

Wood Frame Construction up to 4 Storeys: Heavyweight Cladding.

Intended Use of this Document

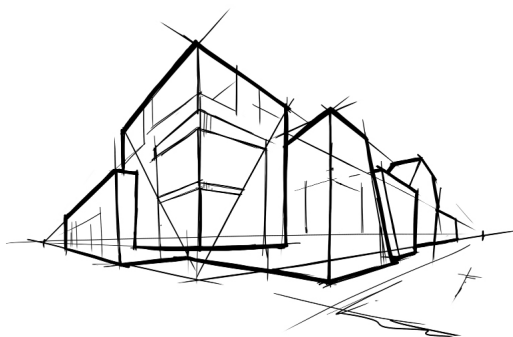
This document provides example key assembly interface details showing the use of ROCKWOOL™ products within a split-insulated wall assembly for commercial buildings up to 4 stories.

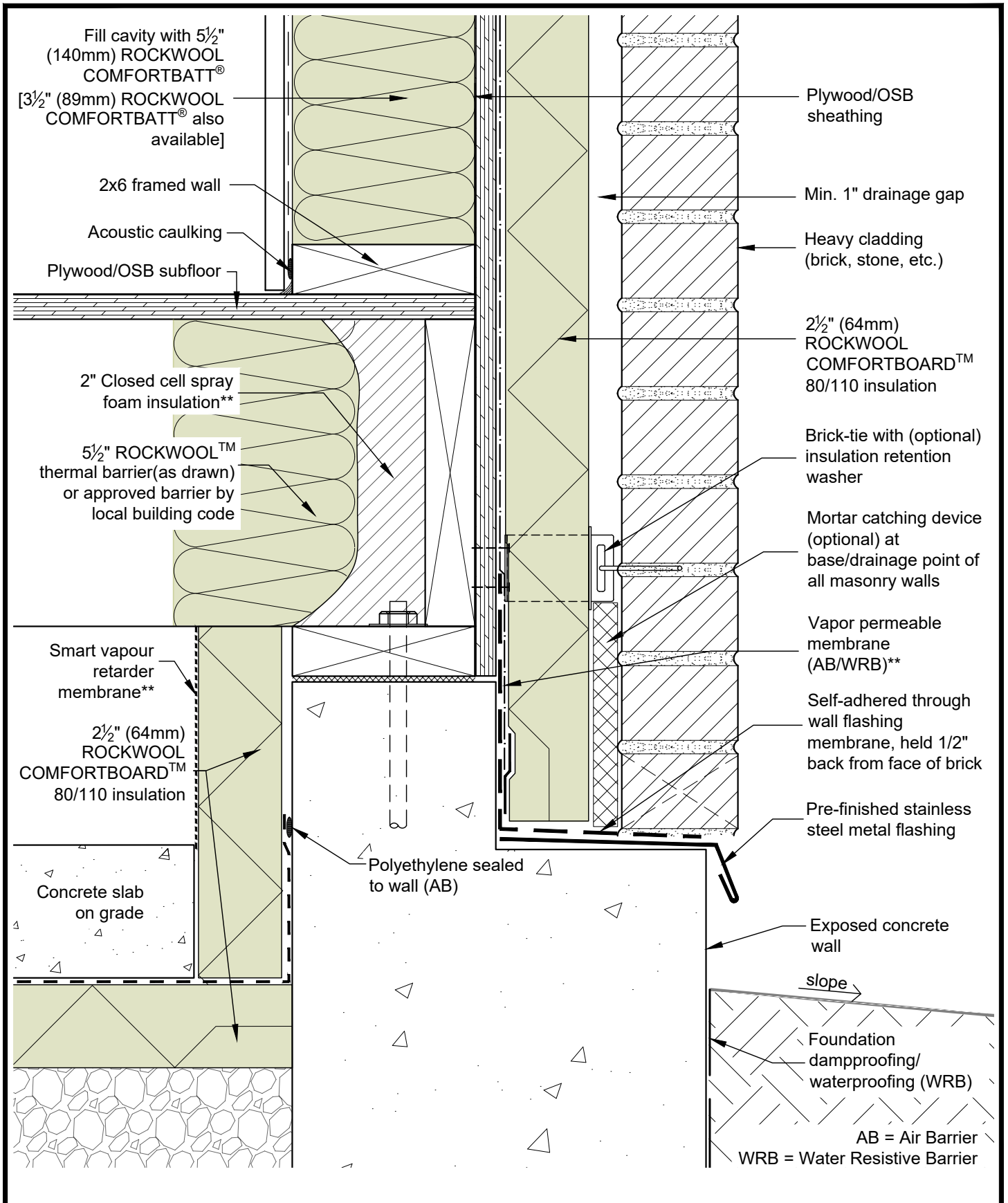
The example details could be modified for other building types or applications. The intended use has been limited to 4 stories for the sole purpose of creating boundaries around the detail development. The example details are designed to be generally applicable across North America; however, specific end use applications vary widely as to design, materials, and environments. Therefore, what is appropriate in any specific end use application is a determination that must be made independently by the experienced Project Architect and/or Engineer in their own professional judgment. ROCKWOOL™ fully disclaims any liability for any of the content contained herein whether such liability be premised on a theory of contract, tort, or otherwise.

These example details are intended to provide architects, builders, and contractors with general guidance on the best practice approach to maintain:

- Air barrier continuity,
- Water resistant barrier (moisture barrier) continuity,
- Thermal continuity and minimizing thermal bridges,
- Cladding attachment and detailing, and
- Adequate drainage and ventilation of the wall cavity.

It is important to note these details show one method of constructing a split-insulated, exterior air barrier wall assembly; however, subtle changes at interface locations could be made to achieve the same intent. Review the building code requirements for your jurisdiction to ensure that all wall assembly detailing is in general conformance, or contact ROCKWOOL™ Building Science Support for support on your project.





**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



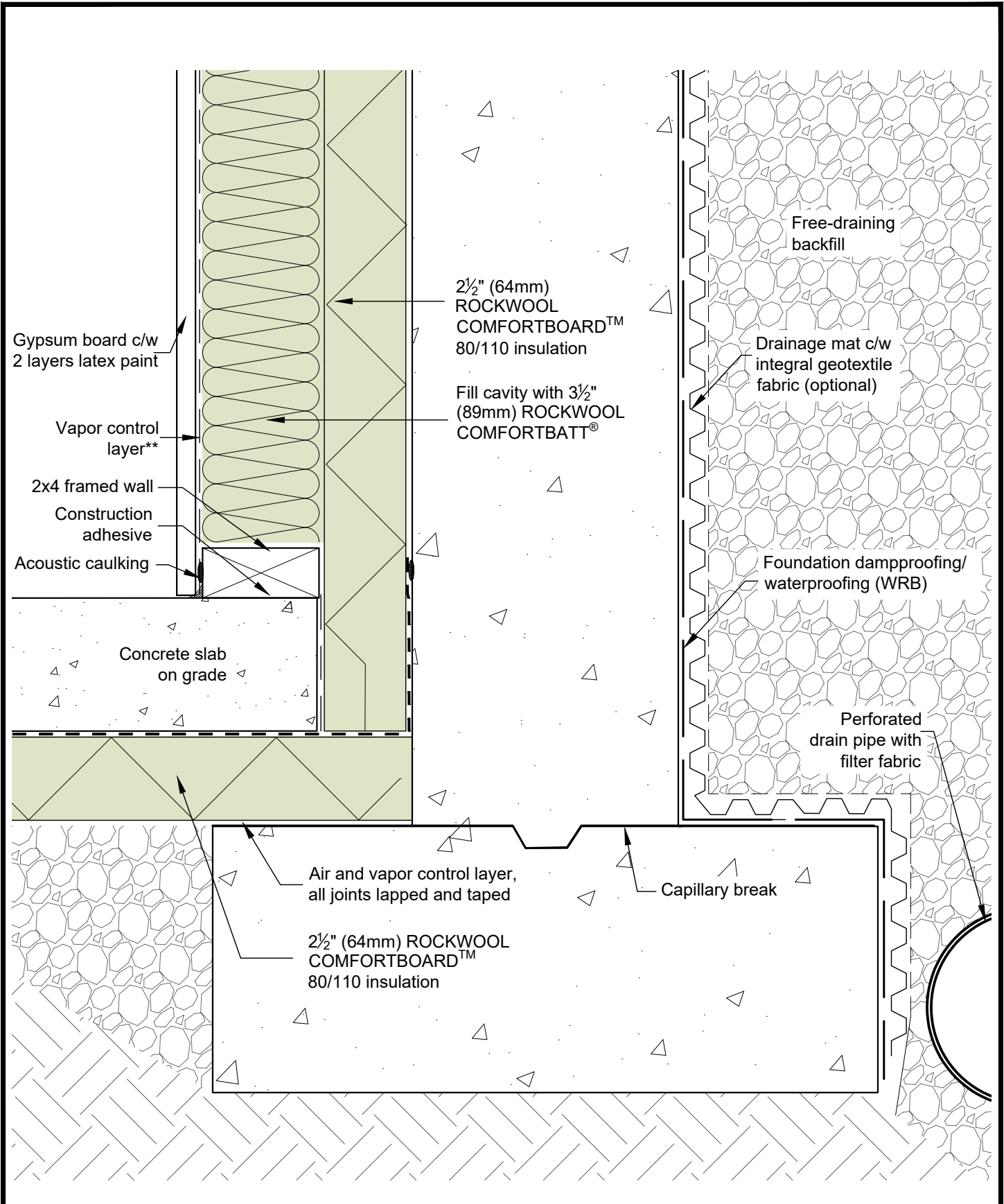
DRAWING TITLE: **TYPICAL WALL AT FOUNDATION WALL (CRAWLSPACE)**

DRAWING NO.: **Detail 01**
 SCALE: 3" = 1'-0"
 DATE: JUNE 2020

June 11 2020 4:47 PM

* For thermal performance of ROCKWOOL™ products, please refer to ROCKWOOL™ technical data sheets

** For climate zone specific considerations for thermal, air and vapor control layer properties and requirements, please contact ROCKWOOL™ Building Science for support.



**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**

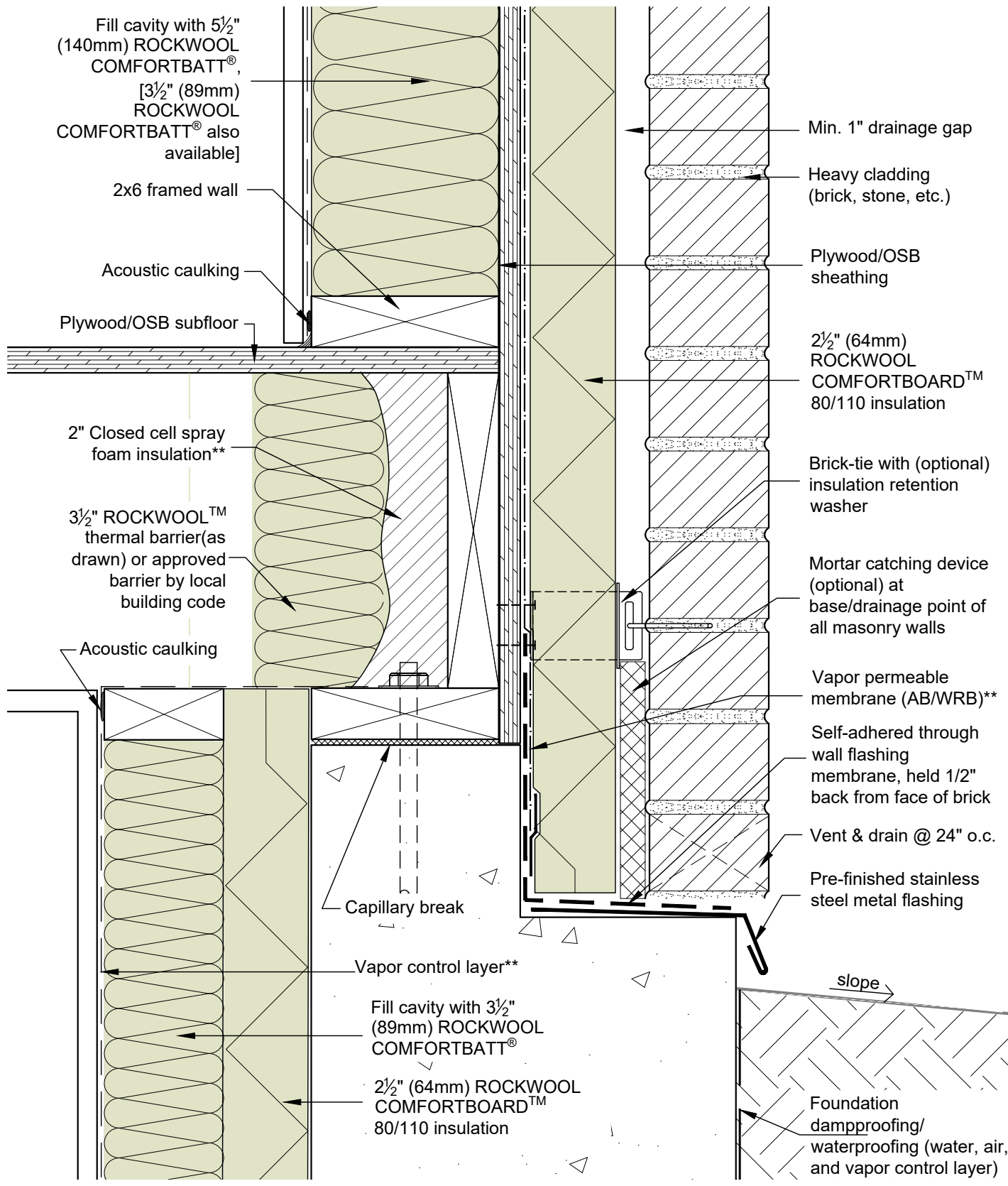


DRAWING TITLE: **FOUNDATION WALL AT FOOTING (BASEMENT)**

DRAWING NO.: **Detail 02**
SCALE: 3" = 1'-0"
DATE: JUNE 2020

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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



DRAWING
TITLE:

TYPICAL WALL AT FOUNDATION WALL

DRAWING NO.:

Detail 03

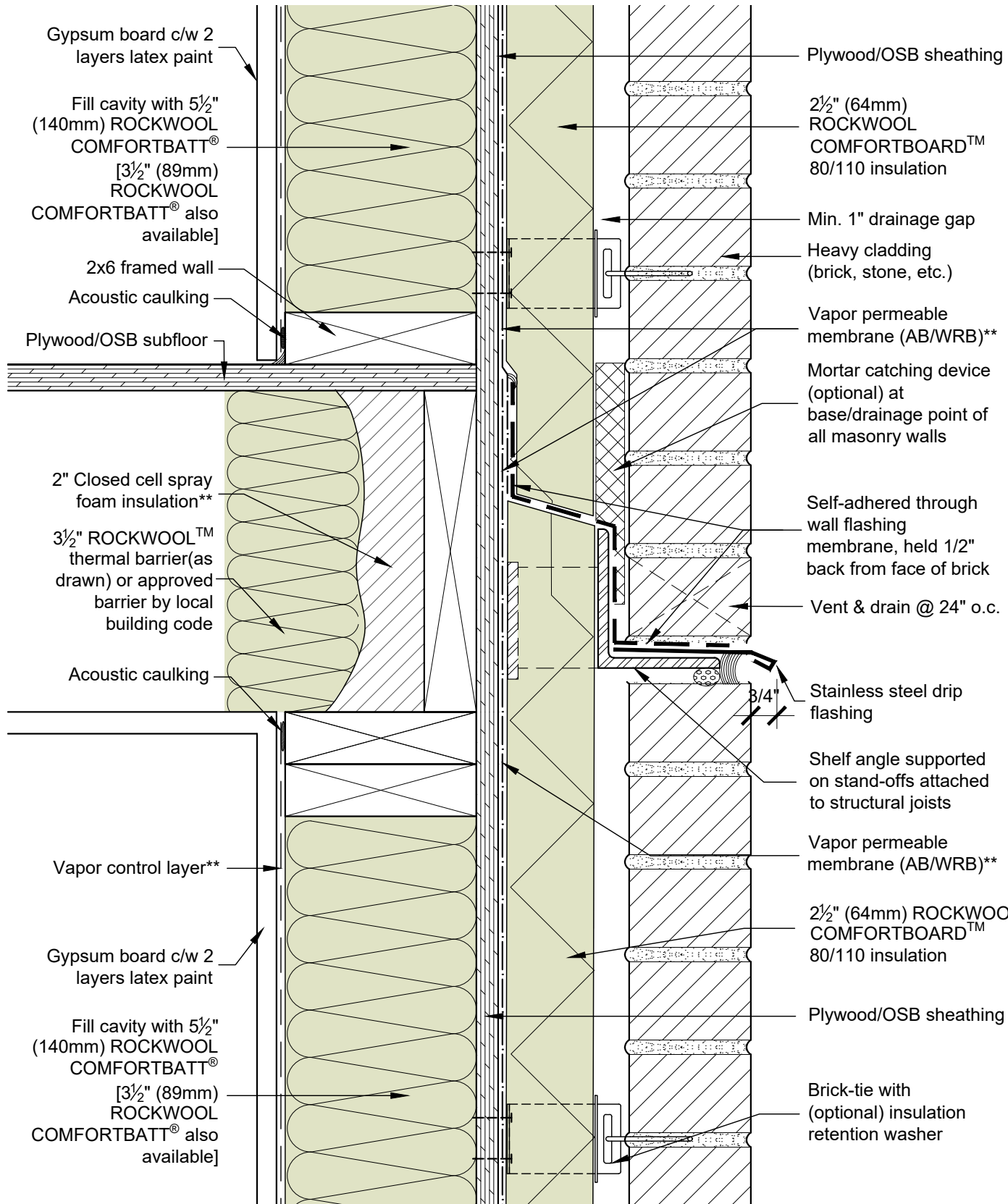
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June 11 2020 4:47 PM

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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



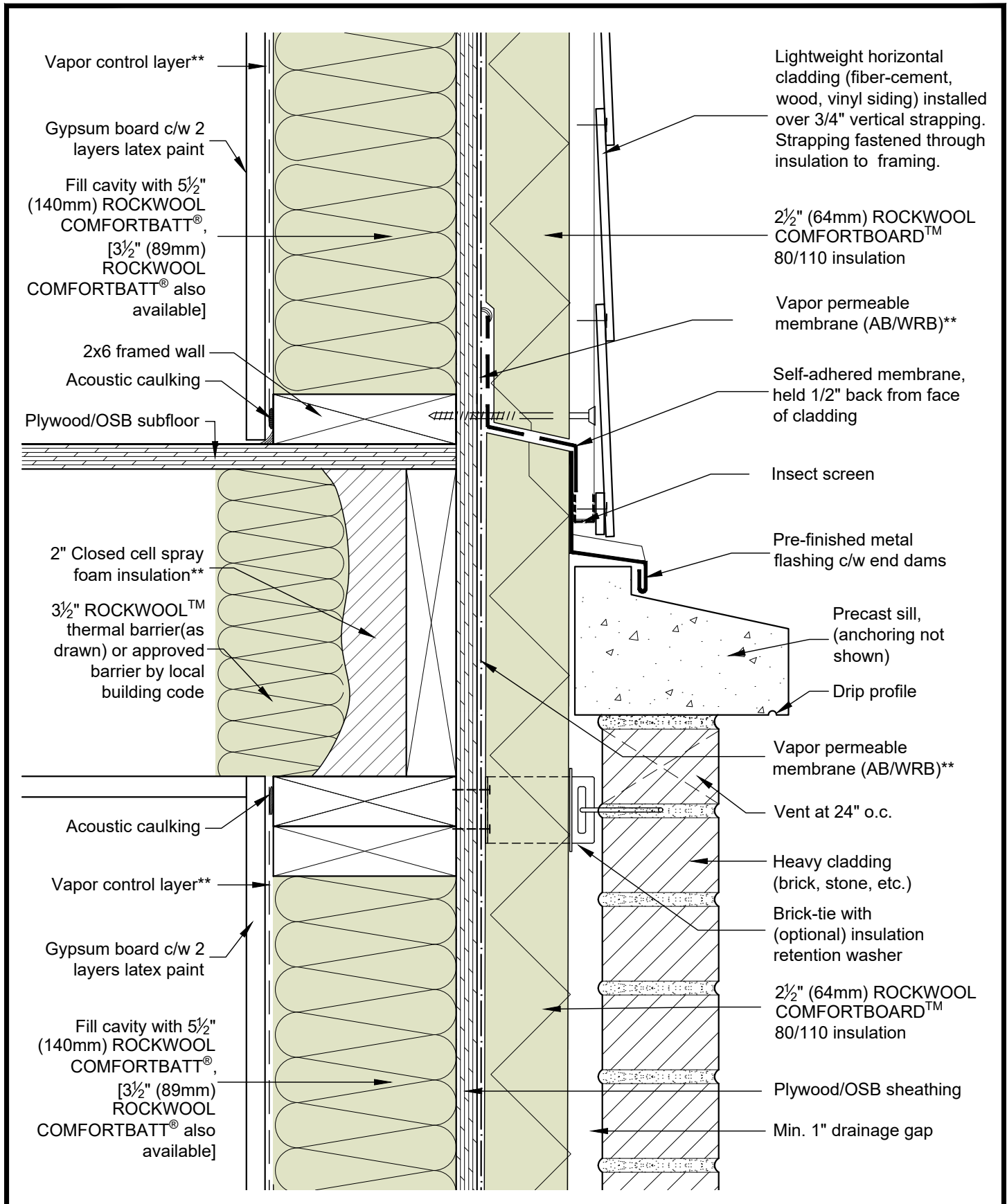
DRAWING TITLE: **TYPICAL WALL AT FLOOR**

DRAWING NO.: **Detail 04**
 SCALE: 3" = 1'-0"
 DATE: JUNE 2020

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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



DRAWING
TITLE:

TYPICAL MASONRY TO CLADDING TRANSITION

DRAWING NO.:

Detail 05

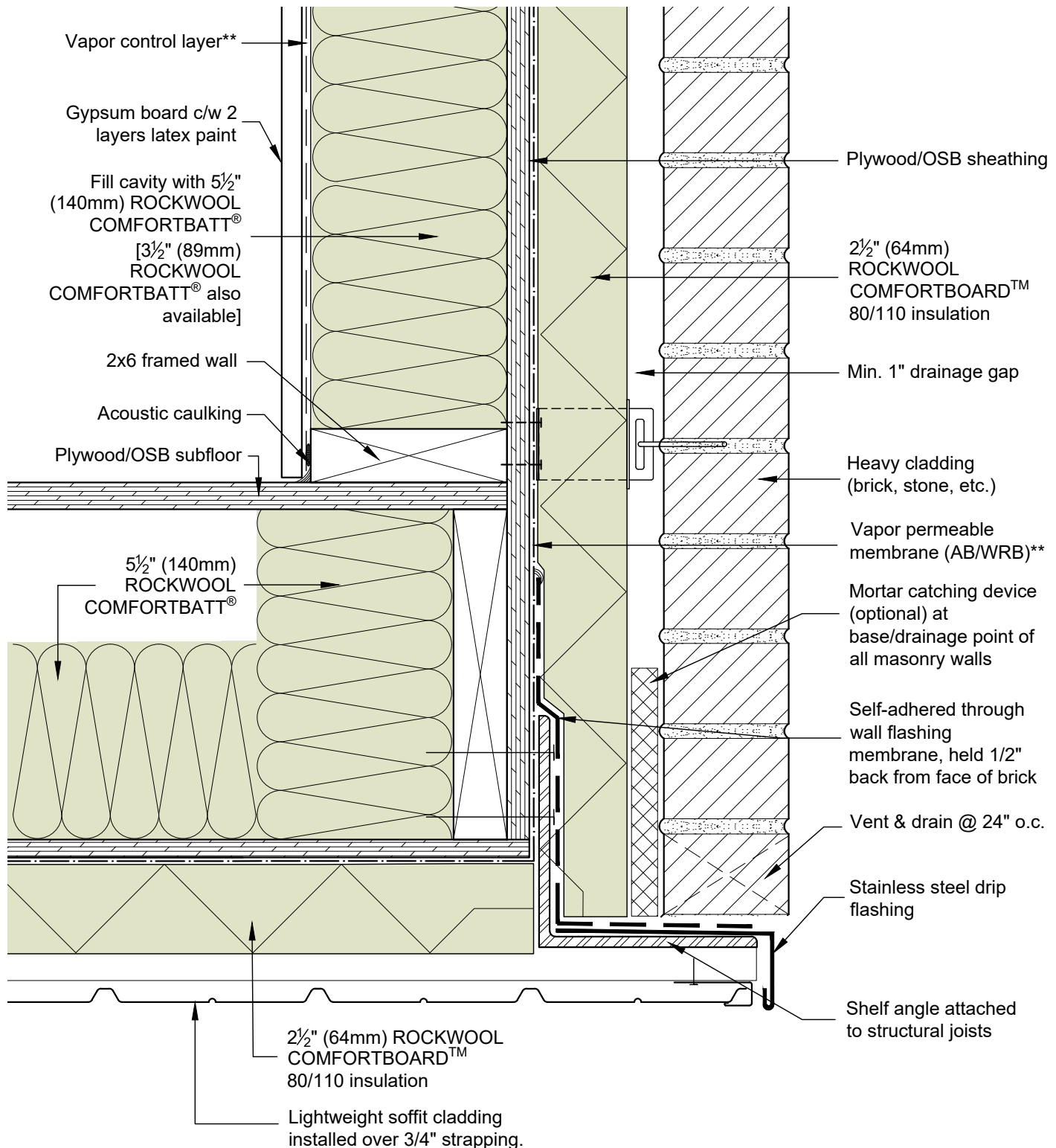
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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



DRAWING TITLE:

TYPICAL WALL AT CANTILEVERED FLOOR

DRAWING NO.:

Detail 06

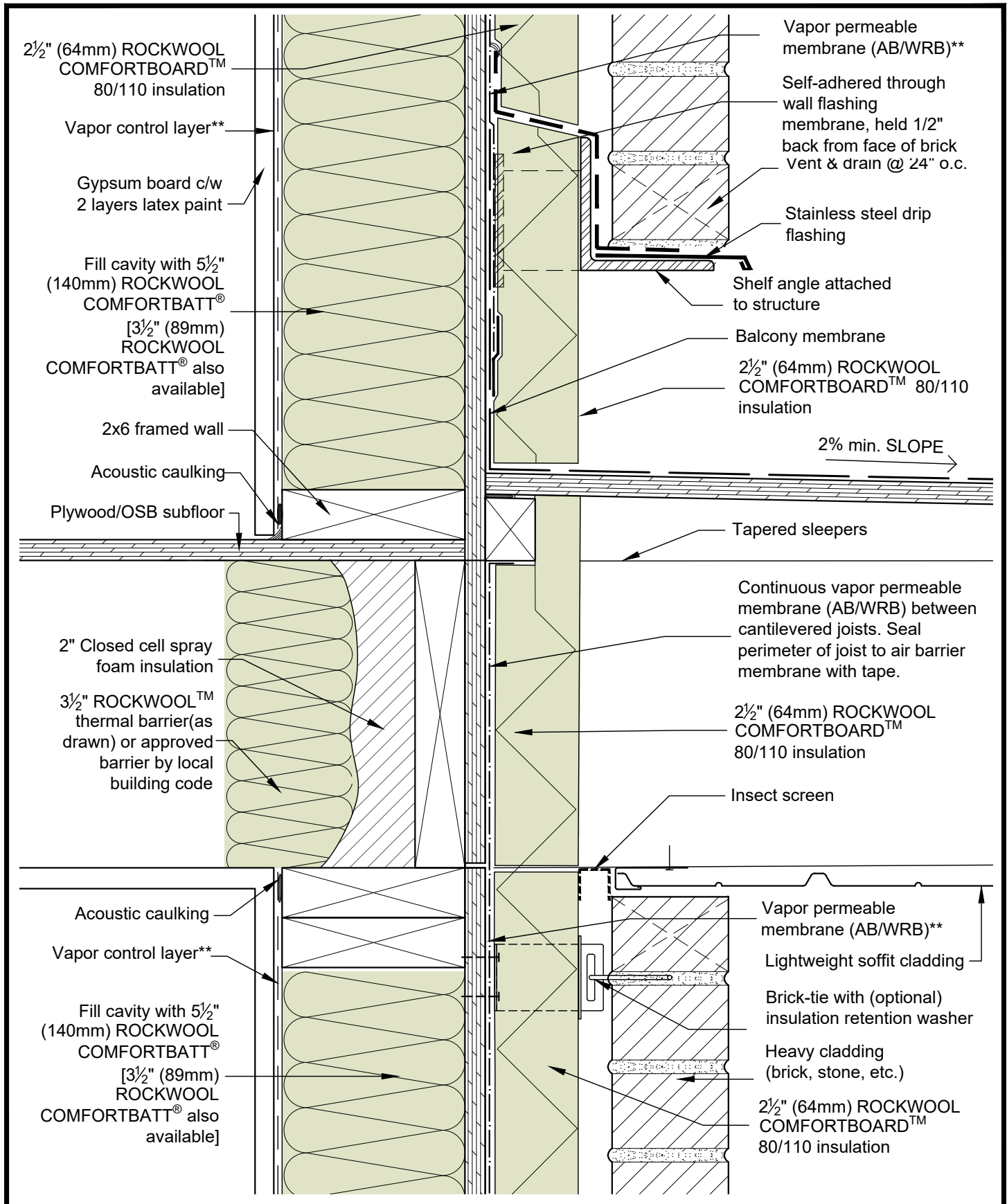
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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



DRAWING
TITLE:

TYPICAL WALL AT CANTILEVERED BALCONY

DRAWING NO.:

Detail 07

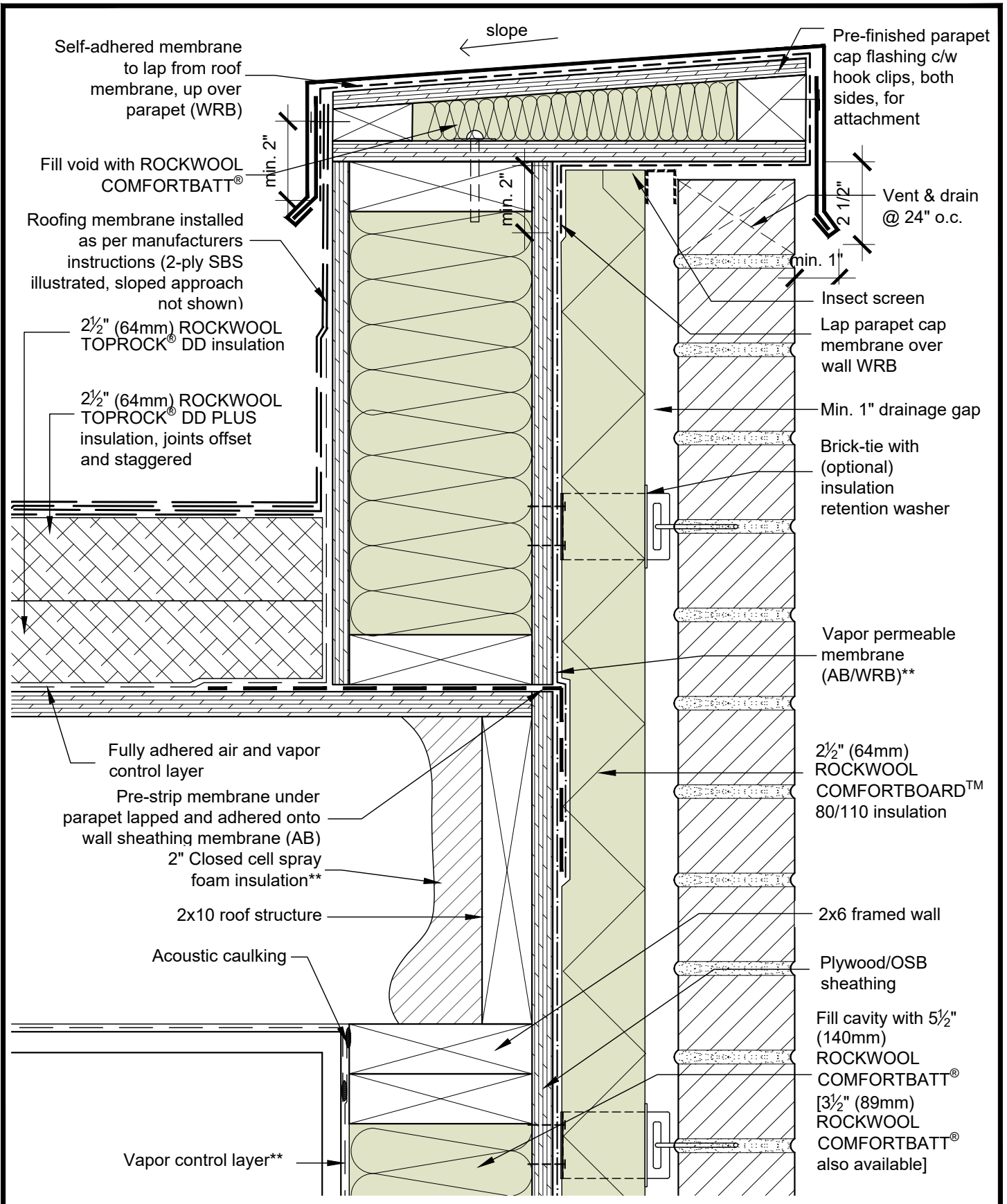
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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



DRAWING
TITLE:

TYPICAL ROOF PARAPET AT LOW SLOPE ROOF

DRAWING NO.:

Detail 08

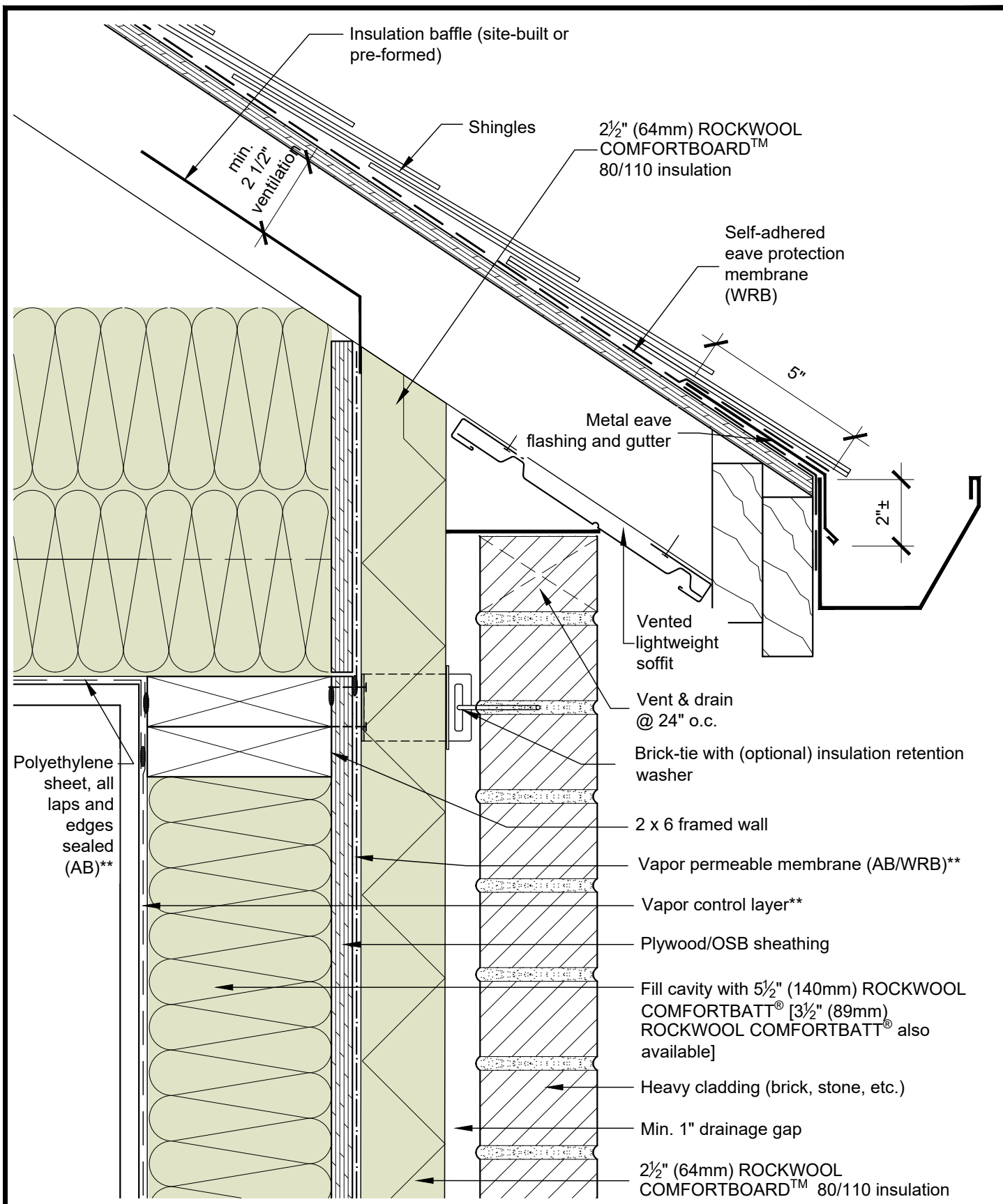
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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



DRAWING
TITLE:

TYPICAL SLOPE ROOF (ATTIC) AT EAVE

DRAWING NO.:

Detail 09

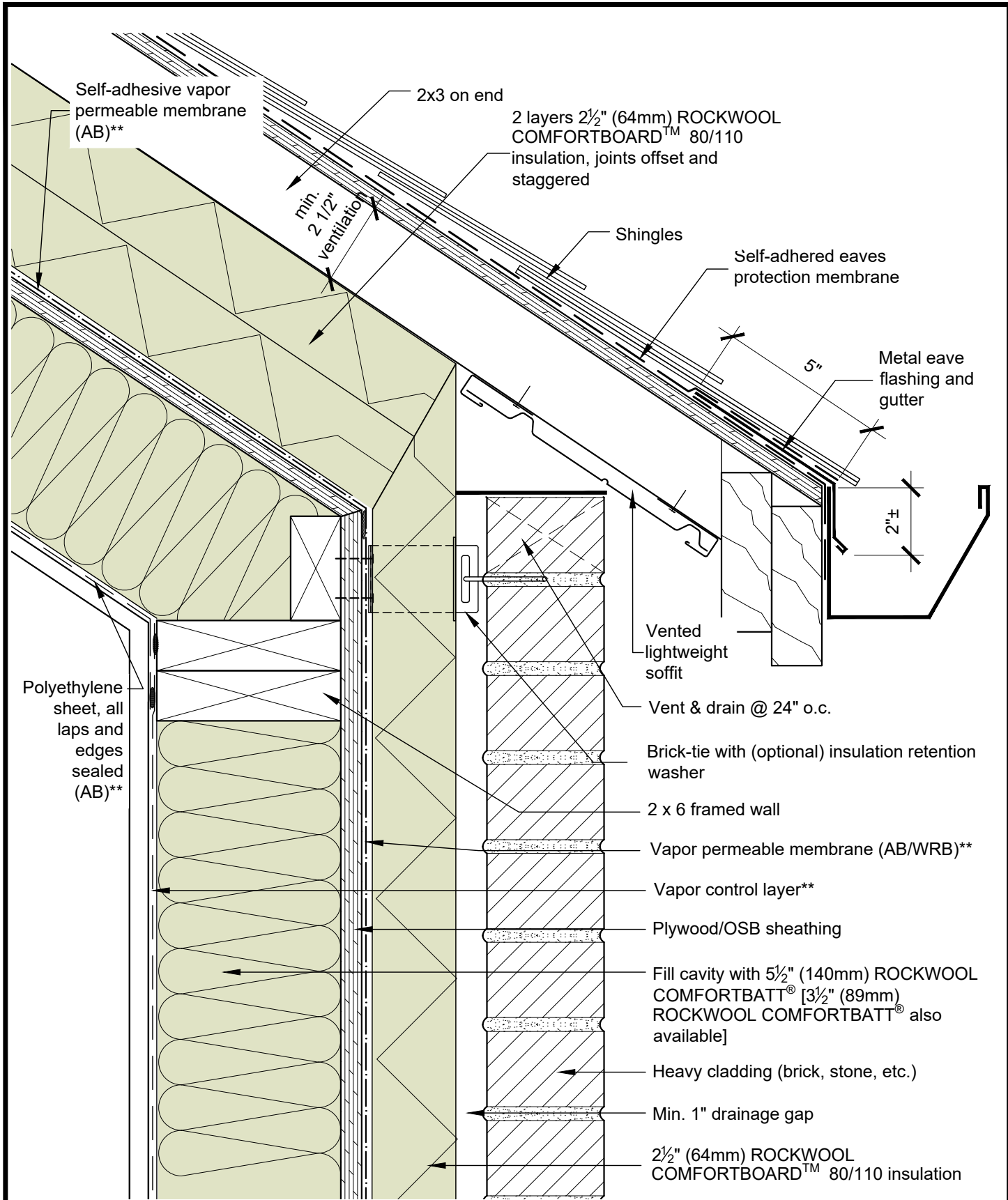
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DATE: JUNE 2020

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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



DRAWING
TITLE:

TYPICAL SLOPE ROOF (CATHEDRAL) AT EAVE

DRAWING NO.:

Detail 10

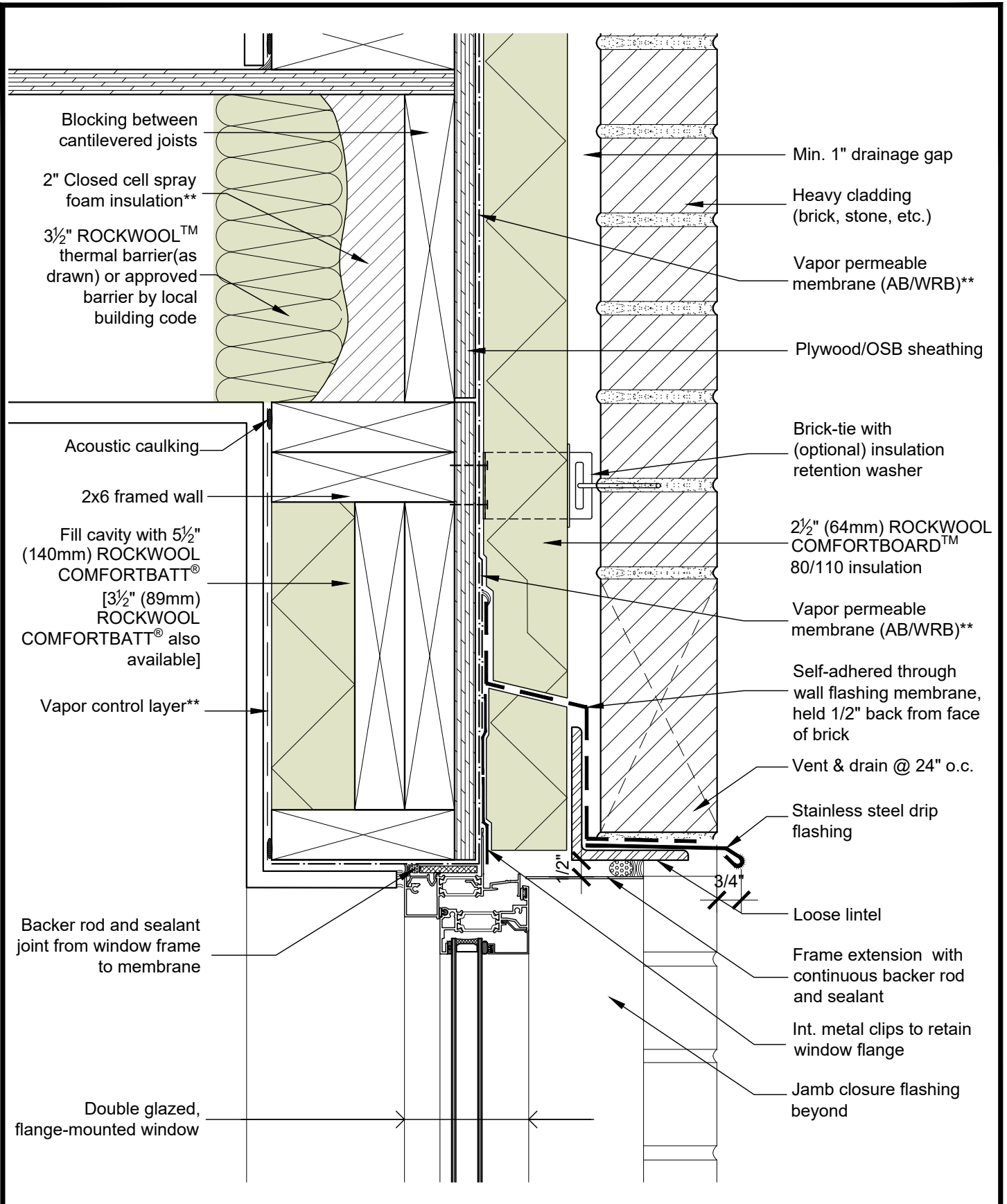
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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



DRAWING
TITLE:

TYPICAL FLANGE-MOUNTED WINDOW HEAD

DRAWING NO.:

Detail 11

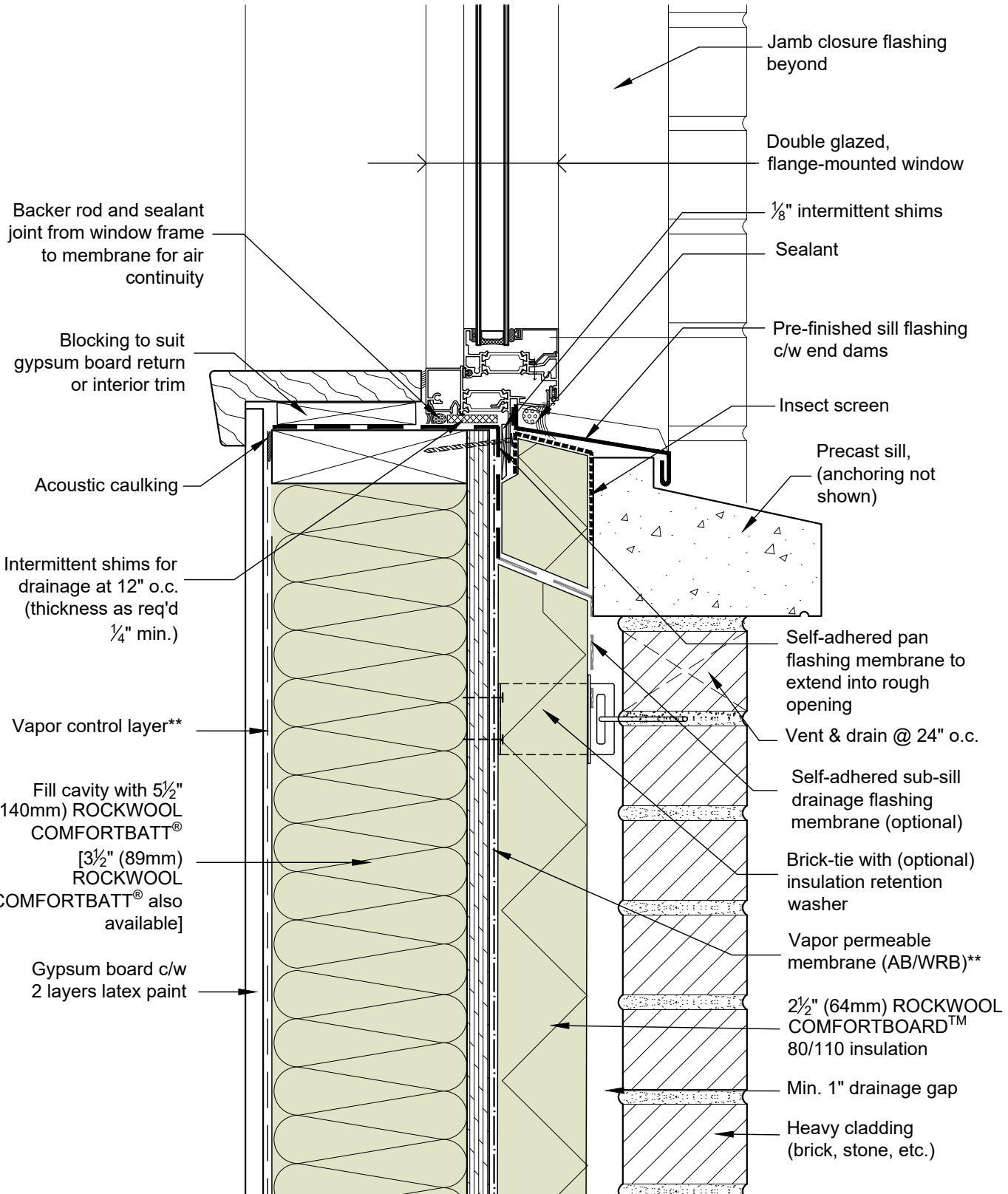
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Backer rod and sealant joint from window frame to membrane for air continuity

Blocking to suit gypsum board return or interior trim

Acoustic caulking

Intermittent shims for drainage at 12" o.c. (thickness as req'd 1/4" min.)

Vapor control layer**

Fill cavity with 5 1/2" (140mm) ROCKWOOL COMFORTBATT® [3 1/2" (89mm) ROCKWOOL COMFORTBATT® also available]

Gypsum board c/w 2 layers latex paint

Jamb closure flashing beyond

Double glazed, flange-mounted window

1/8" intermittent shims

Sealant

Pre-finished sill flashing c/w end dams

Insect screen

Precast sill, (anchoring not shown)

Self-adhered pan flashing membrane to extend into rough opening

Vent & drain @ 24" o.c.

Self-adhered sub-sill drainage flashing membrane (optional)

Brick-tie with (optional) insulation retention washer

Vapor permeable membrane (AB/WRB)**

2 1/2" (64mm) ROCKWOOL COMFORTBOARD™ 80/110 insulation

Min. 1" drainage gap

Heavy cladding (brick, stone, etc.)

**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



DRAWING TITLE:

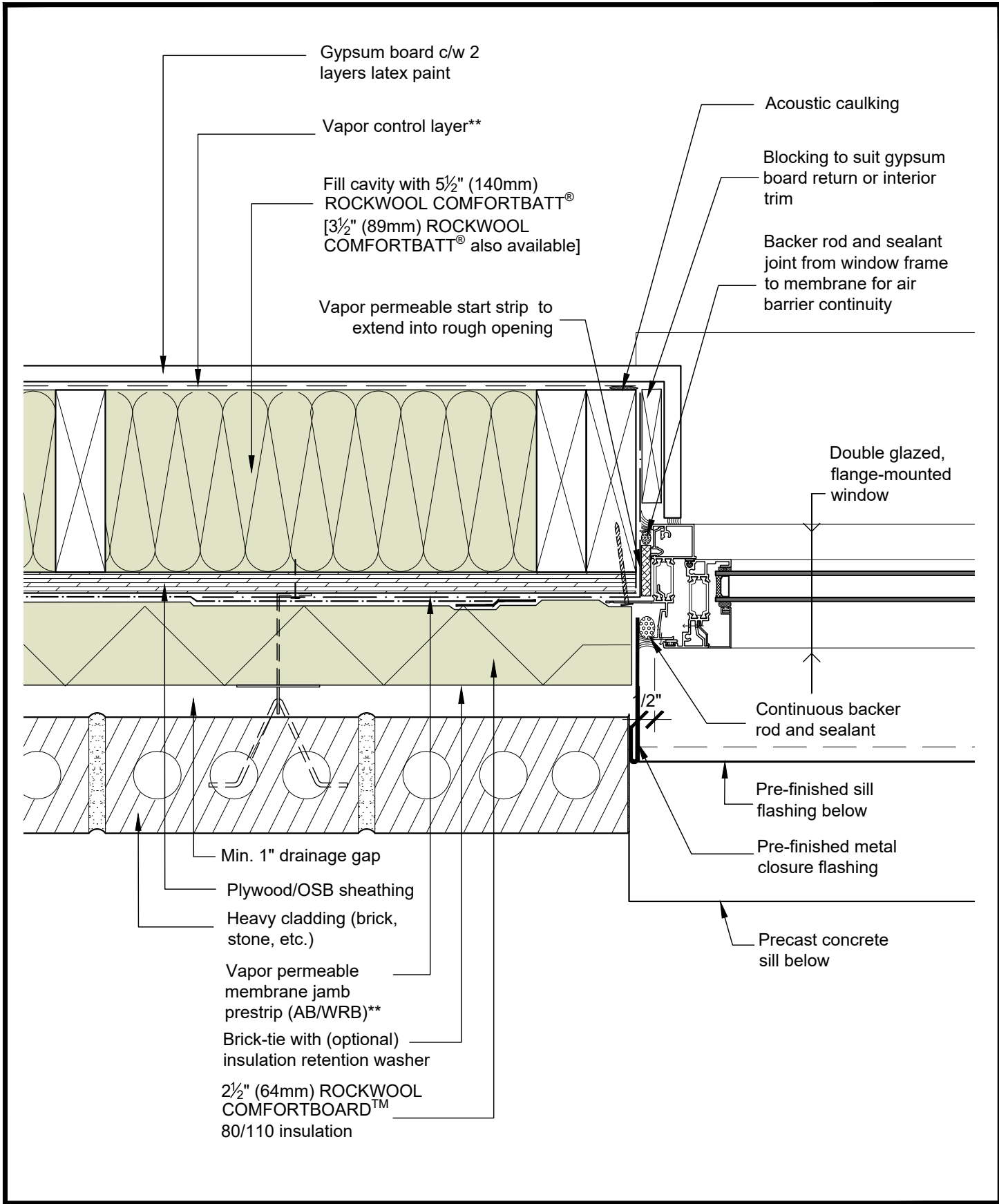
TYPICAL FLANGE-MOUNTED WINDOW SILL

DRAWING NO.:
Detail 12

SCALE: 3" = 1'-0"
DATE: JUNE 2020

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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
- HEAVYWEIGHT CLADDING**



DRAWING
TITLE:

TYPICAL FLANGE-MOUNTED WINDOW JAMB

DRAWING NO.:

Detail 13

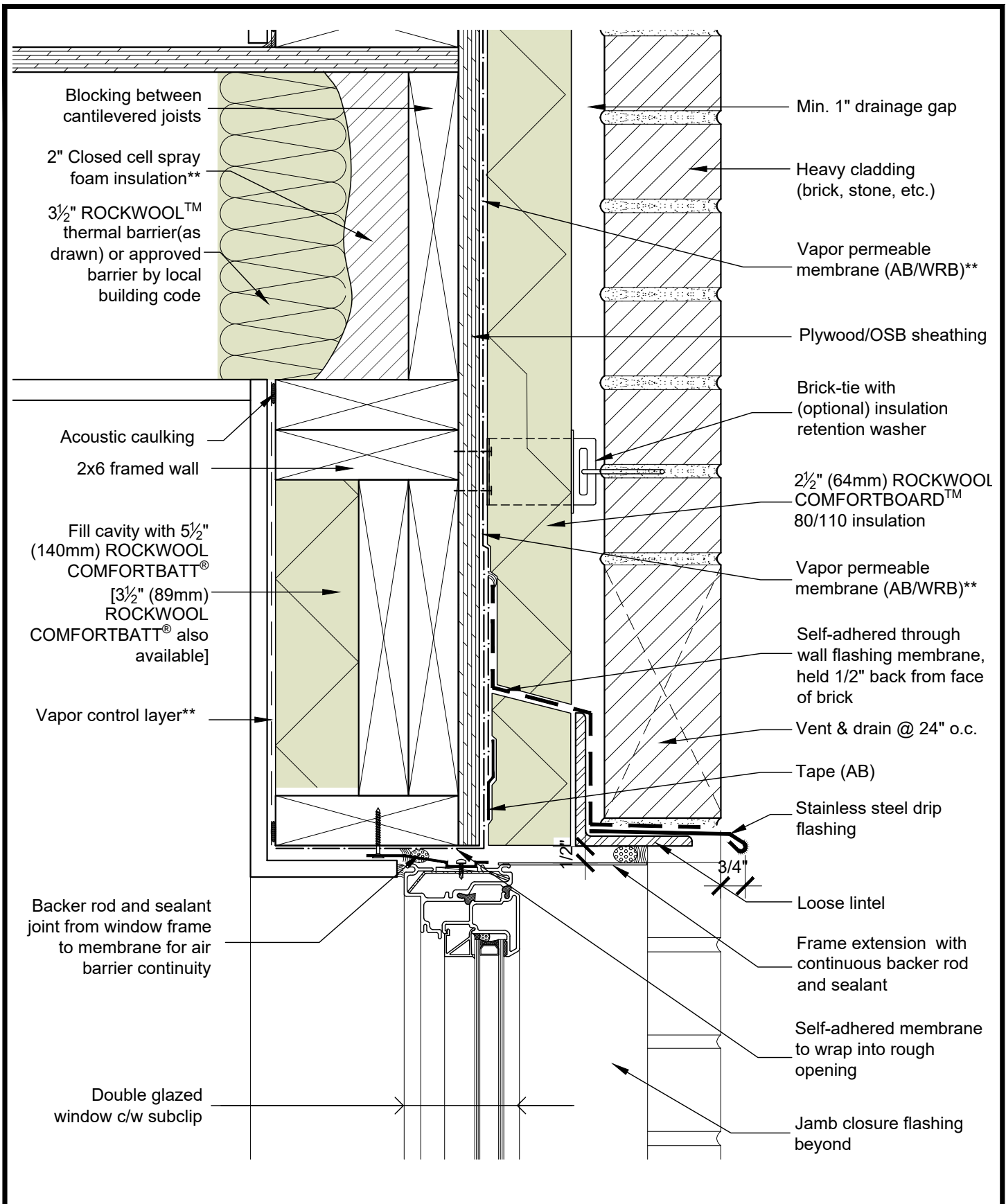
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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
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DRAWING
TITLE:

TYPICAL FLANGELESS WINDOW HEAD

DRAWING NO.:

Detail 14

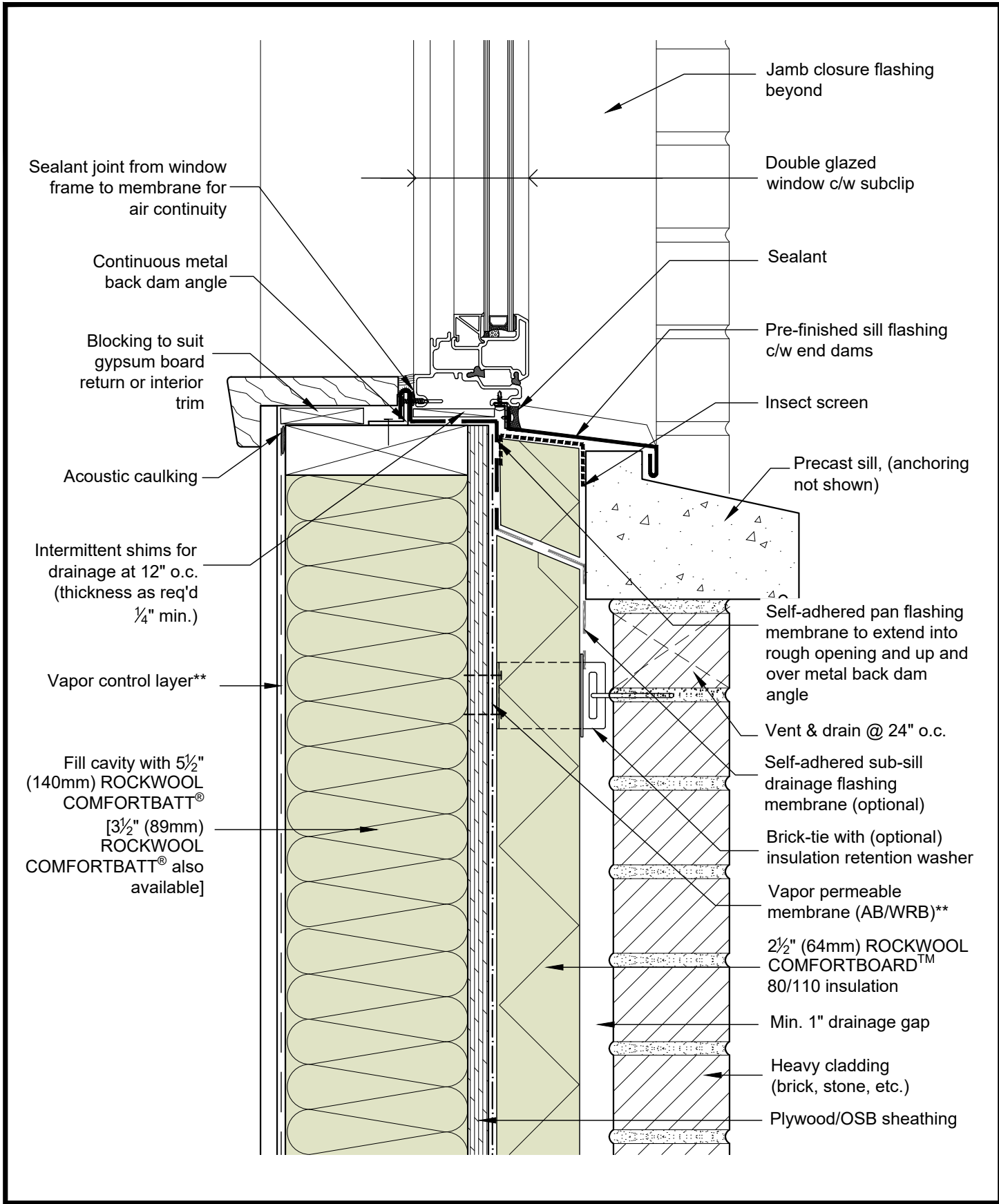
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**WOOD FRAME CONSTRUCTION UP TO 4 STOREYS
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DRAWING
TITLE:

TYPICAL FLANGELESS WINDOW SILL

DRAWING NO.:

Detail 15

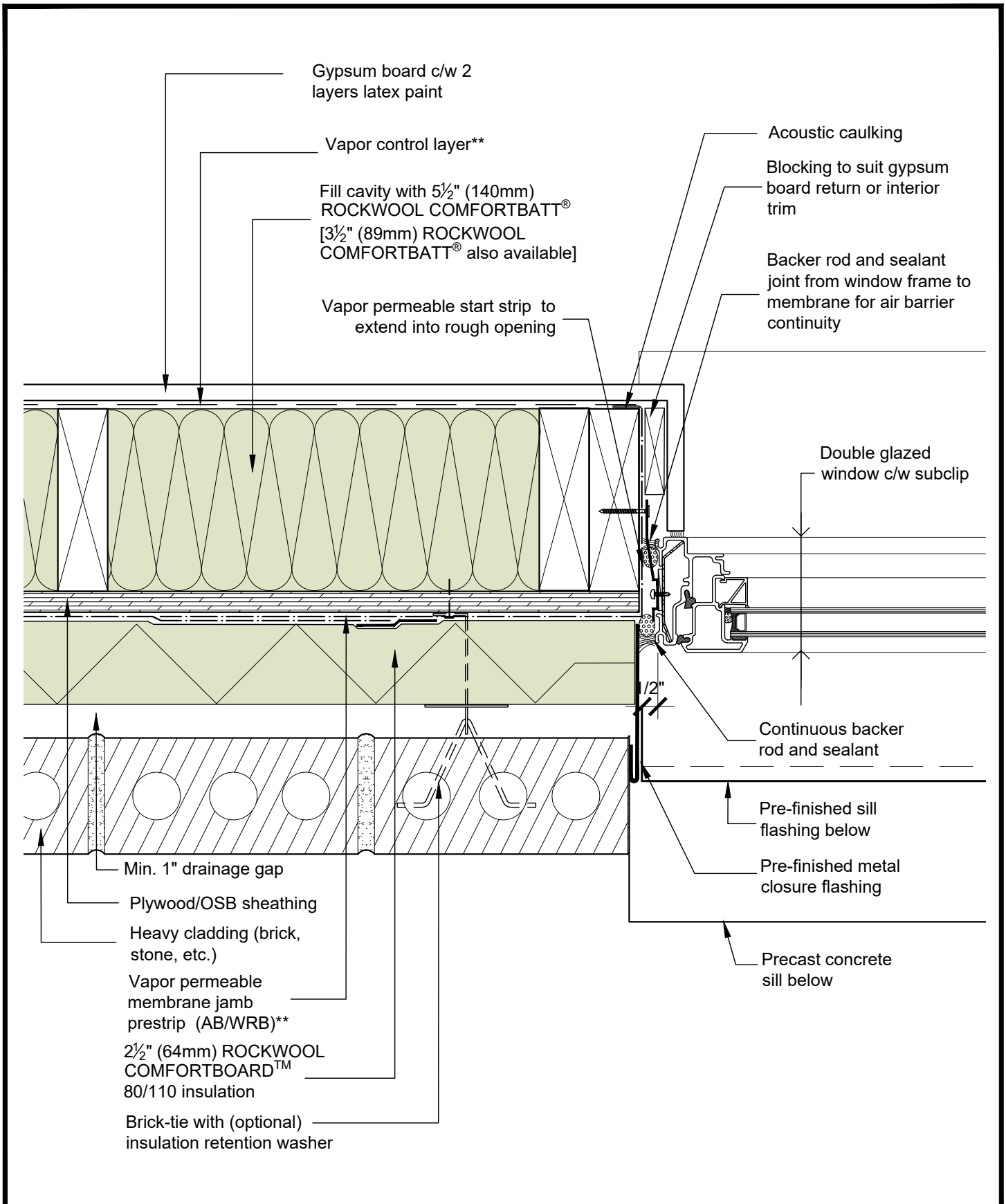
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DRAWING
TITLE:

TYPICAL FLANGELESS WINDOW JAMB

DRAWING NO.:

Detail 16

SCALE: 3" = 1'-0"

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