



UL Solutions Evaluation Report

ULC ER41037-02

Issued: 2025-01-29

Visit the UL Solutions **Product iQ® database** for current status of report.

UL Solutions category code: ULEY7 – Weather Barriers for Canada

CSI MasterFormat®

Division: 07 25 00 Weather Barriers
Sub Level : 07 27 19 Air Barriers
Sub Level: 07 27 36 Spray Foam Air Barrier

Company:

BASF Canada Inc.
10 Constellation Court
Toronto, Ontario
Canada M9W 1K1
www.basf.com

1. Subject:

BASF Walltite v.5 Air Barrier System CMU and Walltite v.5 Air Barrier System Steel Studs Series



2. Scope of evaluation

To demonstrate compliance with the following codes:

2015 National Building Code of Canada, NBCC (June 30, 2017)

2020 National Building Code of Canada, NBCC (July 15, 2019)

Clause 1.2.1.1.(1)(a) Compliance with this Code (Acceptable Solution from Division B)

Part 5 – Environmental Separation

Article 5.4.1.2 Air Barrier Assemblies

Part 9 – Housing and Small Buildings

Subsection 9.25.3 Air Barrier Systems

Sentence 9.36.2.9.1.(b) Air Tightness

Article 9.36.2.10.1 Construction of Air Barrier Materials

The product underwent evaluation for the following properties:

- Air barrier material
- Air barrier system
- SPUF substrate adhesion

3. Referenced documents

ASTM D1623 Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics

CAN/ULC-S741 Standard for Air Barrier Materials - Specification

CAN/ULC-S742 Standard for Air Barrier Assemblies - Specification

4. Uses

The **BASF Walltite v.5 Air Barrier System CMU** and **Steel Studs Series** are intended for use as air barrier systems in building envelope assemblies in both site-built construction and building prefabrication process.

This Report does not cover the BASF Walltite v.5 Air Barrier system CMU or Steel Studs assemblies for structural / seismic applications, fire rated wall assemblies (CAN/ULC-S134), areas of high humidity levels (pools, saunas, museums etc.), below grade applications, or water-resistant barrier performance. Additional evaluations and testing other than noted in this Report are typically required to meet these and other applications.

5. Product description

The **BASF Walltite v.5 Air Barrier System CMU** series consist of the BASF WALLTITE v.5 SPUF applied to the exterior surface of concrete masonry block wall construction. An exterior cladding system covers the SPUF. See typical construction details available from the BASF website; [BASF WALLTITE Air Barrier Systems – Concrete Block](#).

The **BASF Walltite v.5 Air Barrier System Steel Studs** Series consist of the BASF WALLTITE v.5 SPUF applied to the exterior surface of exterior gypsum board secured to metal stud walls. An exterior cladding system covers the SPUF. See typical construction details available from the BASF website; [WALLTITE Air Barrier Systems – Steel Stud](#).

The WALLTITE® v.5 spray-applied polyurethane foam serves as the primary resistance to airflow when installed at a minimum thickness of 25 mm, with a secondary role of thermal insulation. The WALLTITE® v.5 SPUF foam system consists of two components, isocyanate and resin. The two components are mixed on site by qualified installers with a fixed-ratio positive displacement equipment. The WALLTITE® v.5 material is applied at a design density of 32.5 kg/m³ (2.03 pcf). The SPUF is installed by CAN/ULC-S705.2 accredited installers. The BASF WALLTITE v.5 installed colour is purple.

The BASF Walltite v.5 Air Barrier System CMU and Steel Studs wall series were evaluated for the performance characteristics in accordance with CAN/ULC-S742 Standard for Air Barrier Assemblies – Specification. Wall sections with and without penetrations (window, pipe and electrical penetrations, various substrates, accessories, etc.) were subjected to sustained, cyclic, and gust wind loading (design hourly wind pressure $Q_{1/50} \leq 1000$ Pa for building height maximum of 20m) with post conditioning assembly air leakage evaluation at both +20°C and -20°C.

Table 1 – Air leakage rate of wall assemblies

Wall series	Air leakage requirement classification (CAN/ULC-S742)	Air leakage rate after wind loading at 75 Pa	Air leakage rate after wind loading at -20°C @ 75 Pa
BASF Walltite v.5 Air Barrier - CMU Series	$A1 \leq 0.05 \text{ L/(s}\cdot\text{m}^2)$	0.042 L/(s·m ²)	0.044 L/(s·m ²)
BASF Walltite v.5 Air Barrier - Steel Stud Series		0.038 L/(s·m ²)	0.042 L/(s·m ²)

The BASF WALLTITE® v.5 material was evaluated for the performance characteristics in accordance with CAN/ULC-S741 Standard for Air Barrier Materials – Specification. Test specimens maintained an air leakage performance of less than 0.02 L/(s·m²) @ 75 Pa after both UV and heat exposure for non-accessible air barrier materials.

The BASF WALLTITE® v.5 material was evaluated for the performance characteristics in accordance with CAN/ULC-S705.1 Standard for Thermal Insulation, Spray Applied Rigid Polyurethane Foam, Medium Density – Material Specification. See ULC Evaluation Report [ULC-R41037](#) available on [UL Product iQ](#) for technical details.

5.1 Adhesion performance

Ancillary transition membranes are utilized to maintain the continuity of the air barrier plane at penetrations, change of substrate, expansion joints, etc. The adhesion performance of potential auxiliary membrane substrates was evaluated in accordance with ASTM D1623.

Table 2 – Membrane adhesion performance

Substrate	BASF WALLTITE® v.5 applied over	CAN.ULC-S705.2 requirement (≥ 2.6 kPa)
Plywood	Acrylic-based membrane ^{*1}	Compliant
	Modified Bitumen Membrane ^{*1}	Compliant

Note ^{*1}: Contact BASF for specific materials evaluated and adhesion performance

6. Installation

Installation of the insulation must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions are to be always available at the jobsite during installation.

- Exterior wall construction to be completed by experienced trades personnel in accordance with regional code requirements.
- WALLTITE® v.5 installation must be by a licensed installer in accordance with the manufacturer's directions and follow CAN/ULC-S705.2 requirements.
- The time to re-occupancy during retrofit construction is a minimum 25 hours.
- See construction details for each series, [BASF WALLTITE Air Barrier Systems – Concrete Block](#) and [WALLTITE Air Barrier Systems – Steel Stud](#), available on the BASF website.
- See BASF WALLTITE® v.5 Application Guidelines, available at <https://walltite.basf.ca/home/downloads>
- Manufactures installation instructions not to contravene the NBCC or provincial codes.

7. Condition of use

The BASF Canada Inc. materials described in this Report has been evaluated in accordance with code sections listed in Section 2.0, subject to the following conditions:

- Materials and methods of installation must comply with this report and the manufacturer's published installation instructions. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.
- This product is manufactured in Blackie AB, and Toronto ON., manufacturing facilities are under UL Solution audit of quality elements.
- This product is combustible as defined by Code. Based on the flame spread characteristics this product may require additional protection from fire, consult the Authority Having Jurisdiction.
- The WALLTITE® v.5 elements remain under a UL quality audit program where UL/ULC Field Engineering staff audit material manufacturing facilities.

8. Supporting evidence

BASF has submitted technical documentation for UL Solutions review. Testing was conducted at ISO/IEC 17025 accredited laboratories. The test data submitted for these systems are summarized below:

- Sample Selection of test materials at the BASF Toronto manufacturing facility by an ISO/IEC 17025 accredited testing laboratory.
- Data in accordance with CAN/ULC-S742 test reports
- Data in accordance with CAN/ULC-S741 test report
- Data in accordance with ASTM D1623 test report

9. Identification

The **BASF WALLTITE® v.5** thermal insulation described in this evaluation report is identified by a marking bearing the report holder's name (BASF Canada Inc.), the plant identification and the evaluation report number **ULC ER41037-02**. The validity of the evaluation report is contingent upon this identification appearing on the product drums.

10. Client location/contact

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10 Constellation Court
Toronto, Ontario
M9W 1K1

BASF Canada Inc.
500 Railway Ave.
Blackie, Alberta
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www.basf.com

11. Use of UL Solutions Evaluation Report

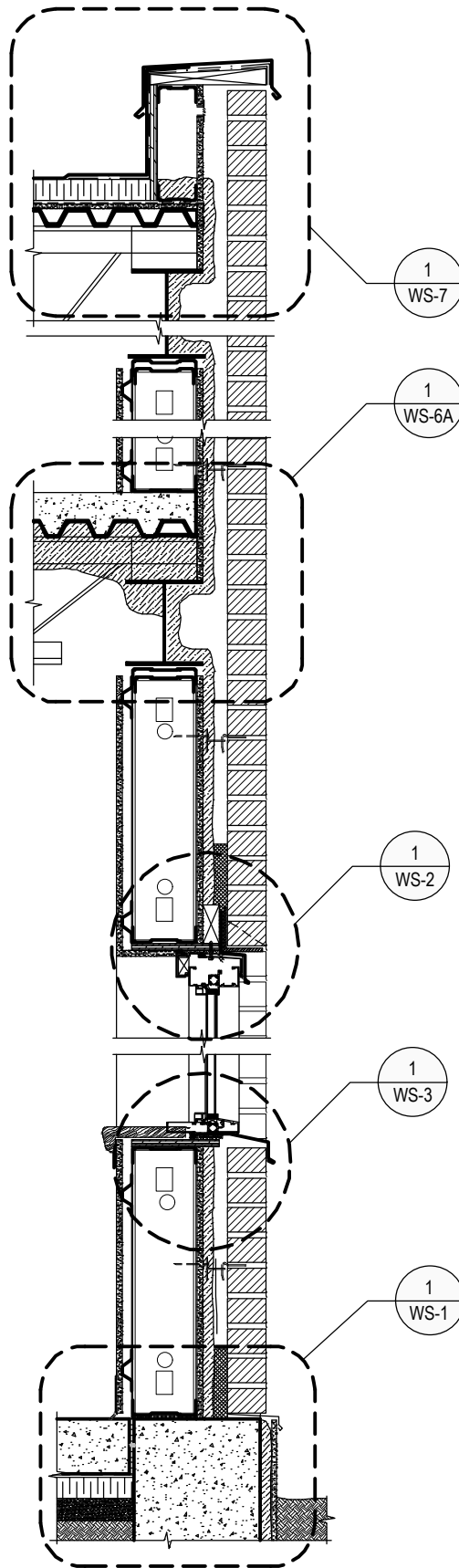
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- 11.3** The current status of this report, as well as a complete directory of ULC Evaluation Reports may be found at UL.com via our Product iQ® database.

UL Solutions Evaluation Reports

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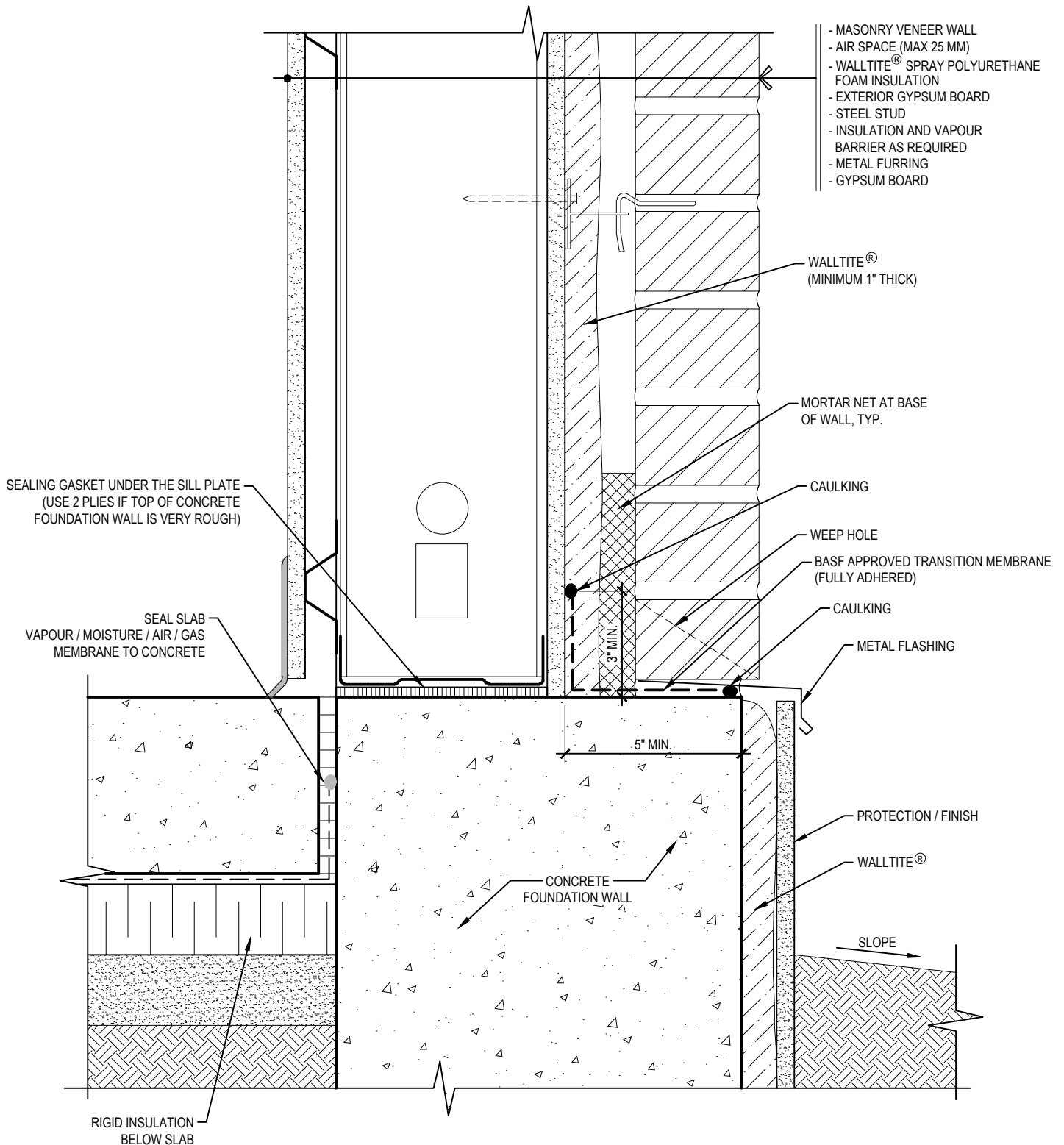
1
WS-0

WALL SECTION

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number: WS-0	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: APRIL 3, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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1
WS-1

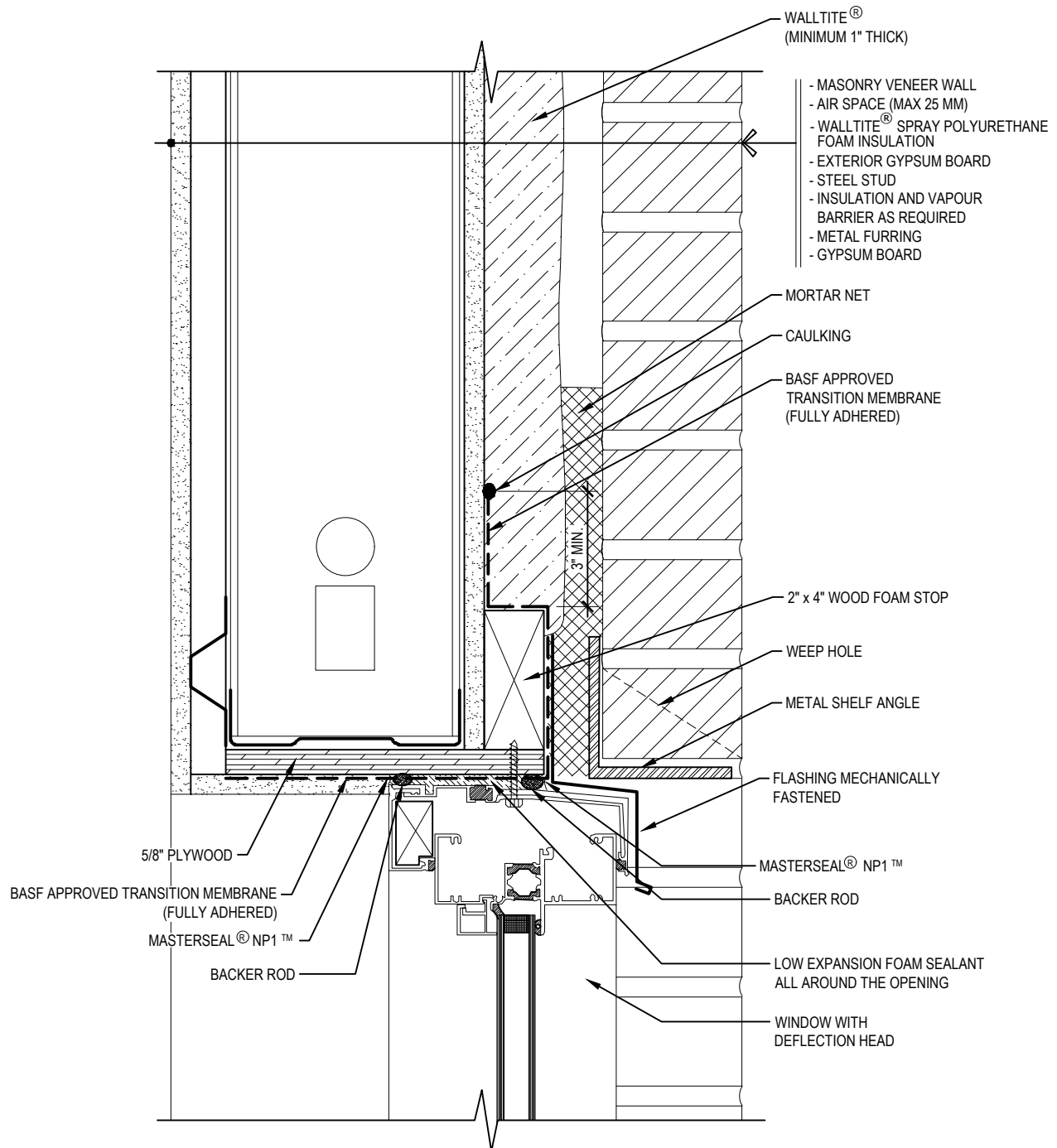
FOUNDATION TERMINATION

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number:	Scale:	Project no:	Date:	Designed by:	Drawn by:	Checked by:
WS-1	3/4" = 1'-0"	M18 704	APRIL 3, 2019	C.J. & A.M.	C.C	F.D.

WINDOW INSTALLED AS PER CSA A440



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WS-2A

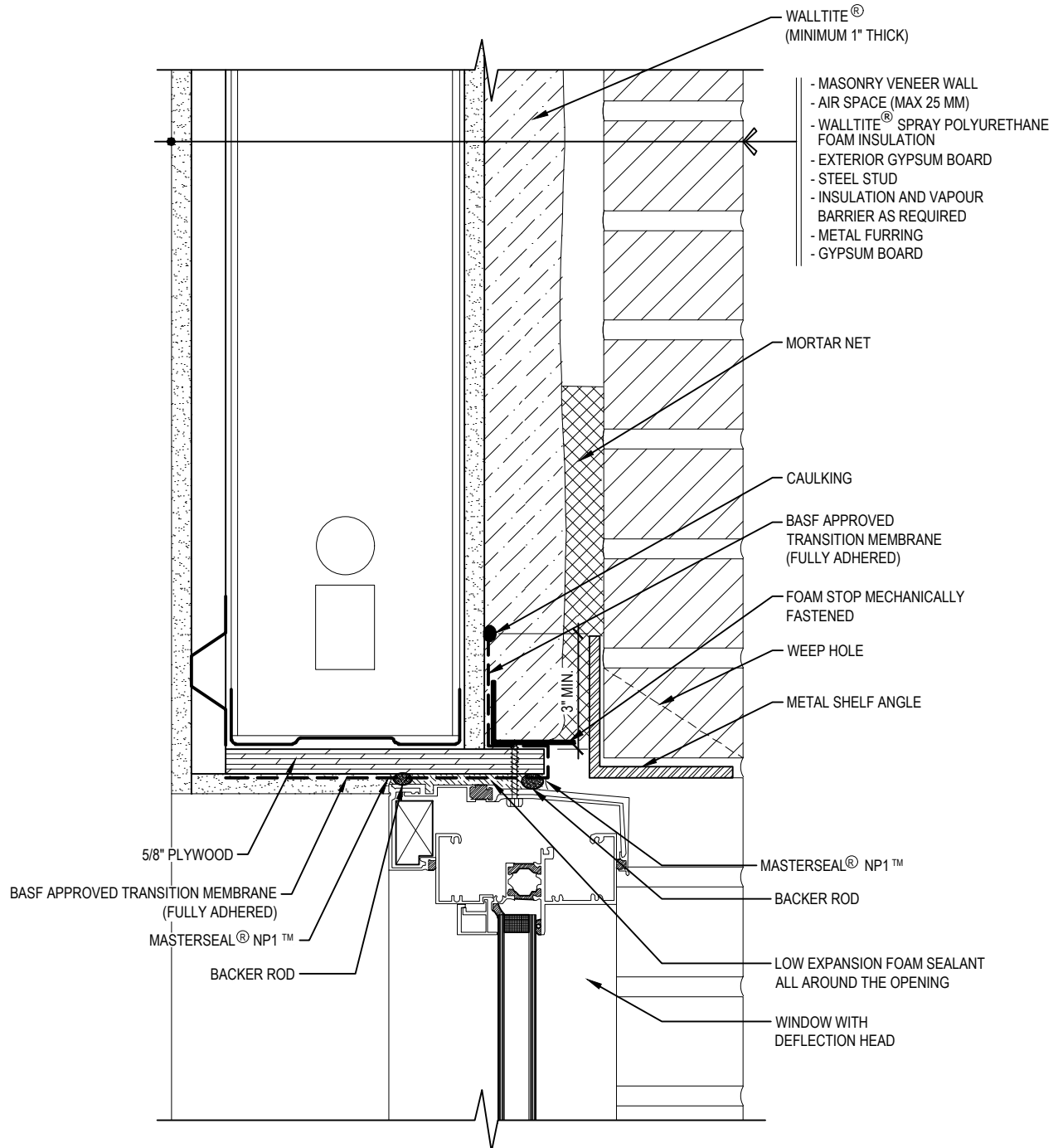
WINDOW HEAD DETAIL WOOD FOAM STOP

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number:	WS-2A	Scale:	3/4" = 1'-0"	Project no:	M18 704	Date:	OCTOBER 24, 2019	Designed by:	C.J. & A.M.	Drawn by:	C.C	Checked by:	F.D.
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WINDOW INSTALLED AS PER CSA A440



1
WS-2B

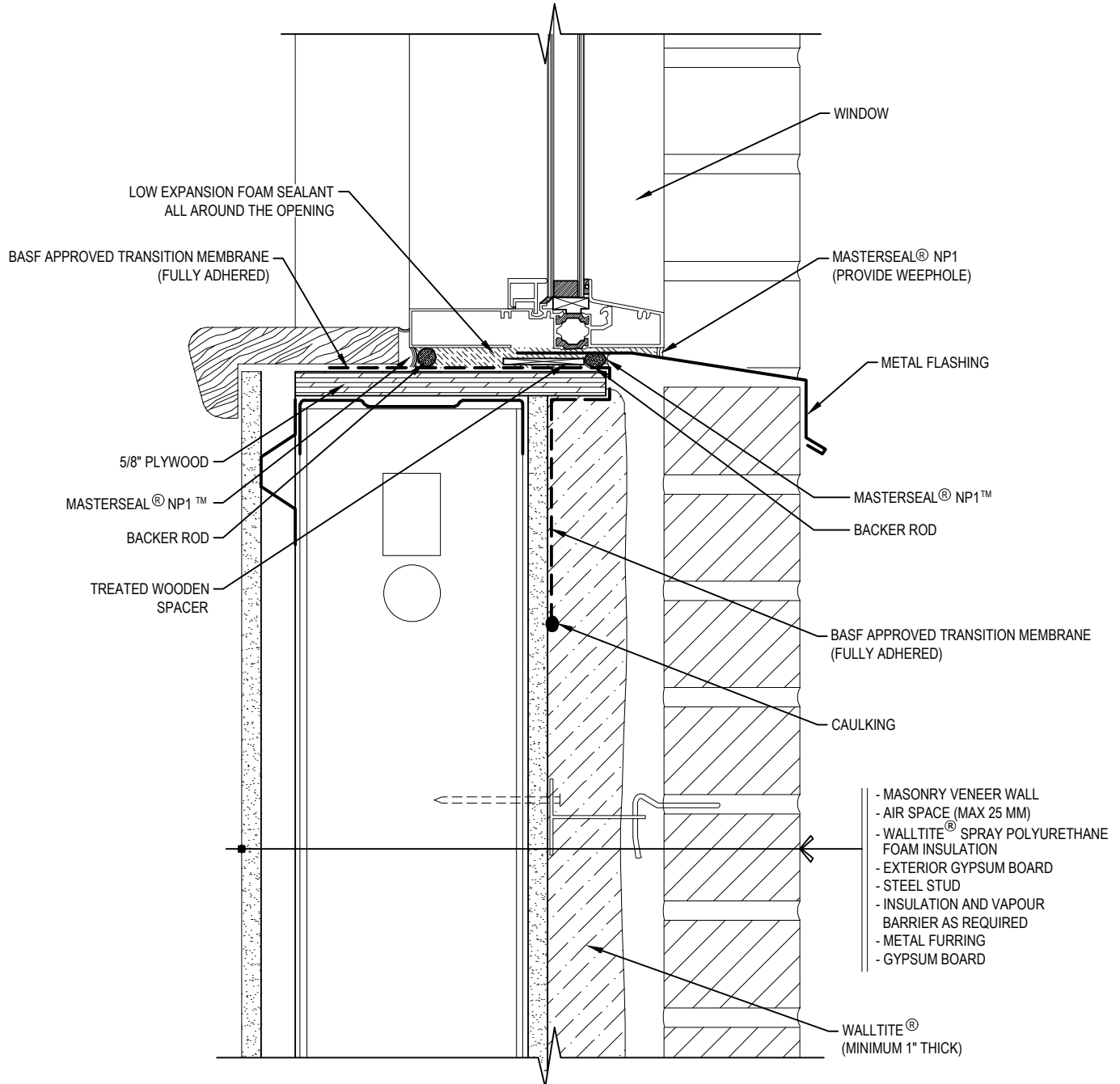
WINDOW HEAD DETAIL
METAL FOAM STOP

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number:	WS-2B	Scale:	3/4" = 1'-0"	Project no:	M18 704	Date:	OCTOBER 24, 2019	Designed by:	C.J. & A.M.	Drawn by:	C.C	Checked by:	F.D.
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WINDOW INSTALLED AS PER CSA A440



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WS-3

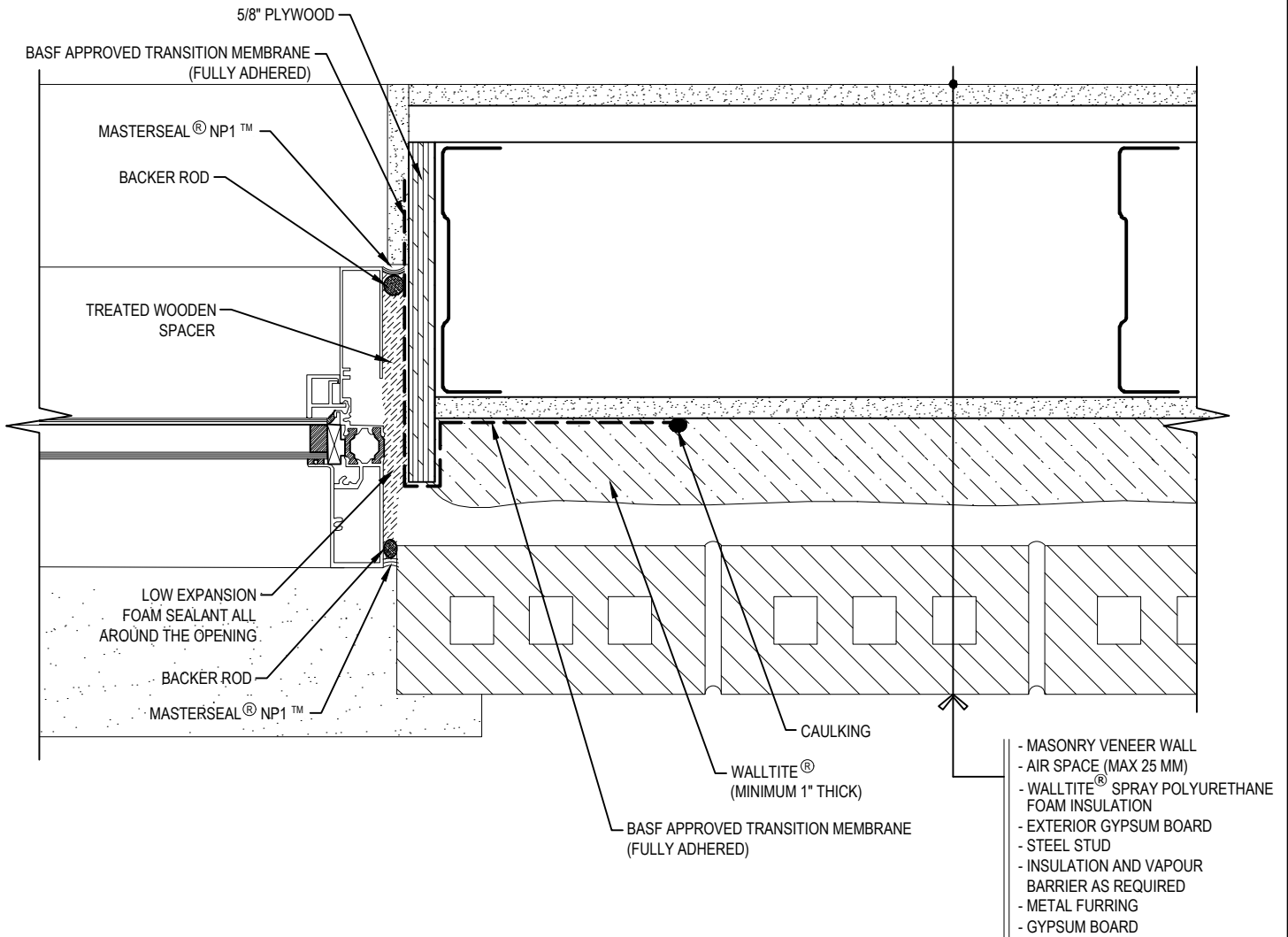
WINDOW SILL DETAIL
WOOD FOAM STOP

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number:	Scale:	Project no:	Date:	Designed by:	Drawn by:	Checked by:
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WINDOW INSTALLED AS PER CSA A440

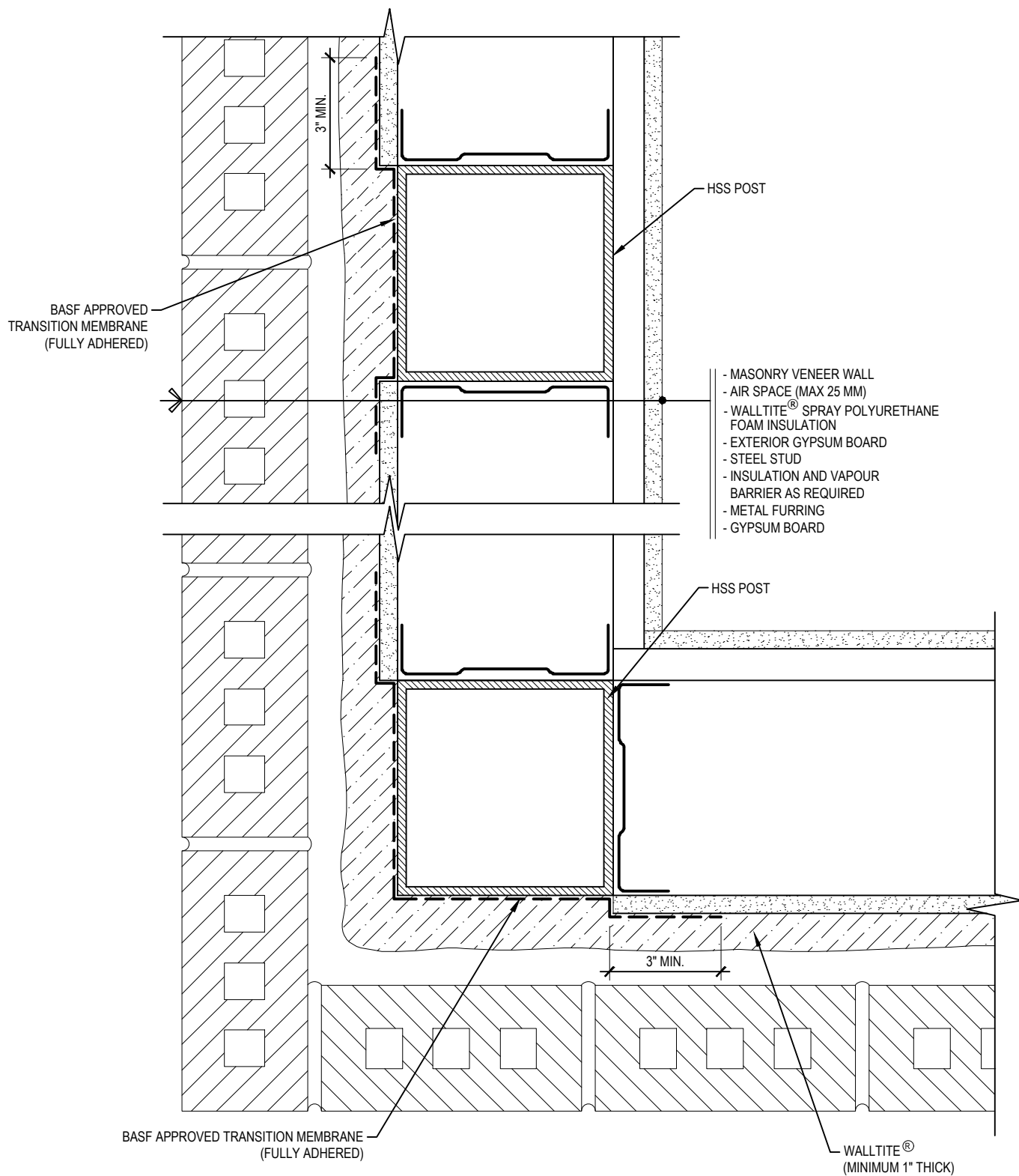


WINDOW JAMB DETAIL

WOOD FOAM STOP

BASF
We create chemistry

Drawing Number: WS-4	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: OCTOBER 24, 2019	Designed by: C. J. & A.M.	Drawn by: C.C	Checked by: F.D.
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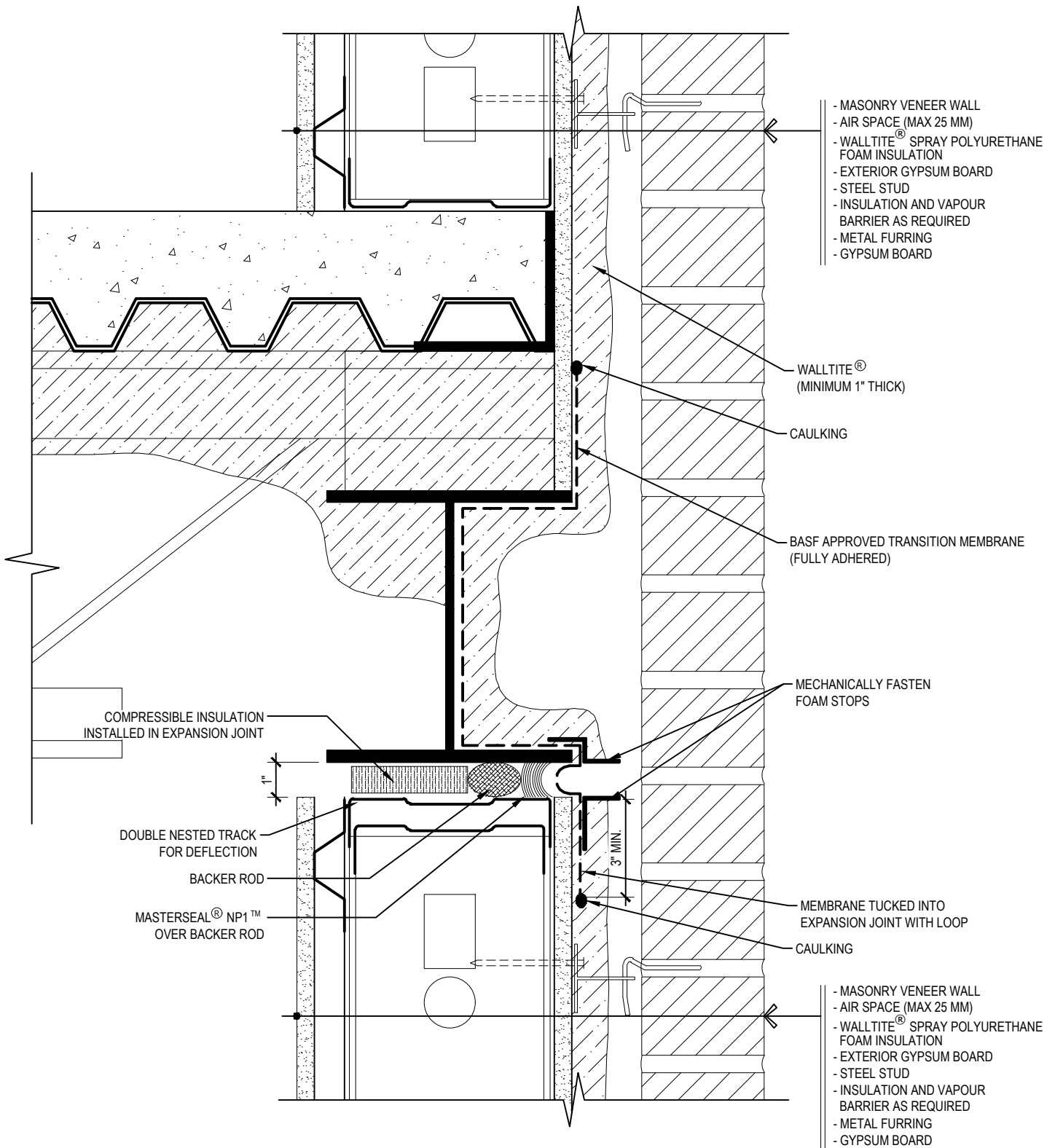
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WS-5

WALL CORNER - HSS COLUMN

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number: WS-5	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: APRIL 3, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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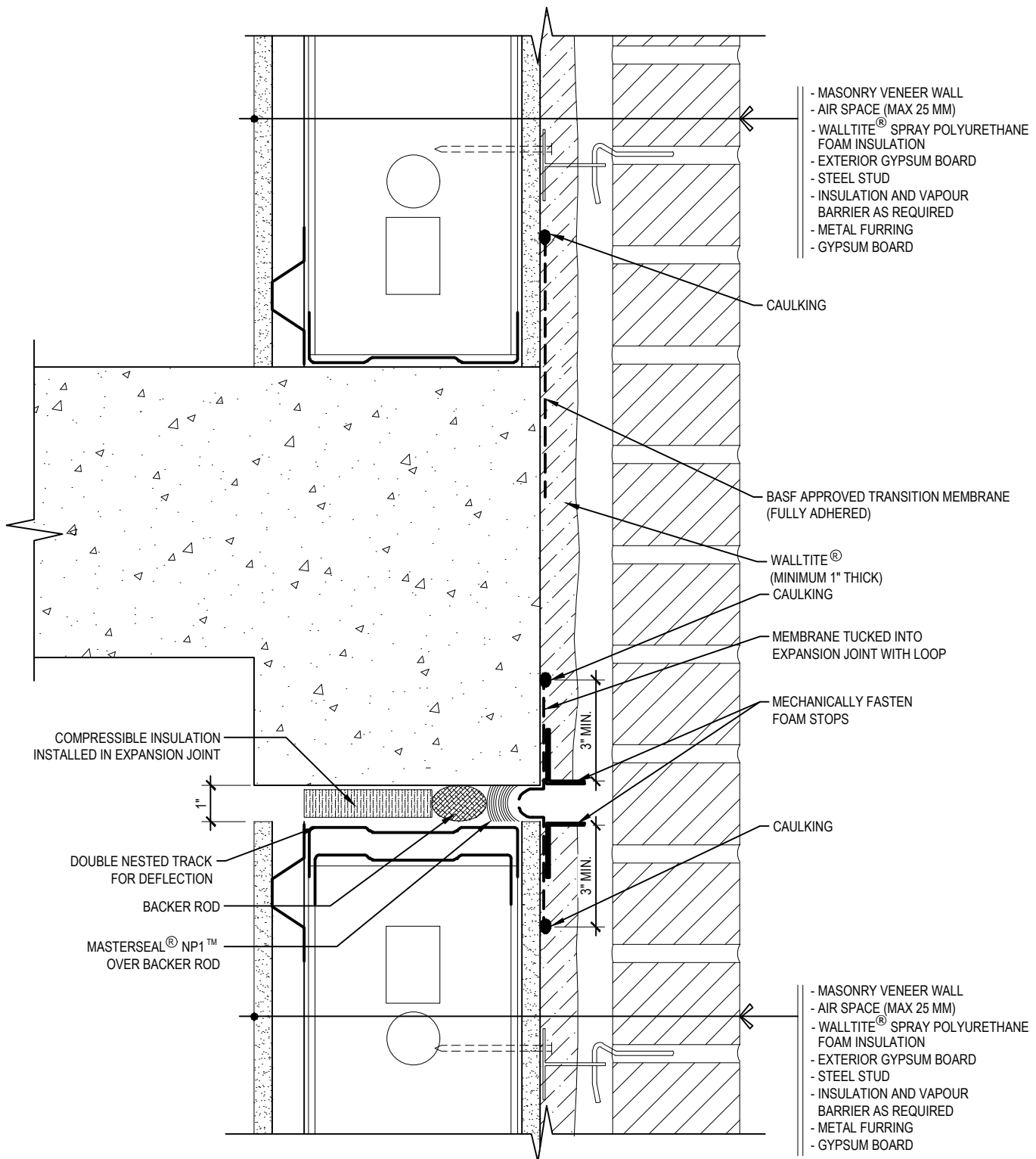
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WS-6A

WALL TO FLOOR JUNCTION (STEEL DECK)

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number:	Scale:	Project no:	Date:	Designed by:	Drawn by:	Checked by:
WS-6A	3/4" = 1'-0"	M18 704	OCTOBER 24, 2019	C.J. & A.M.	C.C	F.D.



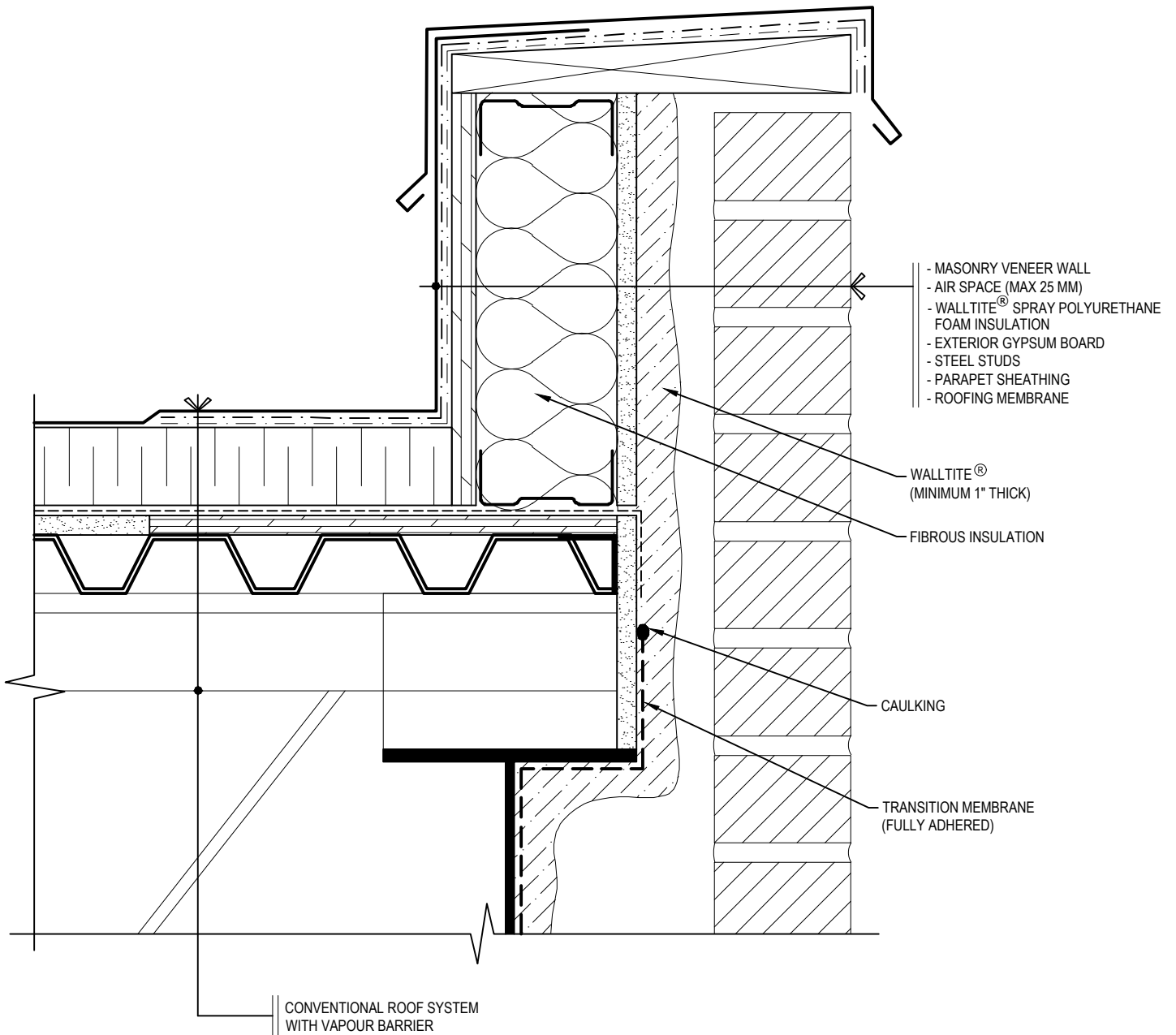
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WS-6B

WALL TO FLOOR JUNCTION (CONCRETE FLOOR)

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number:	Scale:	Project no:	Date:	Designed by:	Drawn by:	Checked by:
WS-6B	3/4" = 1'-0"	M18 704	OCTOBER 24, 2019	C.J. & A.M.	C.C	F.D.



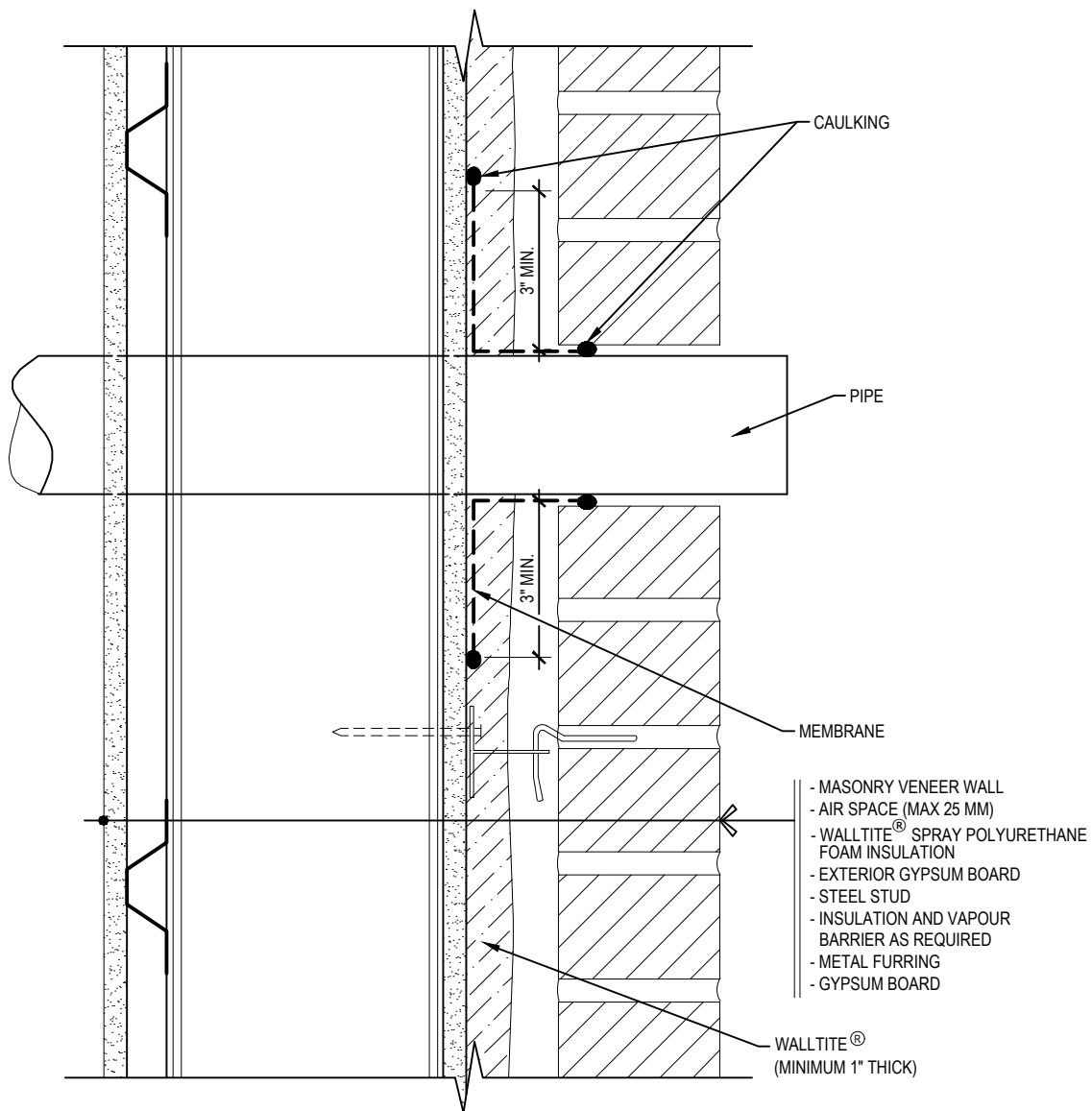
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WS-7

WALL TO ROOF JUNCTION

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number: WS-7	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: APRIL 3, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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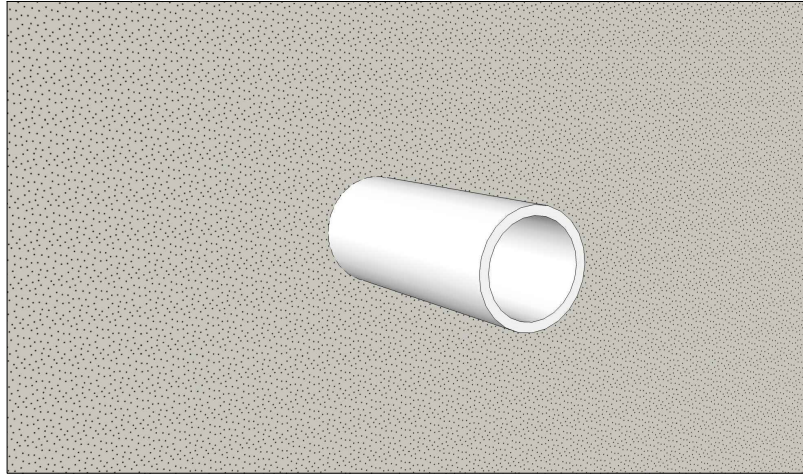
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WS-8A

PENETRATION - 2D DETAIL

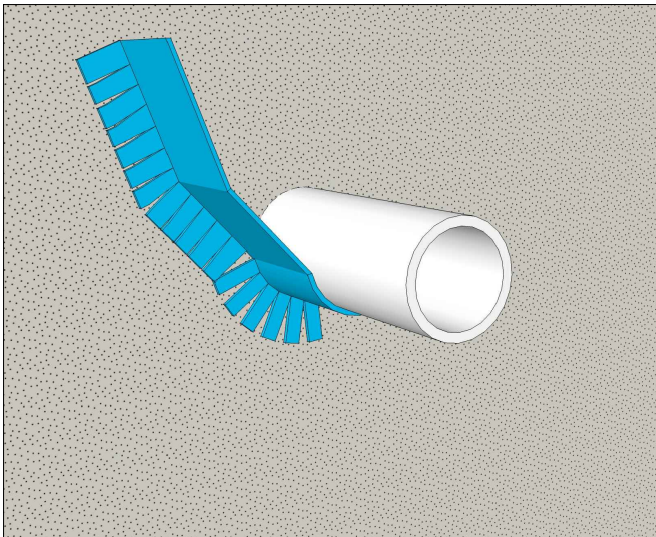
WALLTITE[®] AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number:	WS-8A	Scale:	3/4" = 1'-0"	Project no:	M18 704	Date:	OCTOBER 24, 2019	Designed by:	C.J. & A.M.	Drawn by:	C.C	Checked by:	F.D.
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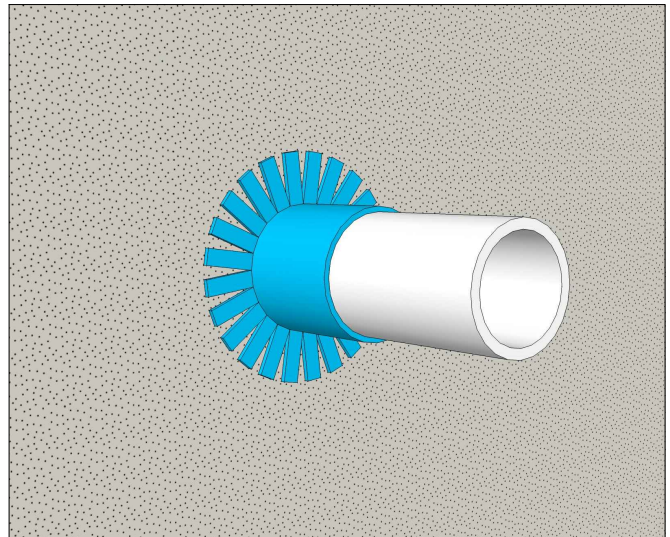


STEPS FOR SEALING AROUND WALL PENETRATIONS



STEP 1.A

INSTALL A TRANSITION MEMBRANE AROUND THE PIPE.
CUT THE EDGE OF THE MEMBRANE TO ENSURE THE MEMBRANE IS WELL ADHERED TO THE WALL AND ALONG THE PERIMETER OF THE PIPE.
NOTE: INSTALL THE MEMBRANE STARTING FROM THE BOTTOM OF THE PIPE.



STEP 1.B

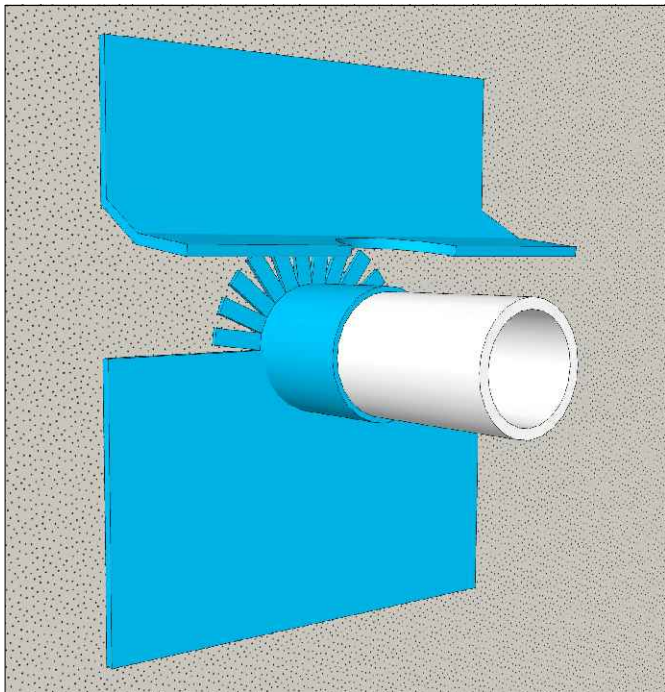


PENETRATION - 3D DETAIL

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

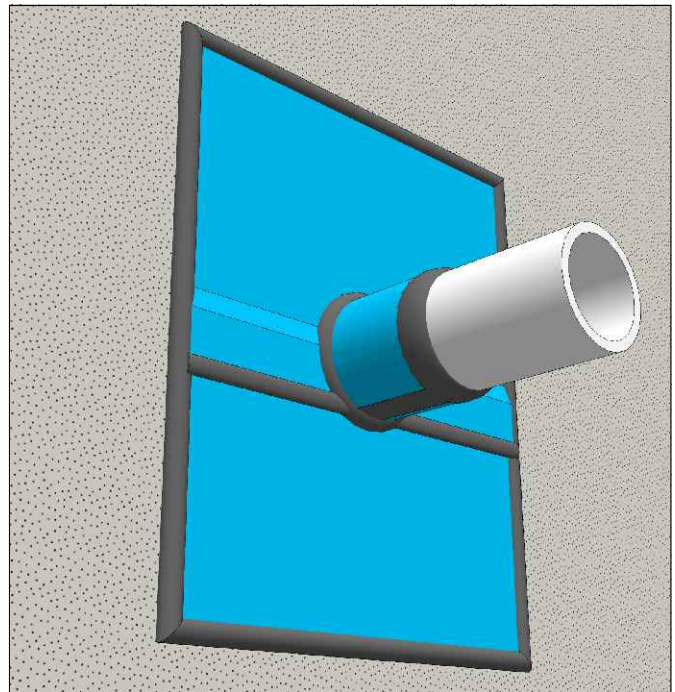
 **BASF**
We create chemistry

Drawing Number: WS-8B	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: APRIL 3, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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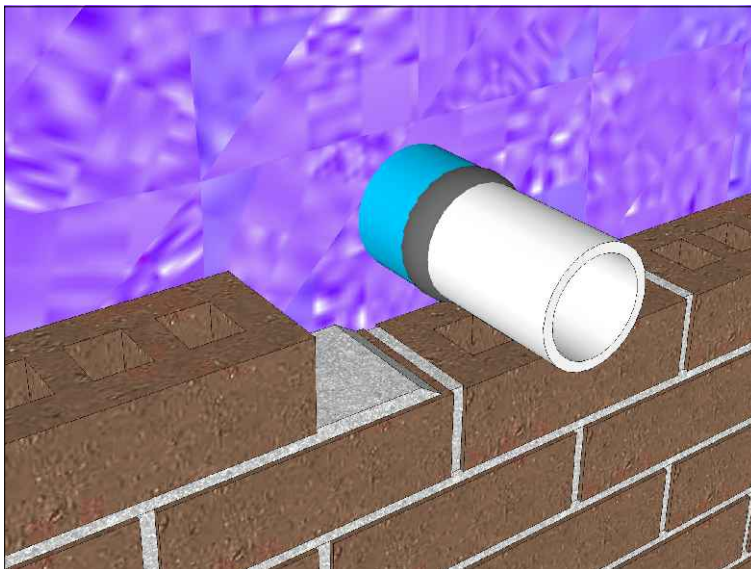
STEP 2

INSTALL A MEMBRANE ON THE WALL TO COVER THE LOWER HALF OF THE PIPE.



STEP 3

INSTALL A SECOND MEMBRANE ON THE WALL TO COVER THE UPPER PART OF THE PIPE AND OVERLAP WITH THE LOWER MEMBRANE.
SEAL THE PERIMETER AND ALL THE MEMBRANE JOINTS.



STEP 4

SPRAY WALLTITE[®] BEFORE LAYING BRICKS.

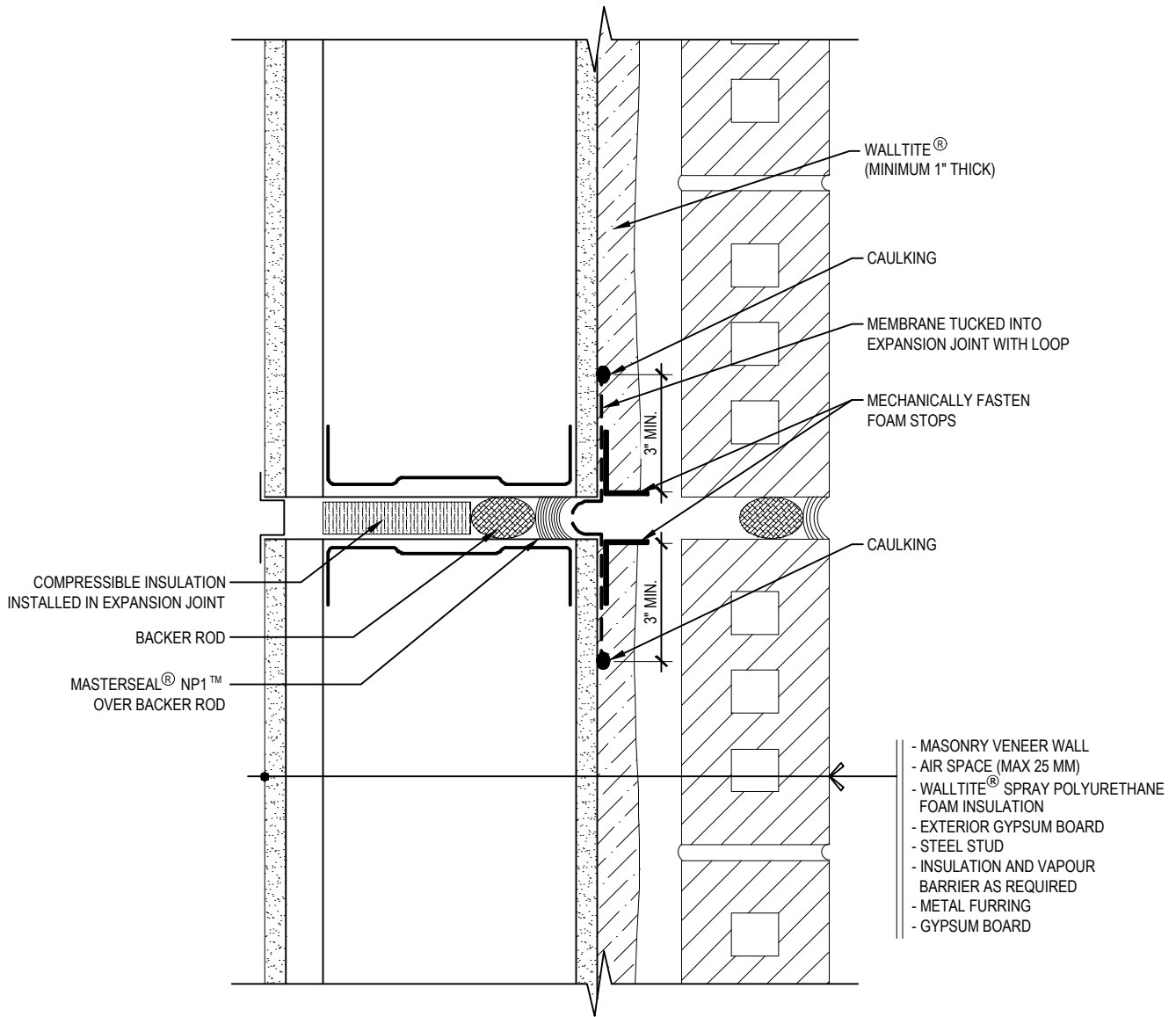


PENETRATION - 3D DETAIL

WALLTITE[®] AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number: WS-8C	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: APRIL 3, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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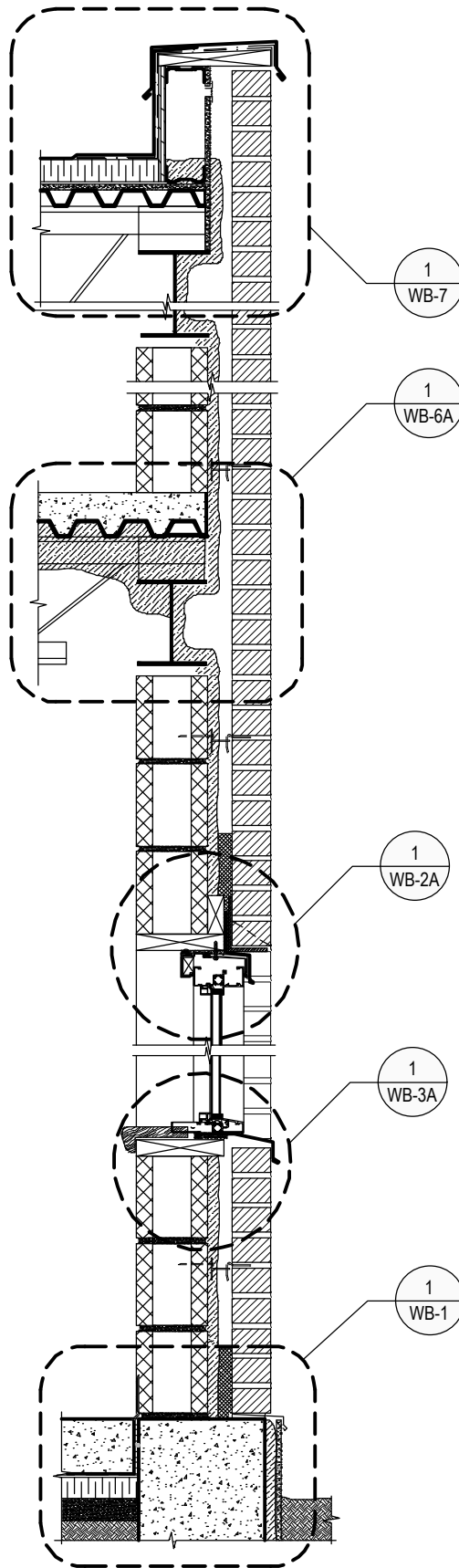
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WS-9

MOVEMENT / CONTROL / EXPANSION JOINT DETAIL

WALLTITE® AIR BARRIER SYSTEM,
STEEL STUD ASSEMBLY

BASF
We create chemistry

Drawing Number: WS-9	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: OCTOBER 24, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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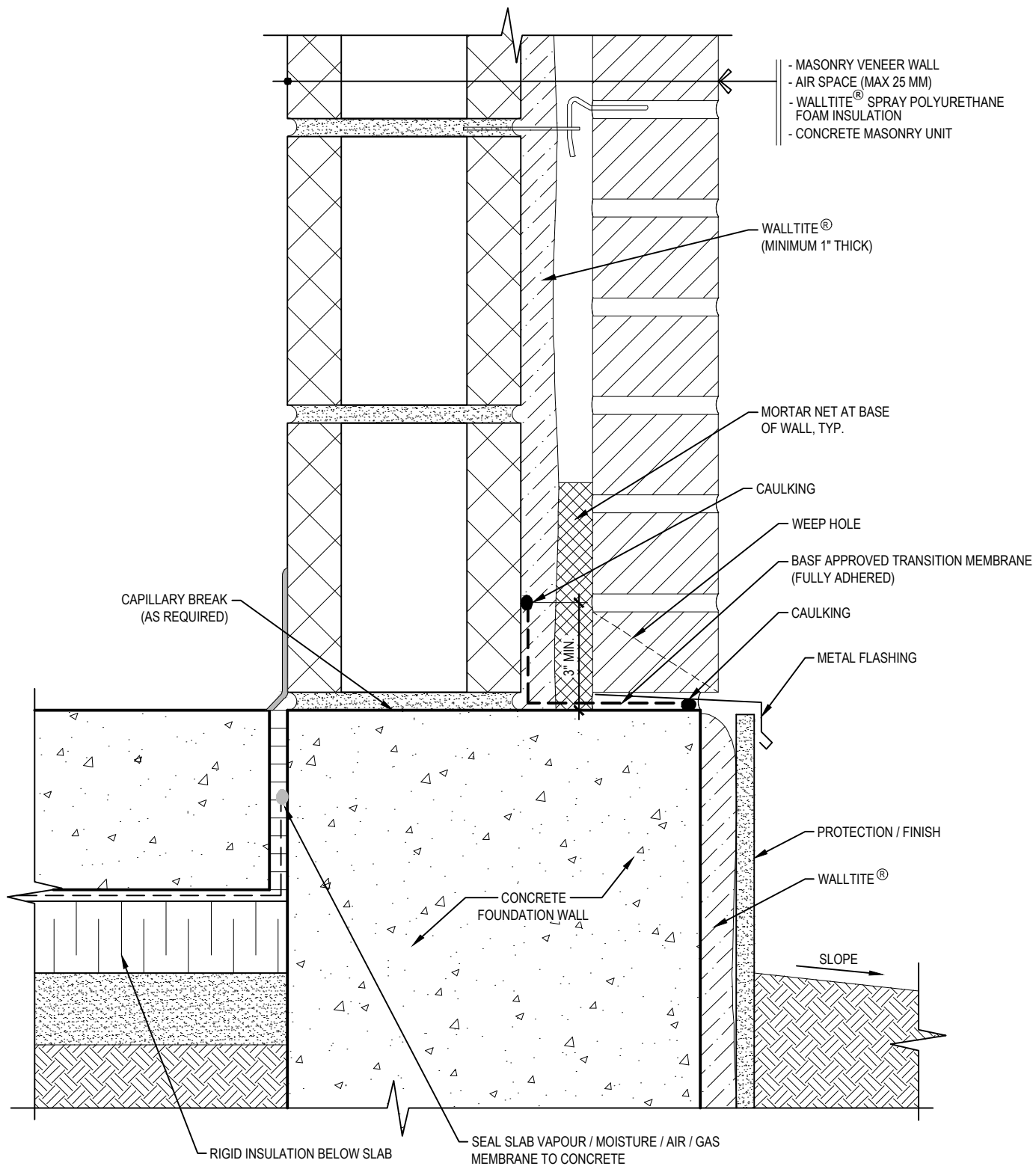
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WB-0

WALL SECTION

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-0	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: APRIL 3, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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1
WB-1

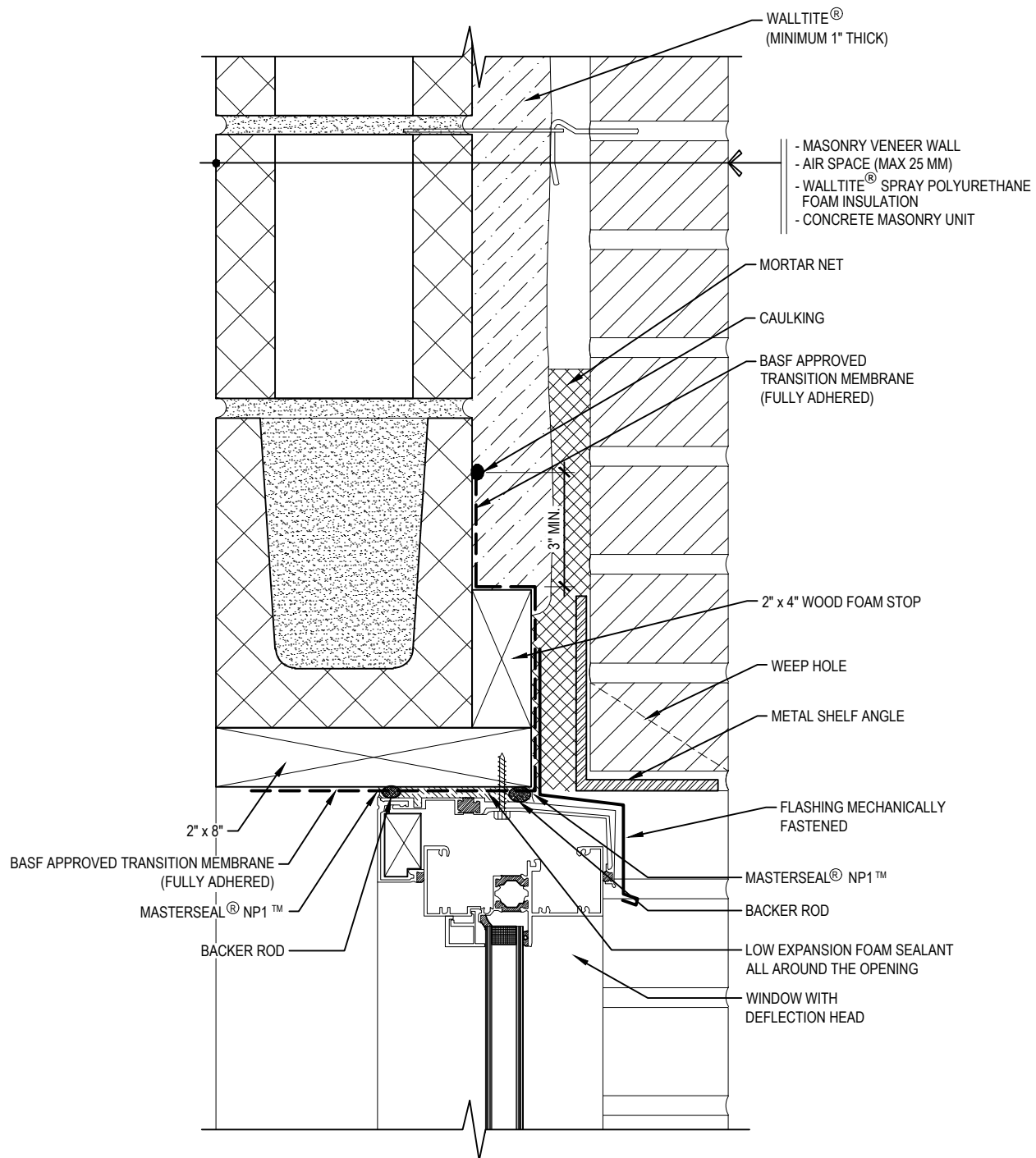
FOUNDATION TERMINATION

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number:	Scale:	Project no:	Date:	Designed by:	Drawn by:	Checked by:
WB-1	3/4" = 1'-0"	M18 704	APRIL 3, 2019	C.J. & A.M.	C.C	F.D.

WINDOW INSTALLED AS PER CSA A440



1
WB-2A

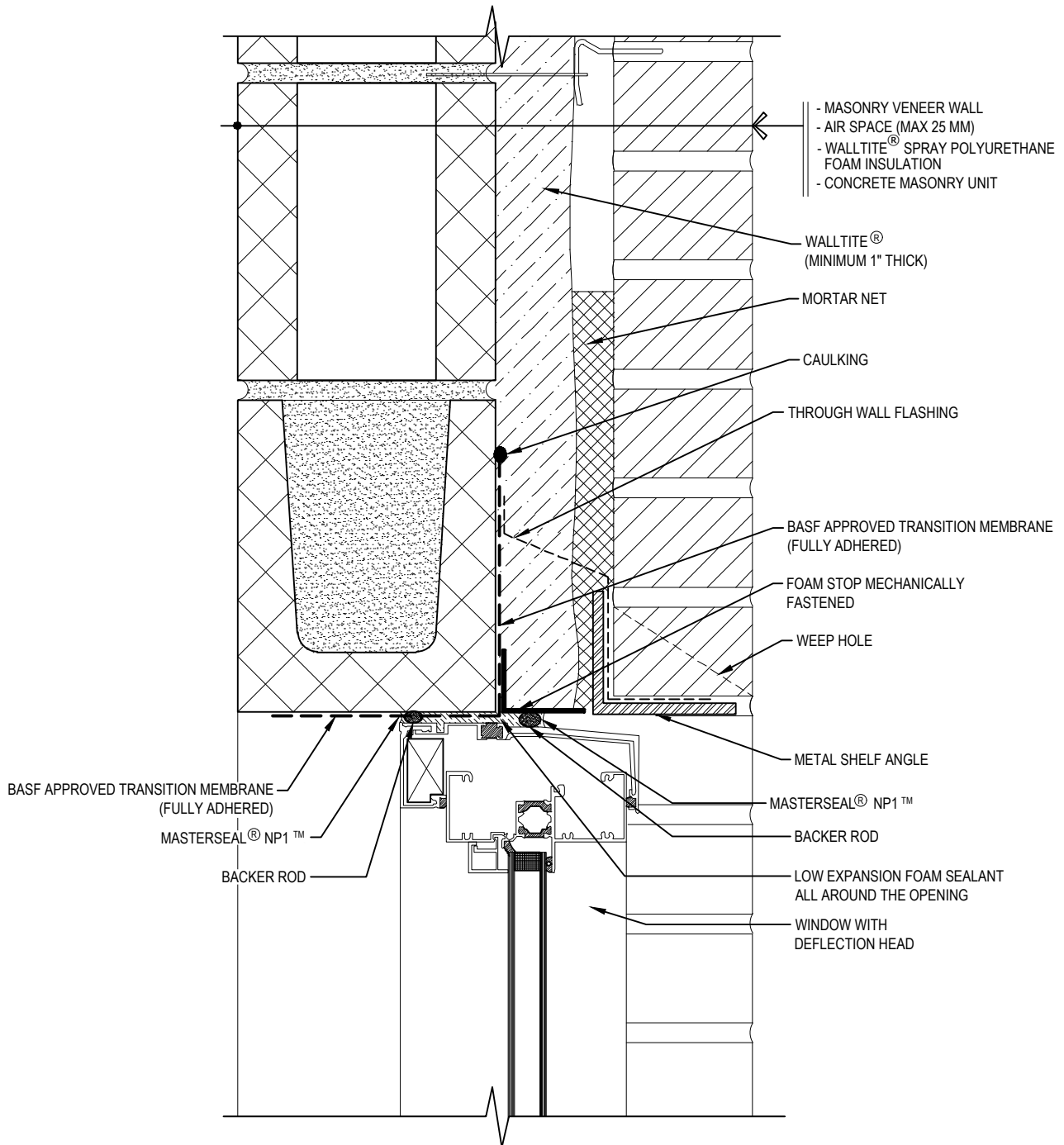
WINDOW HEAD DETAIL WOOD FOAM STOP

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-2A	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: OCTOBER 24, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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WINDOW INSTALLED AS PER CSA A440



1
WB-2B

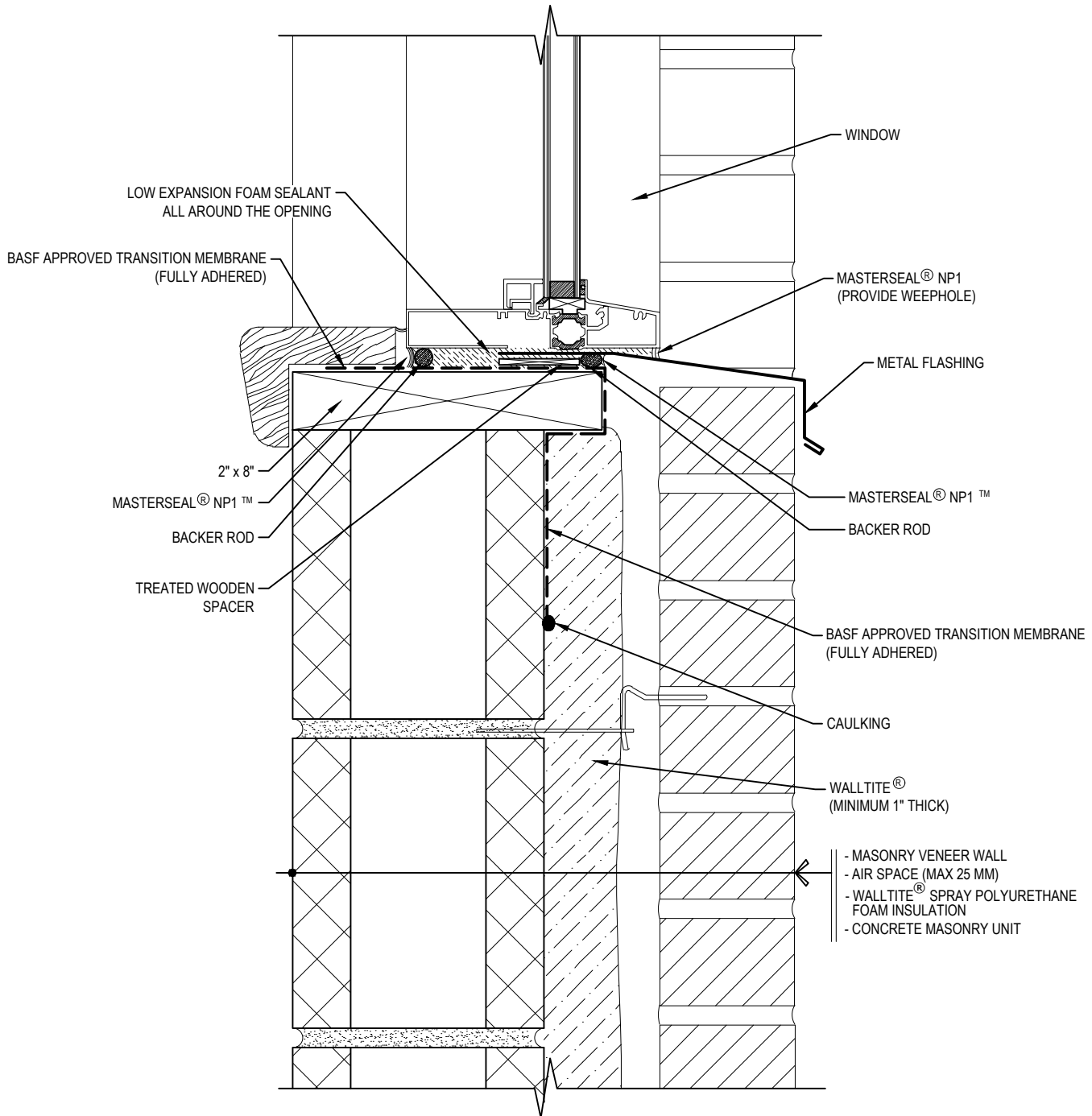
WINDOW HEAD DETAIL METAL FOAM STOP

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-2B	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: OCTOBER 24, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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WINDOW INSTALLED AS PER CSA A440



1
WB-3A

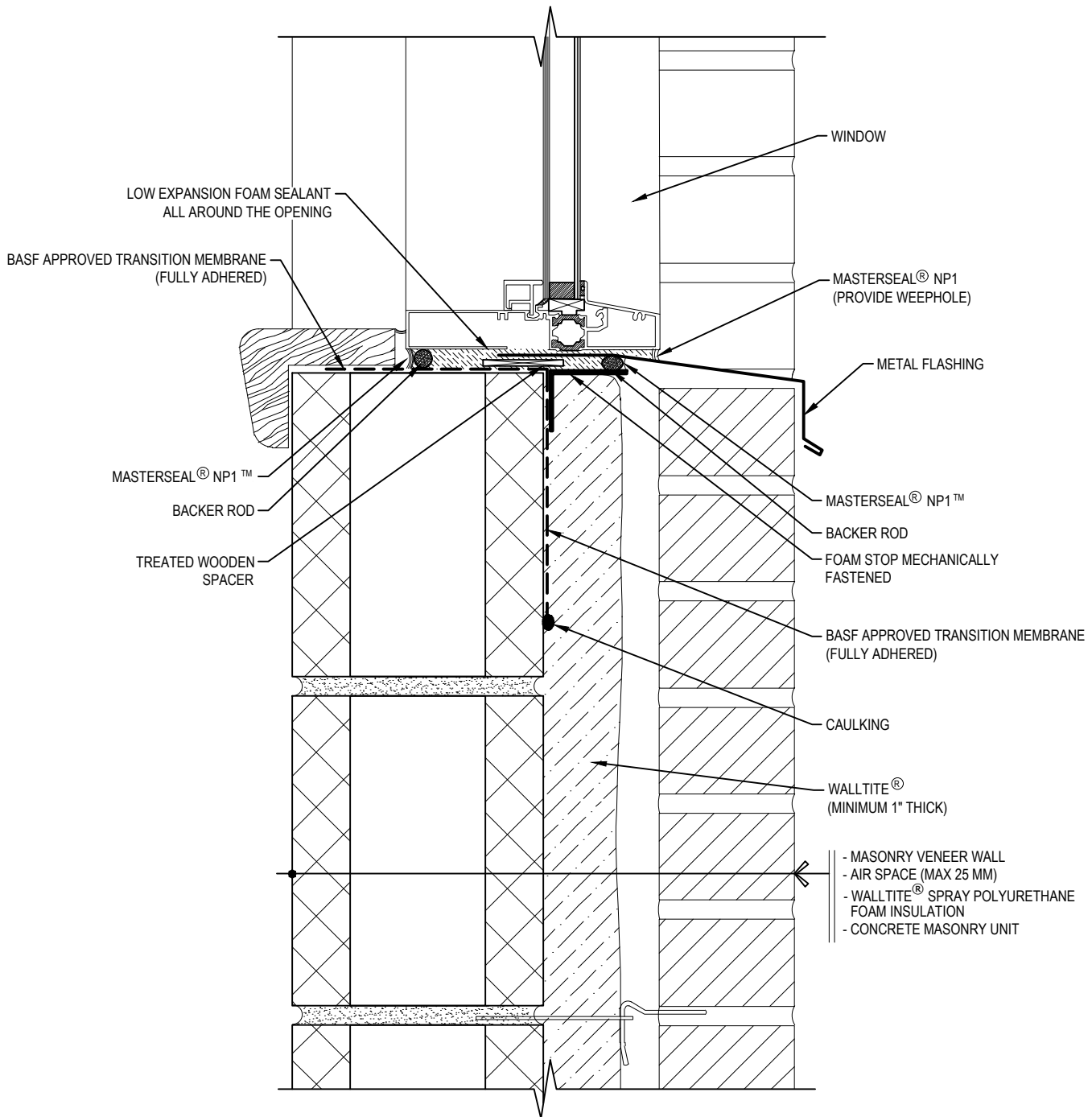
WINDOW SILL DETAIL
WOOD FOAM STOP

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-3A	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: OCTOBER 24, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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WINDOW INSTALLED AS PER CSA A440



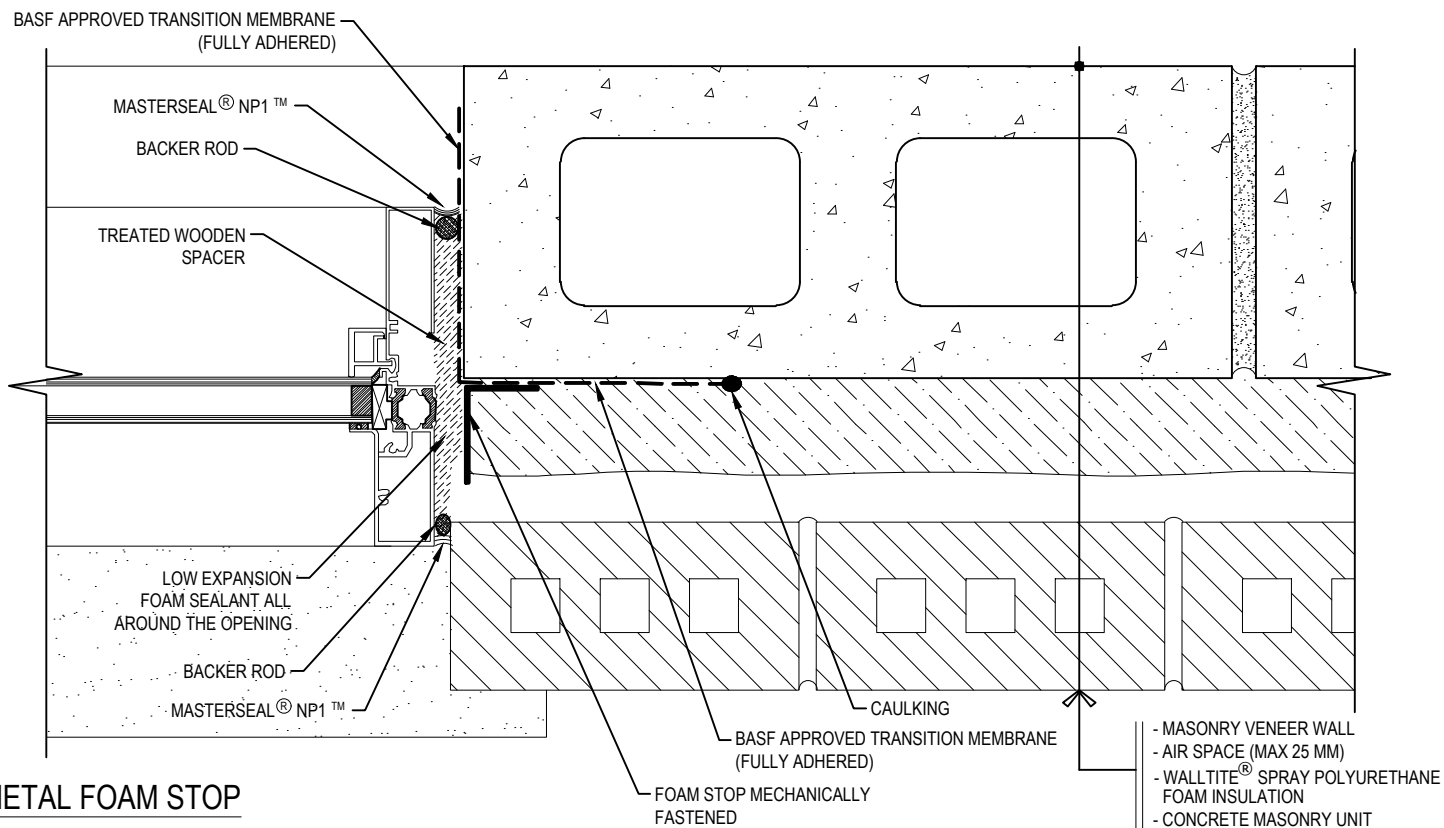
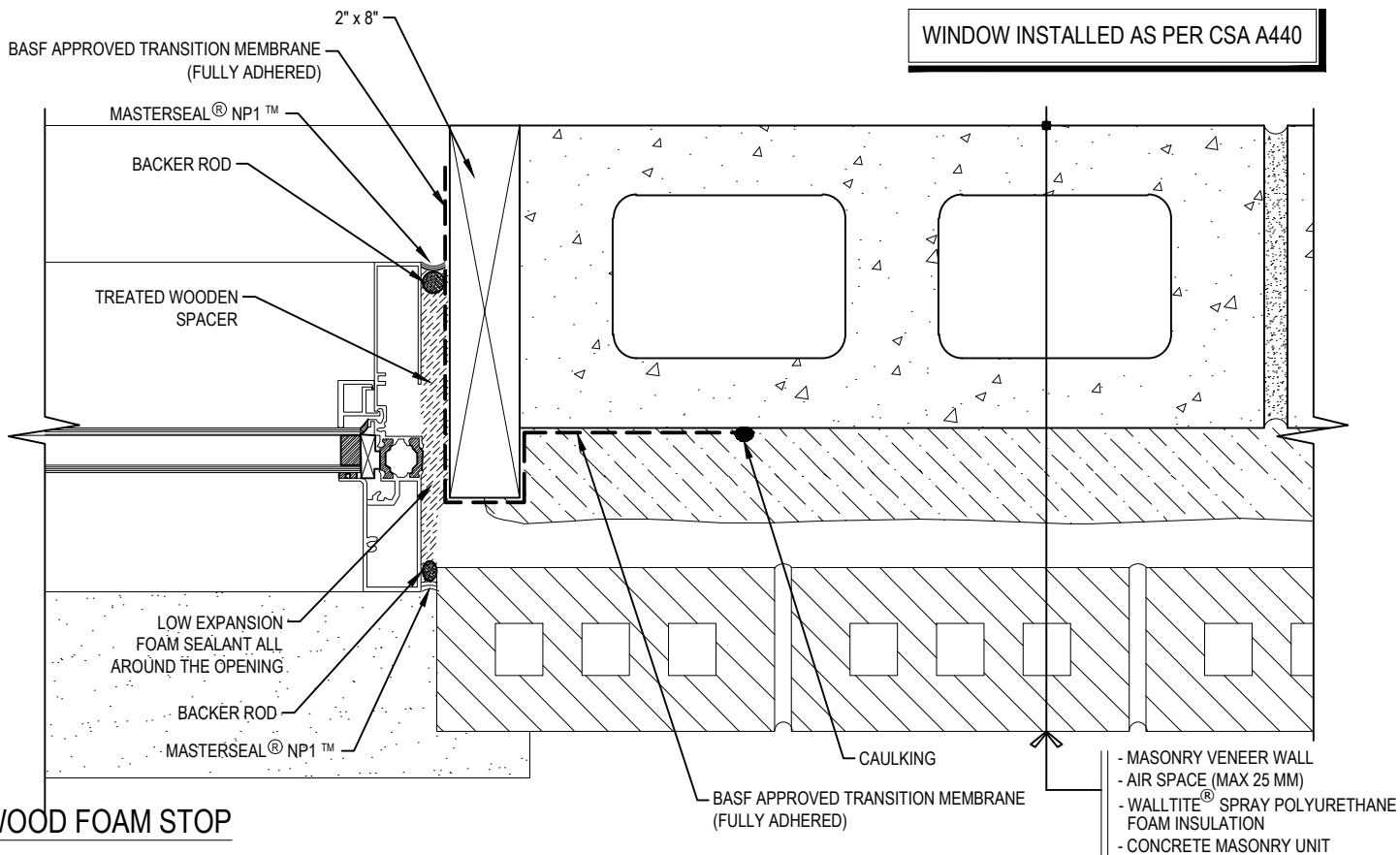
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WB-3B

WINDOW SILL DETAIL
METAL FOAM STOP

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-3B	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: OCTOBER 24, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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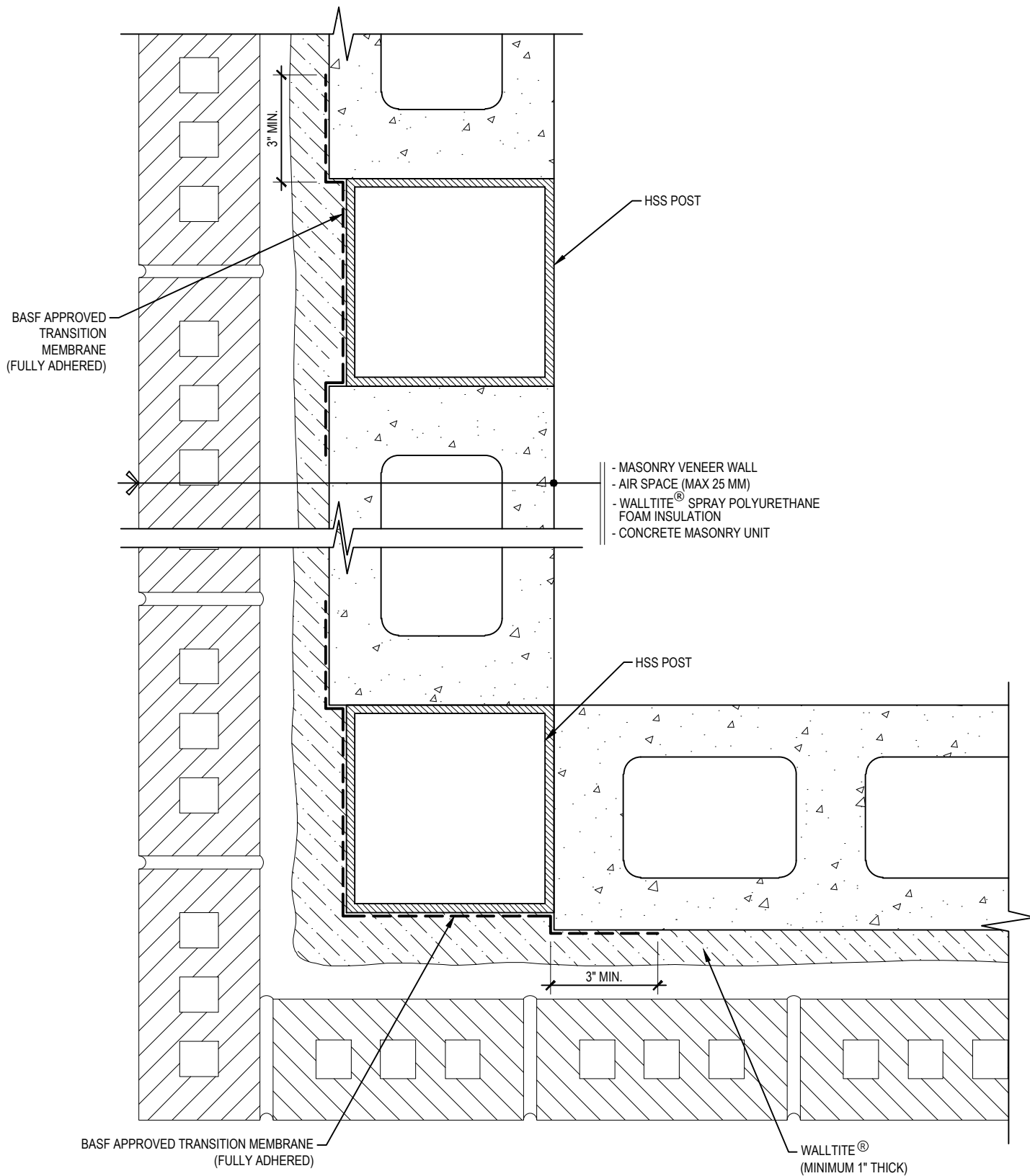
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WB-4

WINDOW JAMB DETAIL
WOOD AND METAL FOAM STOP

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-4	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: OCTOBER 24, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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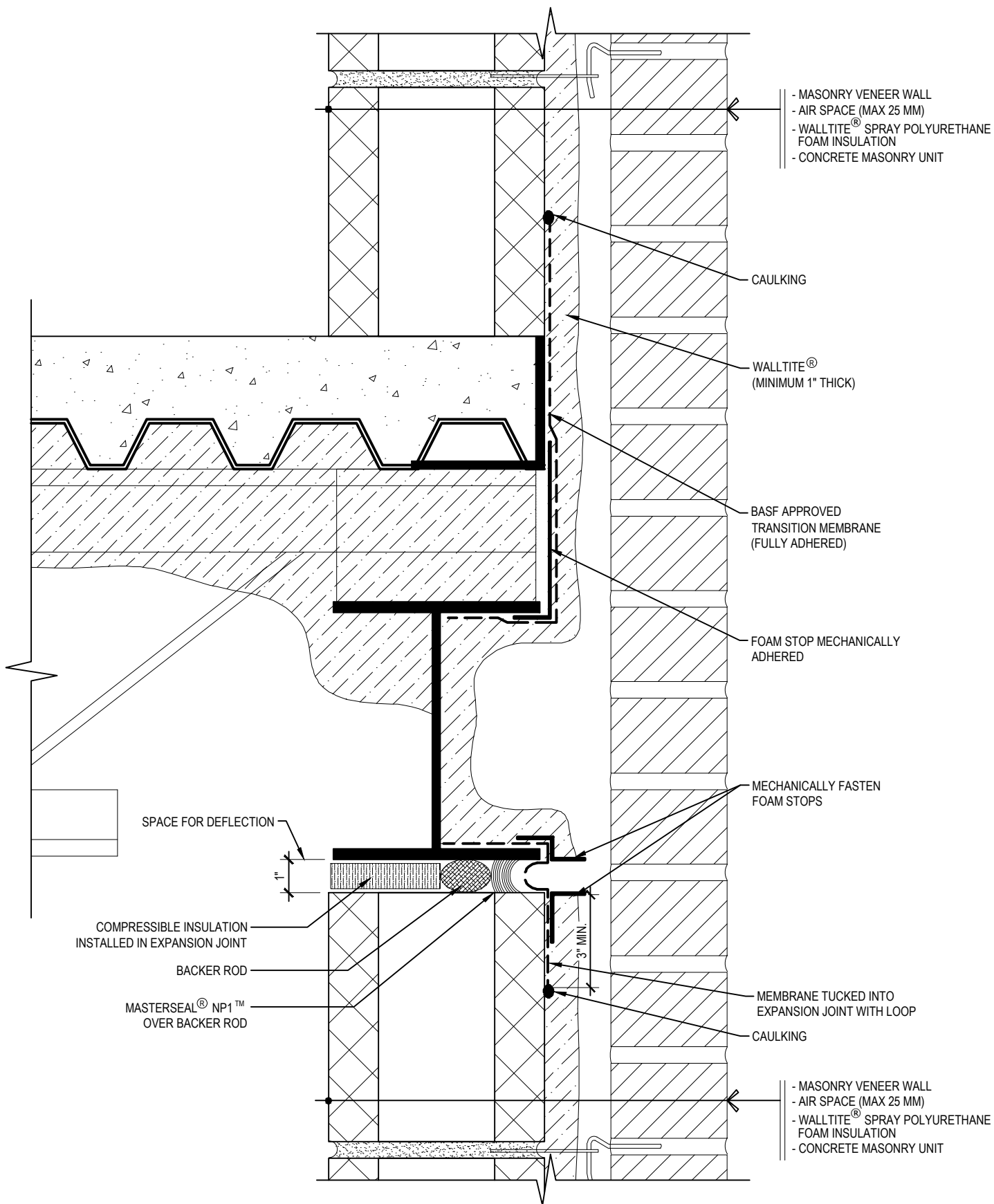
1
WB-5

WALL CORNER - HSS COLUMN

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-5	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: APRIL 3, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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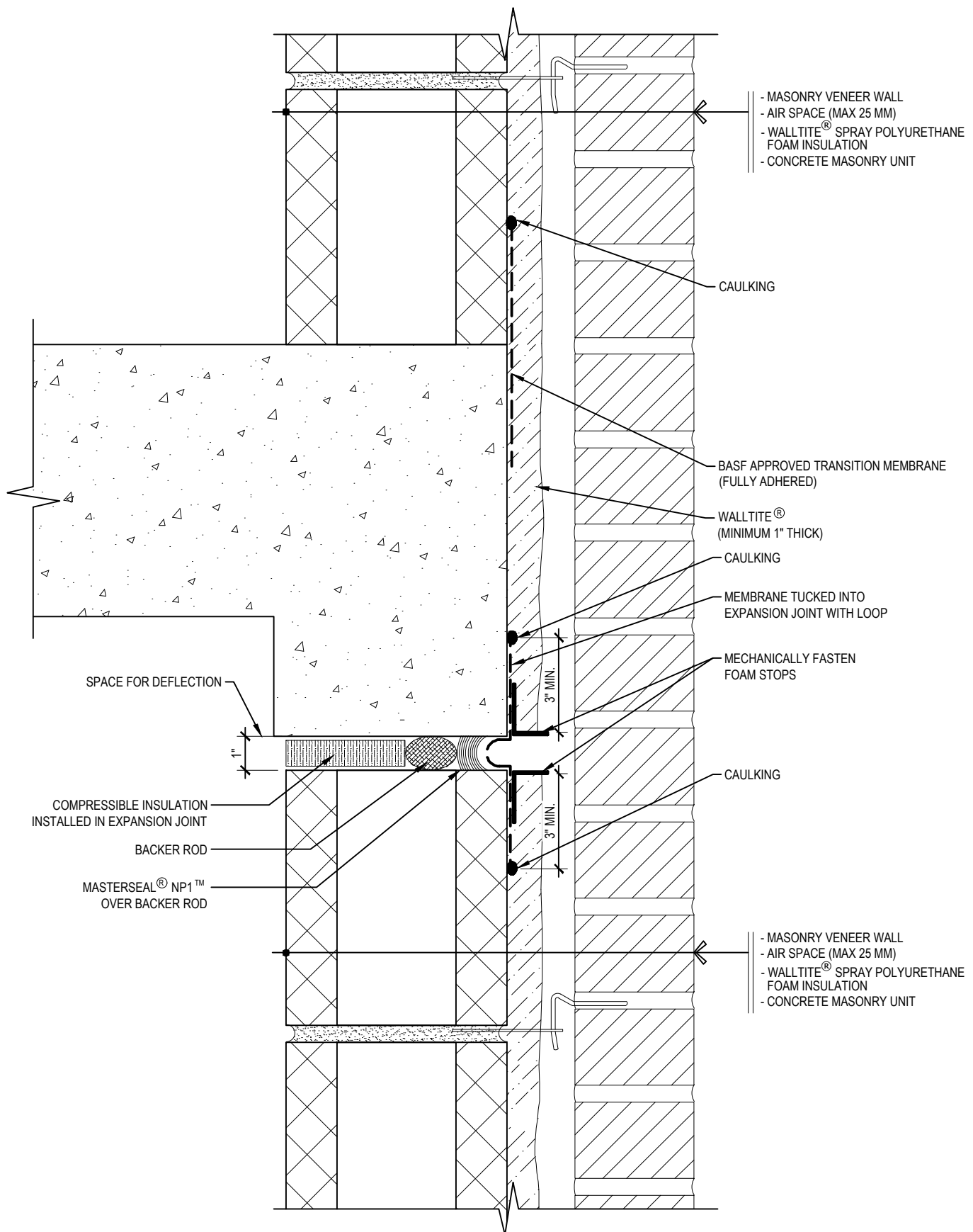
1
WB-6A

WALL TO FLOOR JUNCTION (STEEL DECK)

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number:	Scale:	Project no:	Date:	Designed by:	Drawn by:	Checked by:
WB-6A	3/4" = 1'-0"	M18 704	OCTOBER 24, 2019	C.J. & A.M.	C.C	F.D.



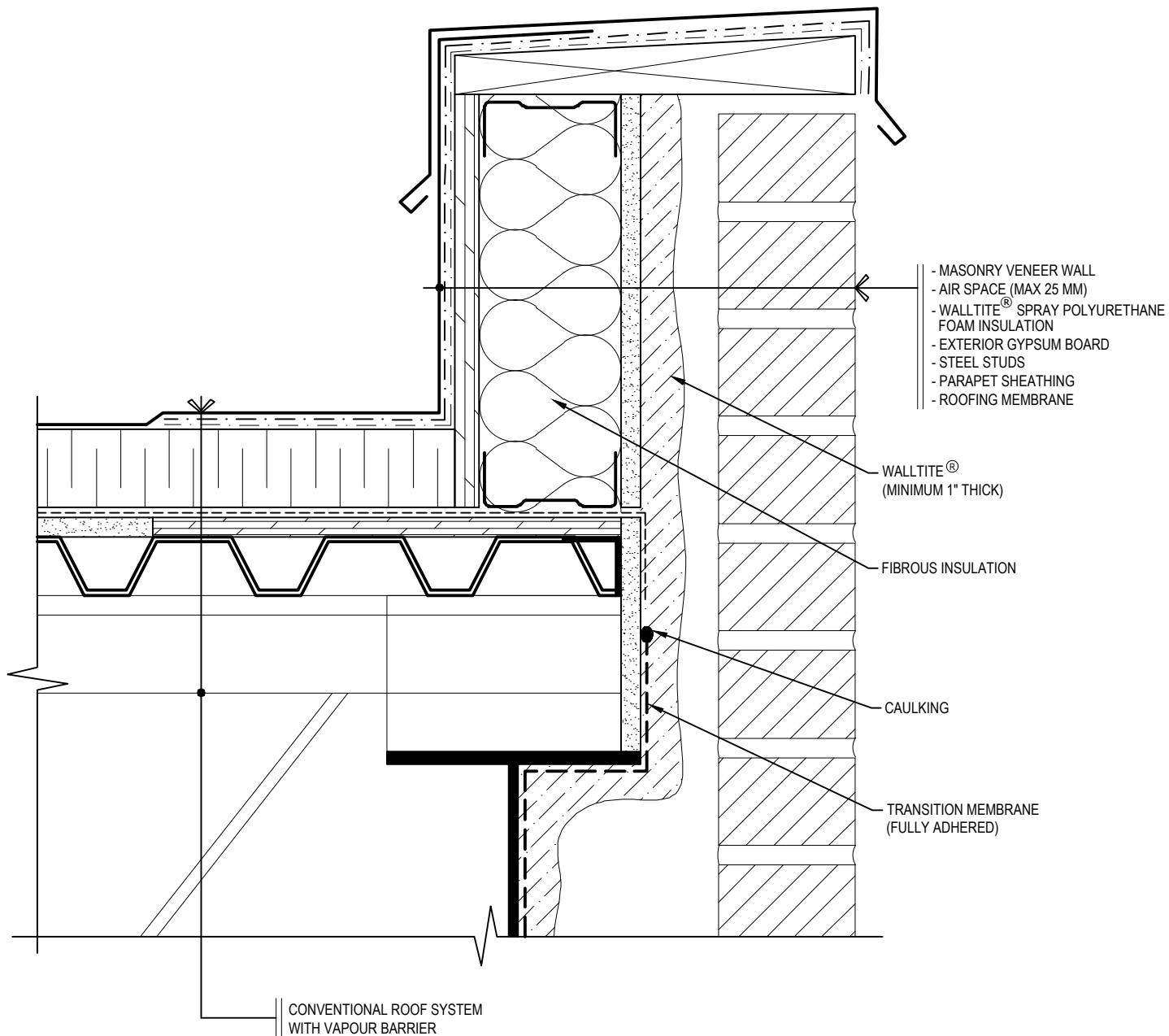
1
WB-6B

WALL TO FLOOR JUNCTION (CONCRETE FLOOR)

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-6B	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: OCTOBER 24, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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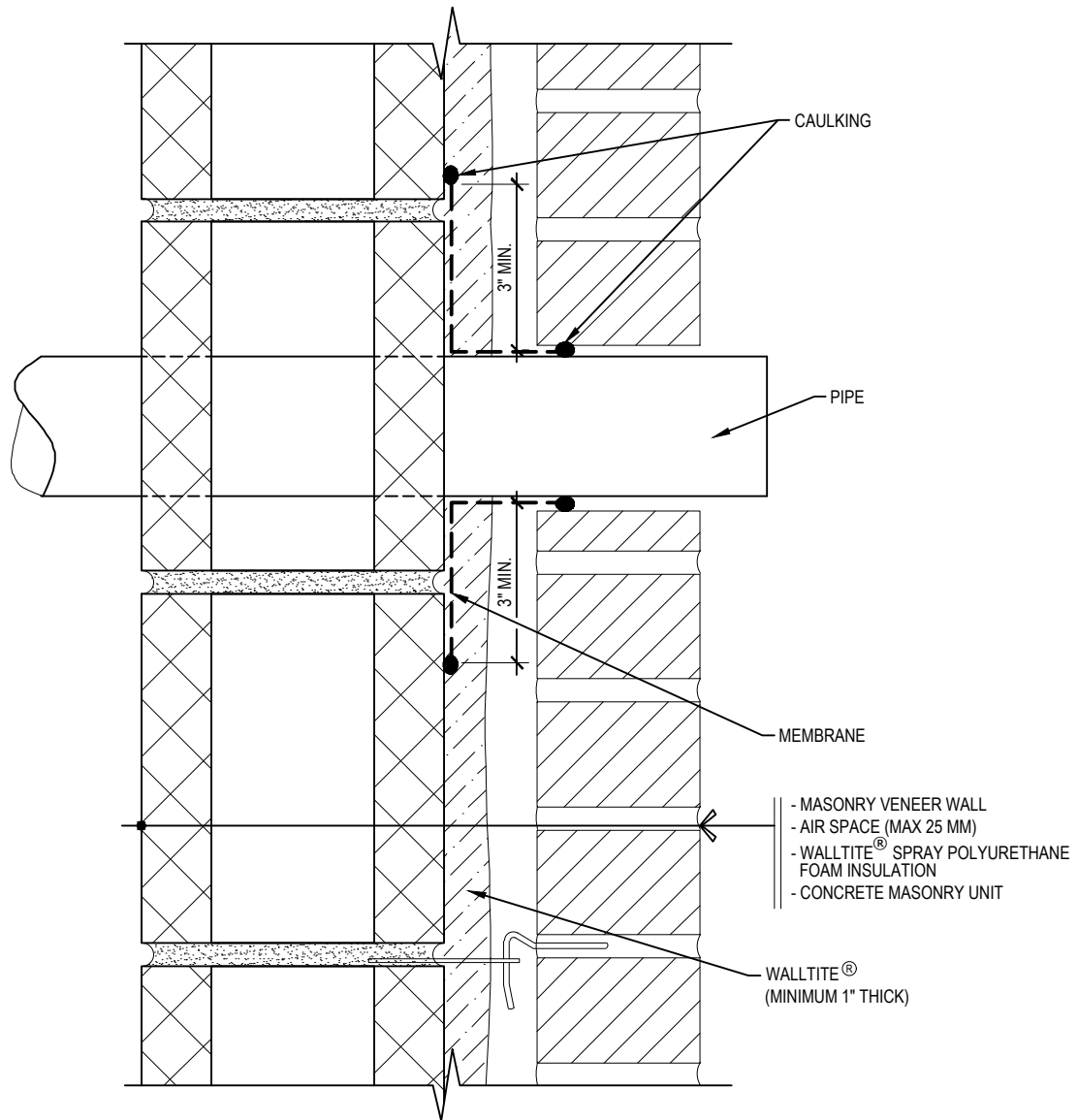
1
WB-7

WALL TO ROOF JUNCTION

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-7	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: APRIL 3, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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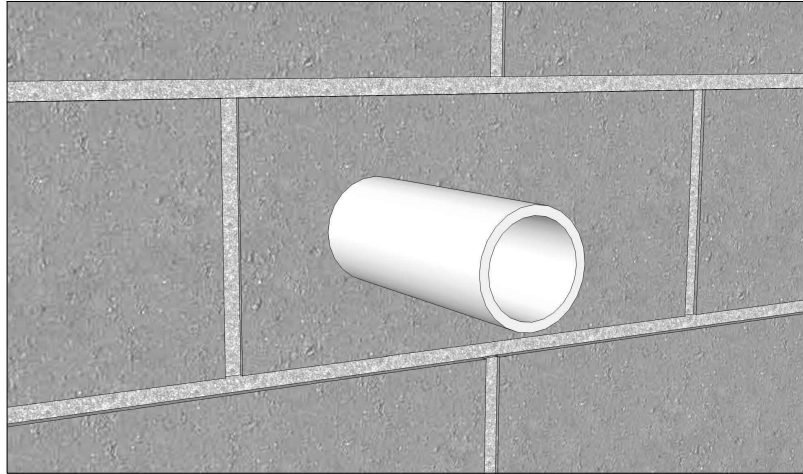
1
WB-8A

PENETRATION - 2D DETAIL

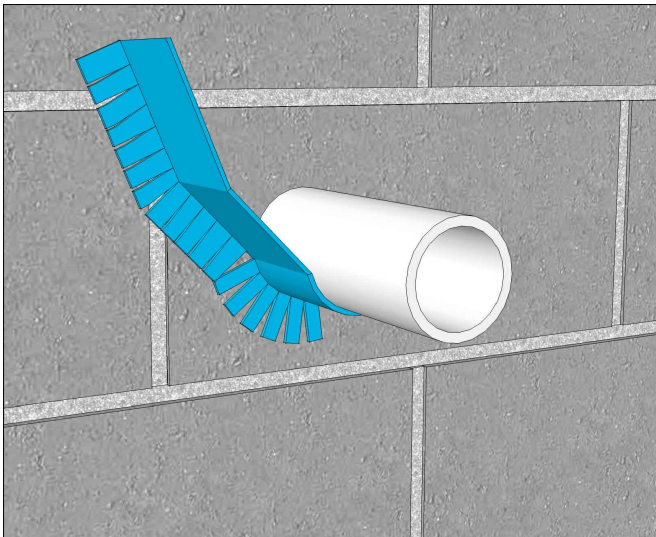
WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-8A	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: OCTOBER 24, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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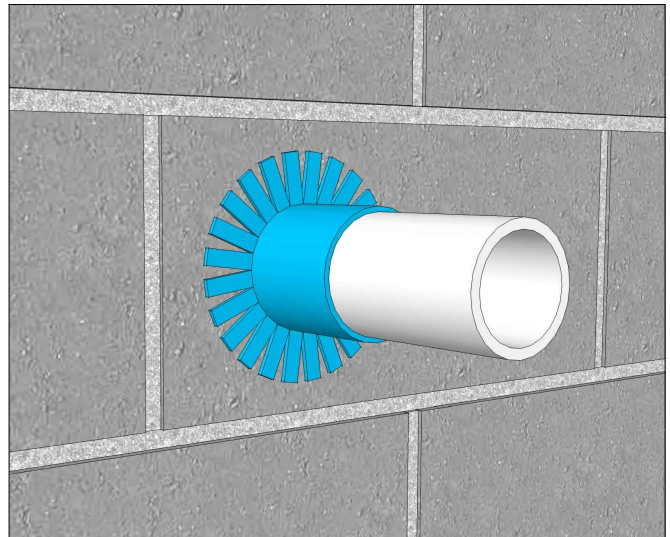


STEPS FOR SEALING AROUND WALL PENETRATIONS



STEP 1.A

INSTALL A TRANSITION MEMBRANE AROUND THE PIPE.
CUT THE EDGE OF THE MEMBRANE TO ENSURE THE MEMBRANE IS WELL ADHERED
TO THE WALL AND ALONG THE PERIMETER OF THE PIPE.
NOTE: INSTALL THE MEMBRANE STARTING FROM THE BOTTOM OF THE PIPE.



STEP 1.B

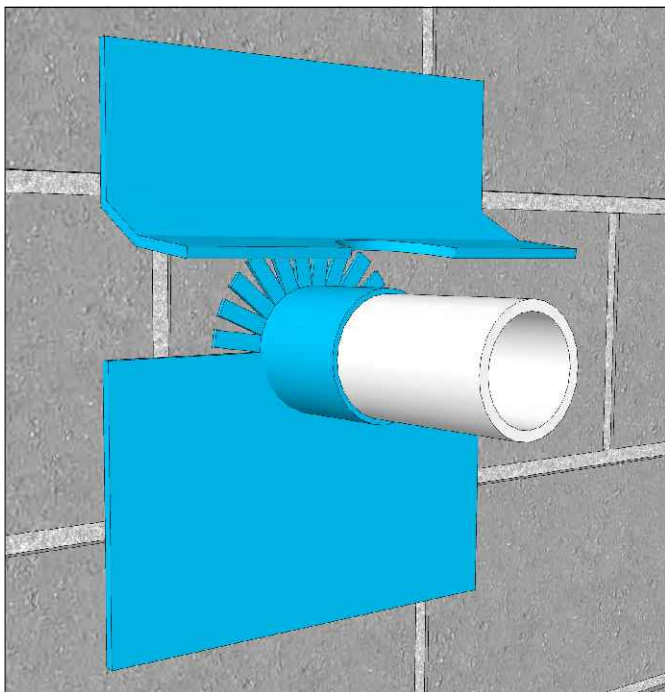


PENETRATION - 3D DETAIL

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

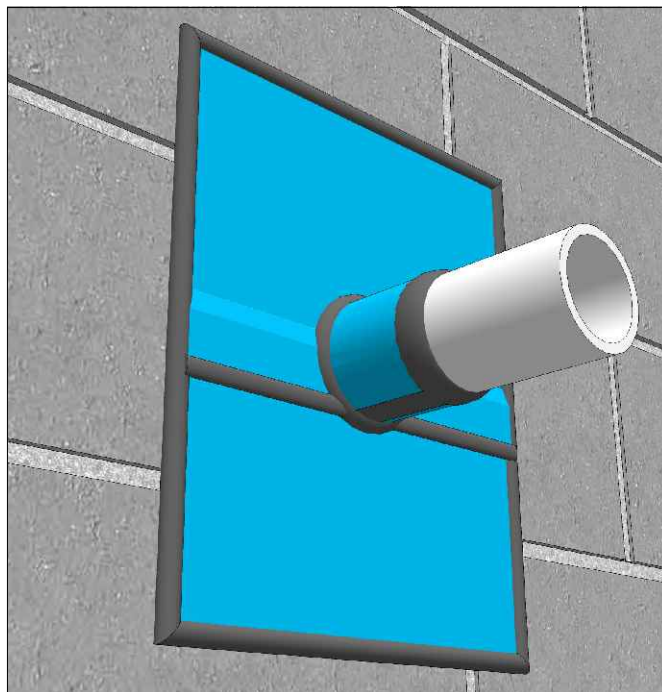
BASF
We create chemistry

Drawing Number: WB-8B	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: APRIL 3, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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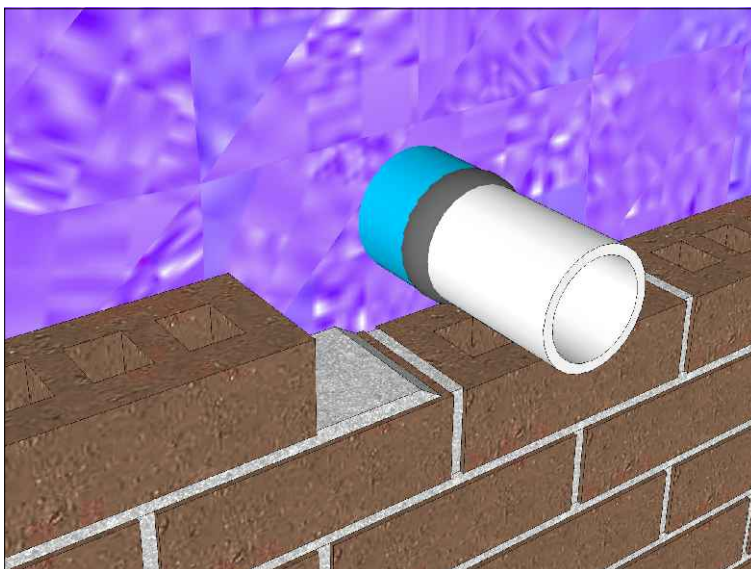
STEP 2

INSTALL A MEMBRANE ON THE WALL TO COVER THE LOWER HALF OF THE PIPE.



STEP 3

INSTALL A SECOND MEMBRANE ON THE WALL TO COVER THE UPPER PART OF THE PIPE AND OVERLAP WITH THE LOWER MEMBRANE.
SEAL THE PERIMETER AND ALL THE MEMBRANE JOINTS.



STEP 4

SPRAY WALLTITE® BEFORE LAYING BRICKS.

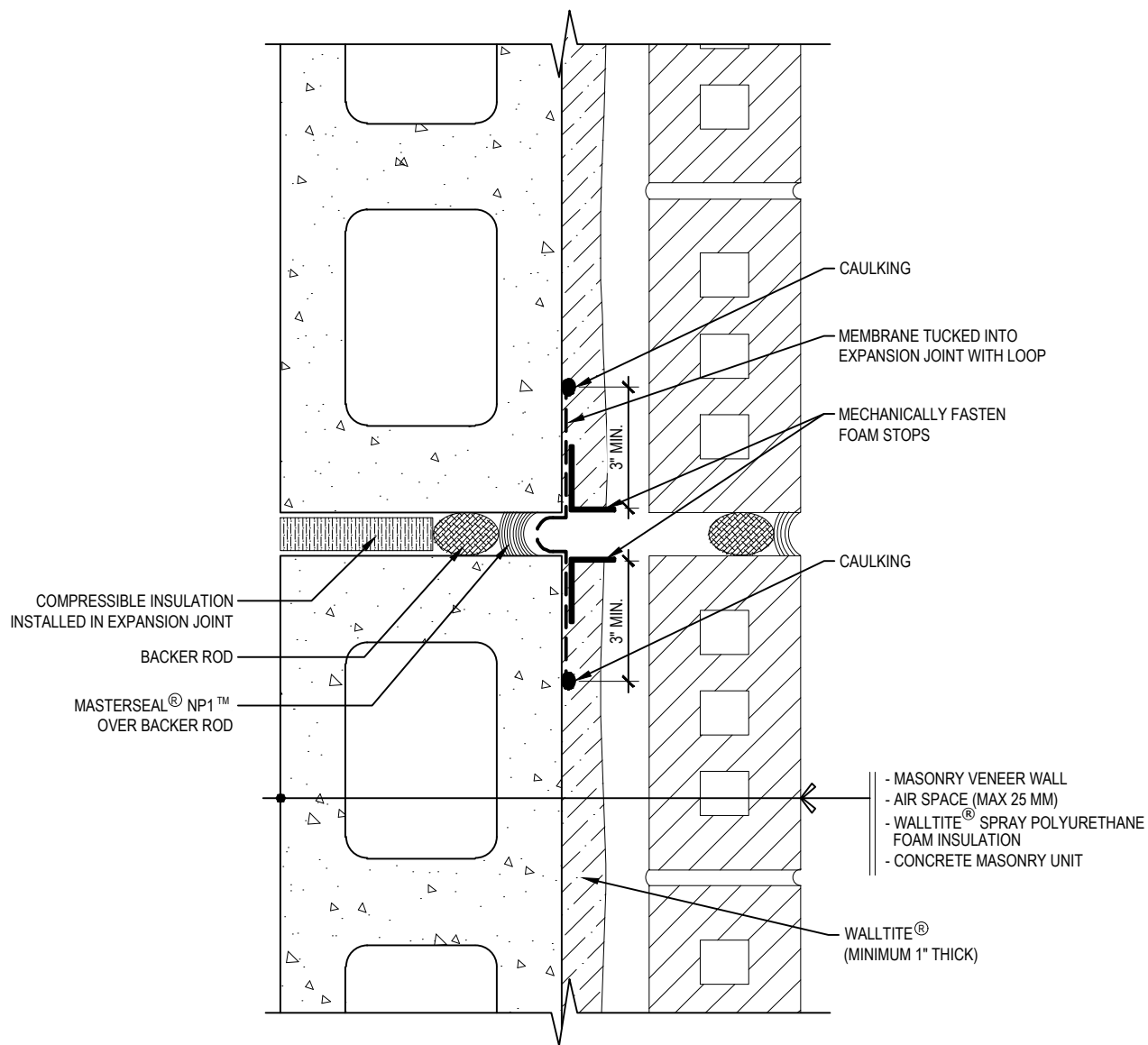


PENETRATION - 3D DETAIL

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-8B	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: APRIL 3, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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1
WB-9

MOVEMENT / CONTROL / EXPANSION JOINT DETAIL

WALLTITE® AIR BARRIER SYSTEM,
CONCRETE BLOCK ASSEMBLY

BASF
We create chemistry

Drawing Number: WB-9	Scale: 3/4" = 1'-0"	Project no: M18 704	Date: OCTOBER 24, 2019	Designed by: C.J. & A.M.	Drawn by: C.C	Checked by: F.D.
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