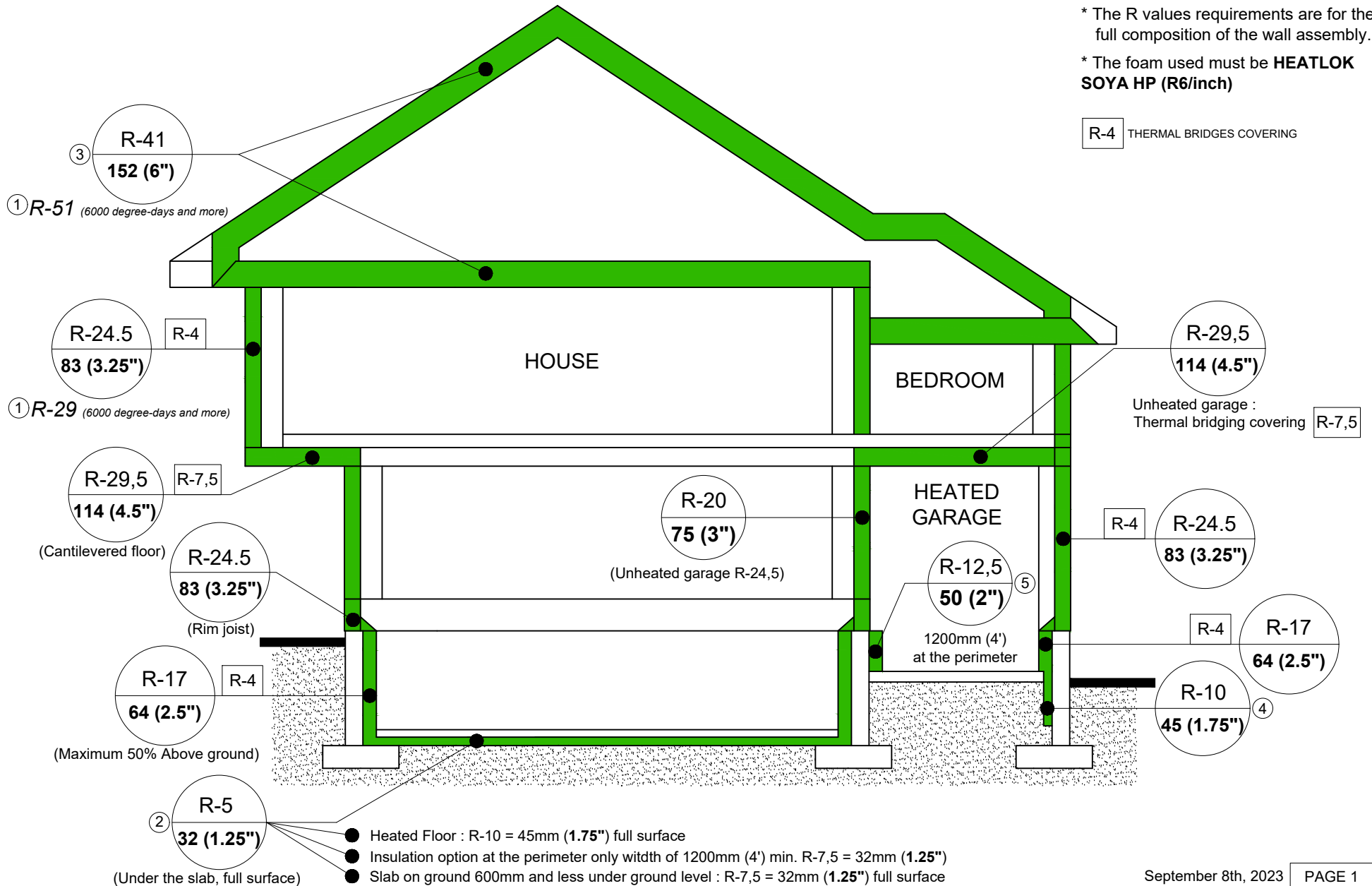


THERMAL INSULATION REQUIREMENTS (QCC-2015 PART 11)

TYPICAL DETAILS HEATLOK SOYA HP - WOOD FRAMING - CAN/ULC S770-03

* The R values requirements are for the full composition of the wall assembly.

* The foam used must be **HEATLOK SOYA HP (R6/inch)**



September 8th, 2023 PAGE 1

① The thermal resistance in italic is for the insulation values required for nordic regions of more than 6000 degree-days like : Amos, Gagnon, Shefferville...

② **HEATLOK SOYA HP** at 32mm (1.25") = Insulation + Vapor Barrier + Radon gas control

③ Thickness required **HEATLOK SOYA HP**

④ Wall under slab level

⑤ 1200mm (4') on the wall in contact with exterior walls

Technical Support : 1.866.437.0223

infocanada@huntsmansbuilds.com

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NON VENTILATED CATHEDRAL ROOF :	PAGE 23, 24, 25
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NOTE :
SEALING AT THE PERIMETER
OF EXTERIOR WALLS, MECHANICAL DUCTS
AND LOAD BEARING WALLS

NOTE :
ALWAYS APPLY HEATLOK SOYA HP
BEFORE INSULATING THE WALL
CAVITY

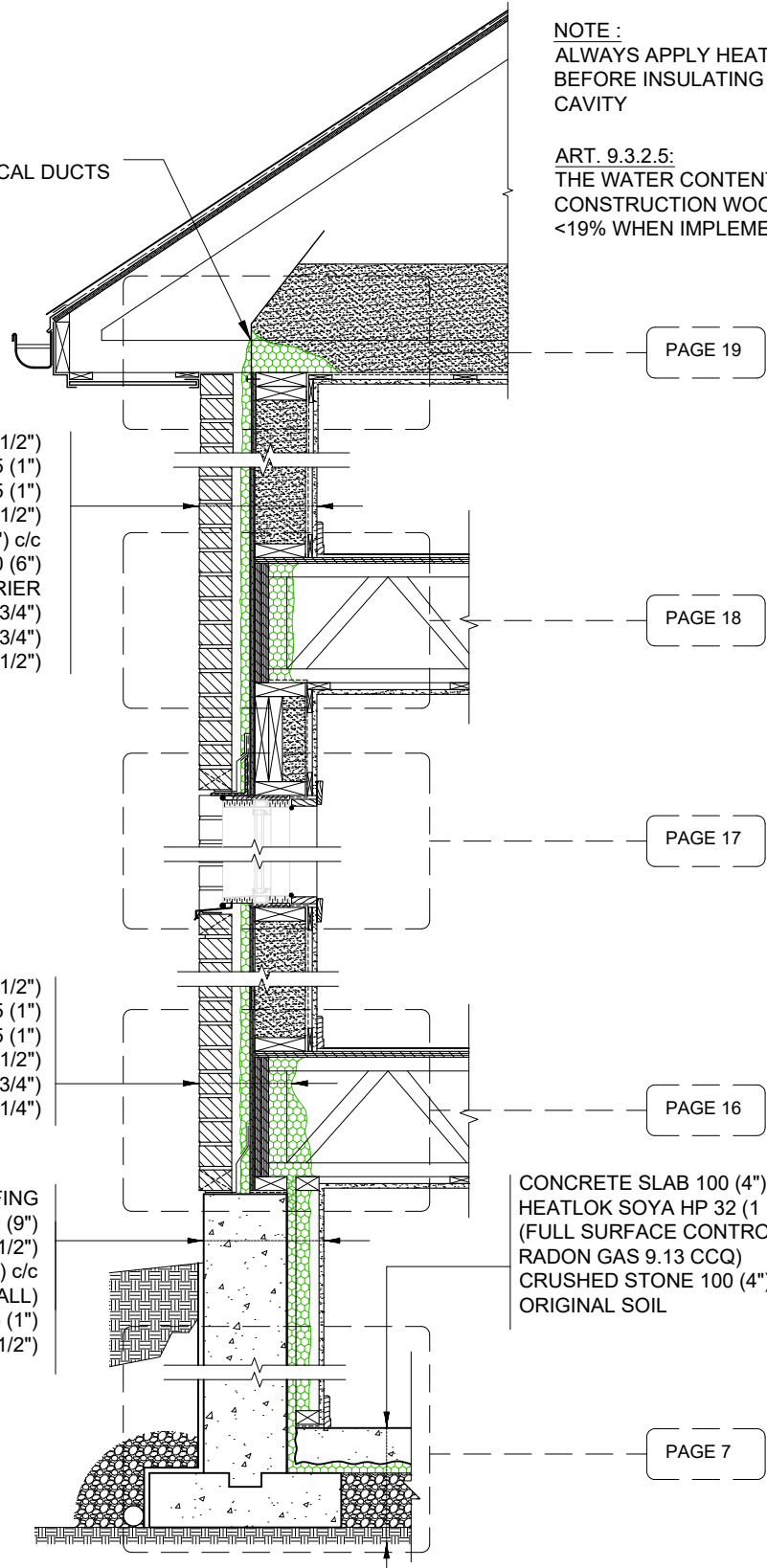
ART. 9.3.2.5:
THE WATER CONTENT OF
CONSTRUCTION WOOD MUST BE
<19% WHEN IMPLEMENTATION.

BRICK 90 (3 1/2")
AIR SPACE 25 (1")
HEATLOK SOYA HP 25 (1")
OSB SHEATING 11 (1/2")
WOOD STUD 2x6 @ 600 (23 3/4") c/c
FIBERGLASS INSULATION 150 (6")
VAPOR BARRIER
HORIZONTAL FURRING 19 (3/4")
AIR SPACE 19 (3/4")
GYPSUM 12 (1/2")

BRICK 90 (3 1/2")
AIR SPACE 25 (1")
HEATLOK SOYA HP 25 (1")
OSB SHEATING 11 (1/2")
DOUBLE PLYWOOD 19 (3/4")
HEATLOK SOYA HP 57 (2 1/4")

WATERPROOFING
CONCRETE WALL 230 (9")
HEATLOK SOYA HP 65 (2 1/2")
2x3 @ 400 (16") c/c
(25 (1") FROM FOUNDATION WALL)
AIR SPACE 25 (1")
GYPSUM 12 (1/2")

CONCRETE SLAB 100 (4")
HEATLOK SOYA HP 32 (1 1/4")
(FULL SURFACE CONTROLS
RADON GAS 9.13 CCQ)
CRUSHED STONE 100 (4")
ORIGINAL SOIL



2x6 WALL - BRICK
SYSTEM SECTION

NOTE :
SEALING AT THE PERIMETER
OF EXTERIOR WALLS, MECHANICAL DUCTS
AND LOAD BEARING WALLS

NOTE :
ALWAYS APPLY HEATLOK SOYA HP
BEFORE INSULATING THE WALL
CAVITY

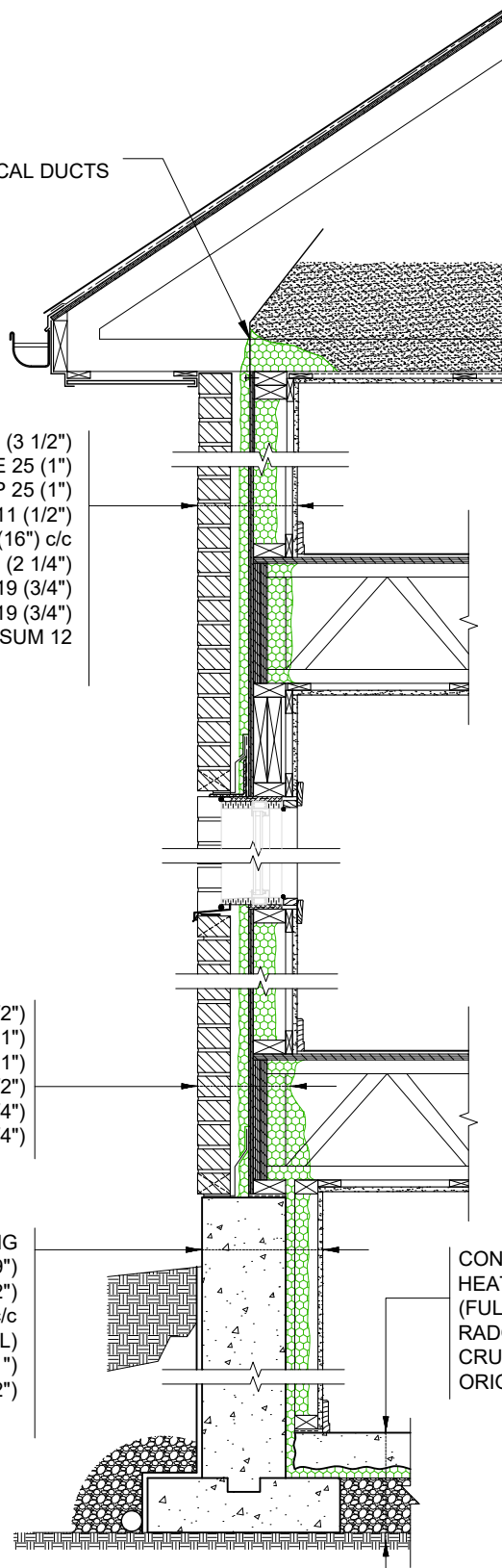
ART. 9.3.2.5:
THE WATER CONTENT OF
CONSTRUCTION WOOD MUST BE
<19% WHEN IMPLEMENTATION.

BRICK 90 (3 1/2")
AIR SPACE 25 (1")
HEATLOK SOYA HP 25 (1")
OSB SHEATING 11 (1/2")
WOOD STUD 2x4 @ 400 (16") c/c
HEATLOK SOYA HP 57 (2 1/4")
HORIZONTAL FURRING 19 (3/4")
AIR SPACE 19 (3/4")
GYPSUM 12

BRICK 90 (3 1/2")
AIR SPACE 25 (1")
HEATLOK SOYA HP 25 (1")
OSB SHEATING 11 (1/2")
DOUBLE PLYWOOD 19 (3/4")
HEATLOK SOYA HP 57 (2 1/4")

WATERPROOFING
CONCRETE WALL 230 (9")
HEATLOK SOYA HP 65 (2 1/2")
2x3 @ 400 (16") c/c
(25 (1") FROM FOUNDATION WALL)
AIR SPACE 25 (1")
GYPSUM 12 (1/2")

CONCRETE SLAB 100 (4")
HEATLOK SOYA HP 32 (1 1/4")
(FULL SURFACE CONTROLS
RADON GAS 9.13 CCQ)
CRUSHED STONE 100 (4")
ORIGINAL SOIL



2x4 WALL - BRICK
SYSTEM SECTION

NOTE :
SEALING AT THE PERIMETER
OF EXTERIOR WALLS, MECHANICAL DUCTS
AND LOAD BEARING WALLS

NOTE :
ALWAYS APPLY HEATLOK SOYA HP
BEFORE INSULATING THE WALL
CAVITY

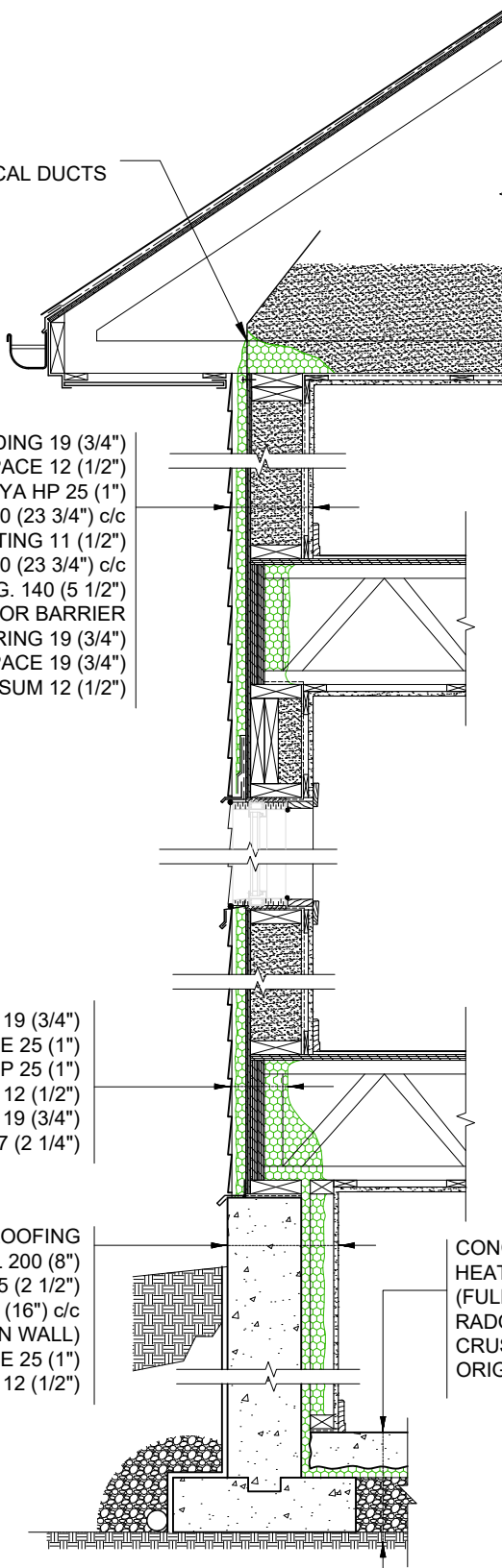
ART. 9.3.2.5:
THE WATER CONTENT OF
CONSTRUCTION WOOD MUST BE
<19% WHEN IMPLEMENTATION.

HORIZONTAL SIDING 19 (3/4")
AIR SPACE 12 (1/2")
HEATLOK SOYA HP 25 (1")
VERTICAL FURRING 2x2 @ 600 (23 3/4") c/c
OSB SHEATING 11 (1/2")
WOOD STUD 2x6 @ 600 (23 3/4") c/c
FIBERGLASS INSULATION REG. 140 (5 1/2")
VAPOR BARRIER
HORIZONTAL FURRING 19 (3/4")
AIR SPACE 19 (3/4")
GYPSUM 12 (1/2")

HORIZONTAL SIDING 19 (3/4")
AIR SPACE 25 (1")
HEATLOK SOYA HP 25 (1")
OSB SHEATING 12 (1/2")
DOUBLE PLYWOOD 19 (3/4")
HEATLOK SOYA HP 57 (2 1/4")

WATERPROOFING
CONCRETE WALL 200 (8")
HEATLOK SOYA HP 65 (2 1/2")
2x3 @ 400 (16") c/c
(25 (1") FROM FOUNDATION WALL)
AIR SPACE 25 (1")
GYPSUM 12 (1/2")

CONCRETE SLAB 100 (4")
HEATLOK SOYA HP 32 (1 1/4")
(FULL SURFACE CONTROLS
RADON GAS 9.13 CCQ)
CRUSHED STONE 100 (4")
ORIGINAL SOIL



2x6 WALL - SIDING
SYSTEM SECTION

NOTE :
SEALING AT THE PERIMETER
OF EXTERIOR WALLS, MECHANICAL DUCTS
AND LOAD BEARING WALLS

NOTE :
ALWAYS APPLY HEATLOK SOYA HP
BEFORE INSULATING THE WALL
CAVITY

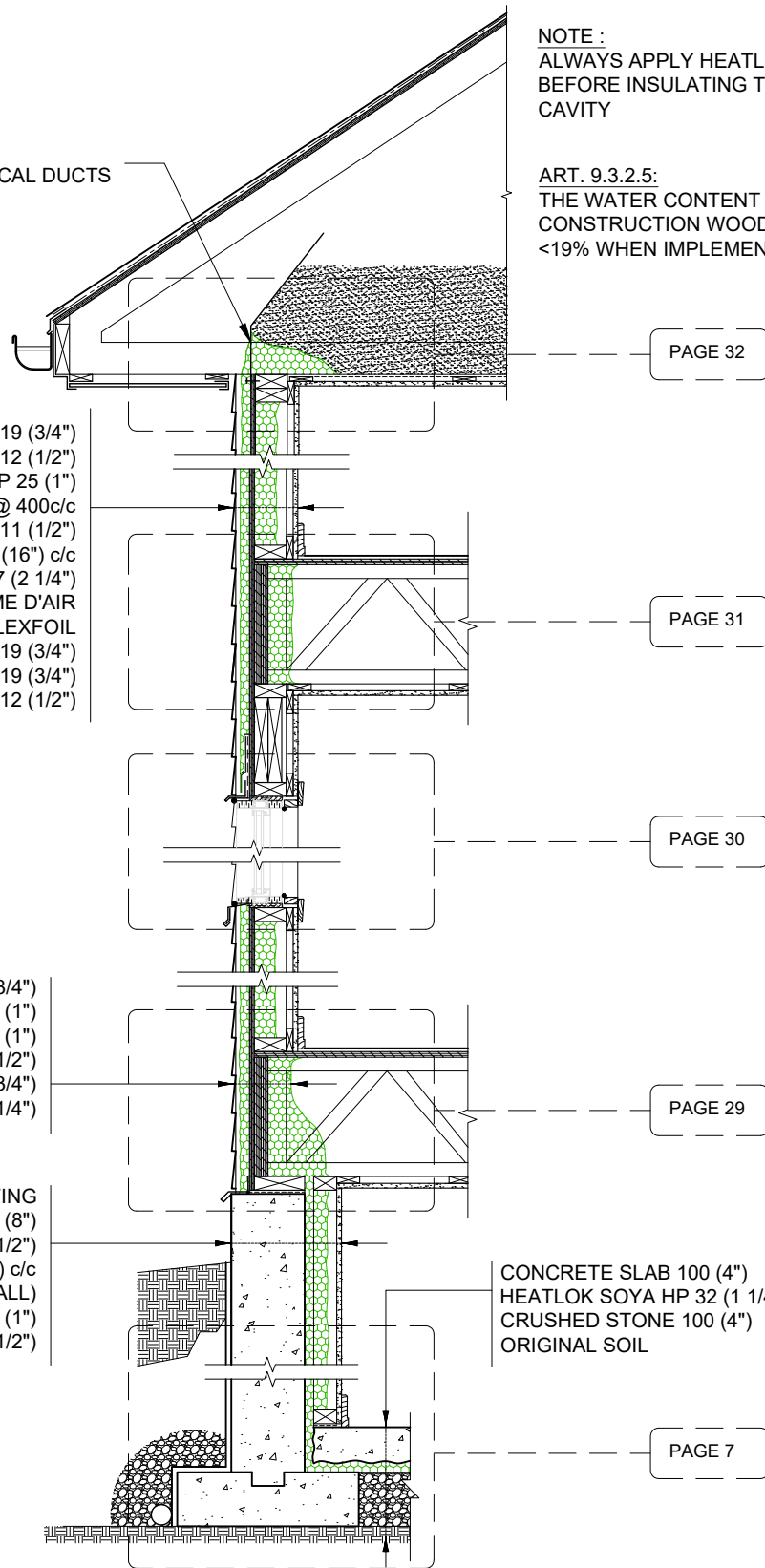
ART. 9.3.2.5:
THE WATER CONTENT OF
CONSTRUCTION WOOD MUST BE
<19% WHEN IMPLEMENTATION.

HORIZONTAL SIDING 19 (3/4")
AIR SPACE 12 (1/2")
HEATLOK SOYA HP 25 (1")
45° FURRING 2x2 @ 400c/c
OSB SHEATING 11 (1/2")
WOOD STUD 2x4 @ 400 (16") c/c
HEATLOK SOYA HP 57 (2 1/4")
LAME D'AIR
VAPOR BARRIER POLYAIR FLEXFOIL
HORIZONTAL FURRING 19 (3/4")
AIR SPACE 19 (3/4")
GYPSUM 12 (1/2")

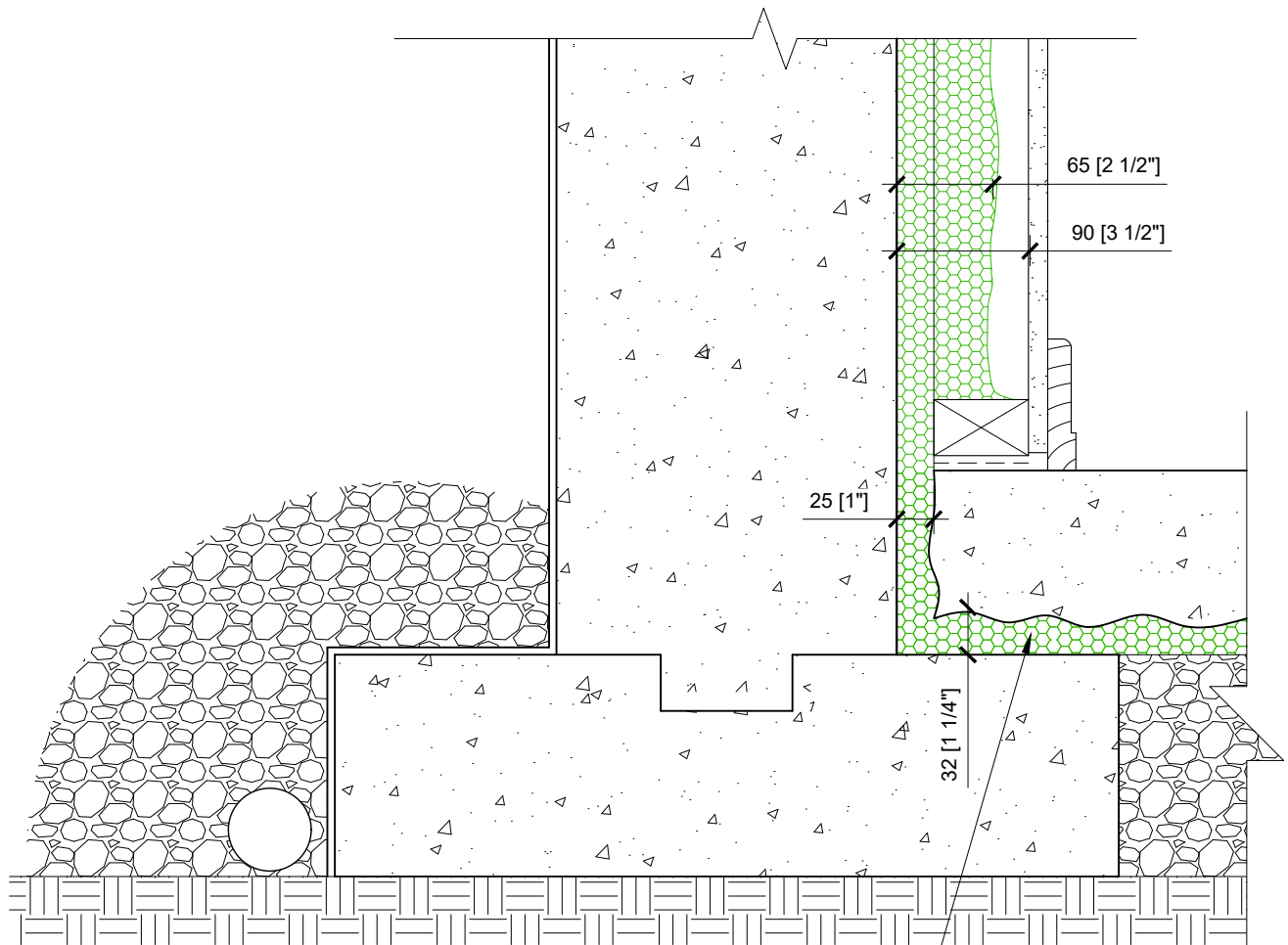
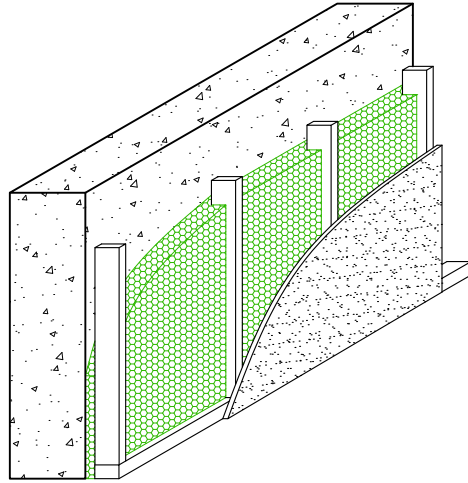
HORIZONTAL SIDING 19 (3/4")
AIR SPACE 25 (1")
HEATLOK SOYA HP 25 (1")
OSB SHEATING 11 (1/2")
DOUBLE PLYWOOD 19 (3/4")
HEATLOK SOYA HP 57 (2 1/4")

WATERPROOFING
CONCRETE WALL 200 (8")
HEATLOK SOYA HP 65 (2 1/2")
2x3 @ 400 (16") c/c
(25 (1") FROM FOUNDATION WALL)
AIR SPACE 25 (1")
GYPSUM 12 (1/2")

CONCRETE SLAB 100 (4")
HEATLOK SOYA HP 32 (1 1/4")
CRUSHED STONE 100 (4")
ORIGINAL SOIL

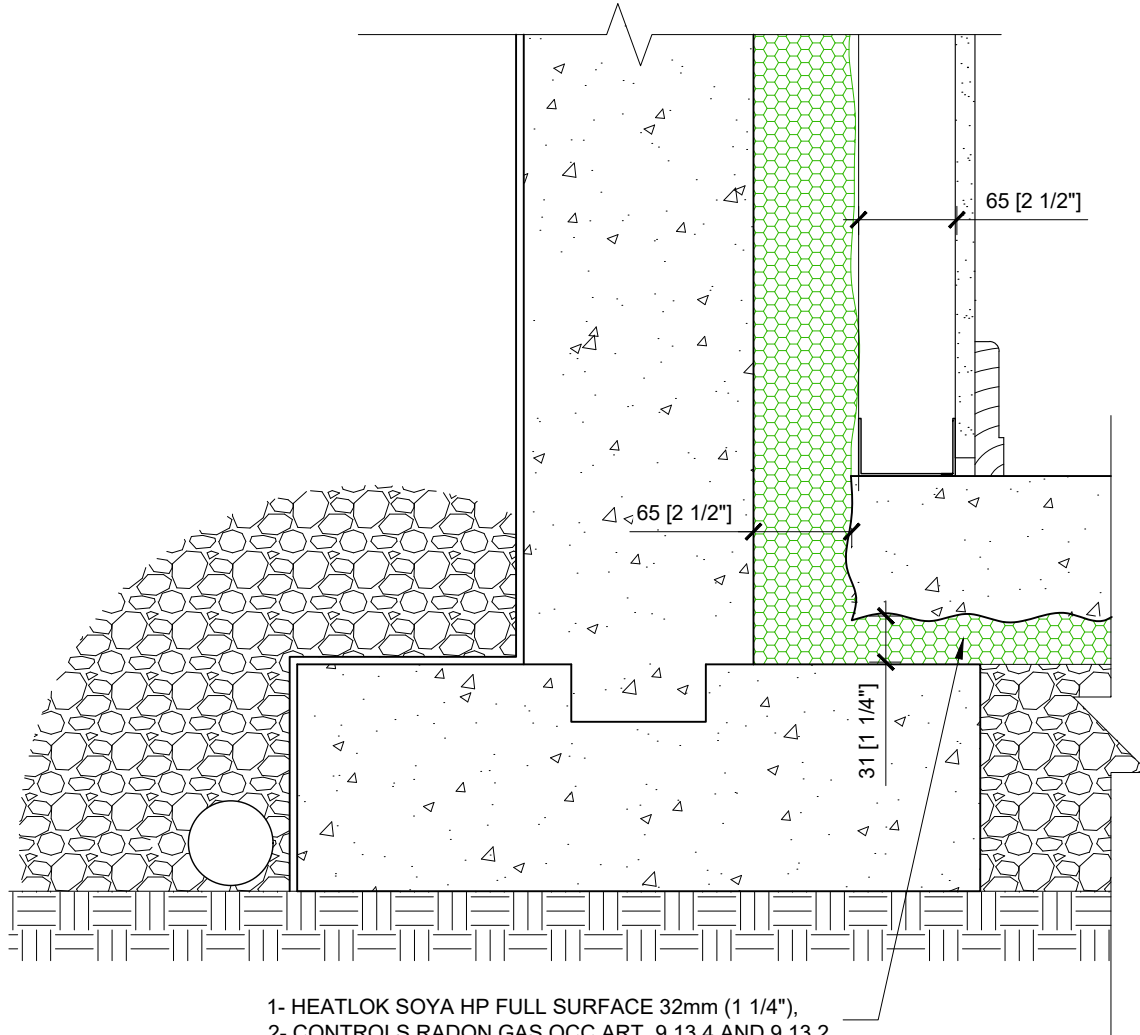


2x4 WALL - SIDING
SYSTEM SECTION



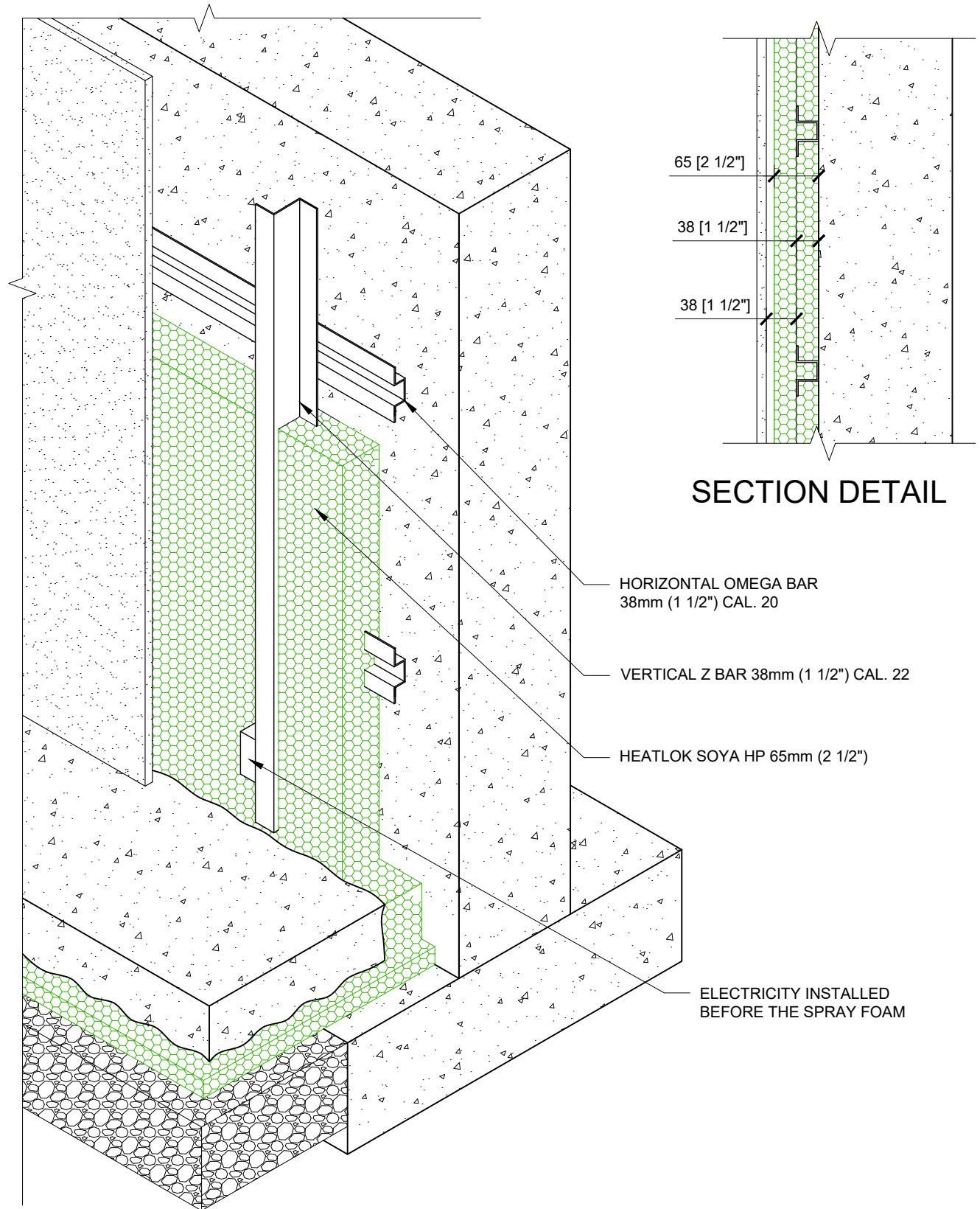
- 1- HEATLOK SOYA HP FULL SURFACE 32mm (1 1/4"),
- 2- CONTROLS RADON GAS QCC ART. 9.13.4 AND 9.13.2

FOUNDATION



NOTE : THE CONTRACTOR CAN SPRAY
UNDER THE SLAB, THE FOUNDATION WALL,
THE RIM JOIST AND THE 2ND FLOOR RIM
JOIST IN ONLY ONE PRESENCE

2x4 WALL - SIDING
 FOUNDATION - STEEL STUD



SECTION DETAIL

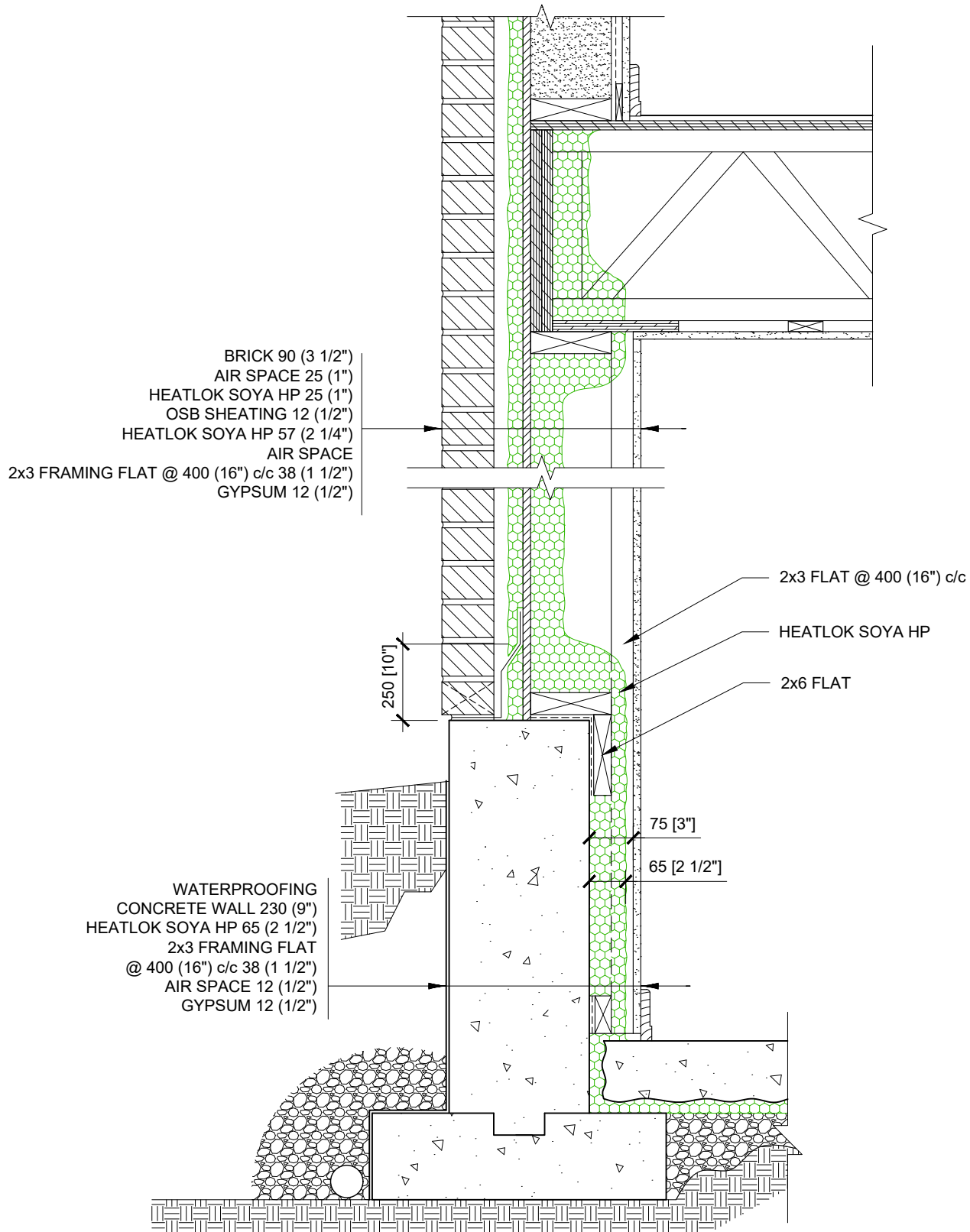
HORIZONTAL OMEGA BAR
38mm (1 1/2") CAL. 20

VERTICAL Z BAR 38mm (1 1/2") CAL. 22

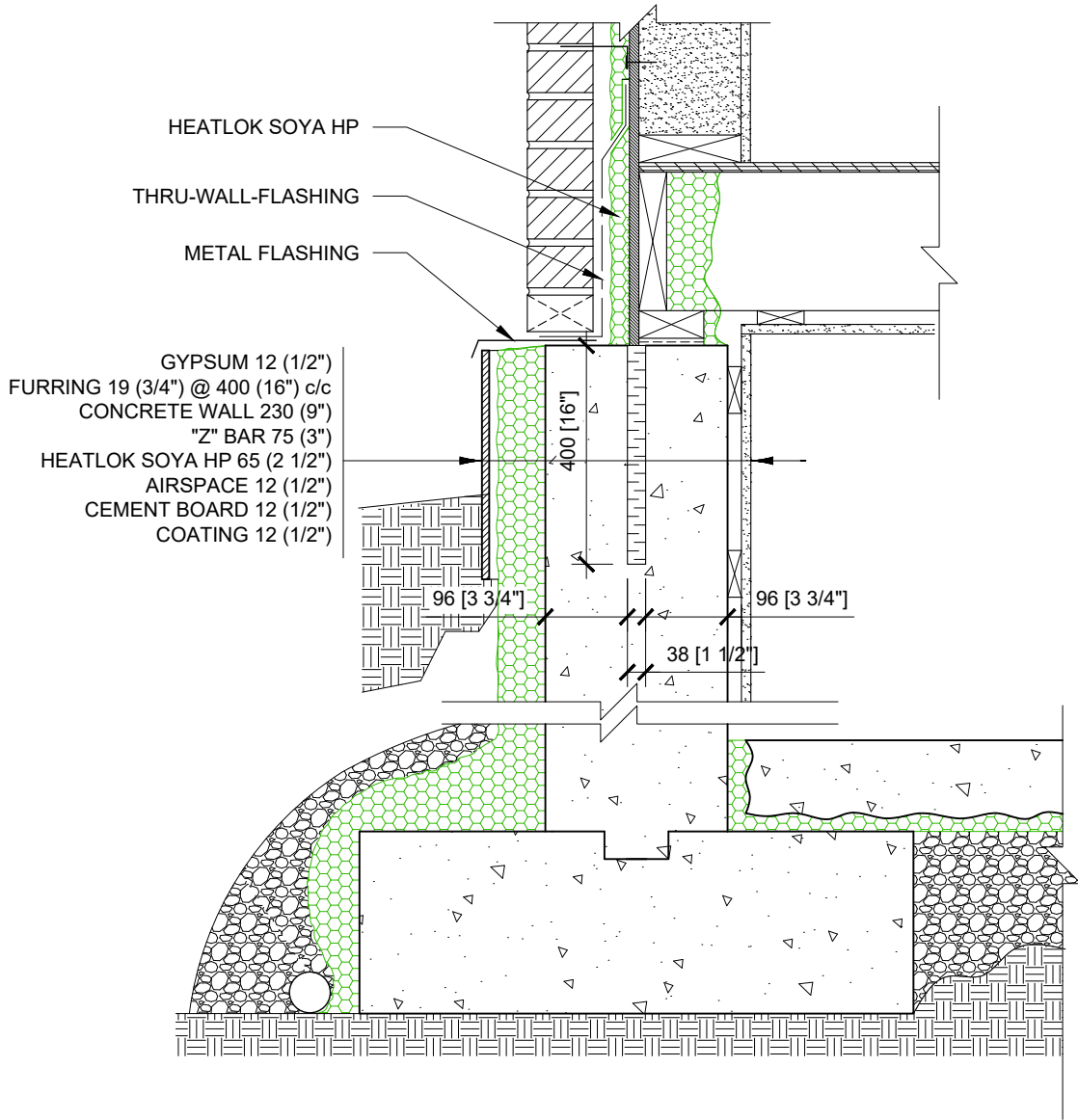
HEATLOK SOYA HP 65mm (2 1/2")

ELECTRICITY INSTALLED
BEFORE THE SPRAY FOAM

STEEL STRUCTURE
FOUNDATION WALL



2x6 WALL - BRICK
 FOUNDATION KNEE WALL

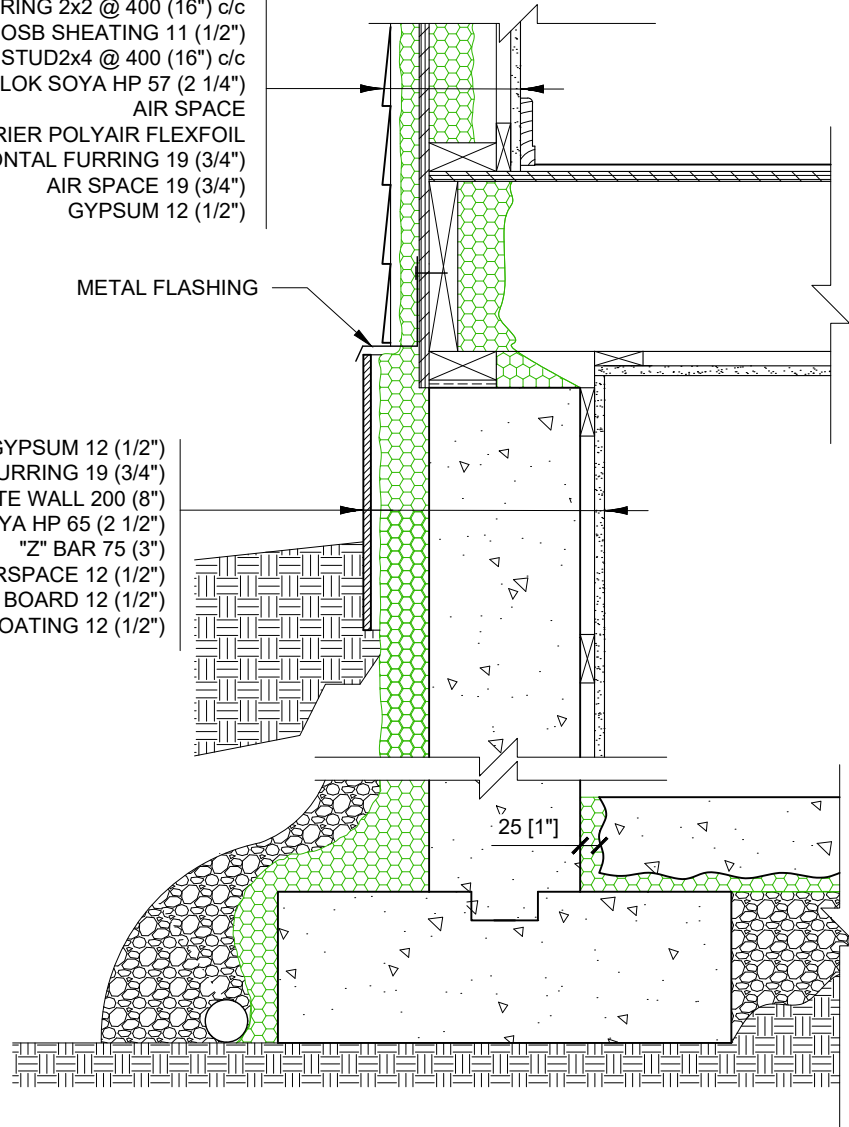


2x6 WALL - BRICK
 FOUNDATION BY EXTERIOR

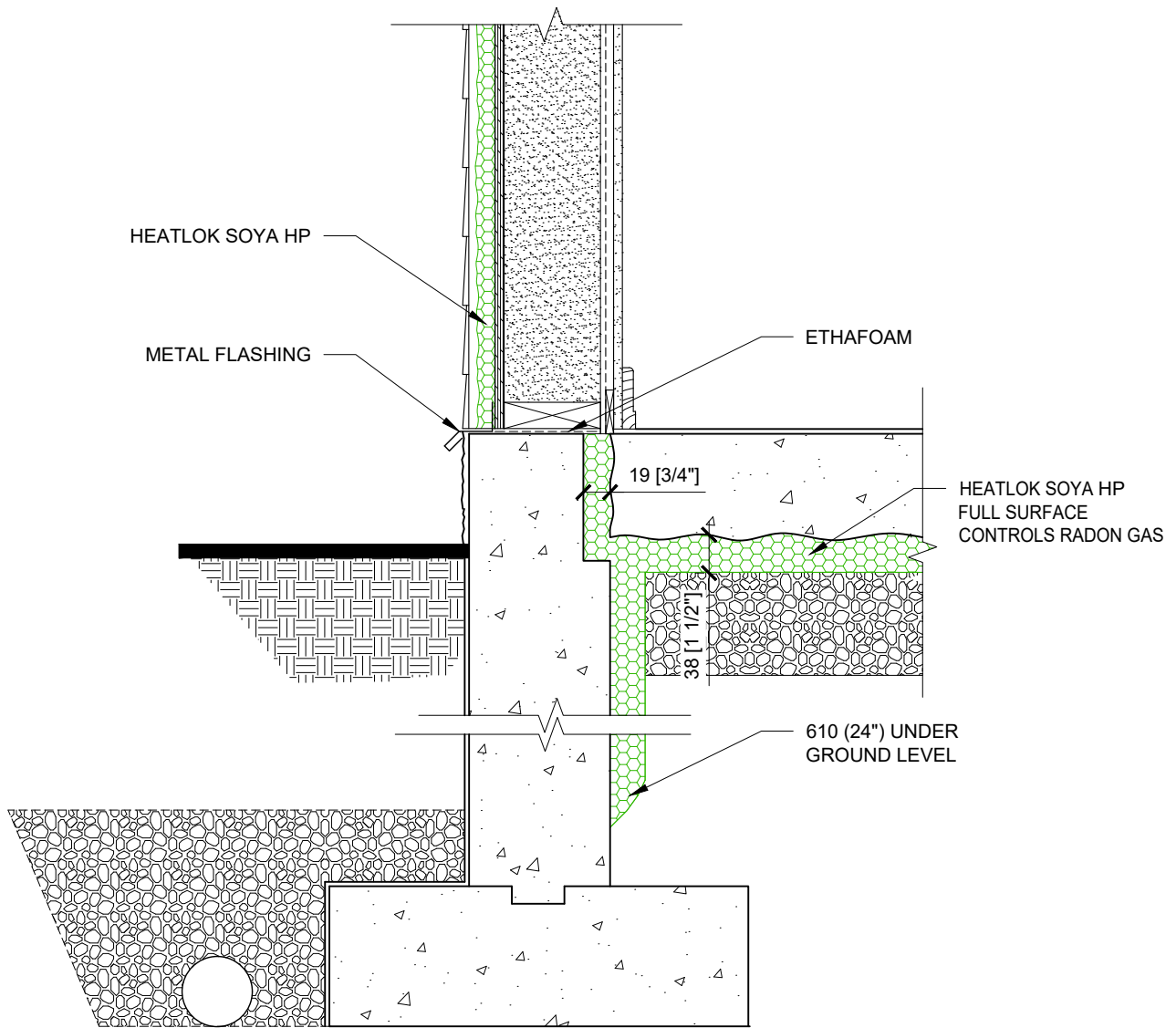
HORIZONTAL SIDING 19 (3/4")
 AIR SPACE 12 (1/2")
 HEATLOK SOYA HP 25 (1")
 VERTICAL FURRING 2x2 @ 400 (16") c/c
 OSB SHEATING 11 (1/2")
 WOOD STUD 2x4 @ 400 (16") c/c
 HEATLOK SOYA HP 57 (2 1/4")
 AIR SPACE
 VAPOR BARRIER POLYAIR FLEXFOIL
 HORIZONTAL FURRING 19 (3/4")
 AIR SPACE 19 (3/4")
 GYPSUM 12 (1/2")

METAL FLASHING

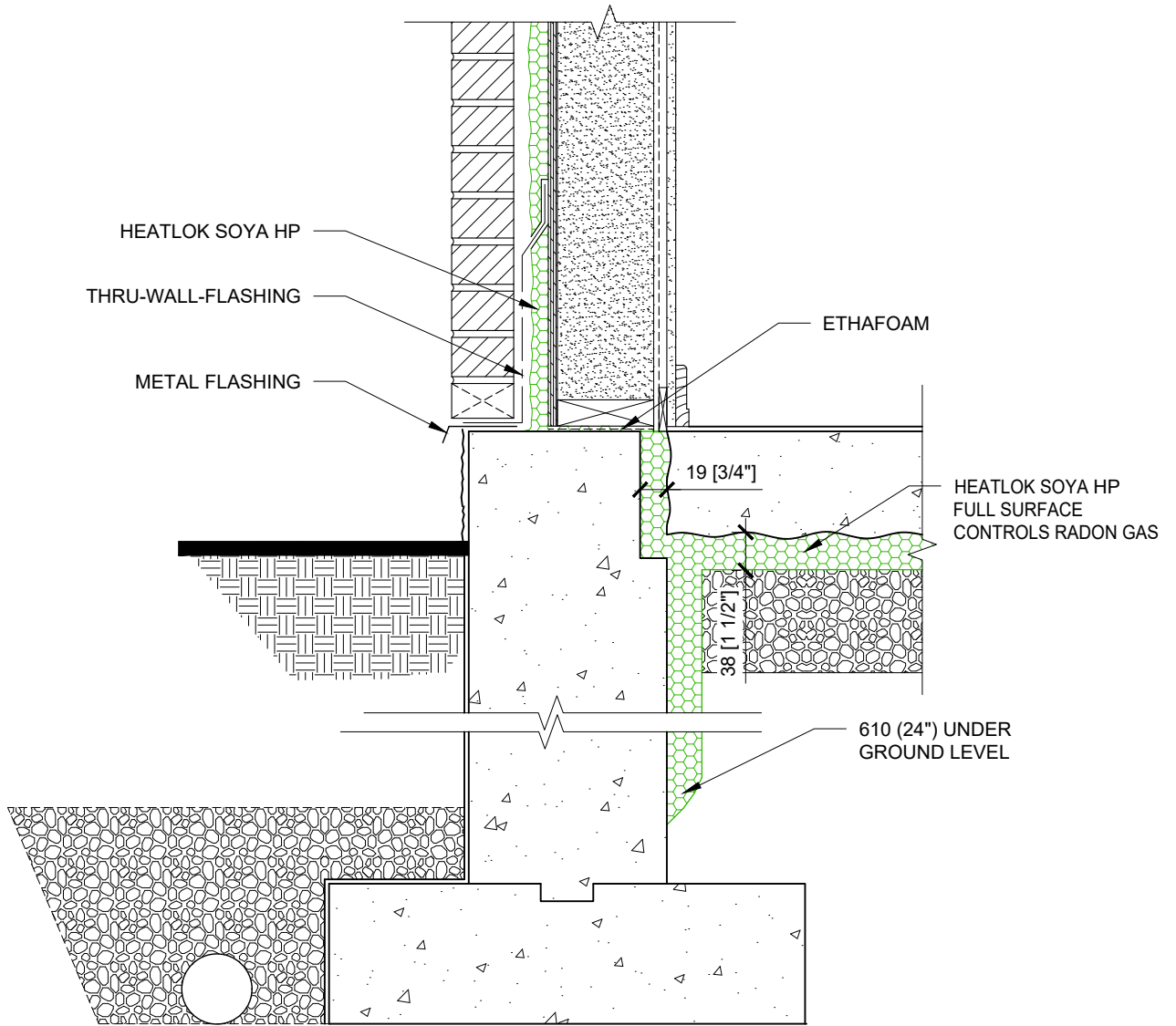
GYPSUM 12 (1/2")
 FURRING 19 (3/4")
 CONCRETE WALL 200 (8")
 HEATLOK SOYA HP 65 (2 1/2")
 "Z" BAR 75 (3")
 AIRSPACE 12 (1/2")
 CEMENT BOARD 12 (1/2")
 COATING 12 (1/2")



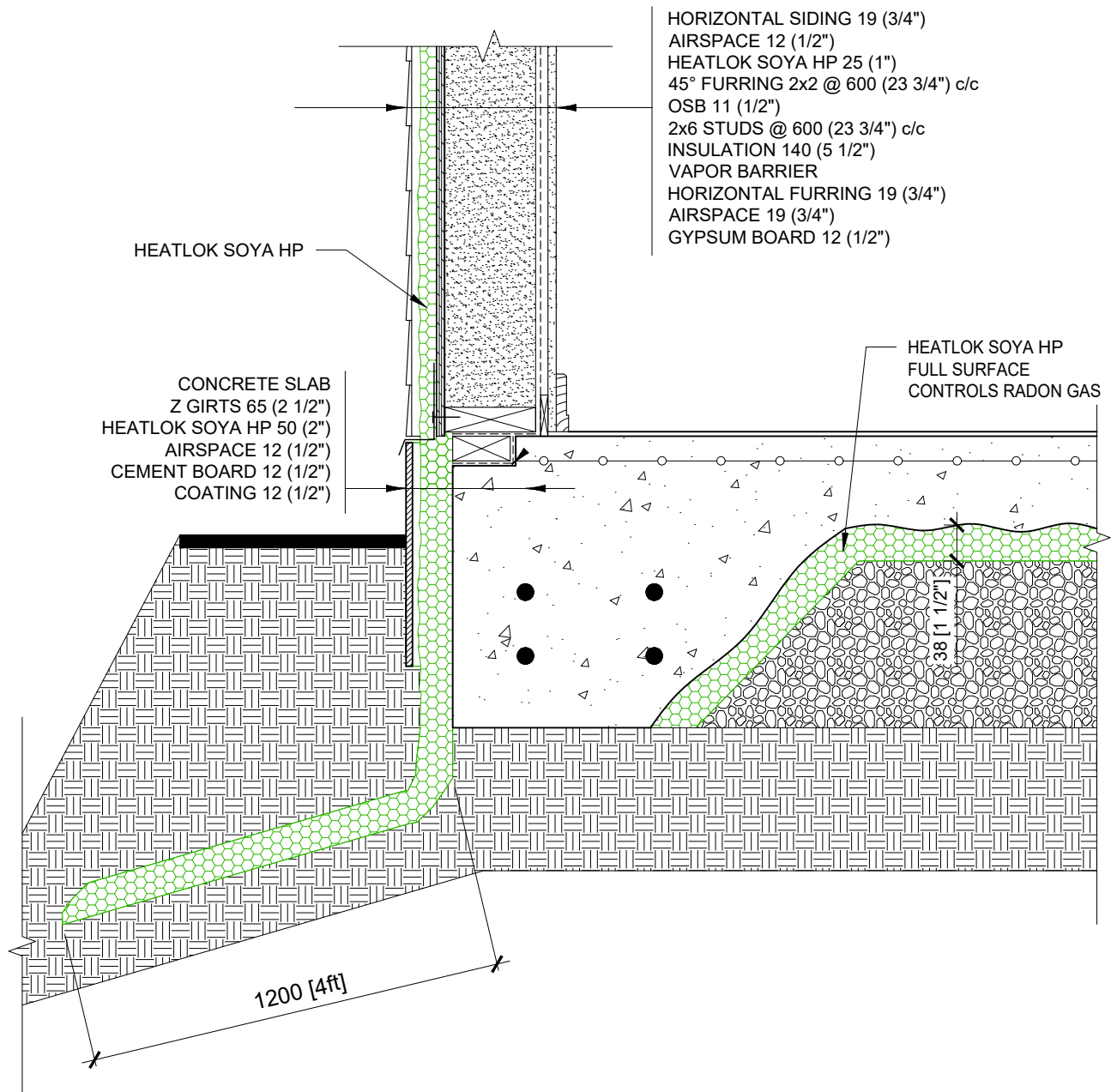
2x4 WALL - SIDING
 FOUNDATION BY EXTERIOR



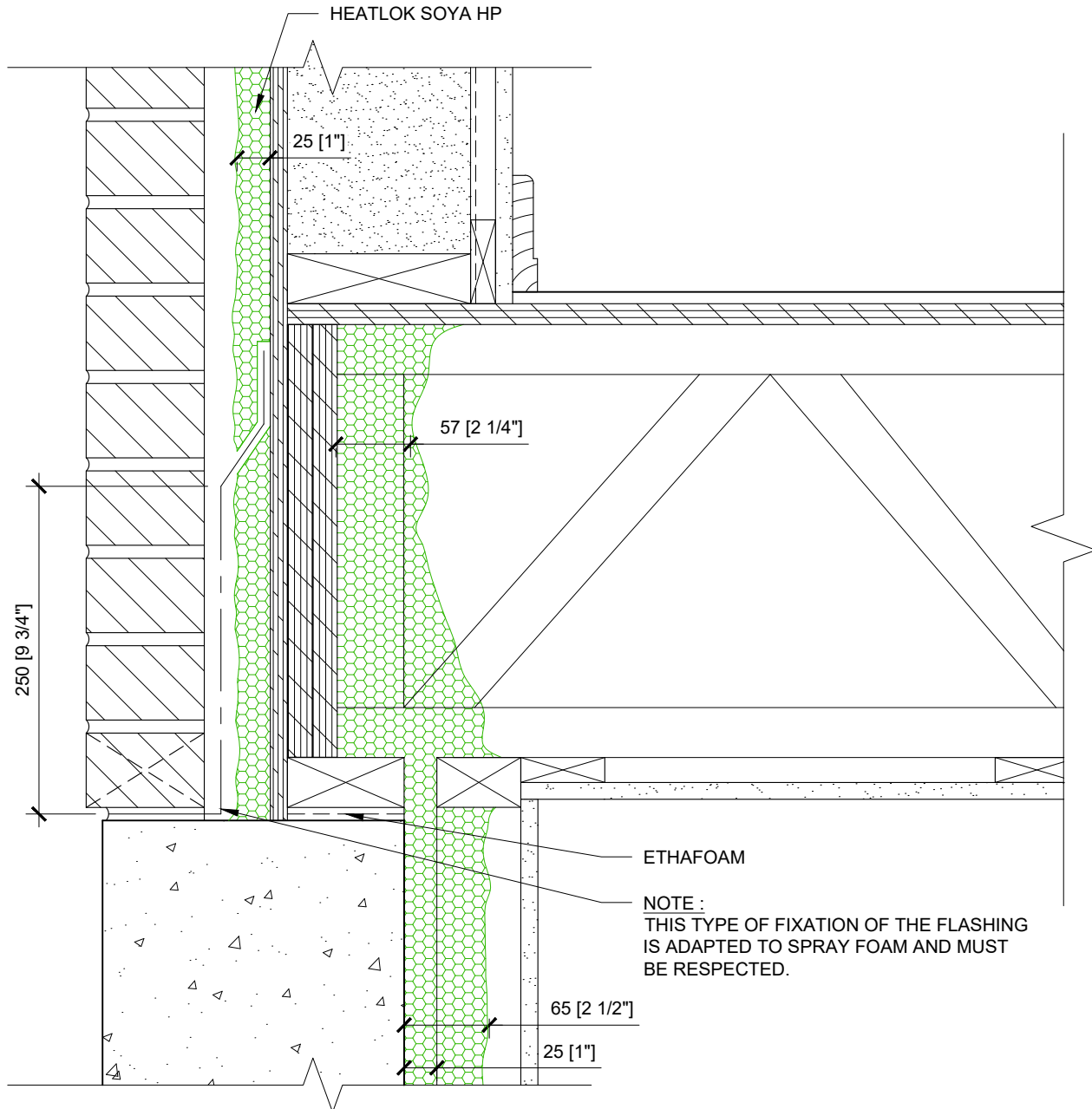
SLAB ON GRADE



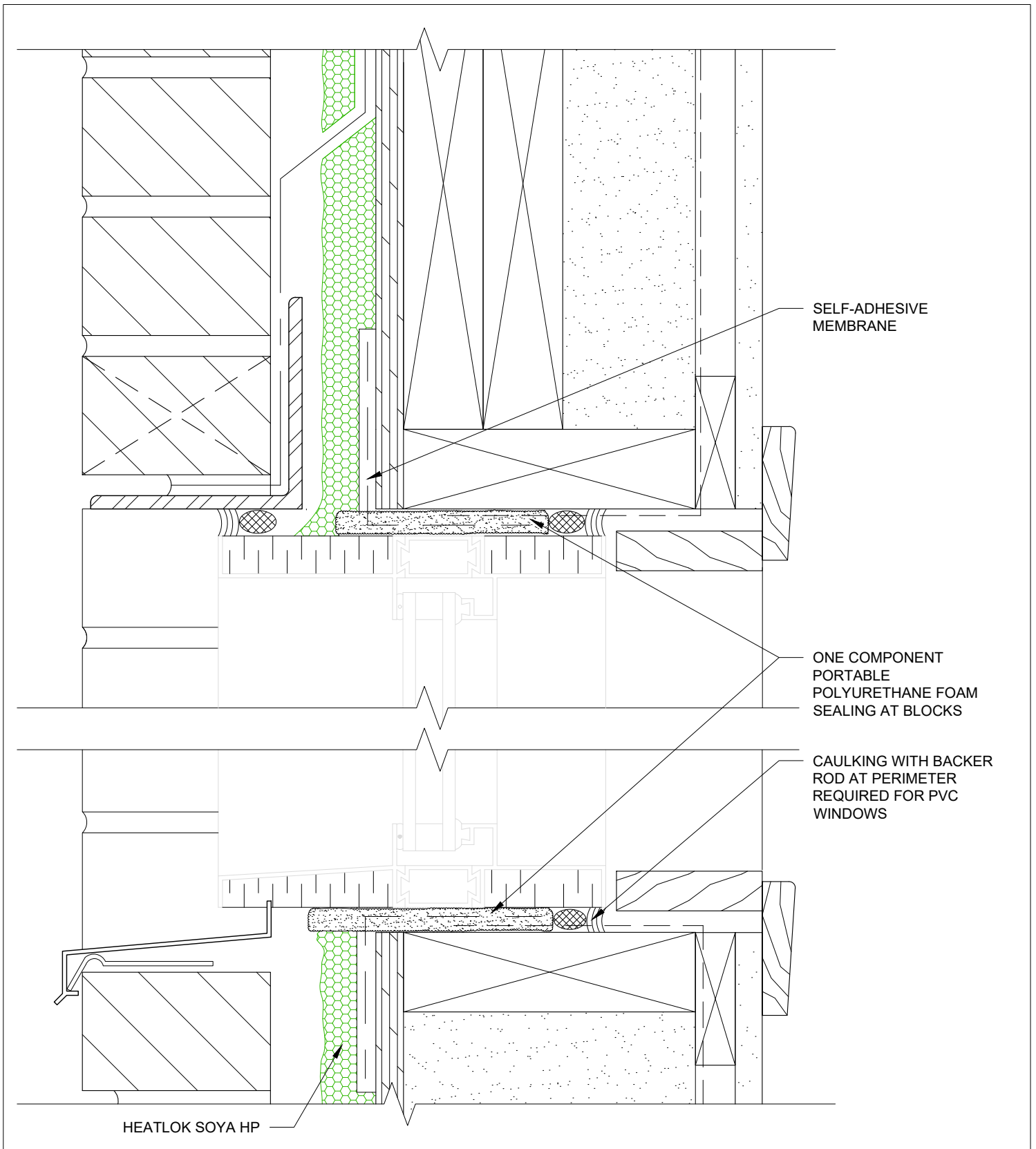
SLAB ON GRADE



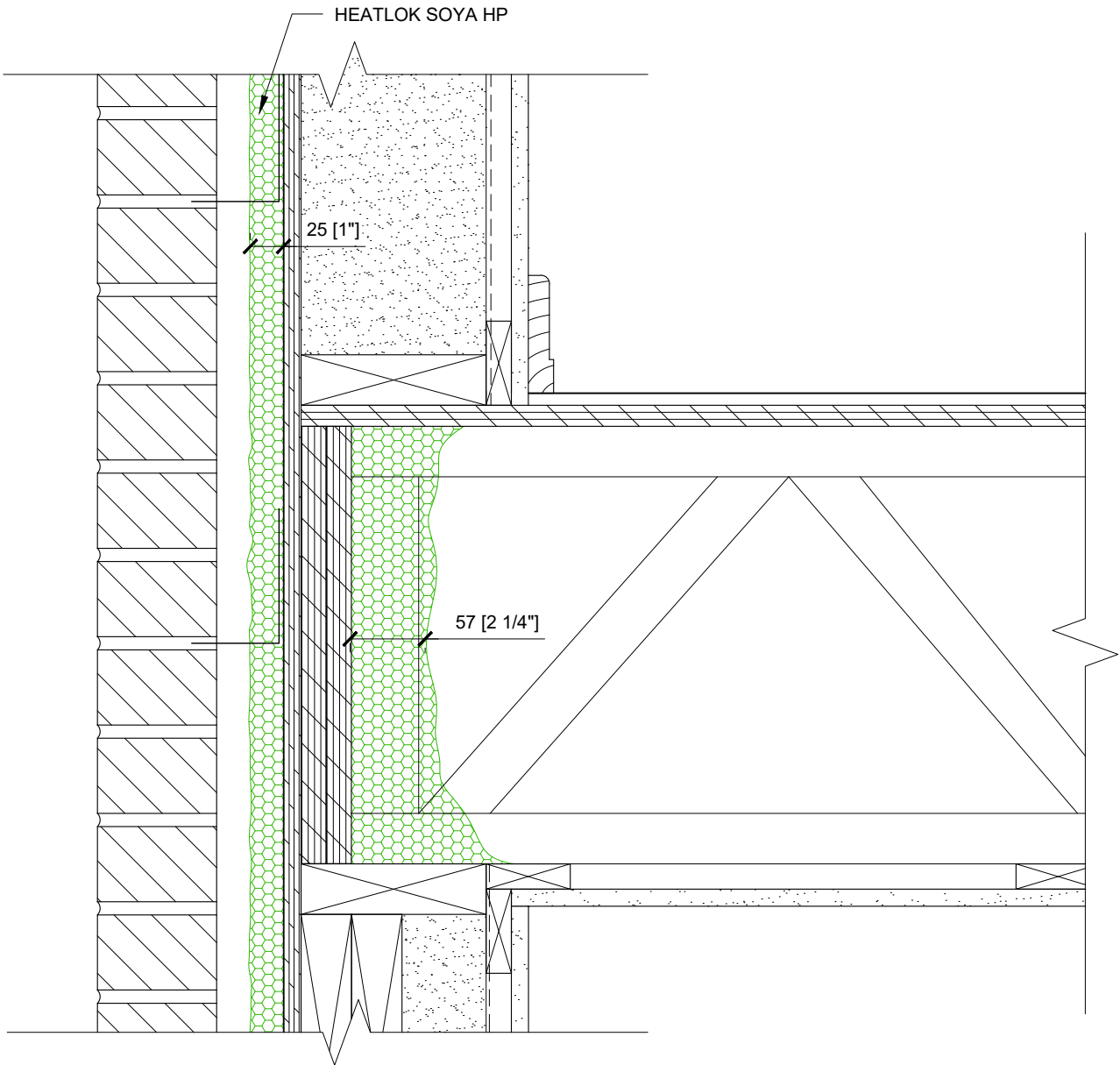
SLAB ON GRADE



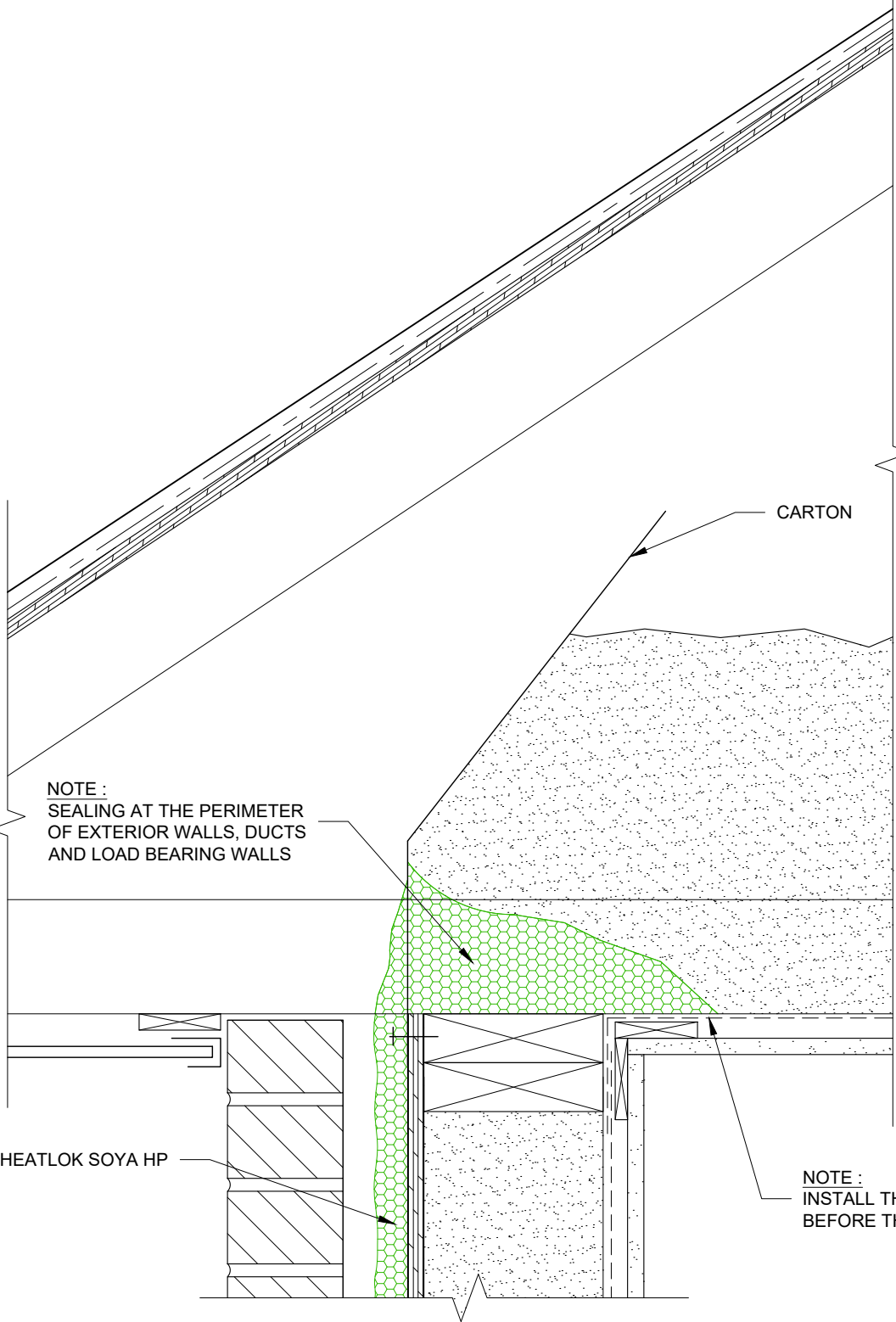
2x6 WALL - BRICK
RIM JOIST - FOUNDATION



2x6 WALL - BRICK
WINDOW



2x6 WALL - BRICK
RIM JOIST - 2ND FLOOR



NOTE :
SEALING AT THE PERIMETER
OF EXTERIOR WALLS, DUCTS
AND LOAD BEARING WALLS

CARTON

HEATLOK SOYA HP

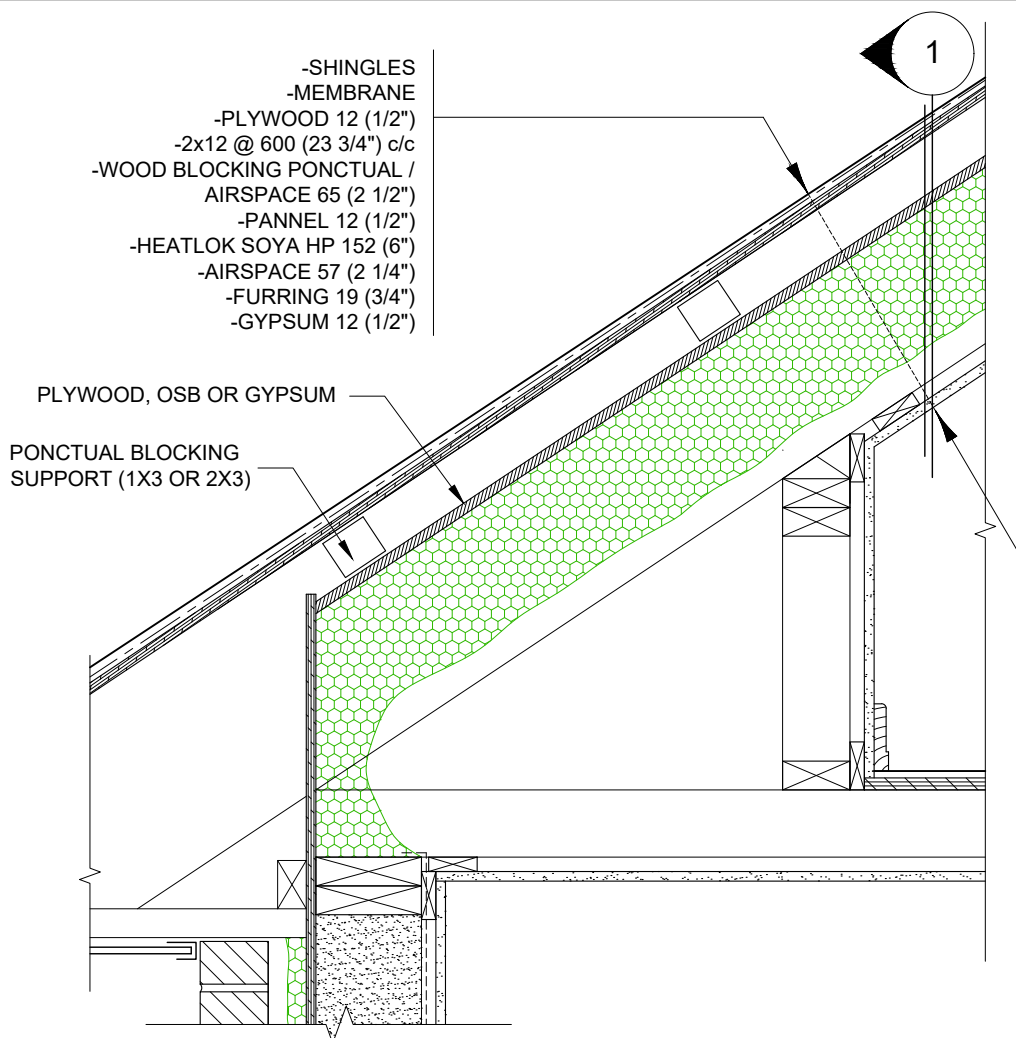
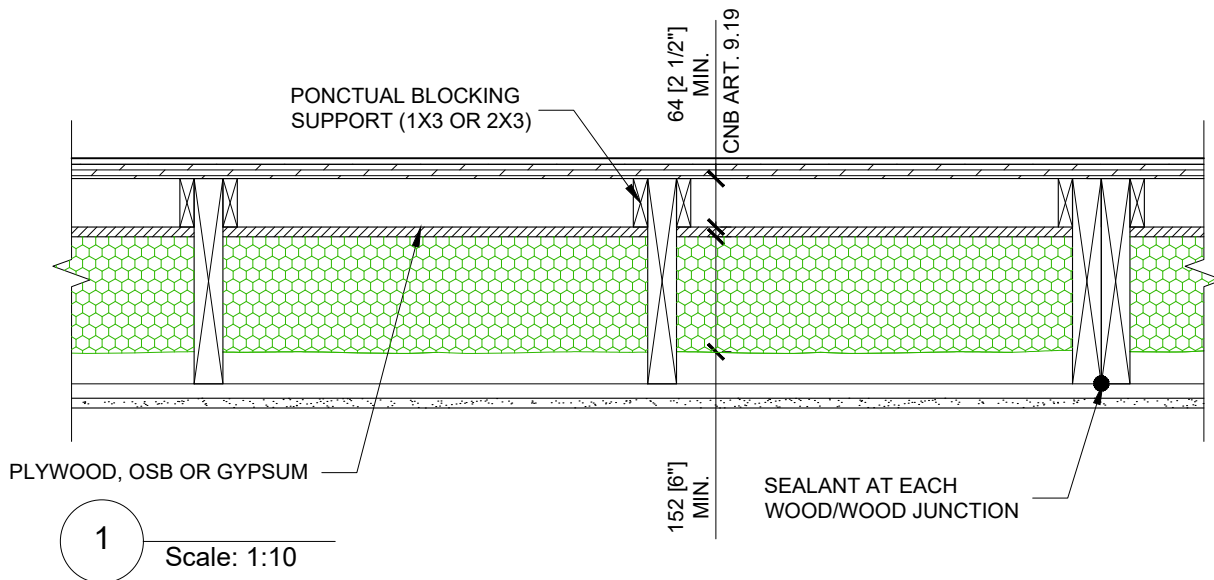
NOTE :
INSTALL THE VAPOR BARRIER
BEFORE THE PARTITIONS

2x6 WALL - BRICK
ATTIC JUNCTION

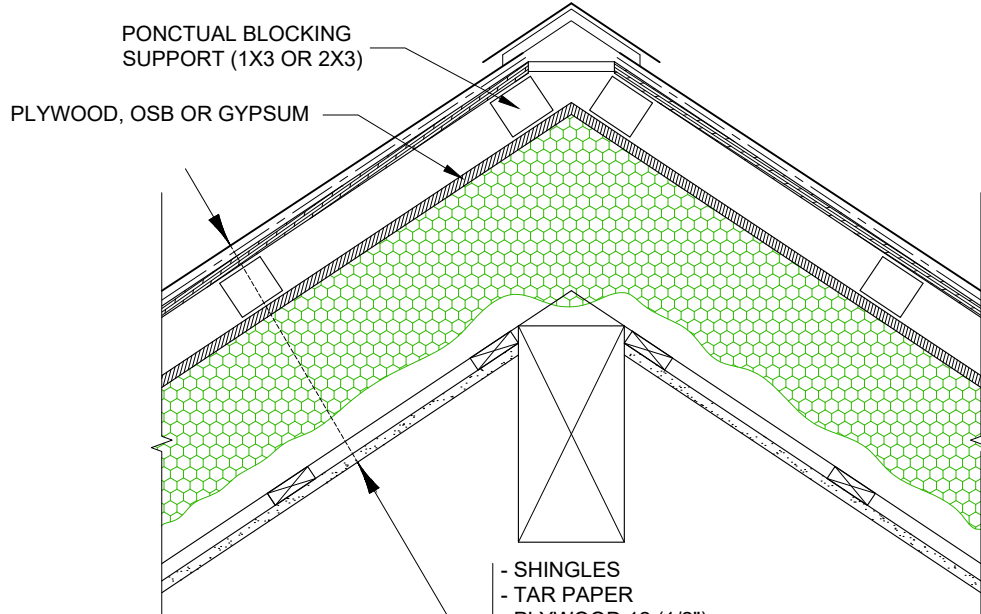
HUNTSMAN
BUILDING SOLUTIONS
1-888-783-0751 www.huntsmanbuildingsolutions.com

TYPICAL DETAIL
WOOD FRAMING

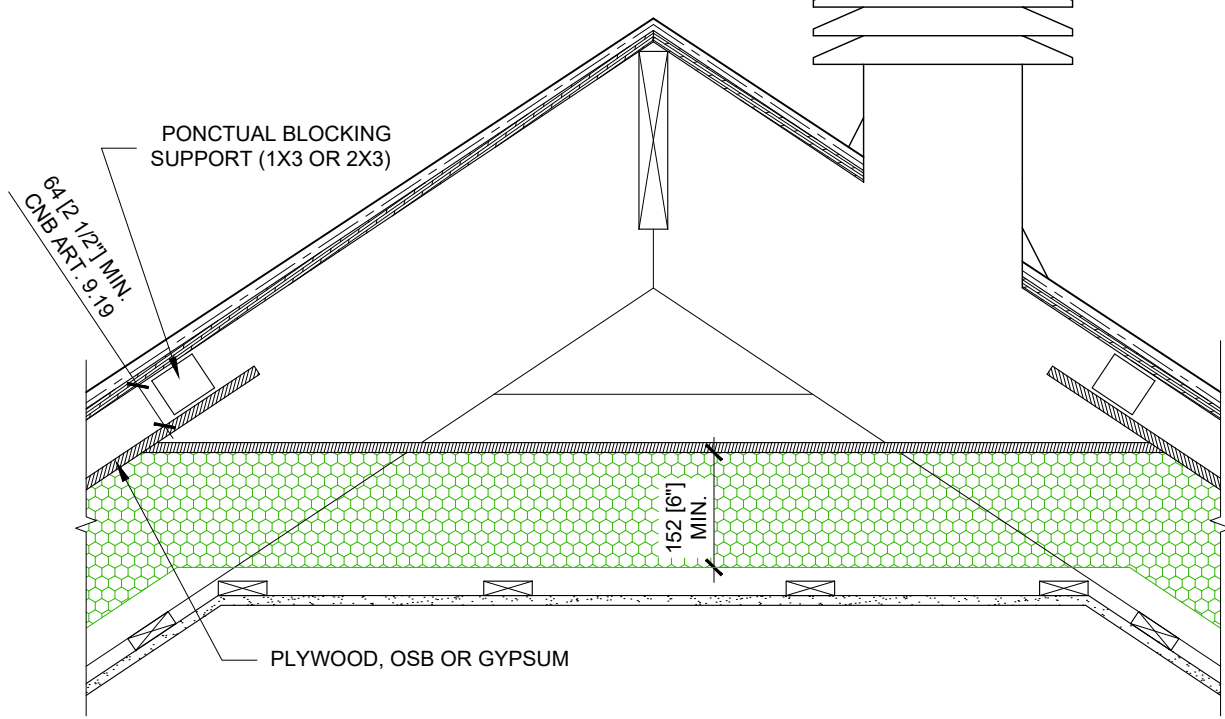
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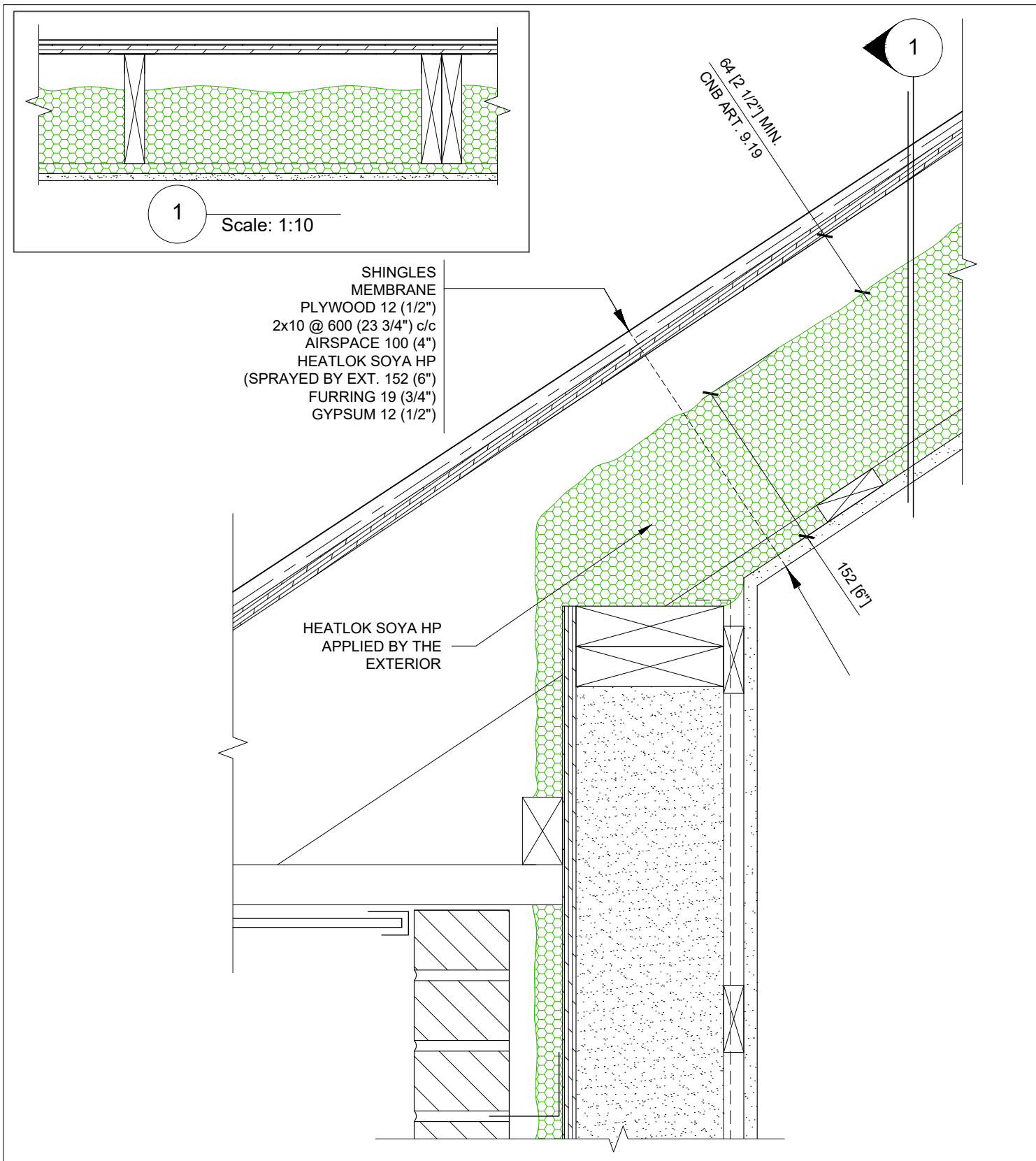
2x6 WALL - BRICK
CATHEDRAL VENTILATED -KNEE WALL



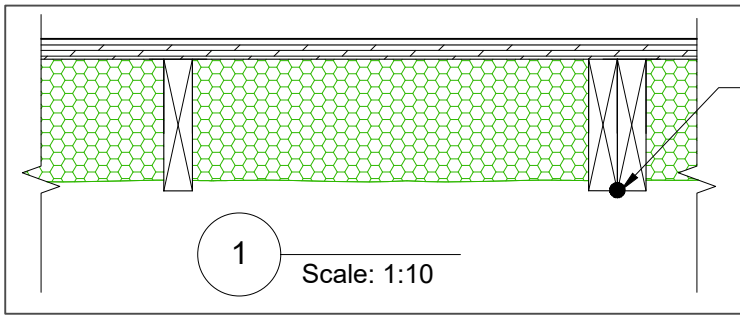
- SHINGLES
- TAR PAPER
- PLYWOOD 12 (1/2")
- 2x12 @ 600 (23 3/4") c/c
- WOOD BLOCKING /
- AIRSPACE 65 (2 1/2")
- BOX FIBRE 12 (1/2")
- HEATLOK SOYA HP 152 (6")
- AIRSPACE 57 (2 1/4")
- FURRING 19 (3/4")
- GYPSUM 12 (1/2")



2x6 WALL - BRICK
 CATHEDRAL VENTILATED - RIDGE



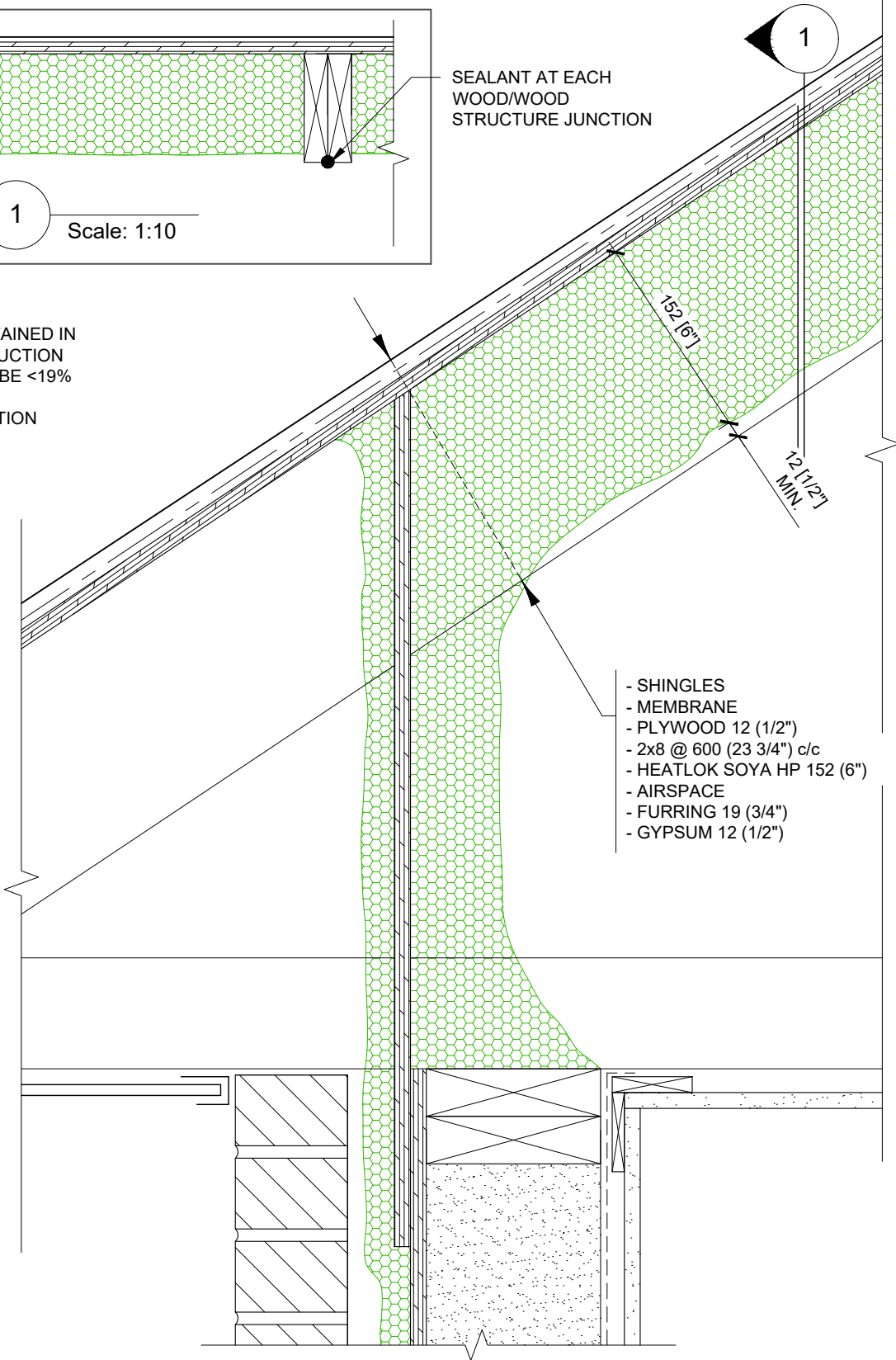
2x6 WALL - BRICK
VENTILATED CATHEDRAL ROOF EXT.



SEALANT AT EACH
WOOD/WOOD
STRUCTURE JUNCTION

1

ART. 9.3.2.5:
WATER CONTAINED IN
THE CONSTRUCTION
WOOD MUST BE <19%
DURING
IMPLEMENTATION



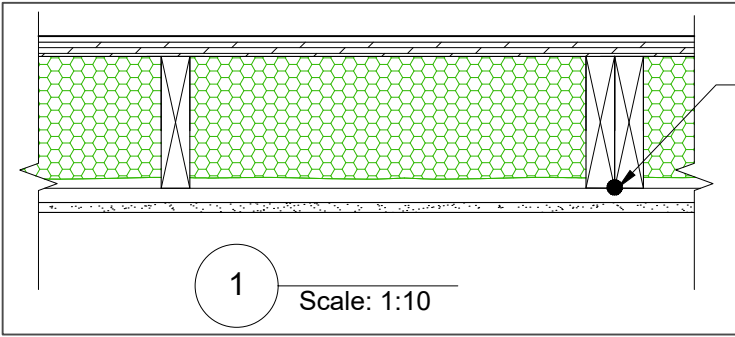
- SHINGLES
- MEMBRANE
- PLYWOOD 12 (1/2")
- 2x8 @ 600 (23 3/4") c/c
- HEATLOK SOYA HP 152 (6")
- AIRSPACE
- FURRING 19 (3/4")
- GYPSUM 12 (1/2")

2x6 WALL - BRICK
UNVENTED ROOF

HUNTSMAN
BUILDING SOLUTIONS
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TYPICAL DETAIL
WOOD FRAMING

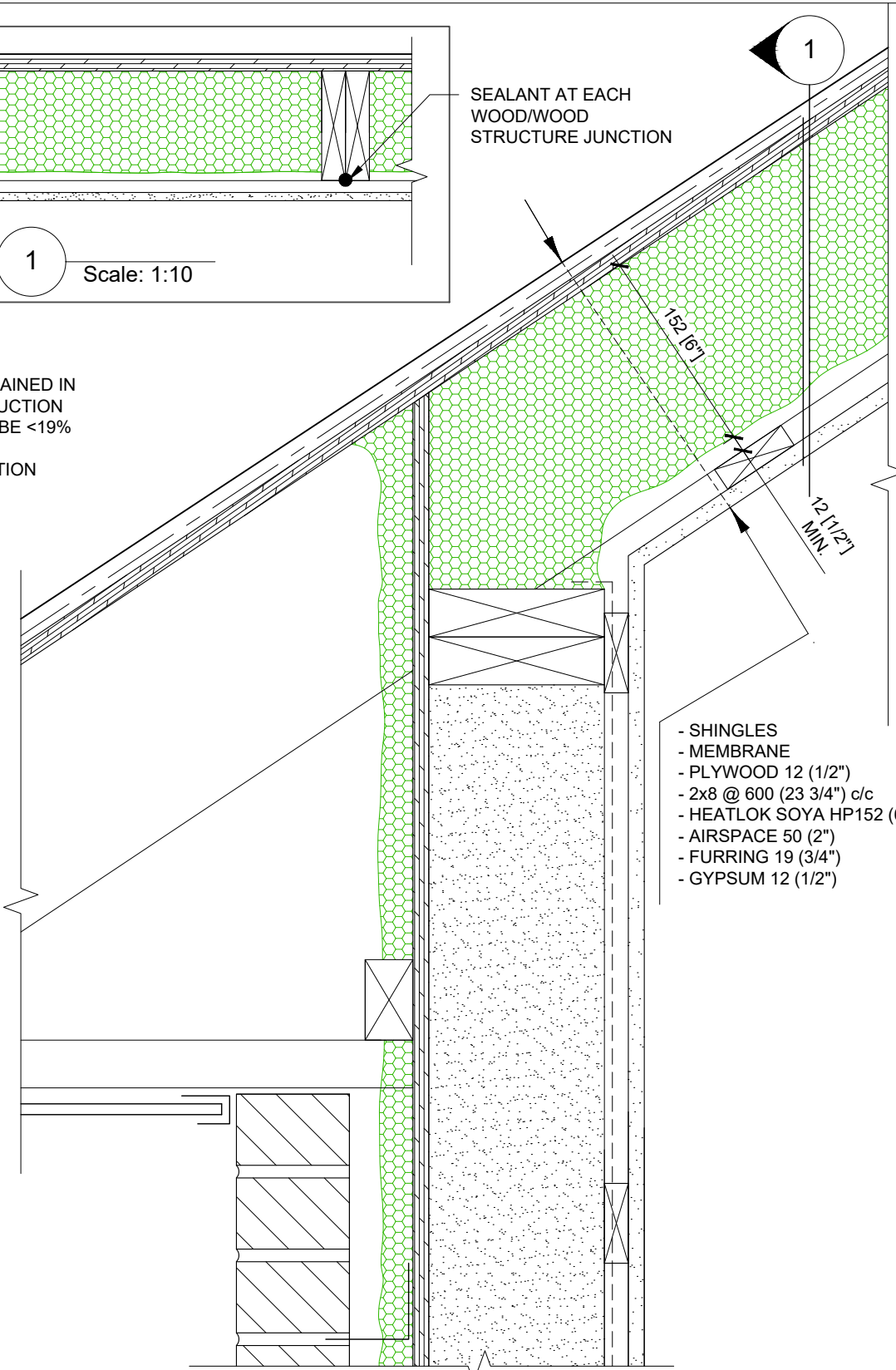
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SEALANT AT EACH
WOOD/WOOD
STRUCTURE JUNCTION

1

ART. 9.3.2.5:
WATER CONTAINED IN
THE CONSTRUCTION
WOOD MUST BE <19%
DURING
IMPLEMENTATION

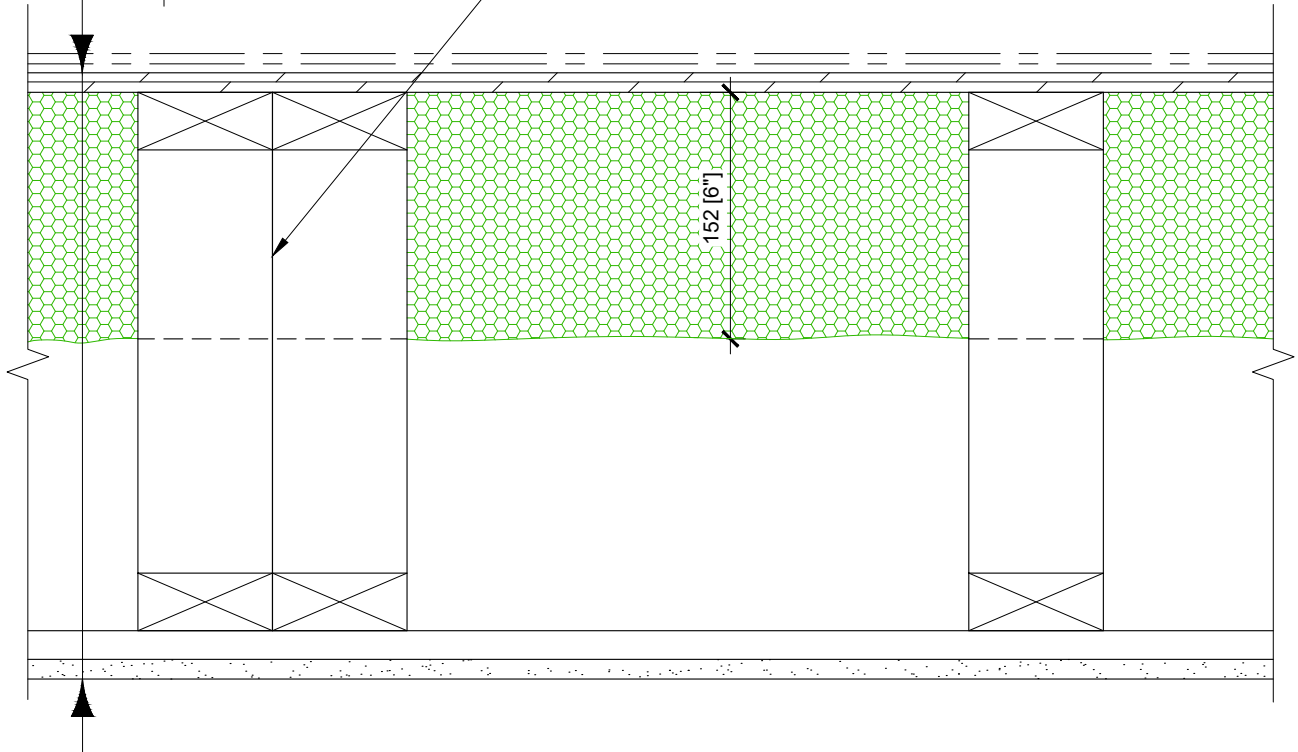


- SHINGLES
- MEMBRANE
- PLYWOOD 12 (1/2")
- 2x8 @ 600 (23 3/4") c/c
- HEATLOK SOYA HP152 (6")
- AIRSPACE 50 (2")
- FURRING 19 (3/4")
- GYPSUM 12 (1/2")

2x6 WALL - BRICK
UNVENTED CATHEDRAL ROOF

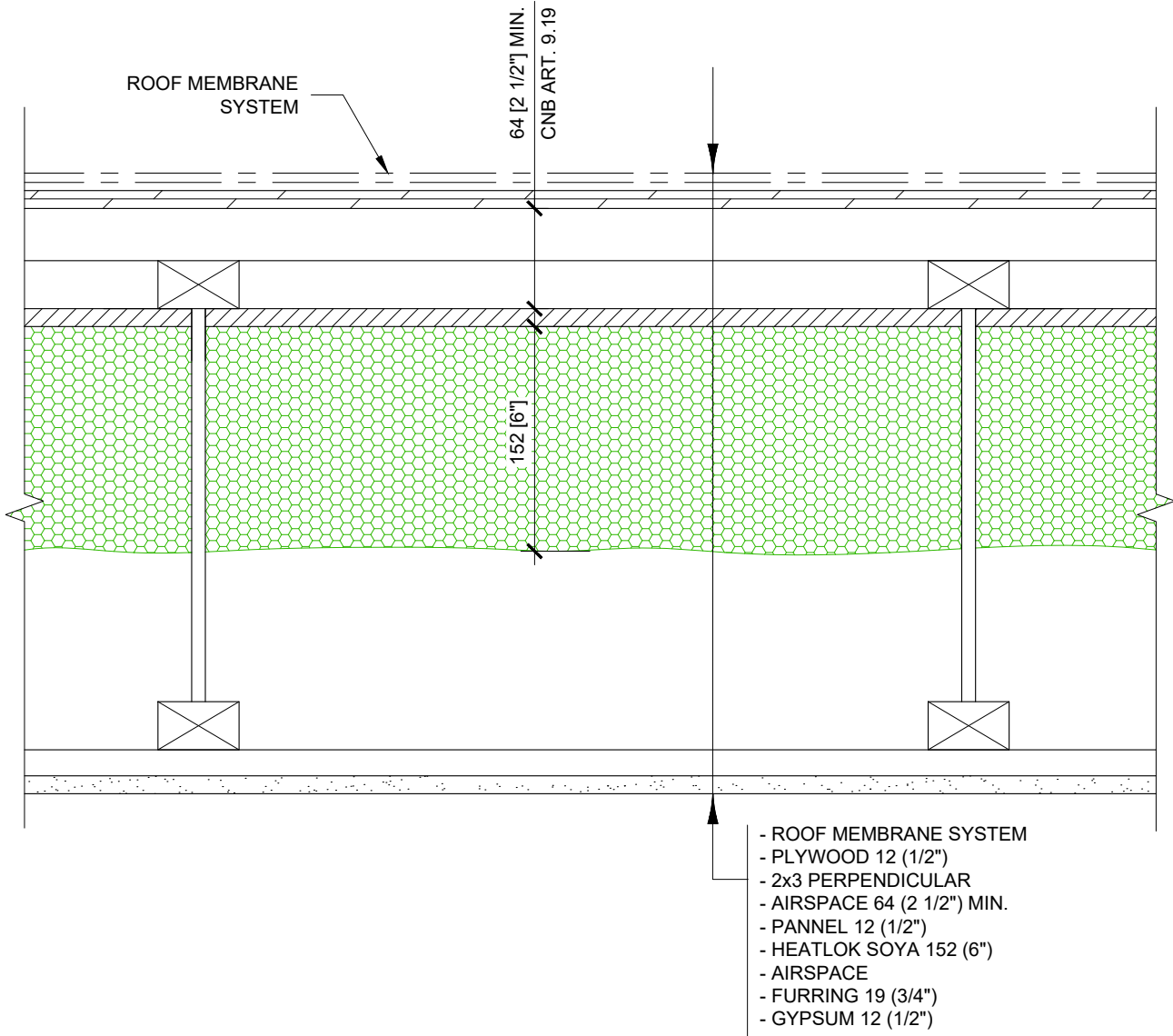
- ROOF MEMBRANE SYSTEM
- PLYWOOD 12 (1/2")
- HEATLOK SOYA HP 152 (6")
- AIRSPACE
- FURRING 19 (3/4")
- GYPSUM 12 (1/2")

NOTE: WARNING SYSTEM DISCONTINUITY
BEAM NON-ALIGNED OR COMPLETELY SEALED

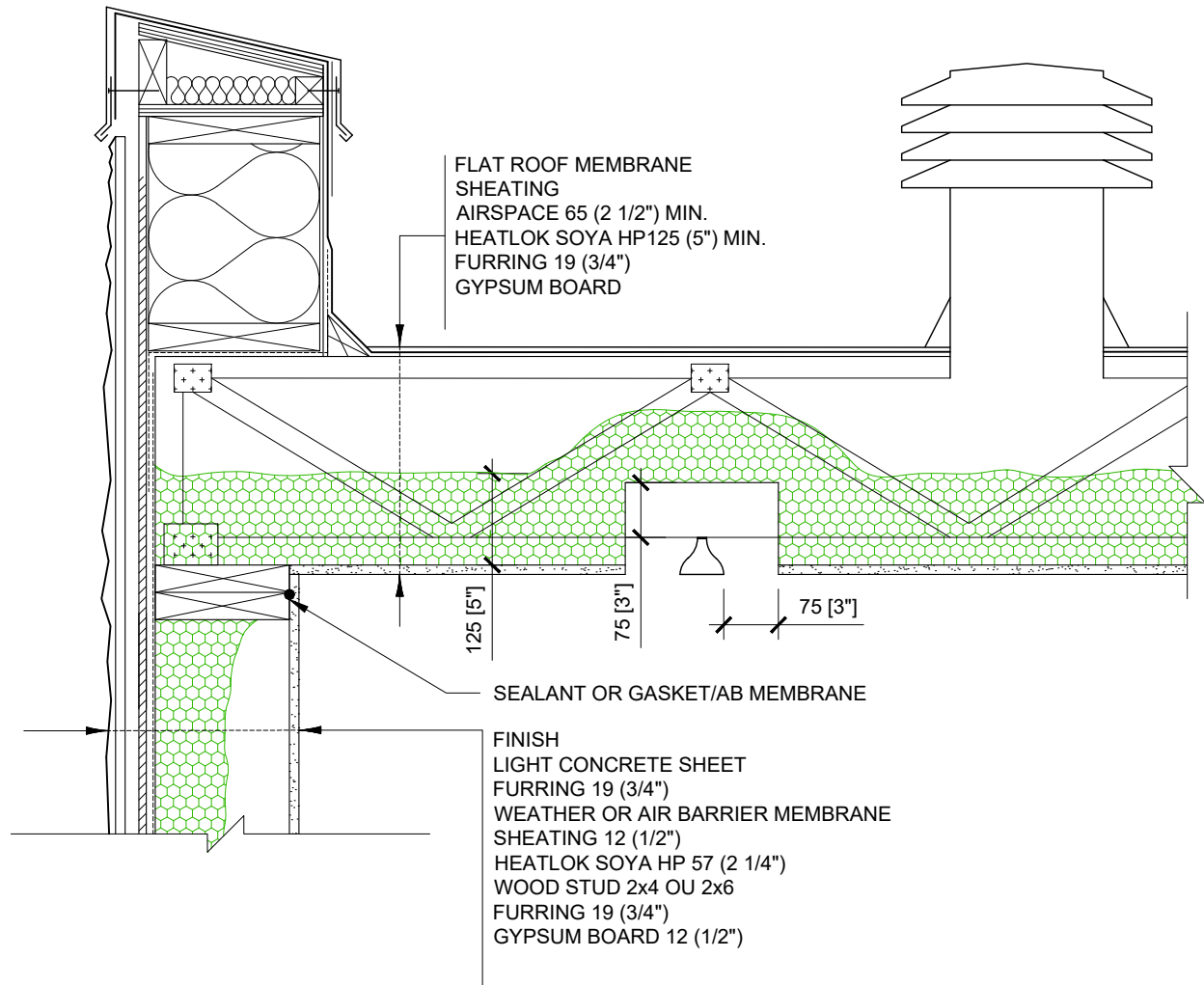


ART. 9.3.2.5:
THE WATER CONTENT OF CONSTRUCTION WOOD MUST BE <19%
WHEN IMPLEMENTATION.

UNVENTED ROOF

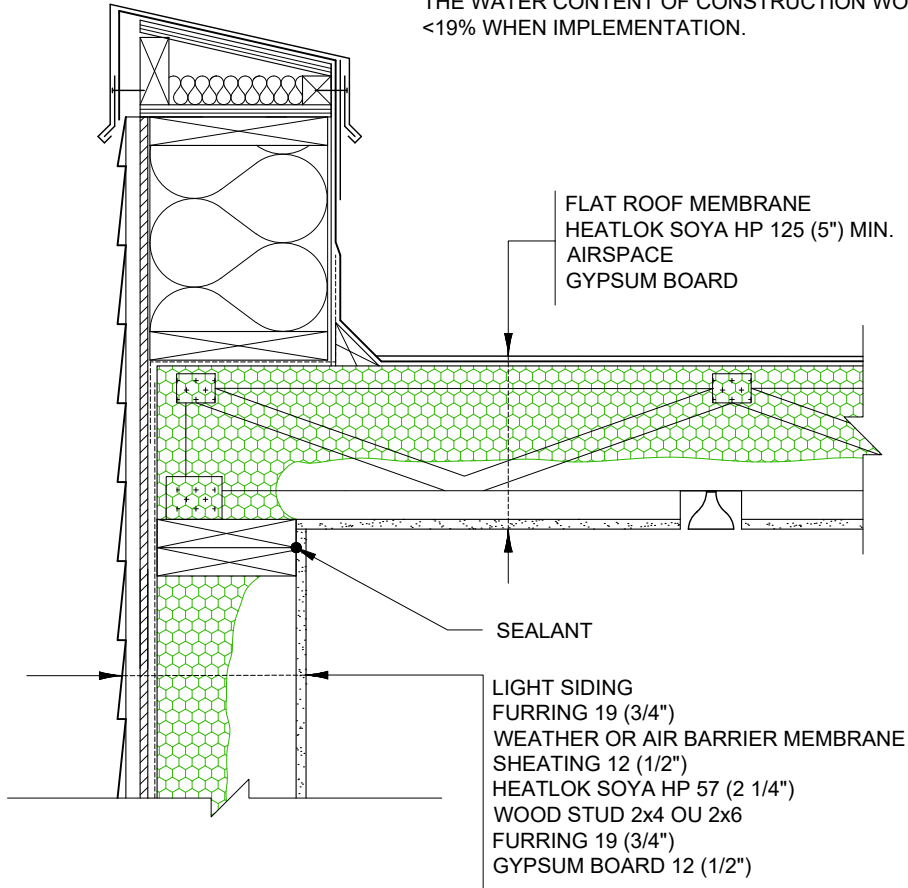


VENTILATED ROOF - I-JOISTS AND
OPEN WEB JOISTS

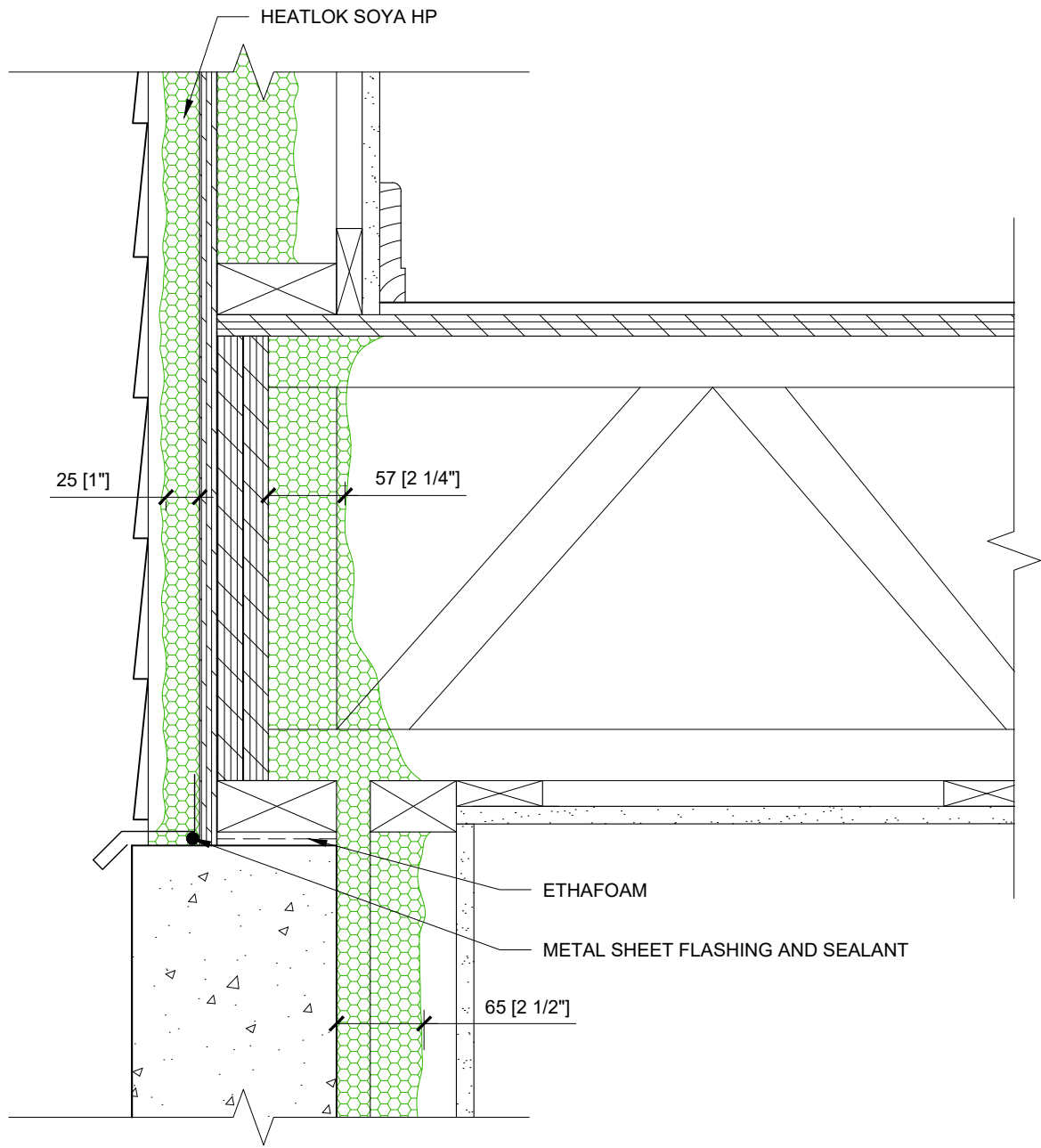


FLAT ROOF - VENTILATED

ART. 9.3.2.5:
 THE WATER CONTENT OF CONSTRUCTION WOOD MUST BE
 <19% WHEN IMPLEMENTATION.



FLAT ROOF - UNVENTILATED



2x4 WALL - SIDING
RIM JOIST - FOUNDATION

HEATLOK SOYA HP

SELF-ADHESIVE
MEMBRANE

19 [3/4"]

75 [3"]

ONE COMPONENT
PORTABLE
POLYURETHANE FOAM
SEALING AT BLOCKS

CAULKING WITH BACKER
ROD AT PERIMETER
REQUIRED FOR PVC
WINDOWS

2x4 WALL - SIDING
WINDOW

HUNTSMAN

BUILDING SOLUTIONS

1-888-783-0751

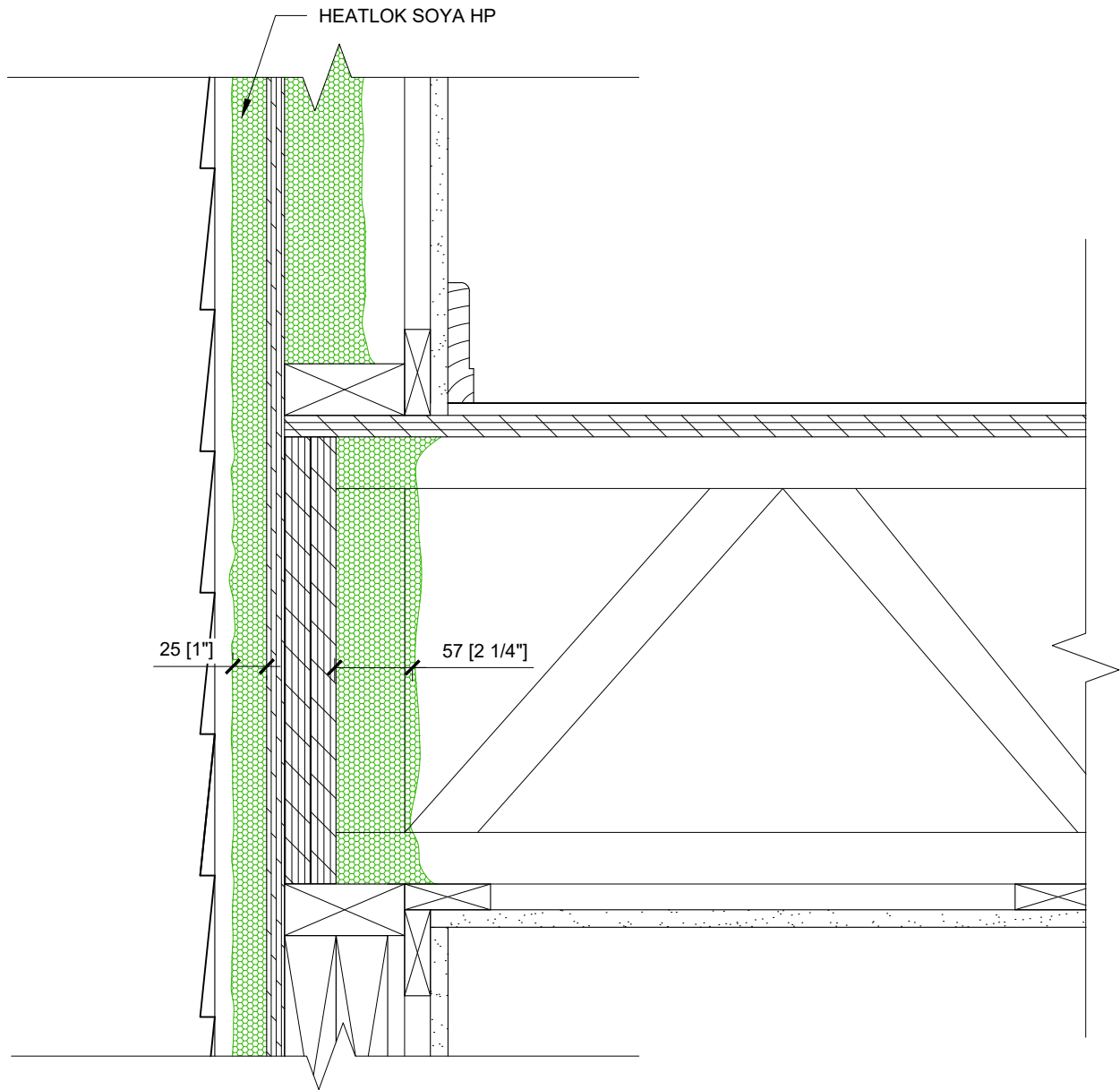
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TYPICAL DETAIL
WOOD FRAMING

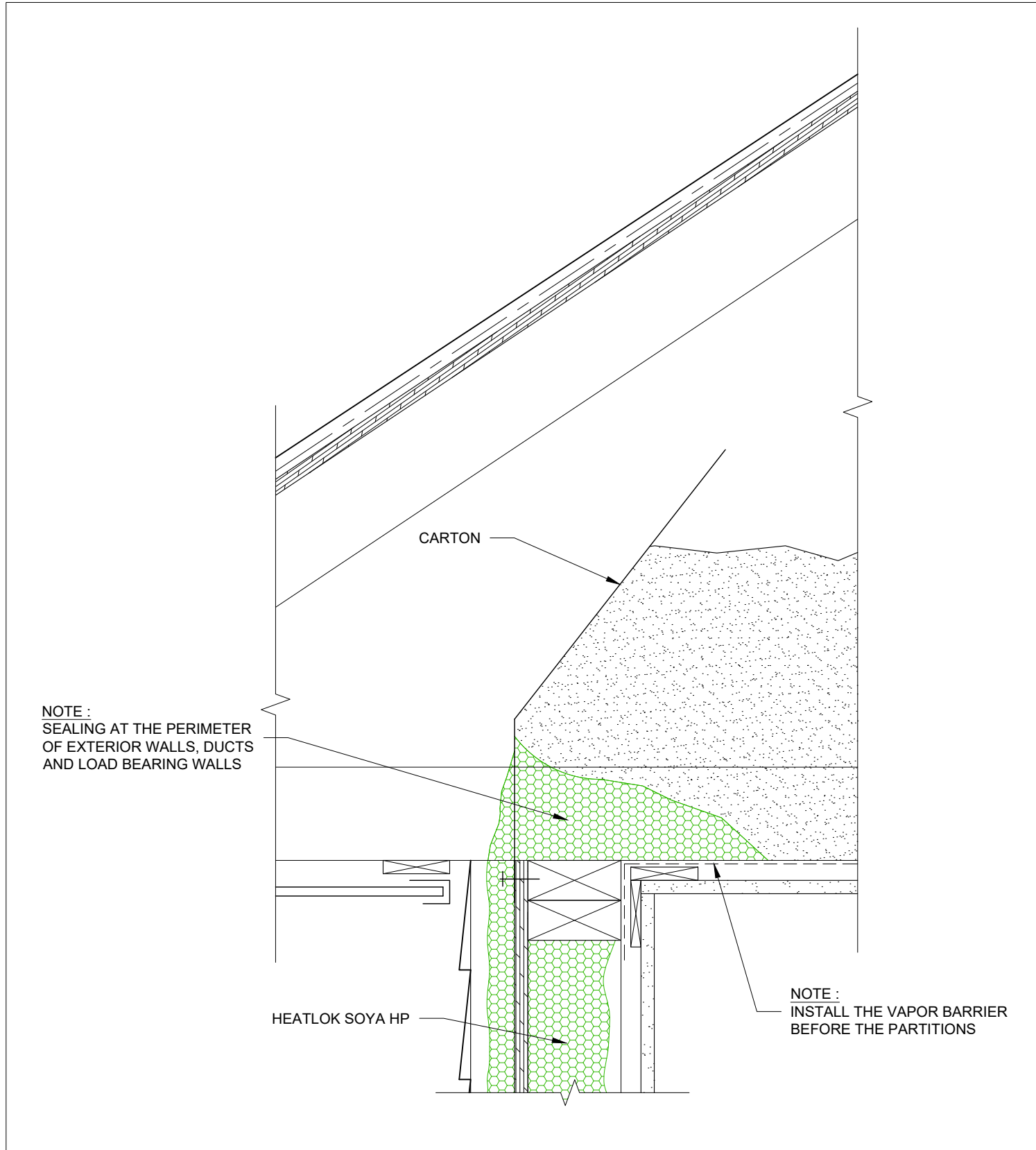
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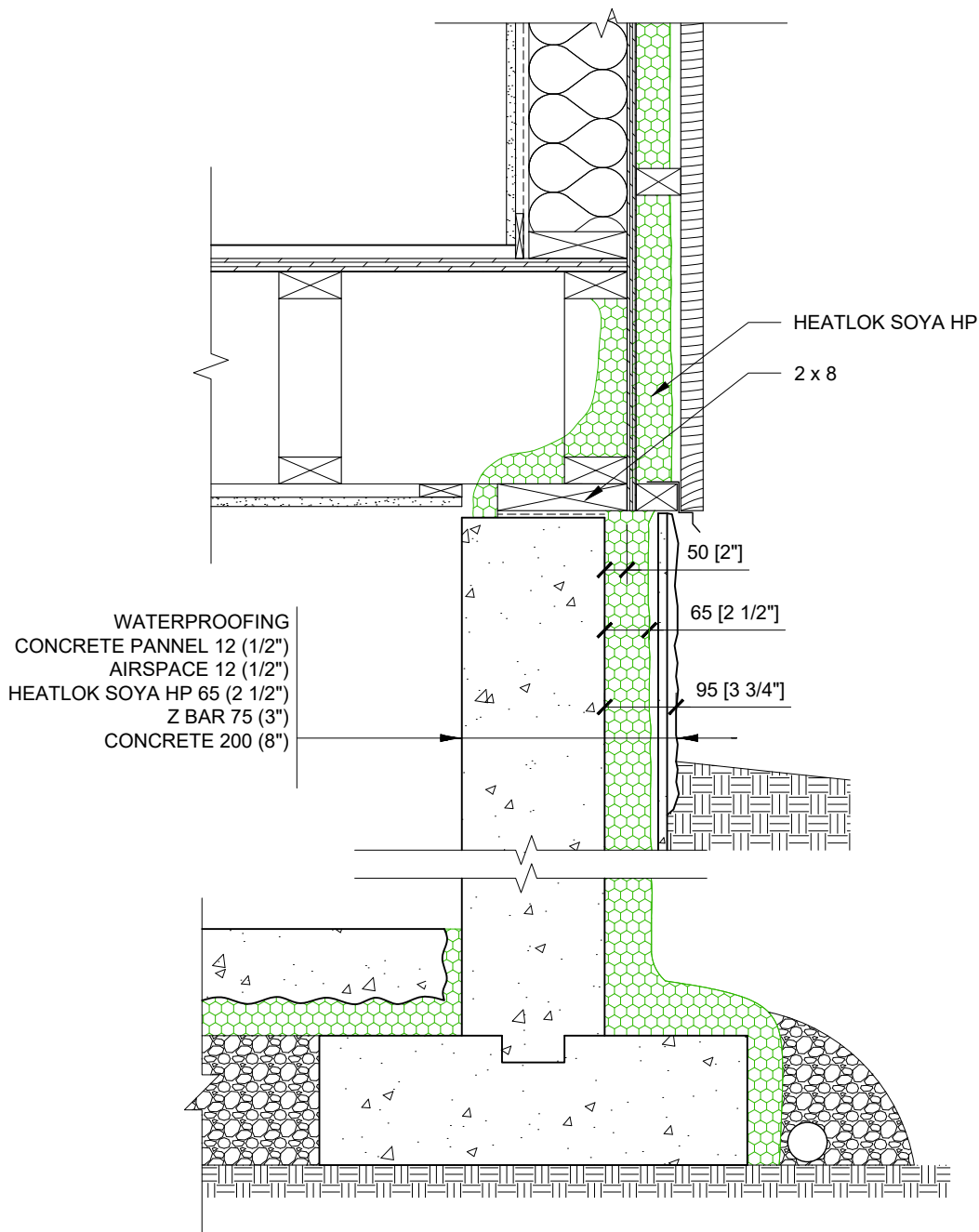
2x4 WALL - SIDING
RIM JOIST - 2ND FLOOR



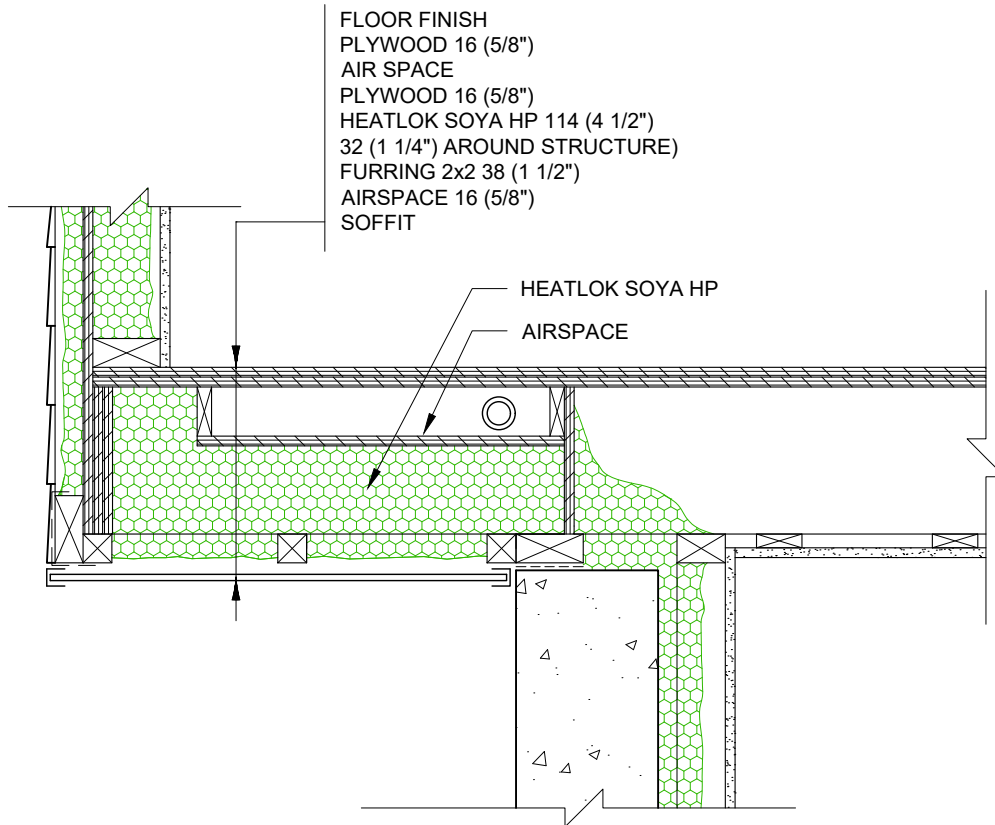
NOTE :
SEALING AT THE PERIMETER
OF EXTERIOR WALLS, DUCTS
AND LOAD BEARING WALLS

NOTE :
INSTALL THE VAPOR BARRIER
BEFORE THE PARTITIONS

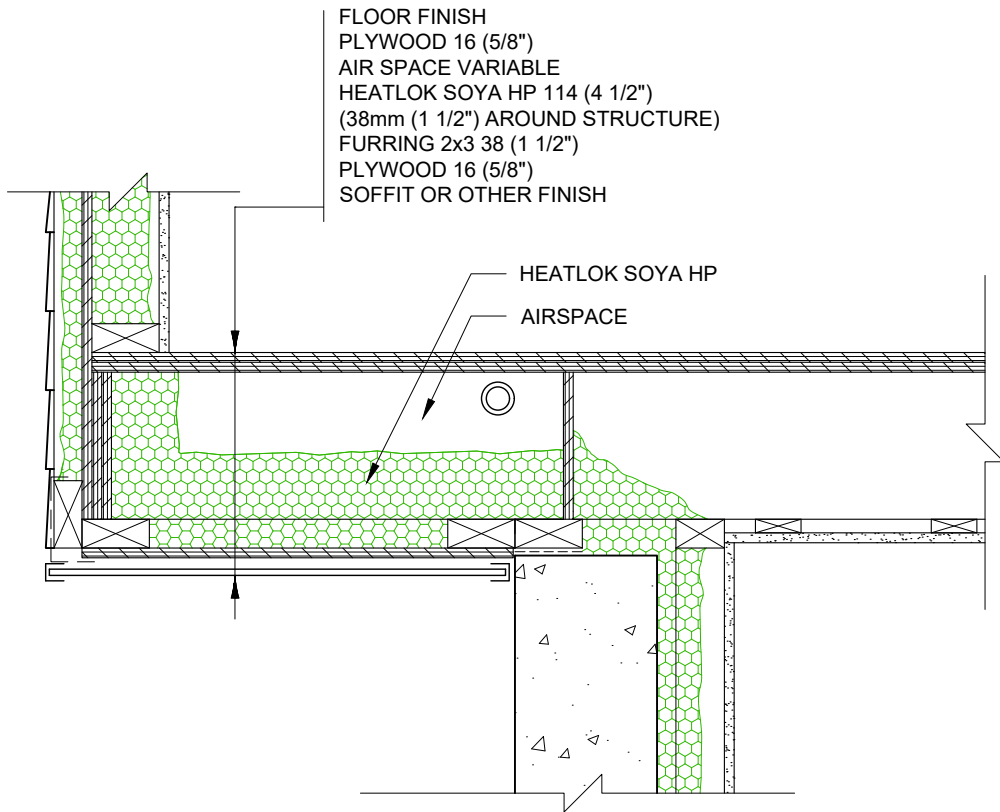
2x4 WALL - SIDING
ATTIC JUNCTION



50mm EXTERIOR AND
 EXTERIOR BASEMENT



CANTILEVERED FLOOR
BY EXTERIOR



FLOOR FINISH
 PLYWOOD 16 (5/8")
 AIR SPACE VARIABLE
 HEATLOK SOYA HP 114 (4 1/2")
 (38mm (1 1/2") AROUND STRUCTURE)
 FURRING 2x3 38 (1 1/2")
 PLYWOOD 16 (5/8")
 SOFFIT OR OTHER FINISH

HEATLOK SOYA HP
 AIRSPACE

CANTILEVERED FLOOR
 BY INTERIOR