

Commercial Steel Frame Construction up to 4 Storeys: Heavyweight Cladding.

Intended Use of this Document

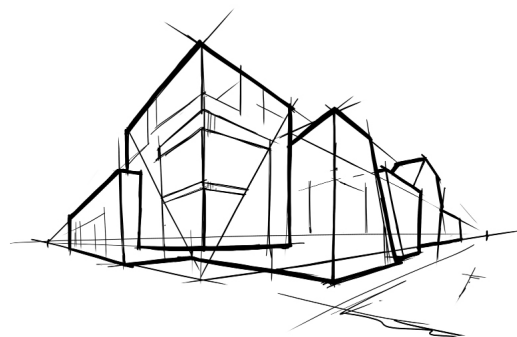
This document provides example key assembly interface details showing the use of ROCKWOOL™ products within a split-insulated wall assembly for commercial buildings up to 4 stories.

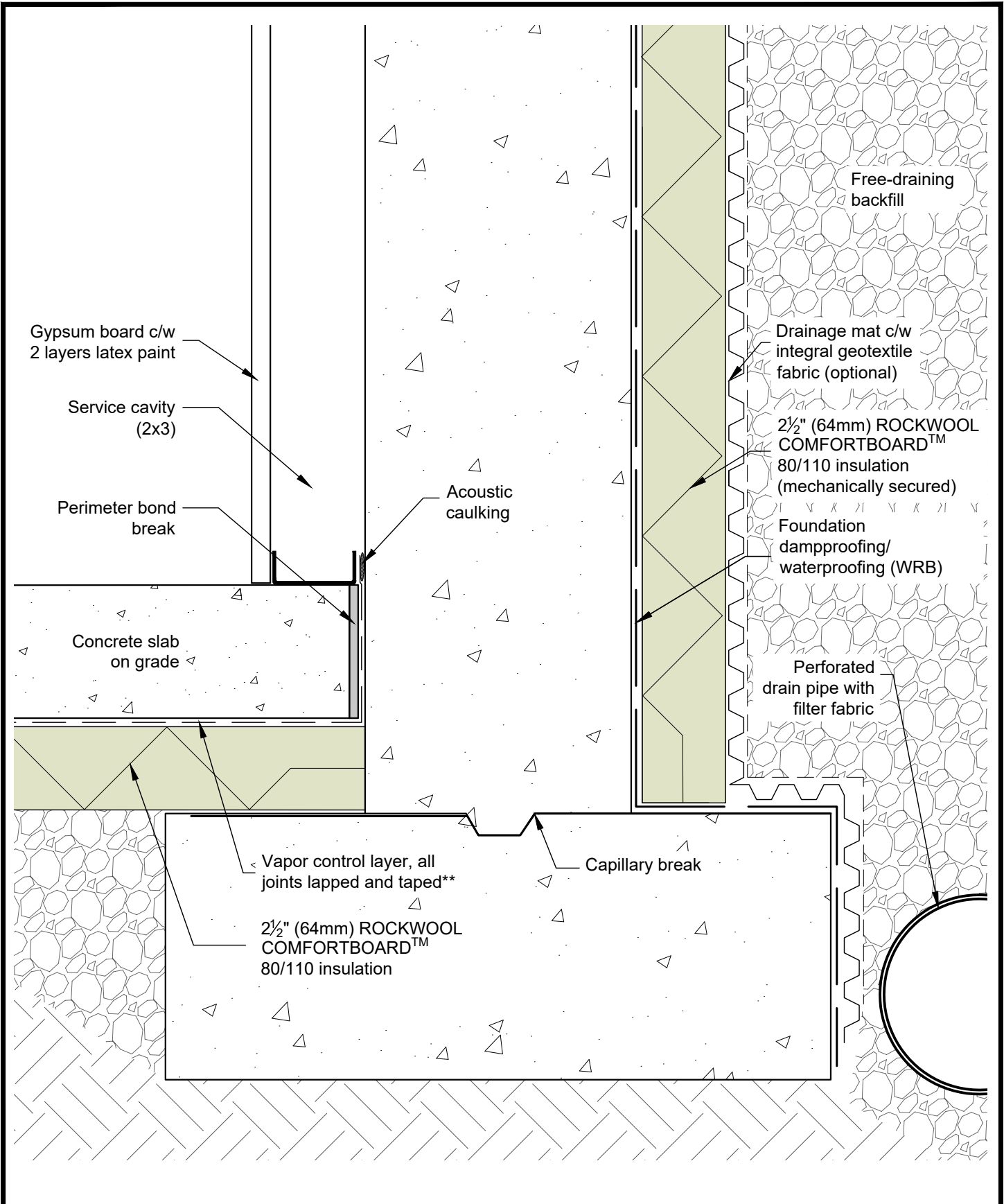
The example details could be modified for other building types or applications. The intended use has been limited to 4 stories for the sole purpose of creating boundaries around the detail development. The example details are designed to be generally applicable across North America; however, specific 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.





COMMERCIAL STEEL FRAME CONSTRUCTION UP TO 4 STOREYS - HEAVYWEIGHT CLADDING



DRAWING TITLE:

TYPICAL FOUNDATION WALL AT FOOTING

DRAWING NO.:

Detail 01

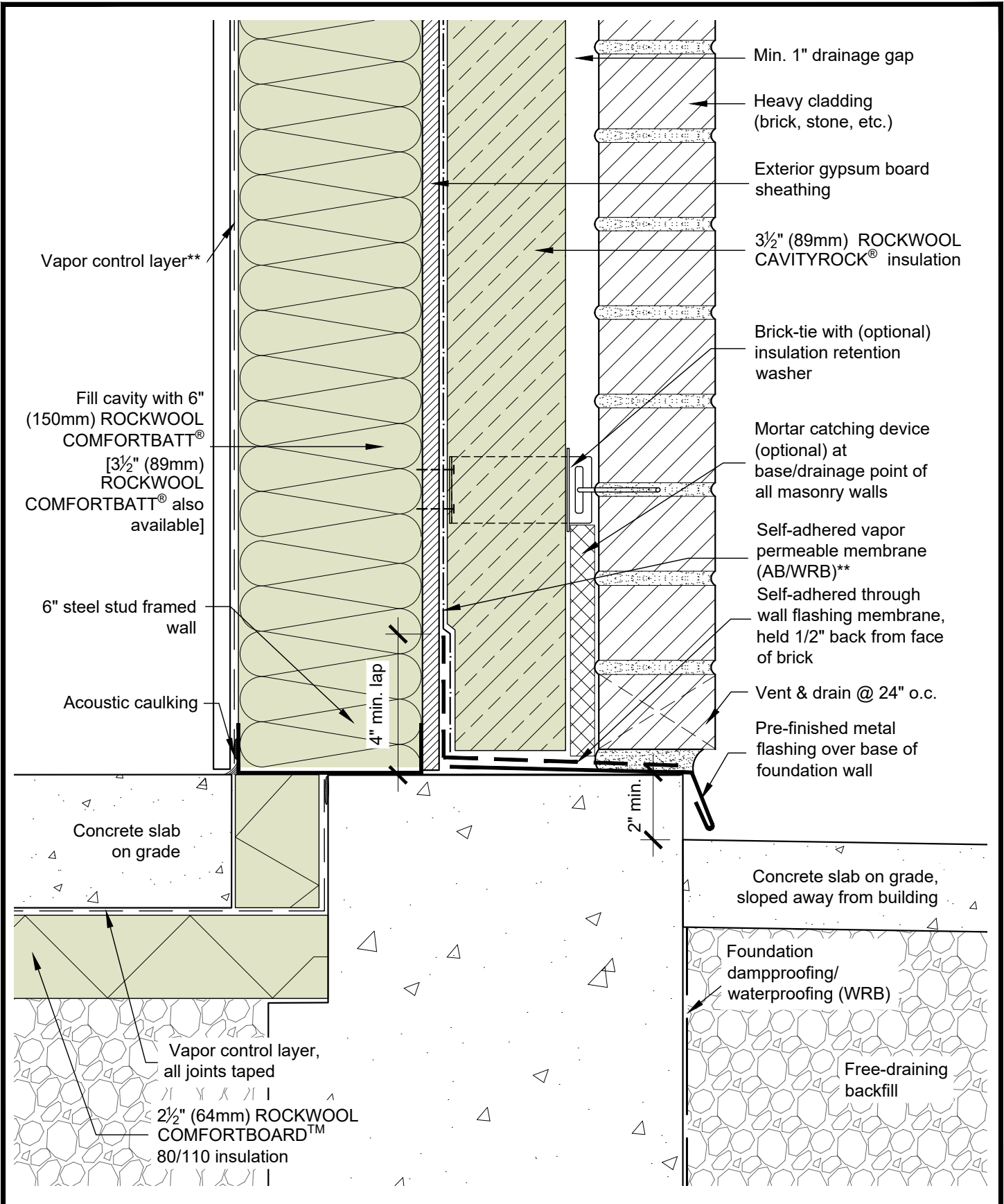
SCALE: 3" = 1'-0"

DATE: JUNE 2020

June 08 2020 6:22 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.



COMMERCIAL STEEL FRAME CONSTRUCTION UP TO 4 STOREYS - HEAVYWEIGHT CLADDING



DRAWING TITLE:

TYPICAL WALL AT SLAB-ON-GRADE

DRAWING NO.:

Detail 02

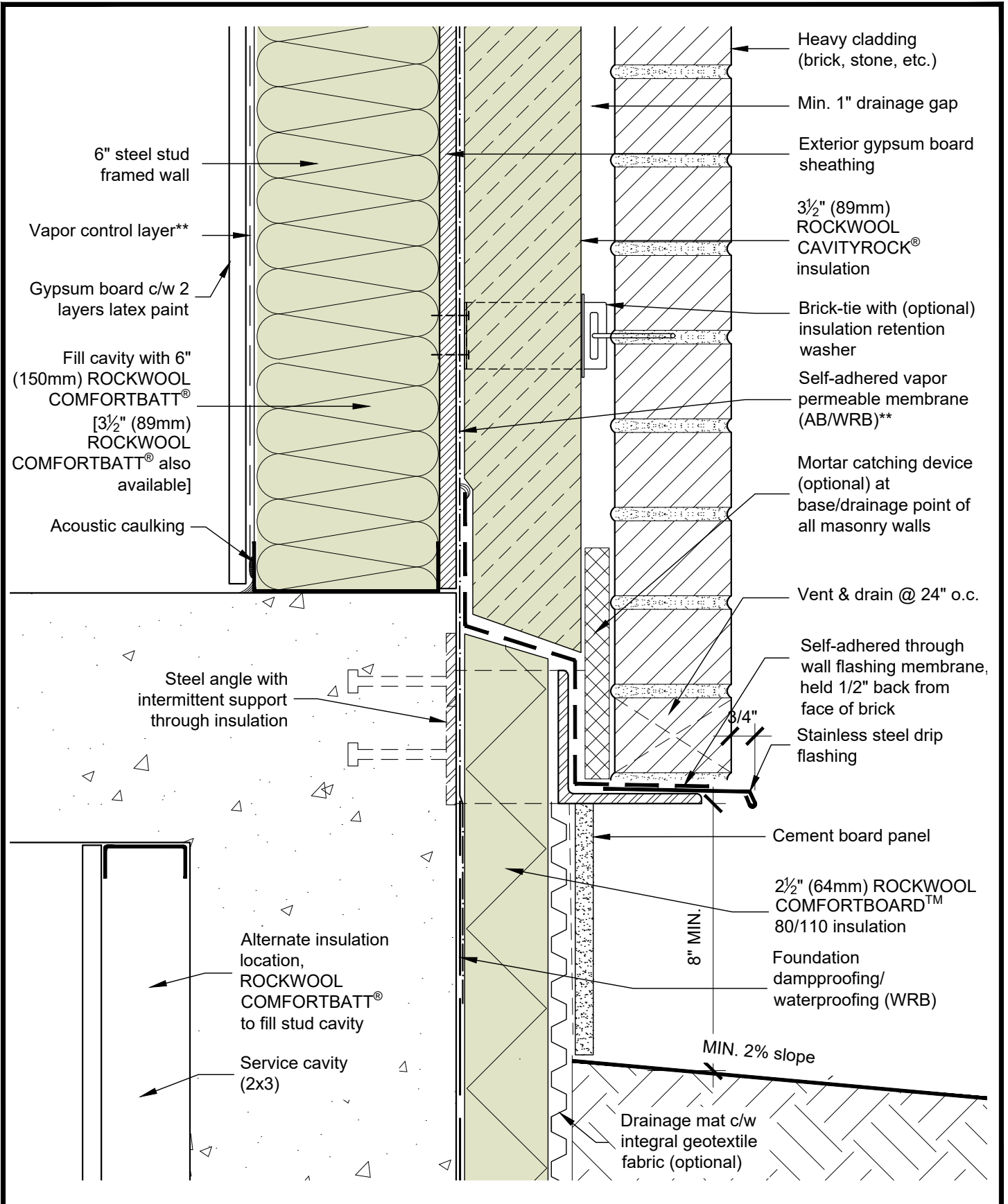
SCALE: 3" = 1'-0"

DATE: JUNE 2020

June 08 2020 6:22 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.



COMMERCIAL STEEL FRAME CONSTRUCTION UP TO 4 STOREYS - HEAVYWEIGHT CLADDING



DRAWING TITLE:

TYPICAL BASE OF BRICK WALL AT FOUNDATION

DRAWING NO.:

Detail 03

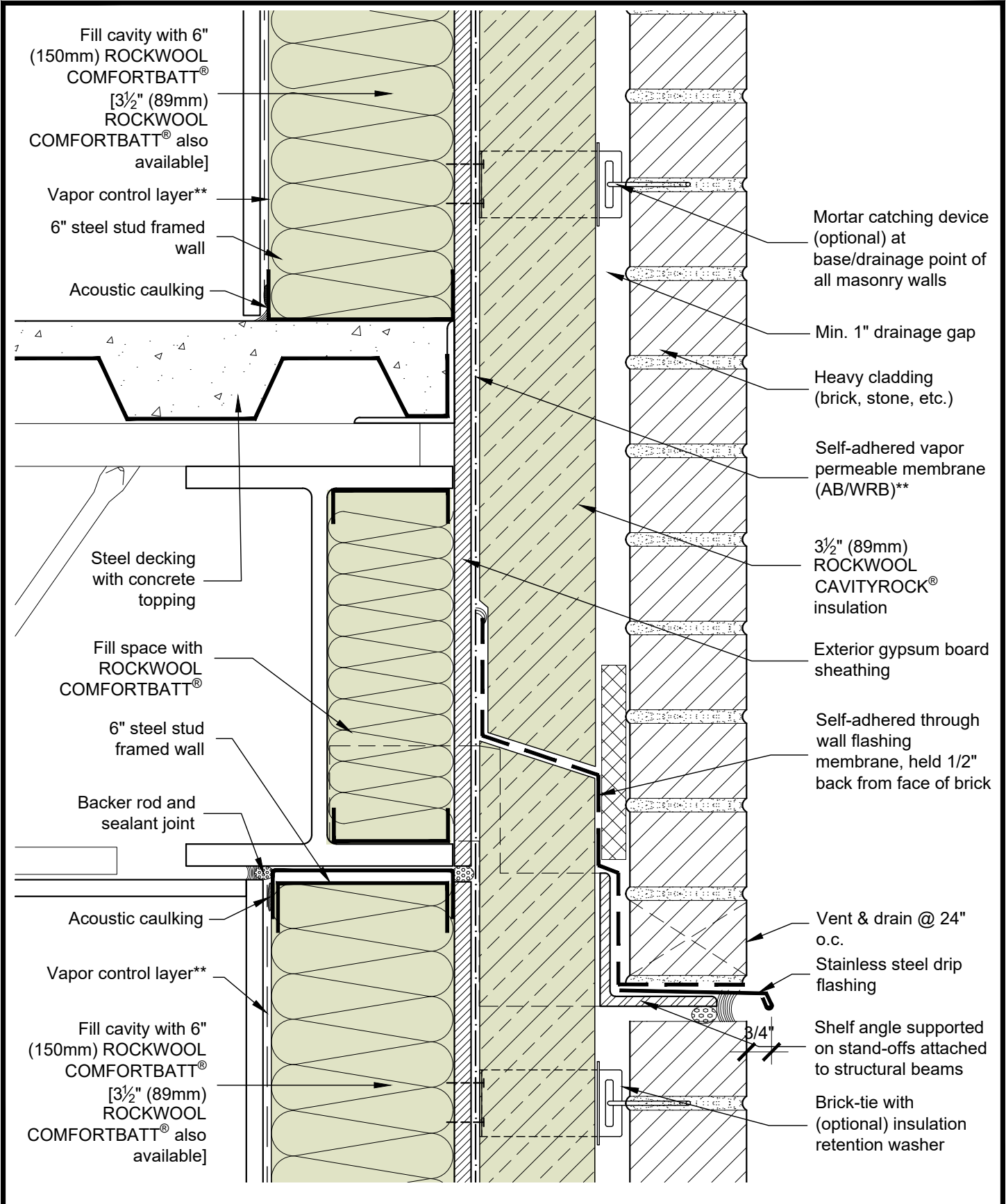
SCALE: 3" = 1'-0"

DATE: JUNE 2020

June 08 2020 6:22 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.



COMMERCIAL STEEL FRAME CONSTRUCTION UP TO 4 STOREYS - HEAVYWEIGHT CLADDING



DRAWING TITLE:

TYPICAL BRICK SHELF ANGLE AT STUD WALL

DRAWING NO.:

Detail 04

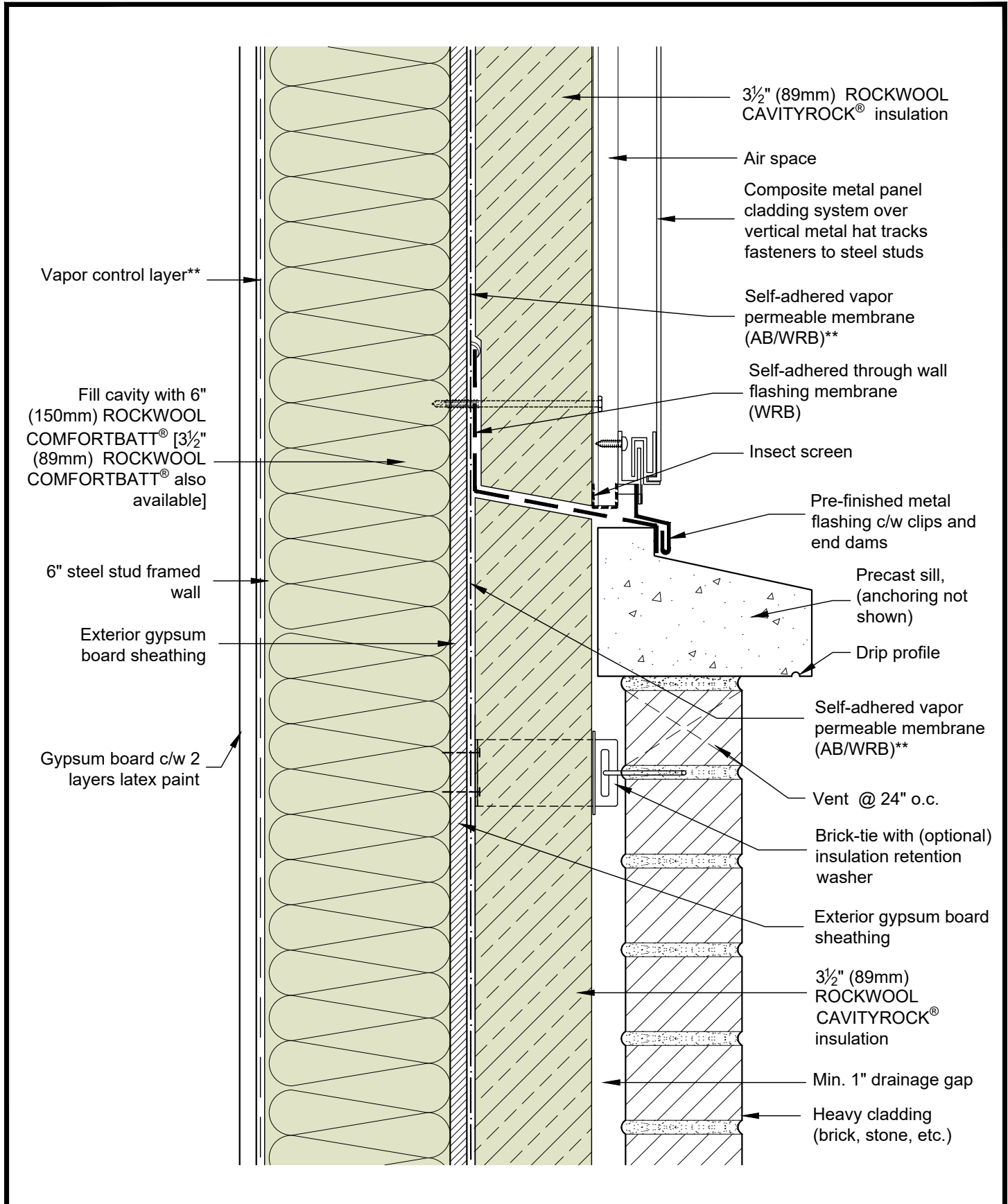
SCALE: 3" = 1'-0"

DATE: JUNE 2020

June 08 2020 6:22 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.



COMMERCIAL STEEL FRAME CONSTRUCTION UP TO 4 STOREYS - HEAVYWEIGHT CLADDING



DRAWING TITLE:

TYPICAL BRICK TO CLADDING TRANSITION

DRAWING NO.:

Detail 05

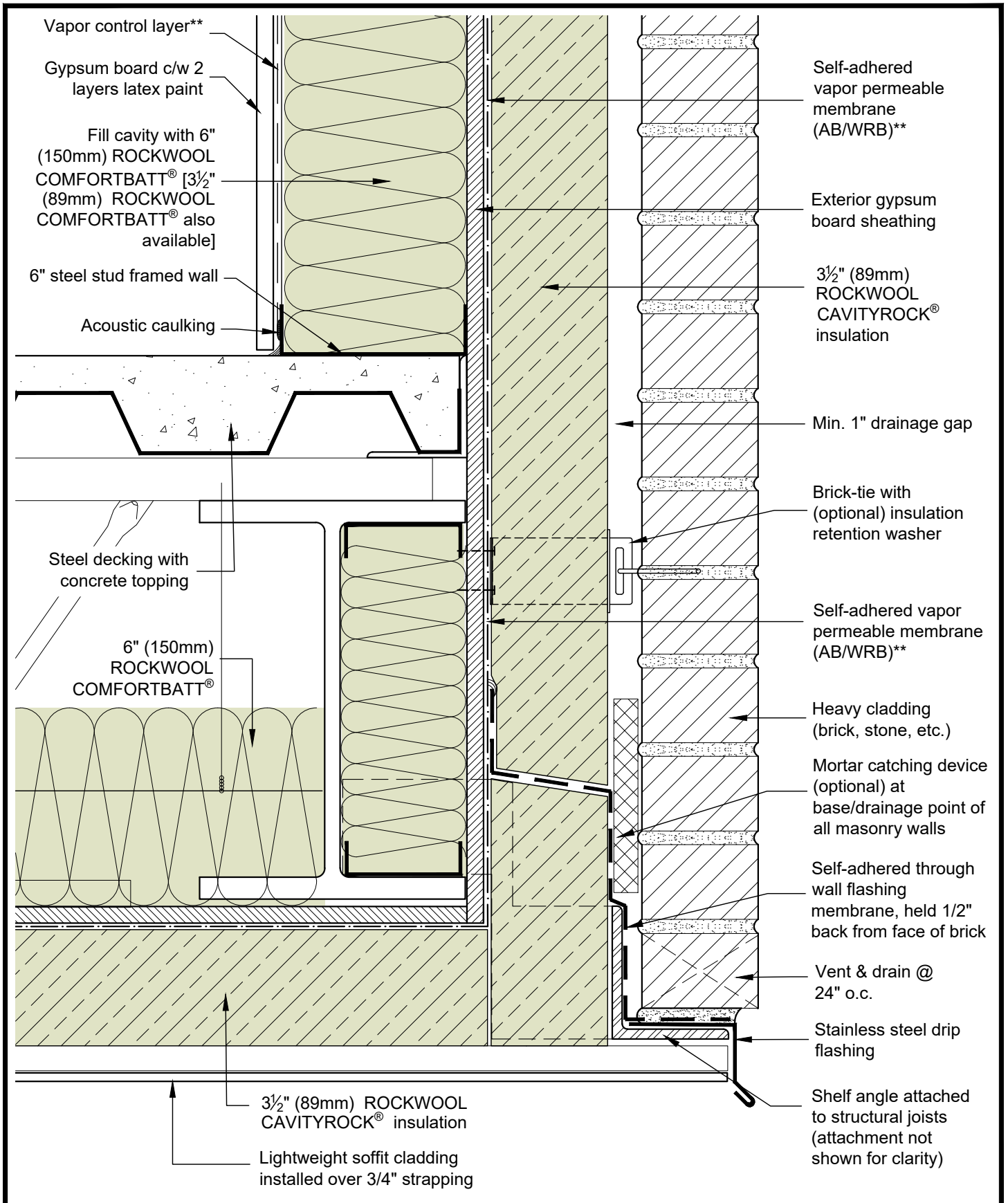
SCALE: 3" = 1'-0"

DATE: JUNE 2020

June 08 2020 6:22 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.



COMMERCIAL STEEL FRAME CONSTRUCTION UP TO 4 STOREYS - HEAVYWEIGHT CLADDING



DRAWING TITLE:

TYPICAL WALL AT CANTILEVER FLOOR SECTION

DRAWING NO.:

Detail 06

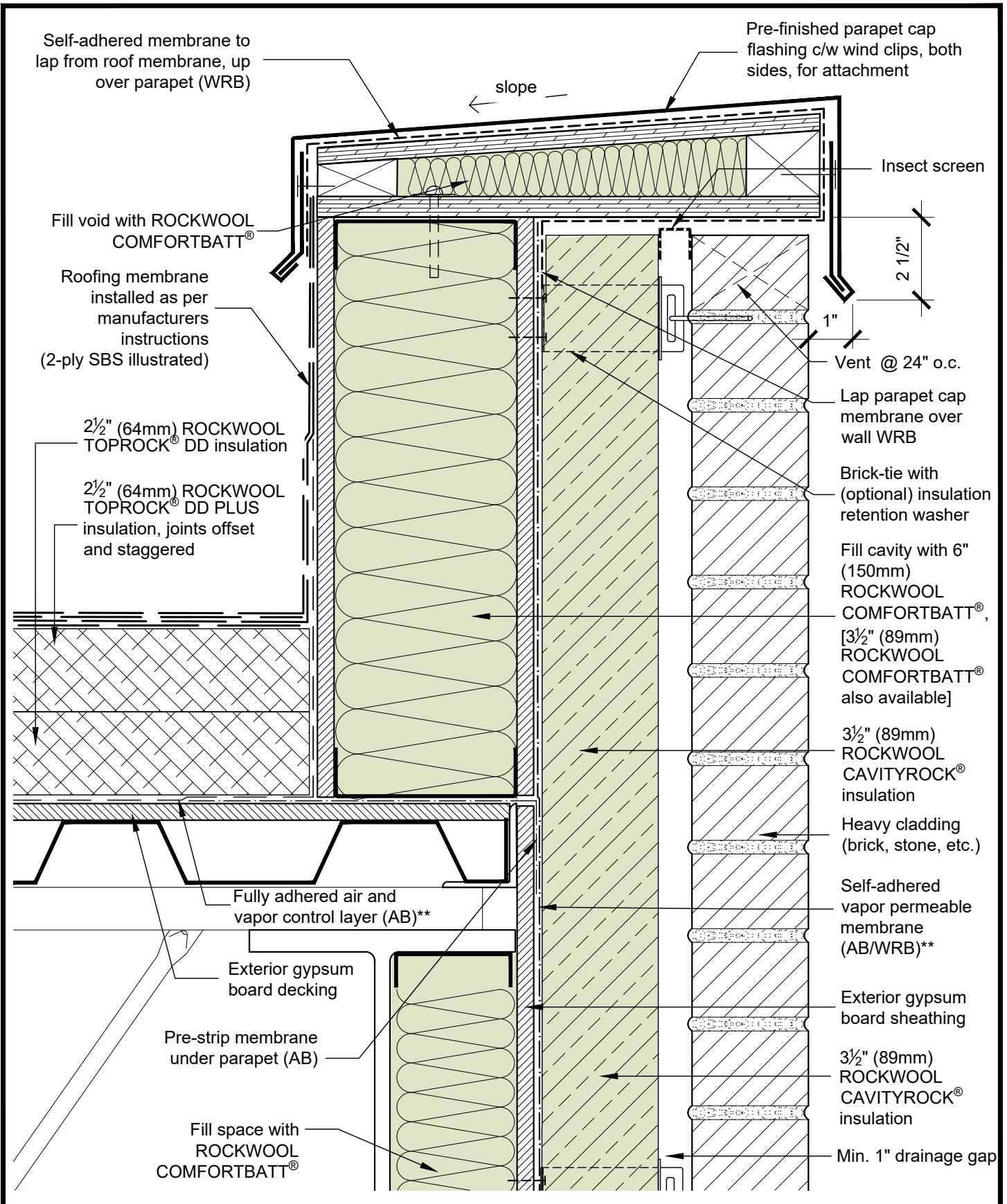
SCALE: 3" = 1'-0"

DATE: JUNE 2020

June 08 2020 6:22 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.



COMMERCIAL STEEL FRAME CONSTRUCTION UP TO 4 STOREYS - HEAVYWEIGHT CLADDING



DRAWING TITLE:

TYPICAL ROOF TO WALL SECTION

DRAWING NO.:

Detail 07

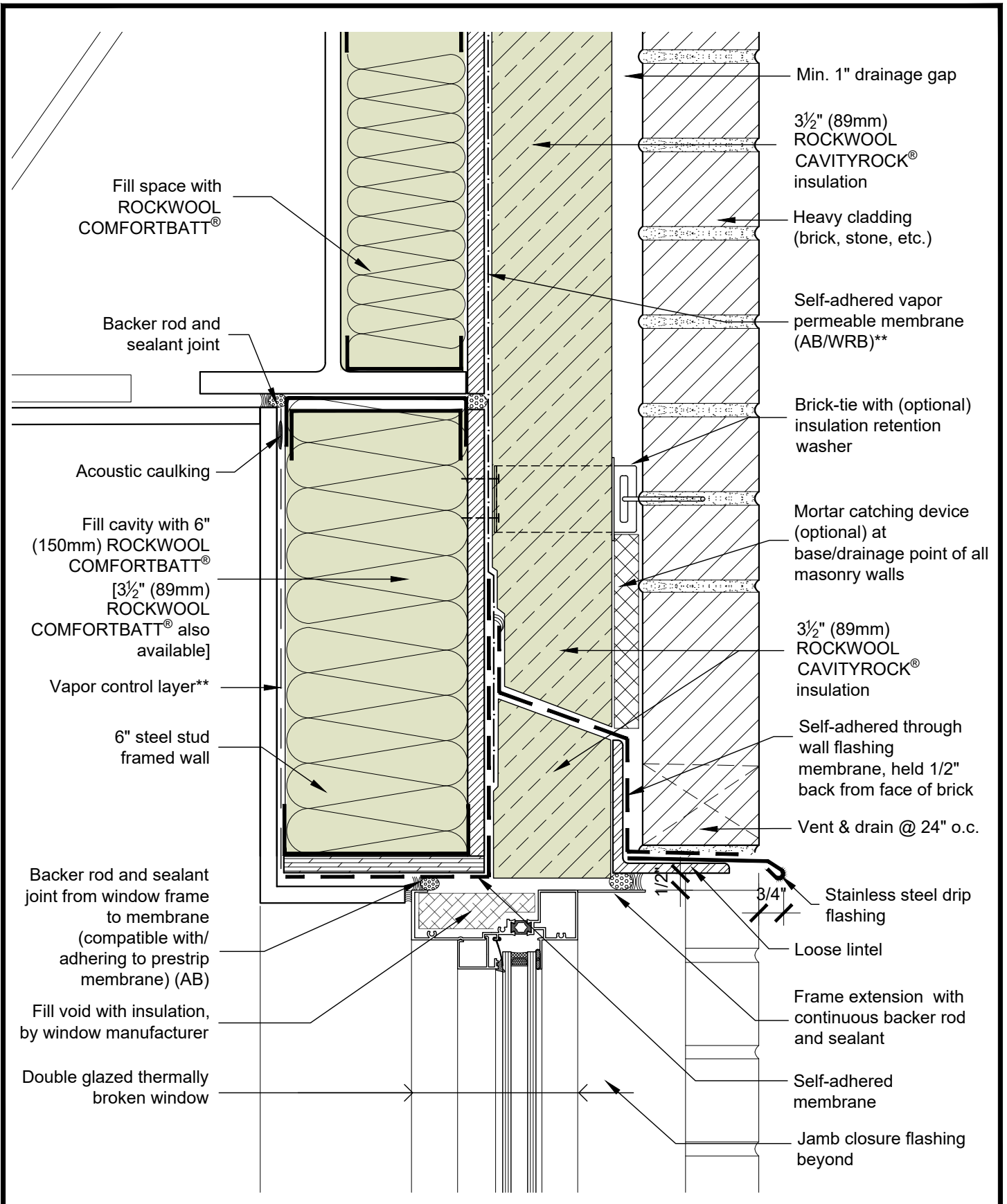
SCALE: 3" = 1'-0"

DATE: JUNE 2020

June 08 2020 6:23 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.



Fill space with
ROCKWOOL
COMFORTBATT®

Backer rod and
sealant joint

Acoustic caulking

Fill cavity with 6"
(150mm) ROCKWOOL
COMFORTBATT®
[3½" (89mm)
ROCKWOOL
COMFORTBATT® also
available]

Vapor control layer**

6" steel stud
framed wall

Backer rod and sealant
joint from window frame
to membrane
(compatible with/
adhering to prestrip
membrane) (AB)

Fill void with insulation,
by window manufacturer

Double glazed thermally
broken window

Min. 1" drainage gap

3½" (89mm)
ROCKWOOL
CAVITYROCK®
insulation

Heavy cladding
(brick, stone, etc.)

Self-adhered vapor
permeable membrane
(AB/WRB)**

Brick-tie with (optional)
insulation retention
washer

Mortar catching device
(optional) at
base/drainage point of all
masonry walls

3½" (89mm)
ROCKWOOL
CAVITYROCK®
insulation

Self-adhered through
wall flashing
membrane, held 1/2"
back from face of brick

Vent & drain @ 24" o.c.

1/2" 3/4" Stainless steel drip
flashing

Loose lintel

Frame extension with
continuous backer rod
and sealant

Self-adhered
membrane

Jamb closure flashing
beyond

**COMMERCIAL STEEL FRAME CONSTRUCTION UP TO
4 STOREYS - HEAVYWEIGHT CLADDING**



June 08 2020 6:23 PM

DRAWING
TITLE:

TYPICAL FLANGELESS WINDOW HEAD

DRAWING NO.:

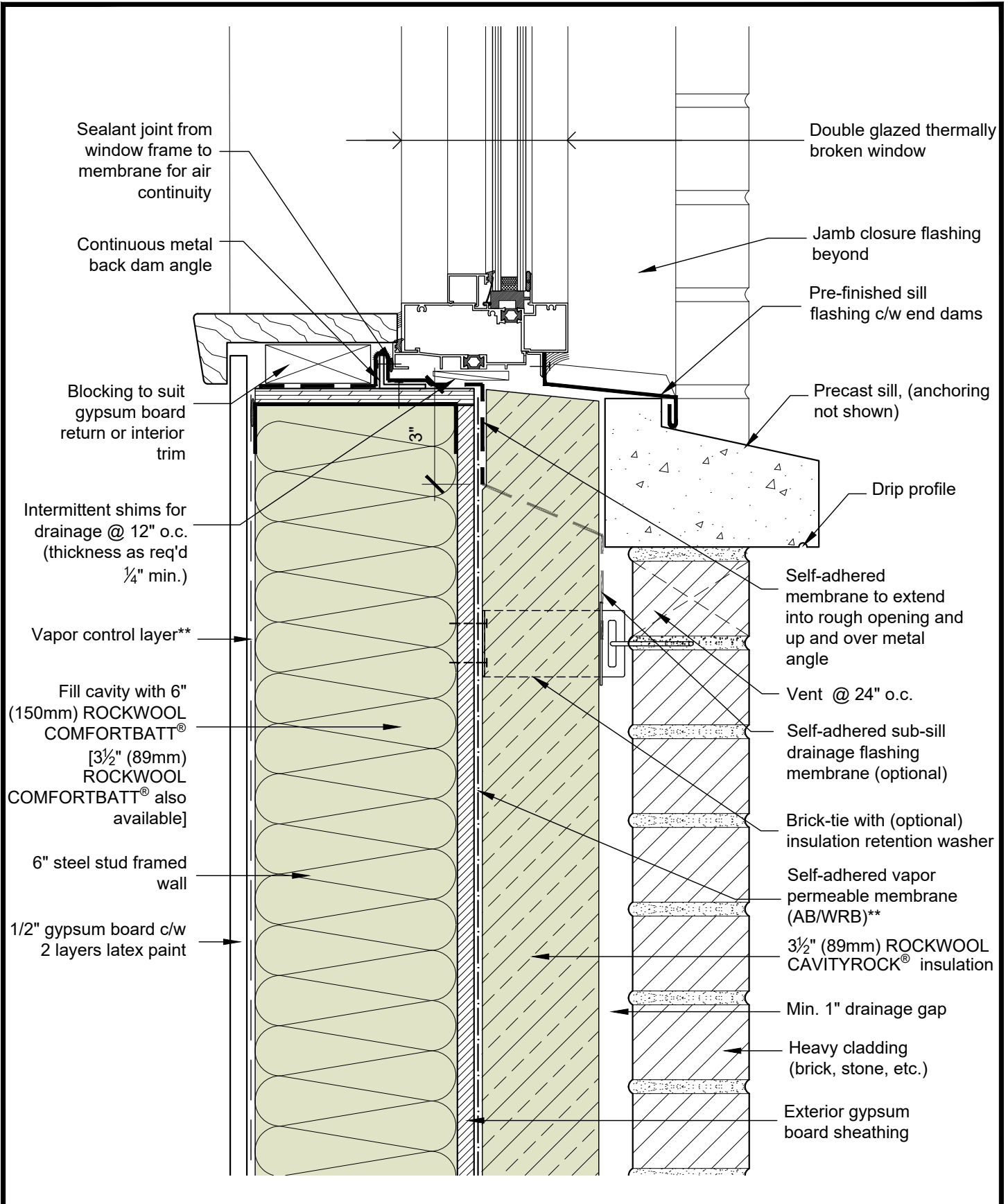
Detail 08

SCALE: 3" = 1'-0"

DATE: JUNE 2020

* 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.



COMMERCIAL STEEL FRAME CONSTRUCTION UP TO 4 STOREYS - HEAVYWEIGHT CLADDING



DRAWING TITLE:

TYPICAL FLANGELESS WINDOW SILL

DRAWING NO.:

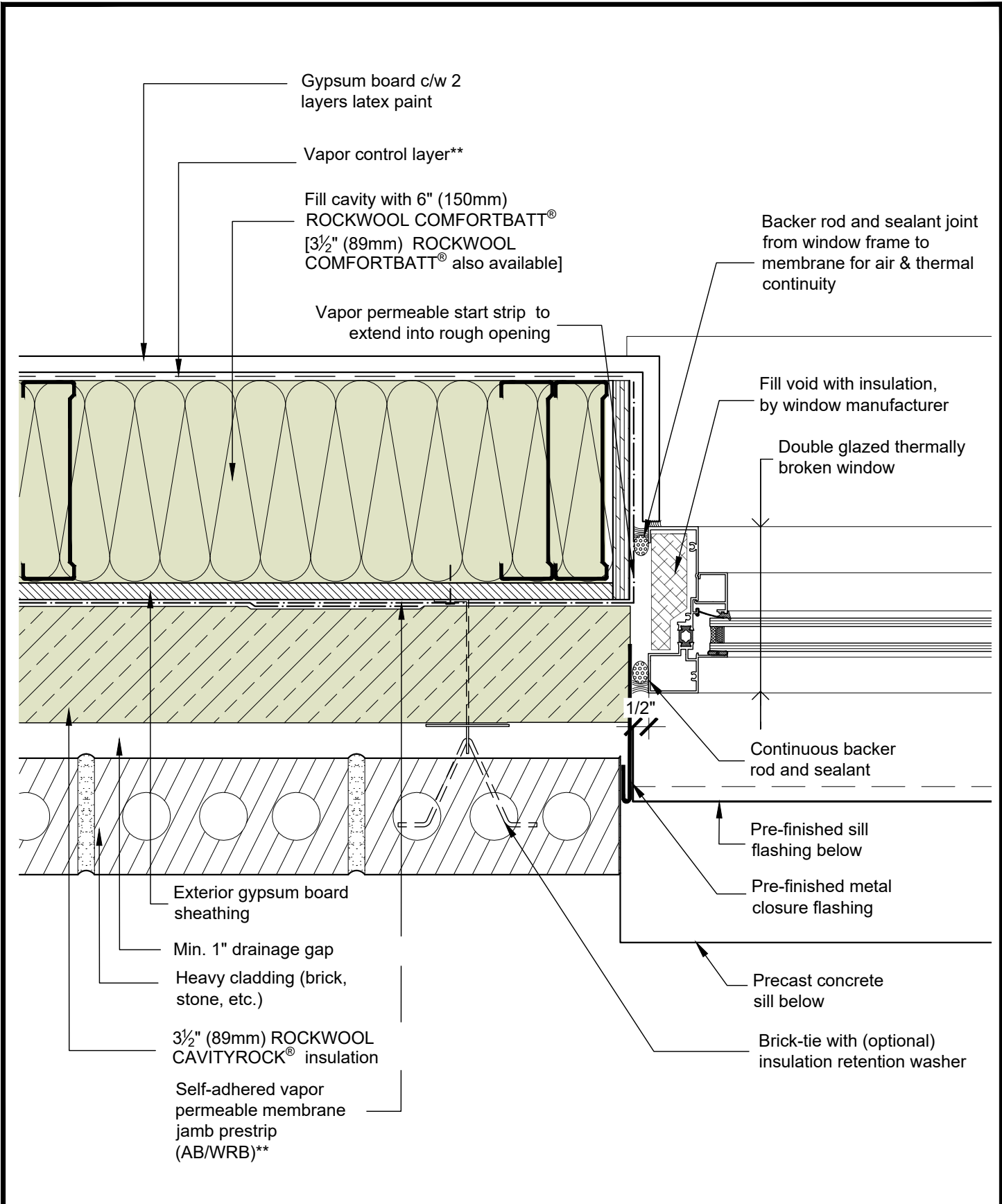
Detail 09

SCALE: 3" = 1'-0"

DATE: JUNE 2020

June 08 2020 6:23 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.



COMMERCIAL STEEL FRAME CONSTRUCTION UP TO 4 STOREYS - HEAVYWEIGHT CLADDING



DRAWING TITLE:

TYPICAL FLANGELESS WINDOW JAMB

DRAWING NO.:

Detail 10

SCALE: 3" = 1'-0"

DATE: JUNE 2020

June 08 2020 6:23 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.