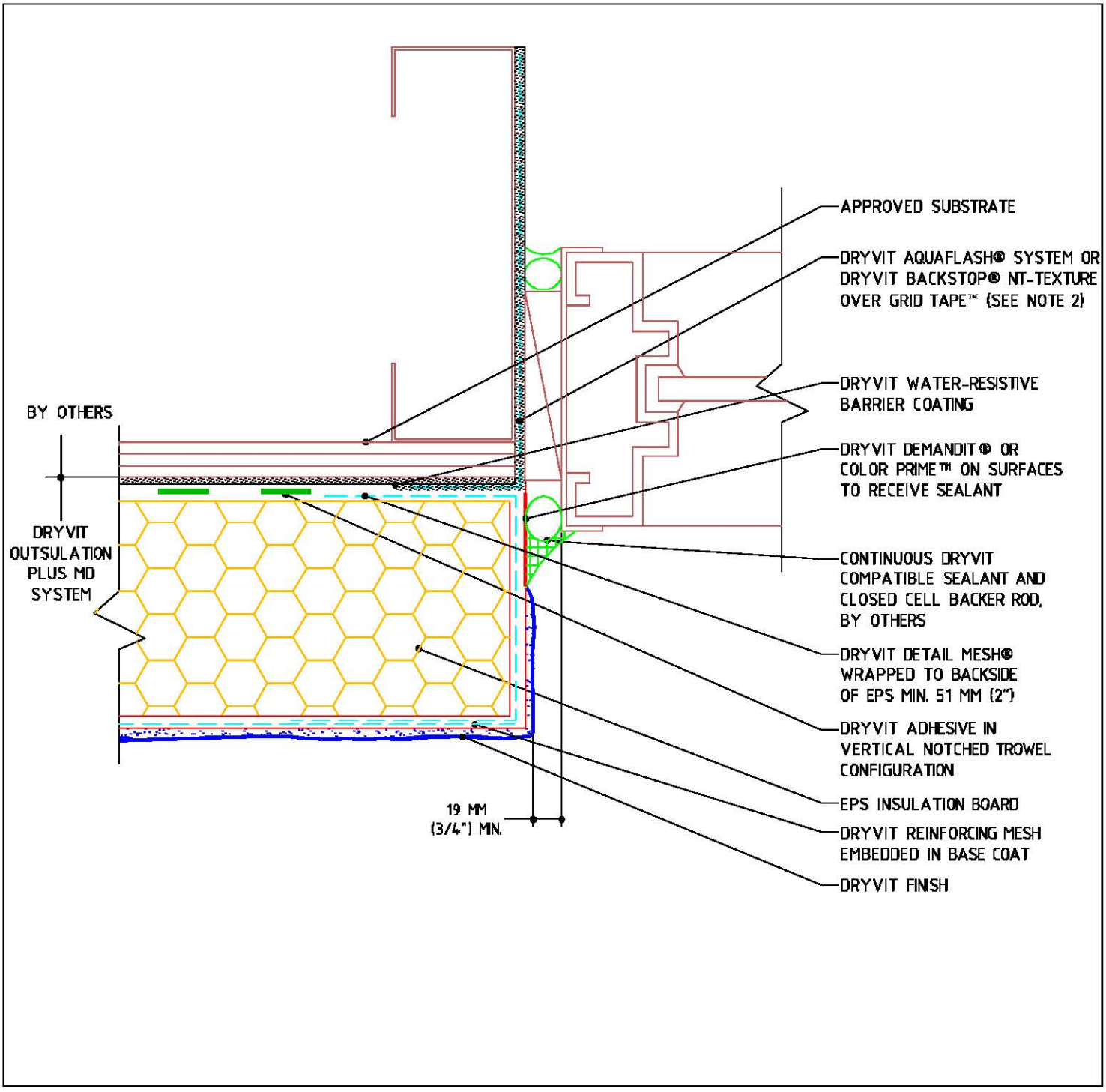
Head J-Track Option

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. LIGHTLY SAND SURFACE OF DRYVIT TRACK TO MAXIMIZE ADHESION.
3. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.

APPROVED BY:	REV:	DATE:
RS	9	03/08

OPMD 0.0.11



Jamb

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.

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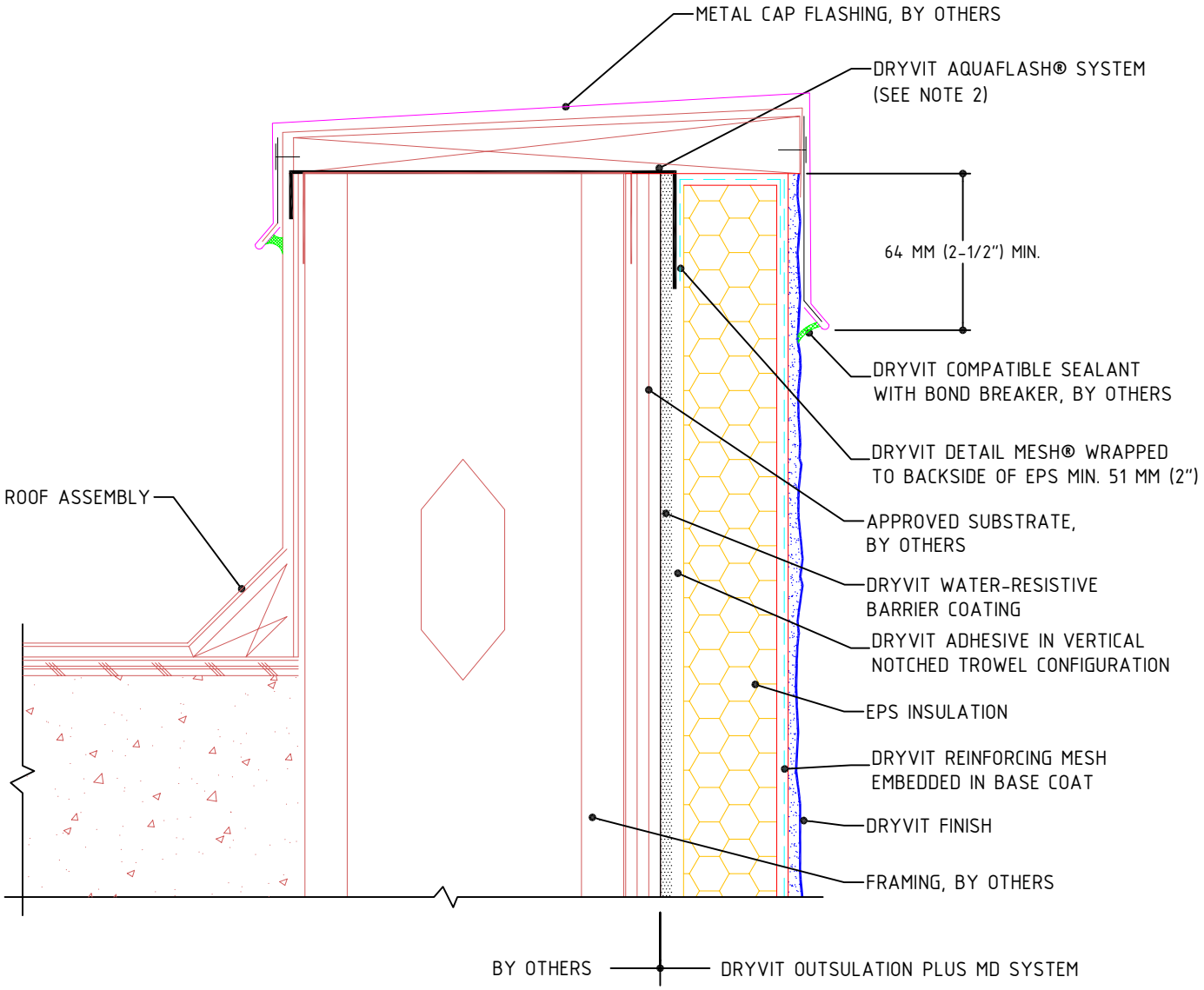

Outsulation® Plus MD System®

Termination At Parapet - Cap Flashing

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.

The architecture, engineering and design of the project using the Dryvit products is the responsibility of the project's design professional. All systems must comply with local building codes and standards. This detail is for general information and guidance only and Dryvit specifically disclaims any liability for the use of this detail and for the architecture, design, engineering or workmanship o any project. The project design professional determines, in its sole discretion, whether this detail or a functionally equivalent alternative is best suited for the project. Use of a functionally equivalent detail does not violate Dryvit's warranty. This detail is subject to change without notice. Contact Dryvit to insure you have the most recent version.

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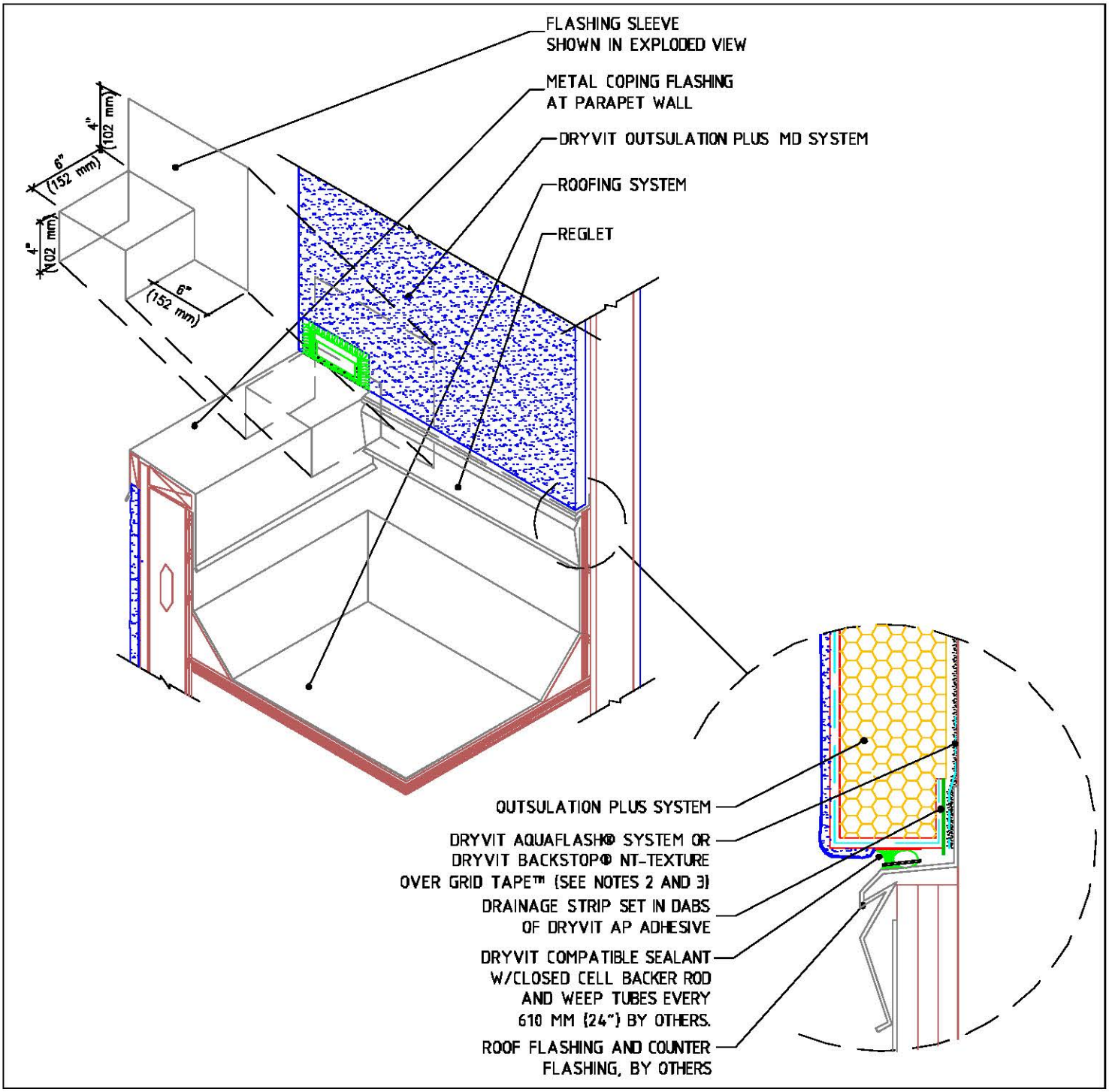
RS	10	02/12



Outsulation® Plus MD System®

Termination At Parapet/Wall Intersection

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. LAP ALL FLASHING AND WATER-RESISTANT BARRIERS IN SHINGLE FASHION.
3. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.

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RS	9	03/08

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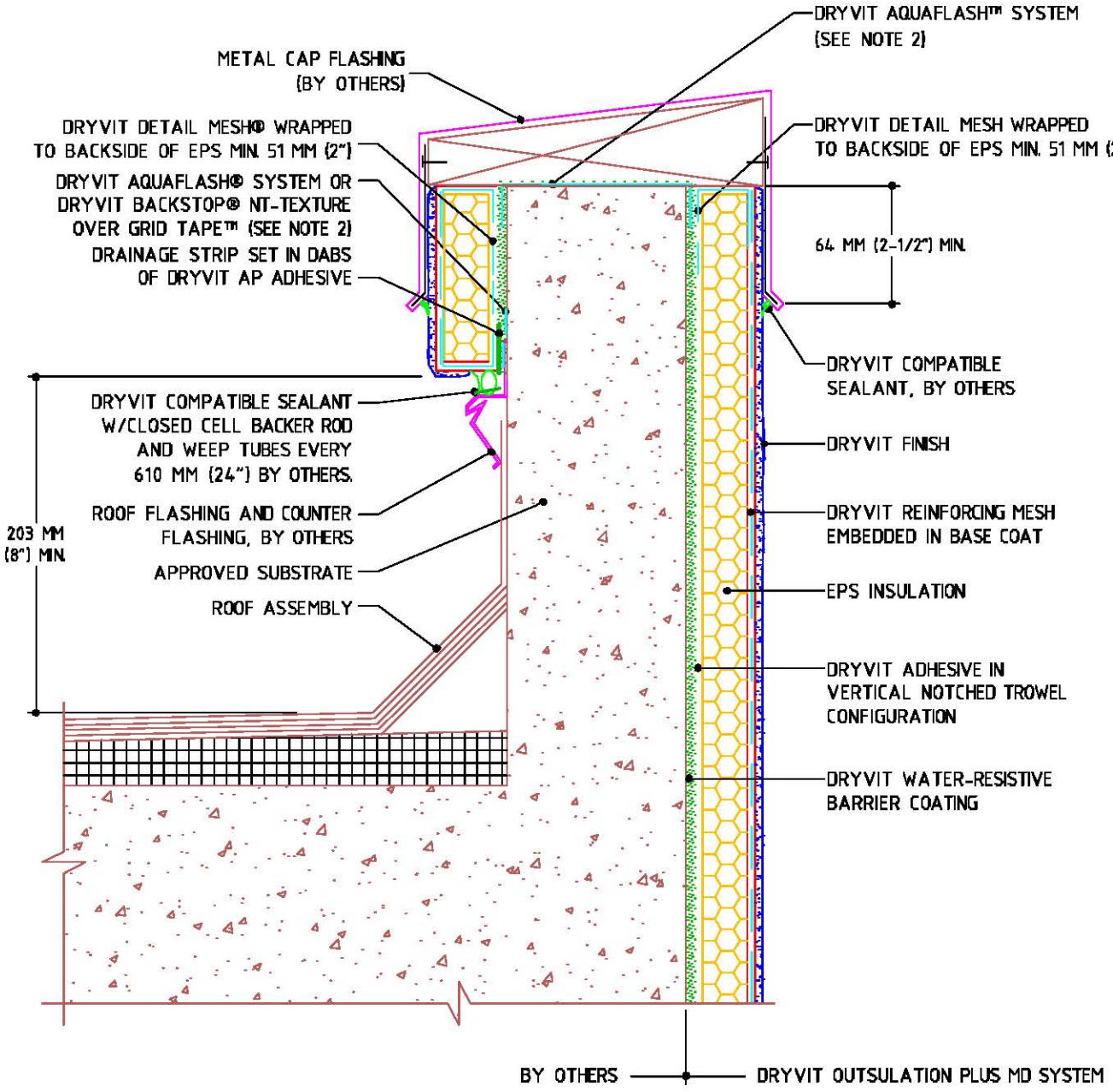

Outsulation® Plus MD System®

Termination At Parapet - Solid Substrate

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.

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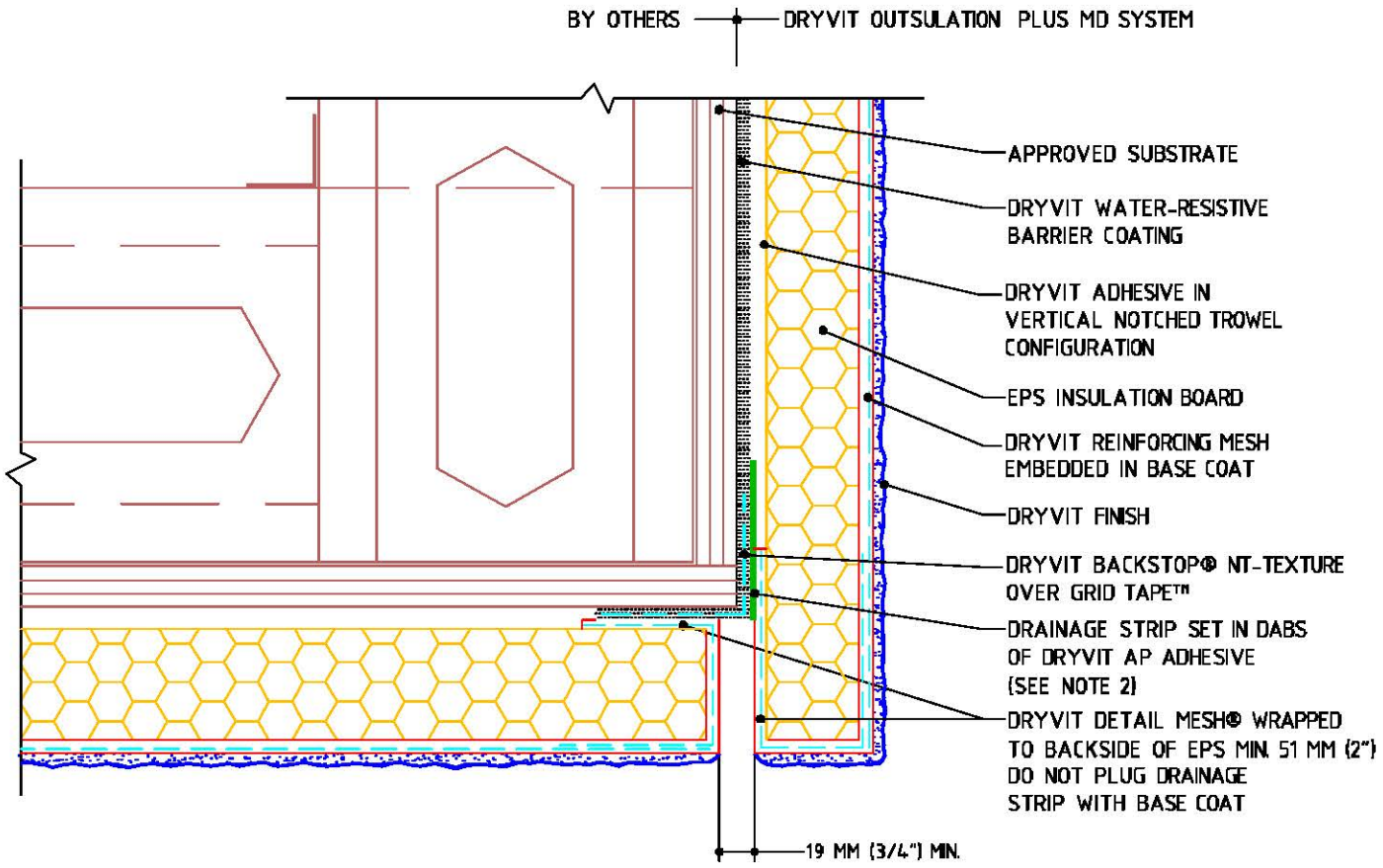
RS	9	03/08



Outsulation® Plus MD System®

Termination At Soffit/Fascia Intersection

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. ENSURE BOTTOM EDGE OF DRAINAGE STRIP IS LEFT FREE TO DRAIN.

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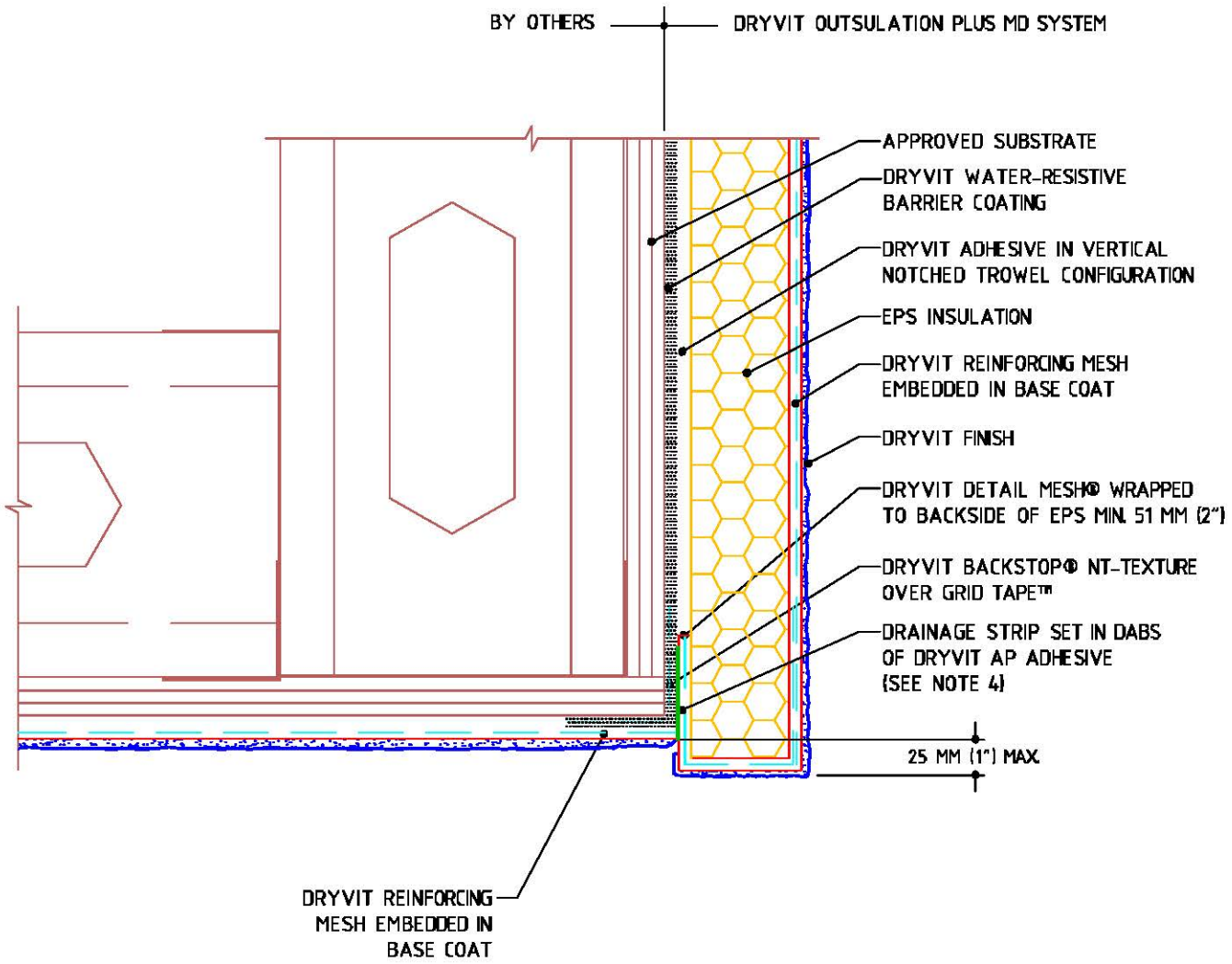

Outsulation® Plus MD System®

Termination At Soffit - Uninsulated

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. SOFFITS WITHOUT EPS INSULATION REQUIRE EXPANSION JOINTS EVERY 6 M (20 FT).
3. REFER TO DRYVIT PUBLICATION DS 173 FOR SPECIFIC REQUIREMENTS FOR SOFFIT AREAS.
4. BOTTOM EDGE OF DRYVIT DRAINAGE STRIP SHALL BE MASKED DURING INSTALLATION TO PREVENT CLOGGING OF DRAINAGE CHANNELS.

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RS	10	03/08

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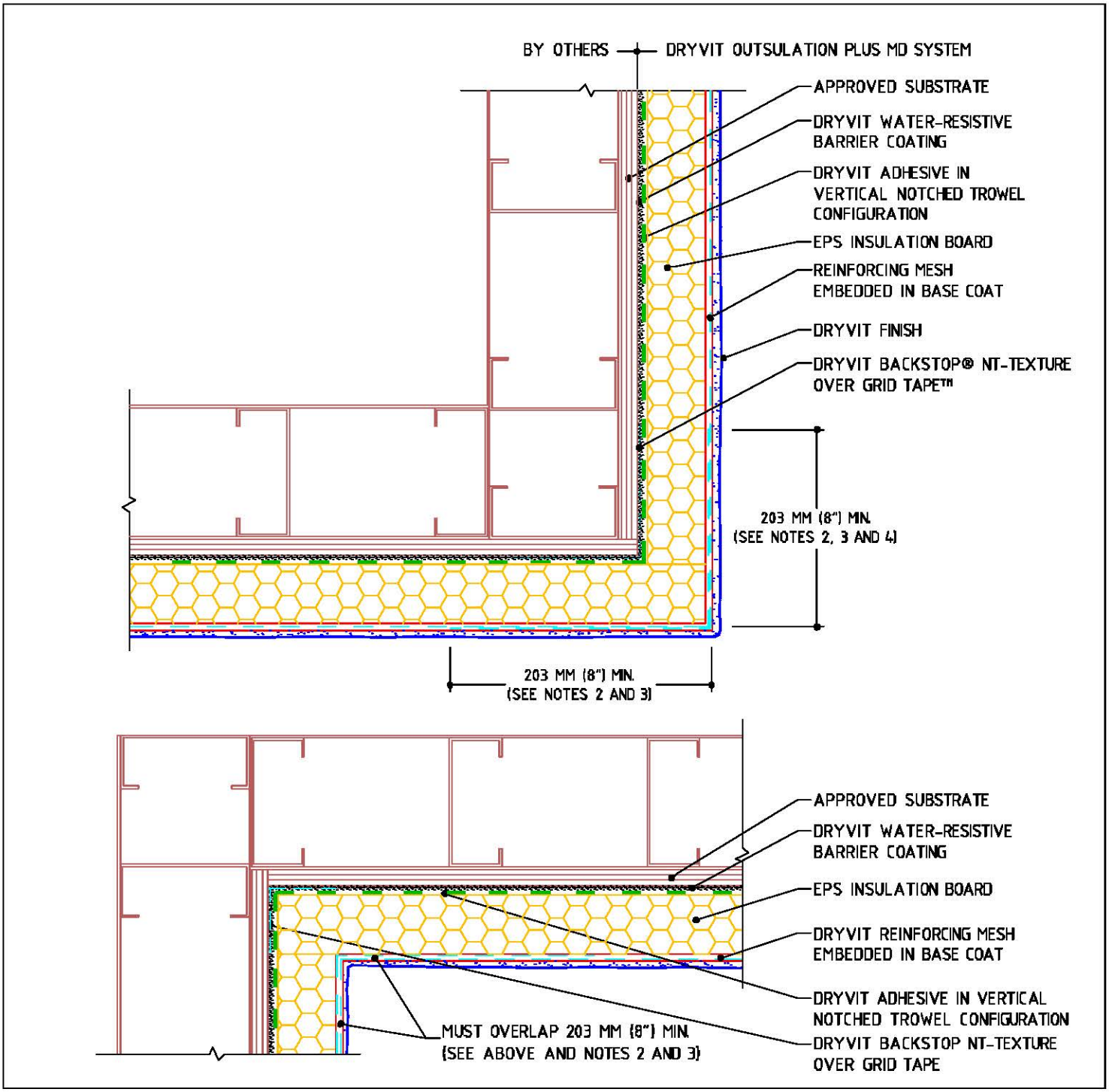


Outsulation® Plus MD System®

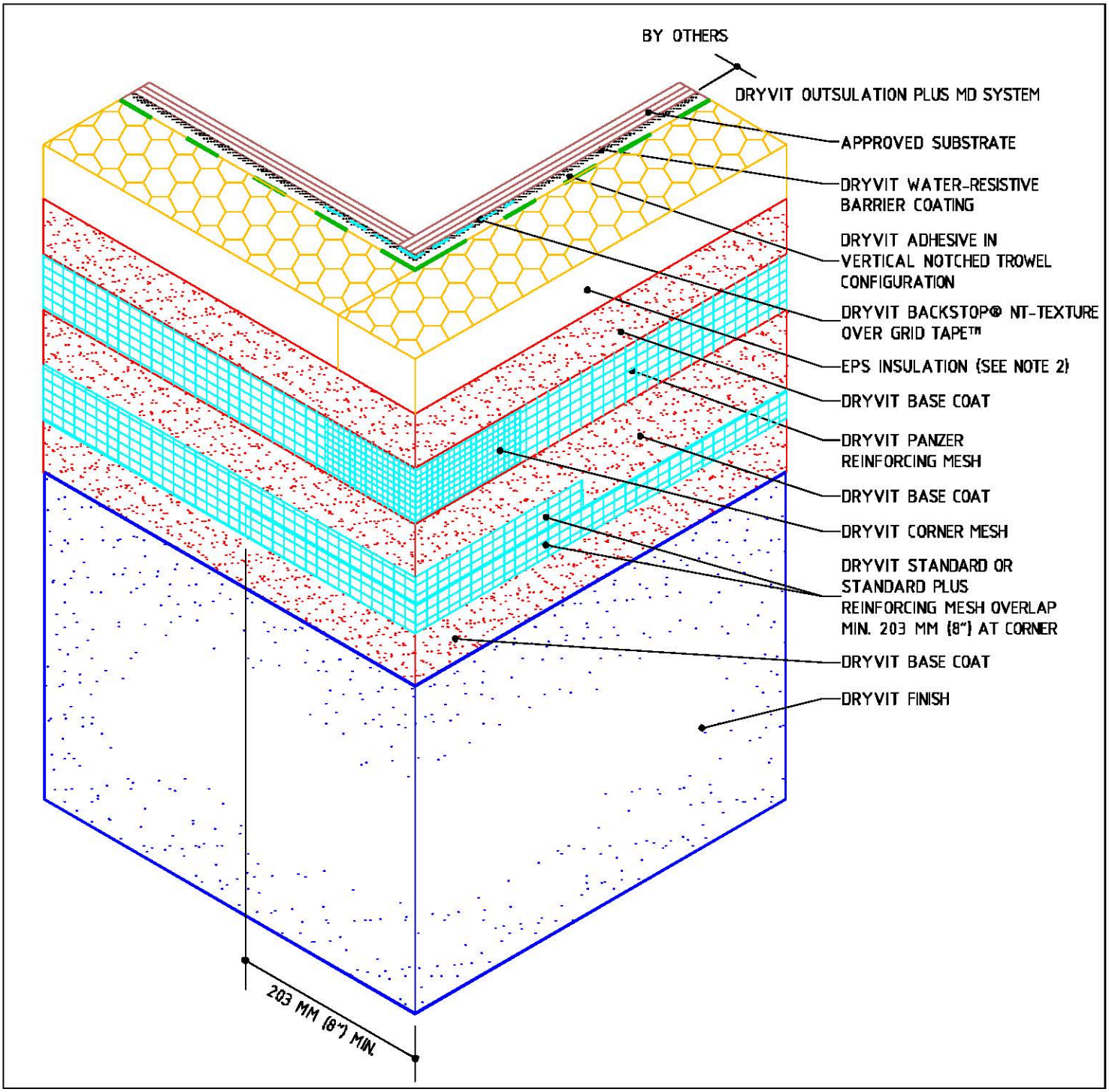
Inside/Outside Corners

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. DOUBLE WRAP OUTSIDE CORNERS WITH REINFORCING MESH OR USE CORNER MESH
3. DO NOT LAP REINFORCING MESH WITHIN 203 MM (8") OF A CORNER
4. OUTSIDE BOARD EDGES SHALL BE OFFSET

APPROVED BY:	REV:	DATE:
RS	9	03/08

OPMD 0.0.18



Outsulation® Plus MD System®

Outside Corner - High Impact

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. OUTSIDE BOARD EDGES SHALL BE OFFSET.

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RS	9	03/08

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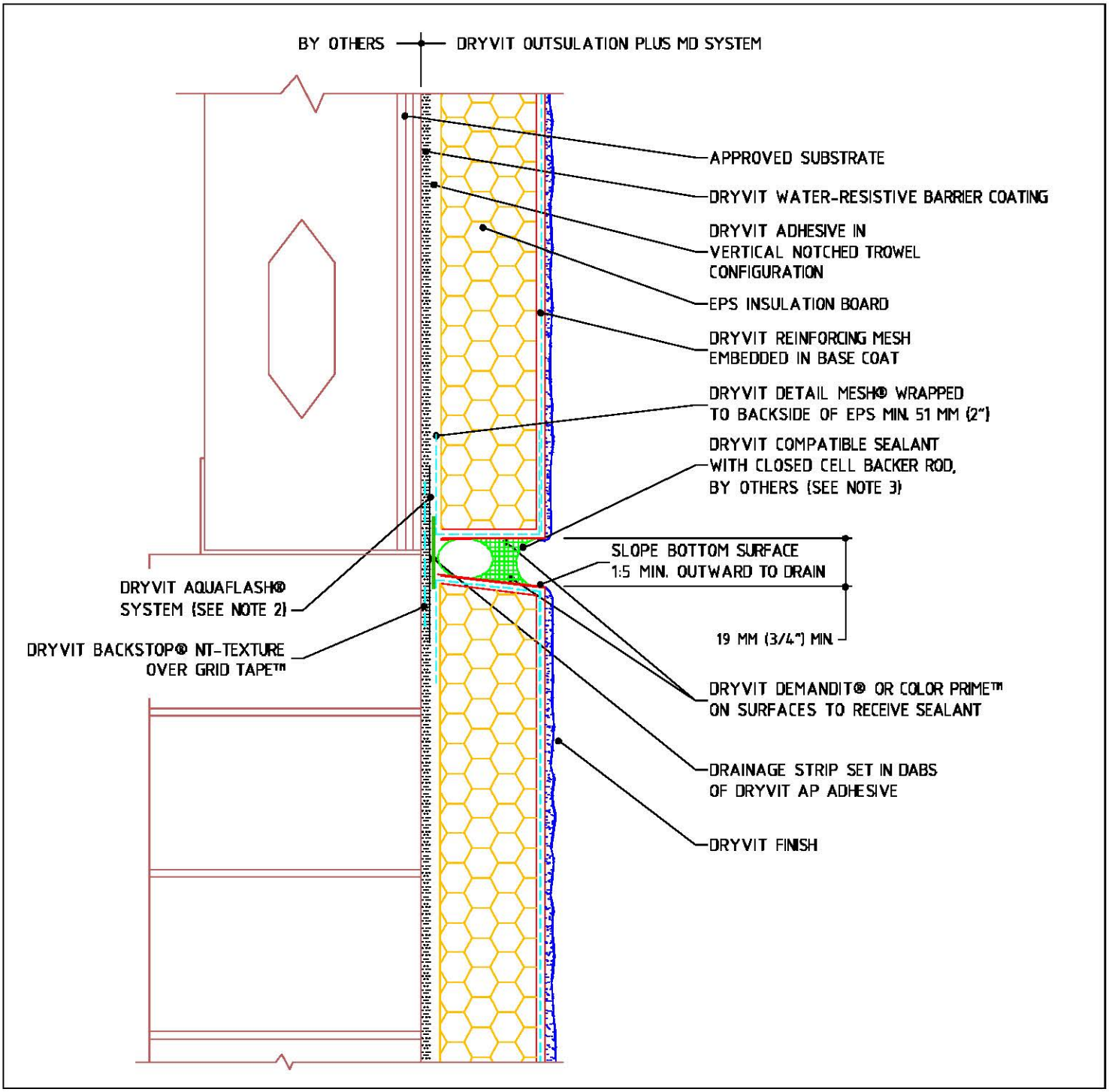


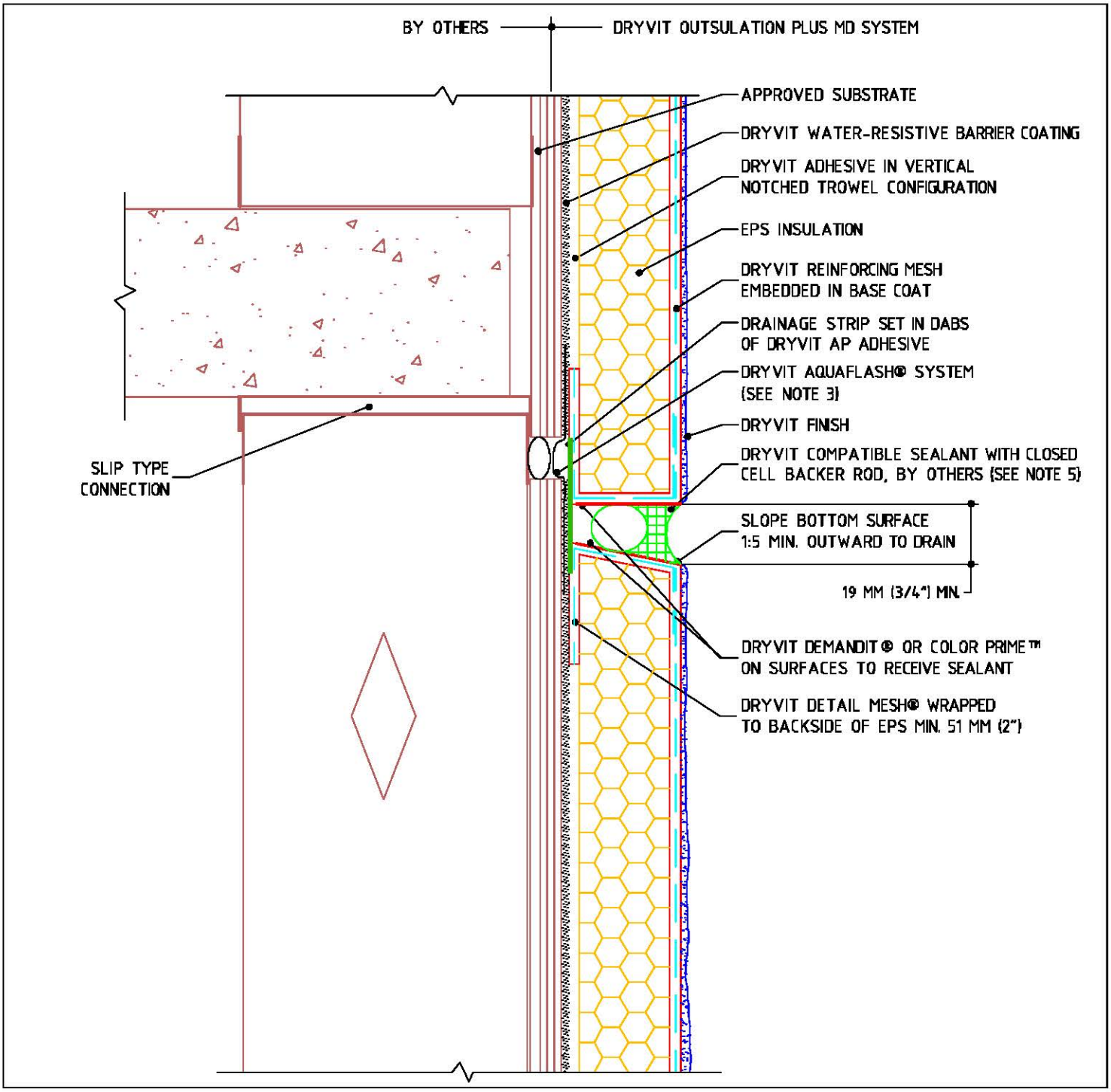
Outsulation® Plus MD System®

Horizontal Joint- Substrate Change

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM OVER PREPARED JOINT AT CHANGE IN SUBSTRATE.
3. SEALANT SHALL NOT BE IN DIRECT CONTACT WITH ASPHALTIC ADHESIVE ON DRYVIT FLASHING TAPE. COVER DRYVIT FLASHING TAPE LAPS WITH POLYETHYLENE TAPE OR BACKER ROD.

APPROVED BY:	REV:	DATE:
RS	11	03/08



Outsulation® Plus MD System®

Horizontal Slip Joint

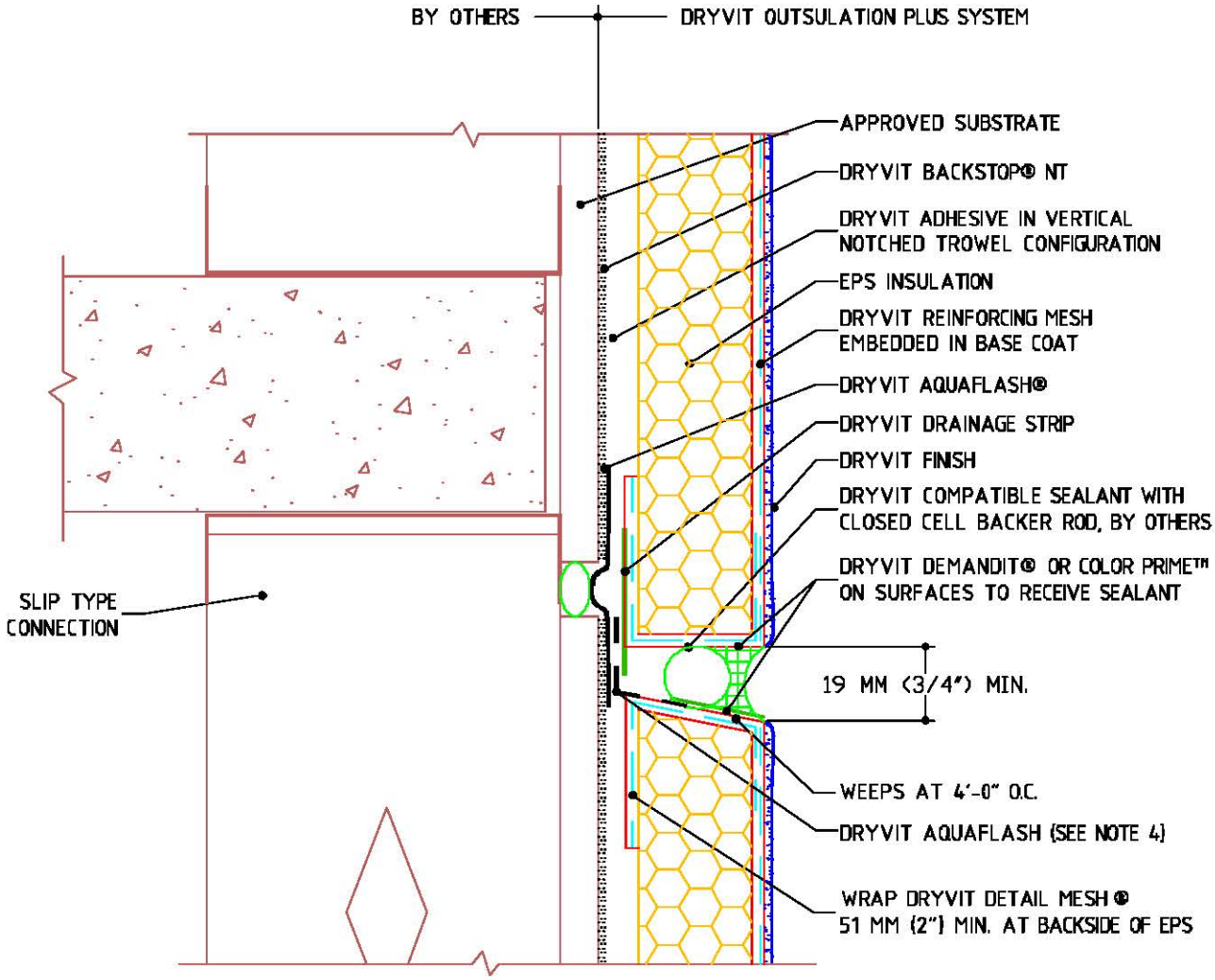
NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. EXPANSION JOINT IN THE OUTSULATION PLUS SYSTEM IS NECESSARY WHERE SIGNIFICANT DIFFERENTIAL MOVEMENT IS EXPECTED AT FLOOR LINES.
3. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM OVER PREPARED JOINT.
4. LOCATE EXTERNAL SEALANT JOINT WITHIN 51 MM (2") OF BREAK IN SHEATHING.
5. SEALANT SHOULD NOT BE IN DIRECT CONTACT WITH ASPHALTIC ADHESIVE ON DRYVIT FLASHING TAPE. COVER DRYVIT FLASHING TAPE LAPS WITH POLYETHYLENE TAPE OR BACKER ROD.

APPROVED BY:	REV:	DATE:
RS	10	03/08

dryvit®

OPMD 0.0.21



Horizontal Slip Joint with Drainage

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. EXPANSION JOINT IN THE OUTSULATION PLUS SYSTEM IS NECESSARY WHERE SIGNIFICANT DIFFERENTIAL MOVEMENT IS EXPECTED AT FLOOR LINES.
3. LOCATE EXTERNAL SEALANT JOINT WITHIN 51 MM (2") OF BREAK IN SHEATHING.
4. STOP AQUAFLASH SHORT OF SEALANT BOND LINE

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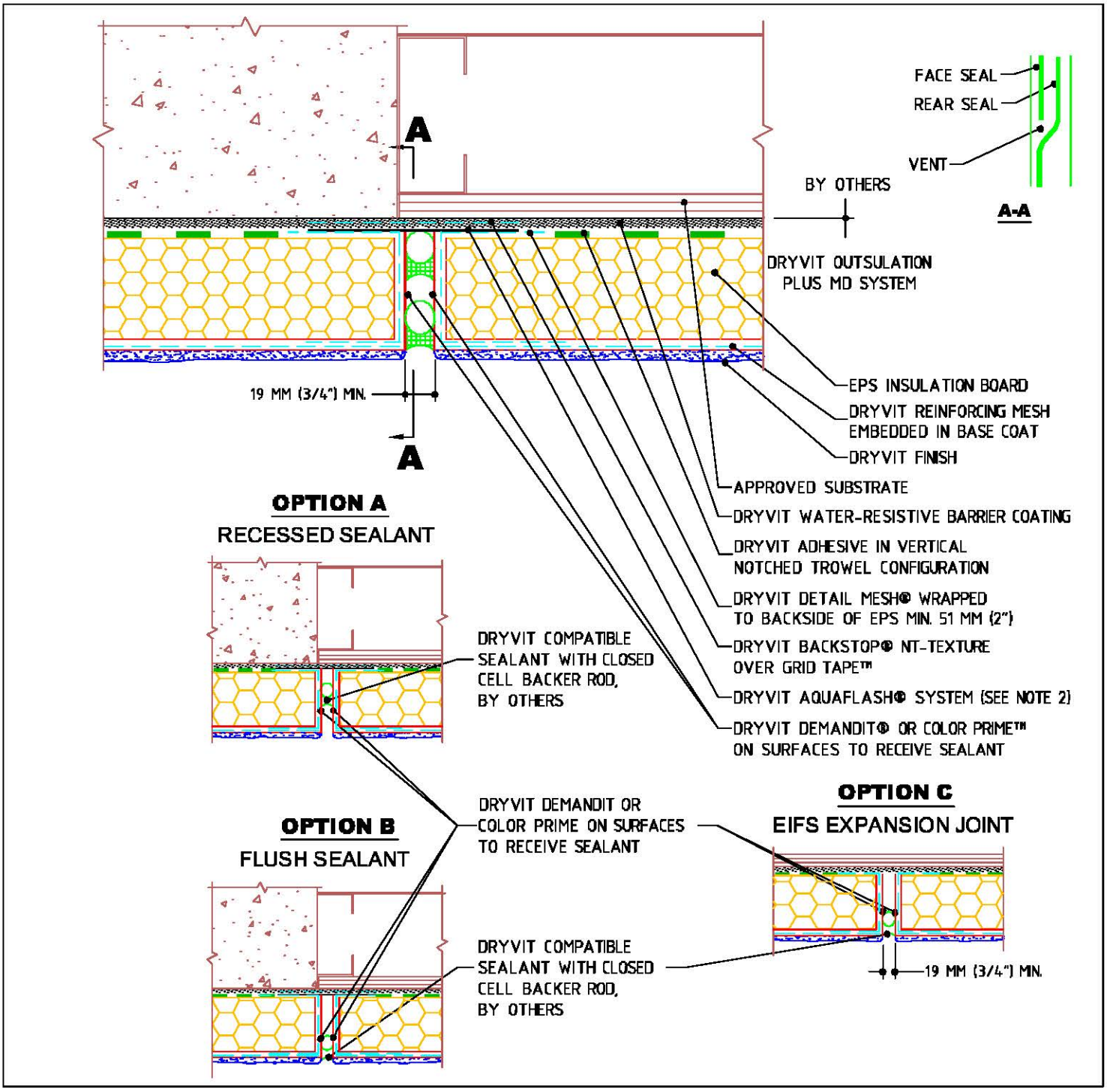
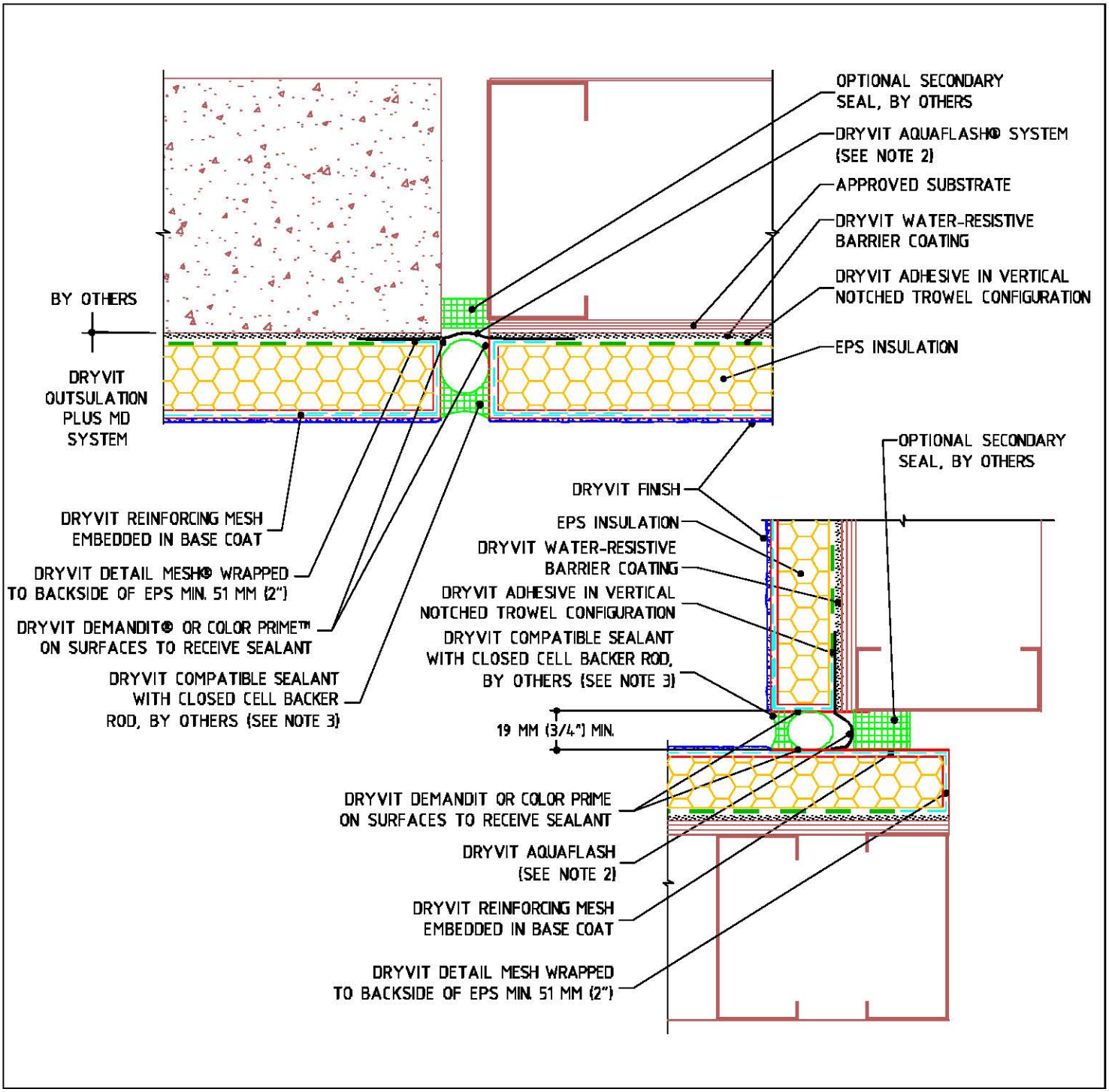


Vertical Expansion Joint Options

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.
3. SEALANT SHALL NOT BE IN DIRECT CONTACT WITH ASPHALTIC ADHESIVE ON DRYVIT FLASHING TAPE. COVER DRYVIT FLASHING TAPE LAPS WITH POLYETHYLENE TAPE OR BACKER ROD.

APPROVED BY:	REV:	DATE:
RS	10	09/08



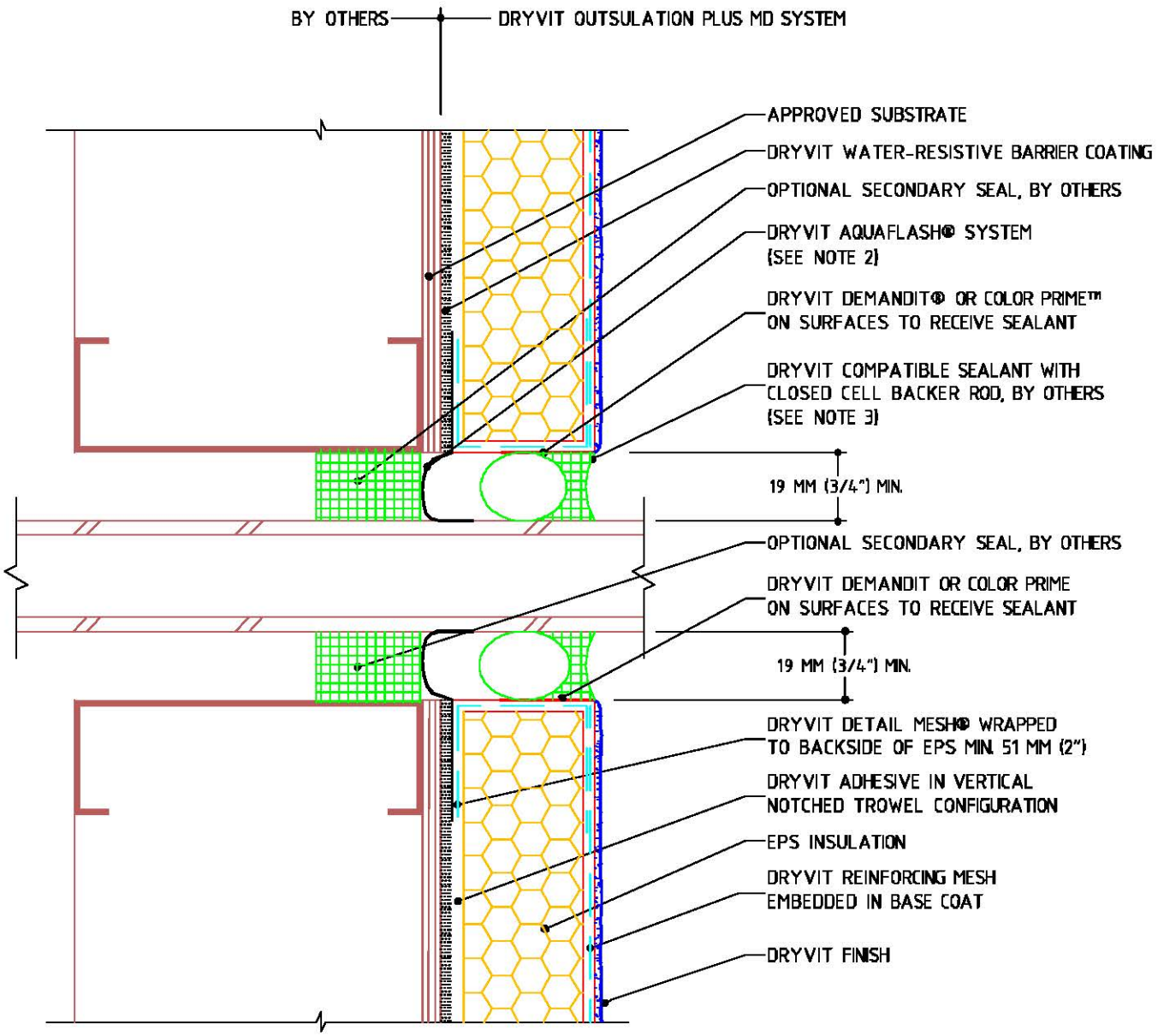
Outsulation® Plus MD System®

Structural Expansion Joints

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.
3. SEALANT SHALL NOT BE IN DIRECT CONTACT WITH ASPHALTIC ADHESIVE ON DRYVIT FLASHING TAPE. COVER DRYVIT FLASHING TAPE LAPS WITH POLYETHYLENE TAPE OR BACKER ROD.

APPROVED BY:	REV:	DATE:
RS	11	09/08



Outsulation® Plus MD System®

Penetrations

NOTE:

1. DRYVIT RECOMMENDS THAT GROUND FLOOR APPLICATIONS AND ALL FACADES EXPOSED TO ABNORMAL STRESS, HIGH TRAFFIC, OR DELIBERATE IMPACT HAVE THE BASE COAT REINFORCED WITH PANZER® MESH PRIOR TO STANDARD™ OR STANDARD PLUS™ MESH. LOCATION OF HIGH IMPACT ZONES SHOULD BE INDICATED ON CONTRACT DRAWINGS.
2. DRYVIT FLASHING TAPE SURFACE CONDITIONER™ AND DRYVIT FLASHING TAPE™ MAY BE USED LIEU OF DRYVIT AQUAFLASH SYSTEM.
3. SEALANT SHALL NOT BE IN DIRECT CONTACT WITH ASPHALTIC ADHESIVE ON DRYVIT FLASHING TAPE. COVER DRYVIT FLASHING TAPE LAPS WITH POLYETHYLENE TAPE OR BACKER ROD.

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RS	11	09/08