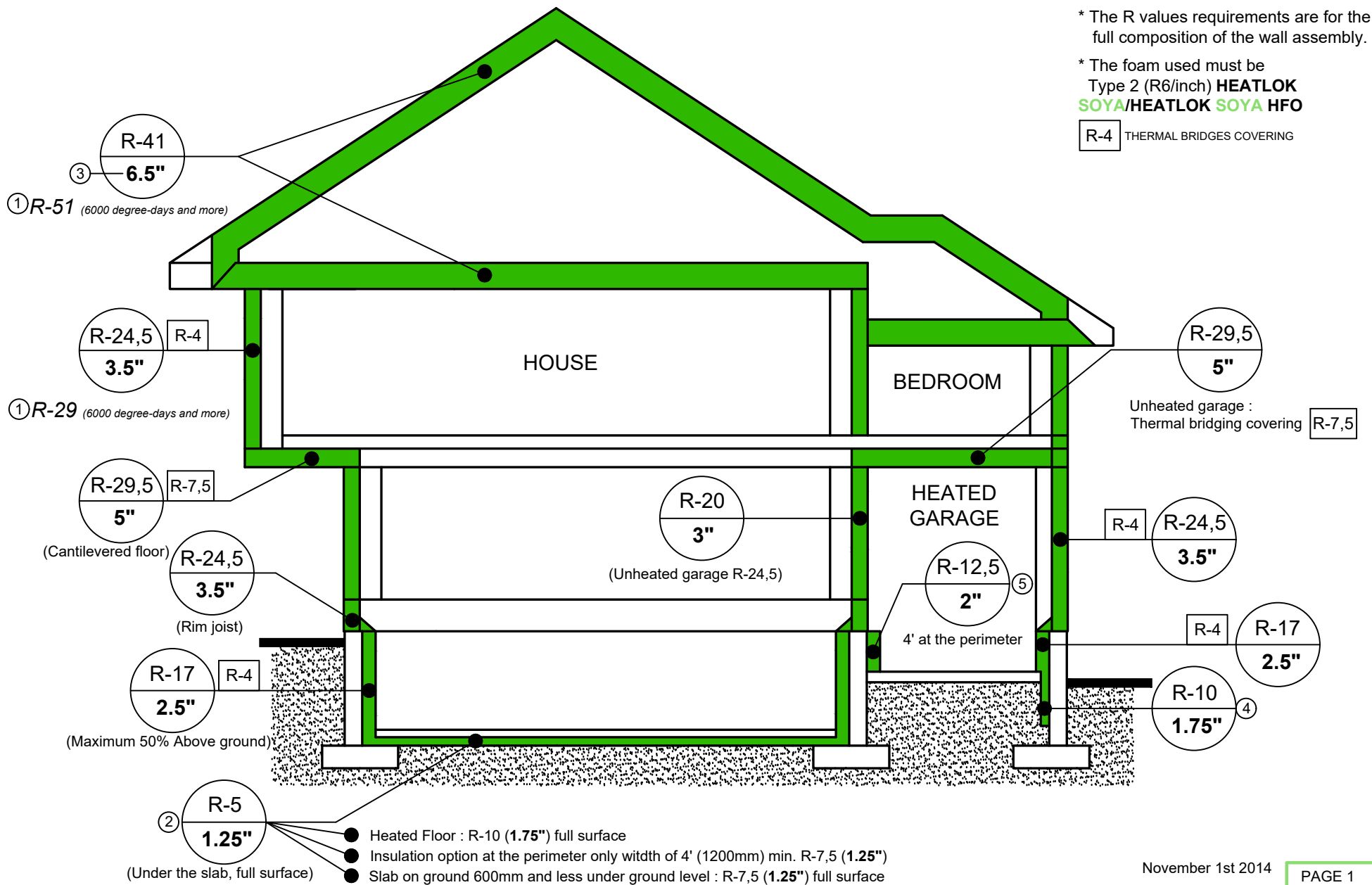


THERMAL INSULATION REQUIREMENTS (QUÉBEC PART 11)

TYPICAL DETAILS HEATLOK SOYA/HEATLOK SOYA HFO - WOOD FRAMING



November 1st 2014

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/HEATLOK SOYA HFO at 1.25" = Insulation + Vapor Barrier + Radon gas control

③ Thickness required HEATLOK SOYA/HEATLOK SOYA HFO

④ Wall under slab level

⑤ 4' on the wall in contact with exterior walls

Technical Support : 1.866.437.0223

info@demilec.com

CROSS SECTION : PAGE 3, 4, 5, 6
SLAB : PAGE 12, 13, 14
FOUNDATION BY INSIDE : PAGE 6, 7, 8, 9, 10
FOUNDATION BY OUTSIDE : PAGE 11, 33
RIM JOIST (FOUNDATION) : PAGE 10, 11, 12, 16, 29
WINDOW : PAGE 17, 30
RIM JOIST (FLOOR) : PAGE 18, 31
CANTILEVERED FLOOR : PAGE 34
ROOF ATTIC : PAGE 19, 32
VENTILATED CATHEDRAL ROOF : PAGE 20, 21, 22
NON VENTILATED CATHEDRAL ROOF : PAGE 23, 24, 25
ROOF ATTIC NON VENTILATED : PAGE 23
VENTILATED FLAT ROOF : PAGE 26, 27
NON VENTILATED FLAT ROOF : PAGE 25, 28

Date: 20-10-2020

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

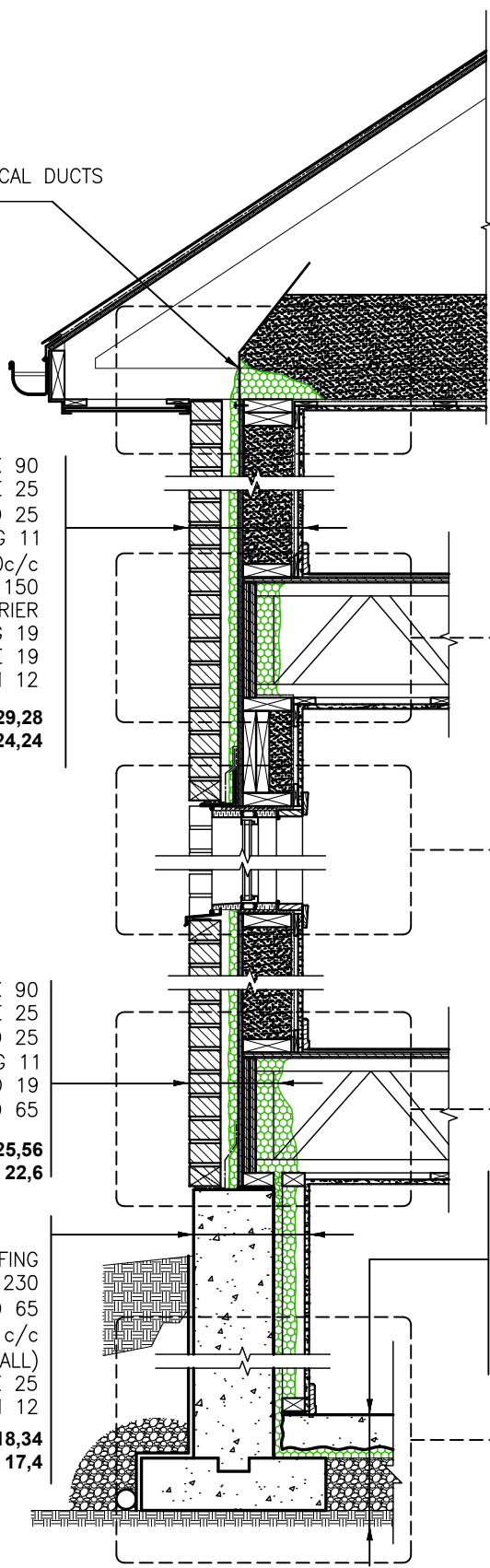
NOTE :
ALWAYS APPLY HEATLOK
SOYA/HEATLOK SOYA
HFO BEFORE
INSULATING THE WALL
CAVITY
ART. 9.3.2.5:
THE WATER CONTENT
OF CONSTRUCTION
WOOD MUST BE <19%
WHEN IMPLEMENTATION.

BRICK 90
AIR SPACE 25
HEATLOK SOYA/HEATLOK SOYA HFO 25
OSB SHEATING 11
WOOD STUD 2x6 @ 600c/c
FIBERGLASS INSULATION 150
VAPOR BARRIER
HORIZONTAL FURRING 19
AIR SPACE 19
GYPSUM 12
R TOTAL : 29,28
R EFFECTIVE : 24,24

BRICK 90
AIR SPACE 25
HEATLOK SOYA/HEATLOK SOYA HFO 25
OSB SHEATING 11
DOUBLE PLYWOOD 19
HEATLOK SOYA/HEATLOK SOYA HFO 65
R TOTAL : 25,56
R EFFECTIVE : 22,6

WATERPROOFING
CONCRETE WALL 230
HEATLOK SOYA/HEATLOK SOYA HFO 65
2x3 @ 400 c/c
(25 FROM FOUNDATION WALL)
AIR SPACE 25
GYPSUM 12
R TOTAL : 18,34
R EFFECTIVE : 17,4

CONCRETE SLAB 100
HEATLOK SOYA/HEATLOK SOYA HFO 32
(FULL SURFACE CONTROLS RADON GAS
9.13 CCQ)
CRUSHED STONE 100
ORIGINAL SOIL
R TOTAL : 8,94
R EFFECTIVE : 8,94



PAGE 19

PAGE 18

PAGE 17

PAGE 16

PAGE 7

TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:20

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

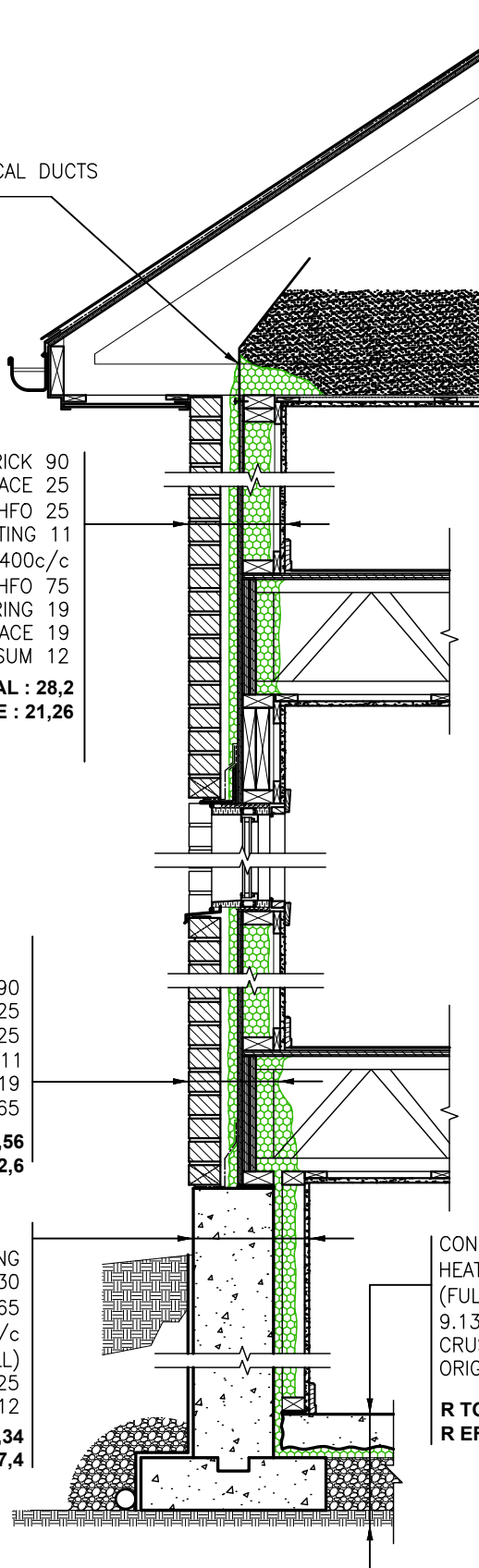
NOTE :
ALWAYS APPLY HEATLOK
SOYA/HEATLOK SOYA
HFO BEFORE
INSULATING THE WALL
CAVITY
ART. 9.3.2.5:
THE WATER CONTENT
OF CONSTRUCTION
WOOD MUST BE <19%
WHEN IMPLEMENTATION.

BRICK 90
AIR SPACE 25
HEATLOK SOYA/HEATLOK SOYA HFO 25
OSB SHEATING 11
WOOD STUD 2x4 @ 400c/c
HEATLOK SOYA/HEATLOK SOYA HFO 75
HORIZONTAL FURRING 19
AIR SPACE 19
GYPSUM 12
R TOTAL : 28,2
R EFFECTIVE : 21,26

BRICK 90
AIR SPACE 25
HEATLOK SOYA/HEATLOK SOYA HFO 25
OSB SHEATING 11
DOUBLE PLYWOOD 19
HEATLOK SOYA/HEATLOK SOYA HFO 65
R TOTAL : 25,56
R EFFECTIVE : 22,6

WATERPROOFING
CONCRETE WALL 230
HEATLOK SOYA/HEATLOK SOYA HFO 65
2x3 @ 400 c/c
(25 FROM FOUNDATION WALL)
AIR SPACE 25
GYPSUM 12
R TOTAL : 18,34
R EFFECTIVE : 17,4

CONCRETE SLAB 100
HEATLOK SOYA/HEATLOK SOYA HFO 32
(FULL SURFACE CONTROLS RADON GAS
9.13 CCQ)
CRUSHED STONE 100
ORIGINAL SOIL
R TOTAL : 8,94
R EFFECTIVE : 8,94



TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:20

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

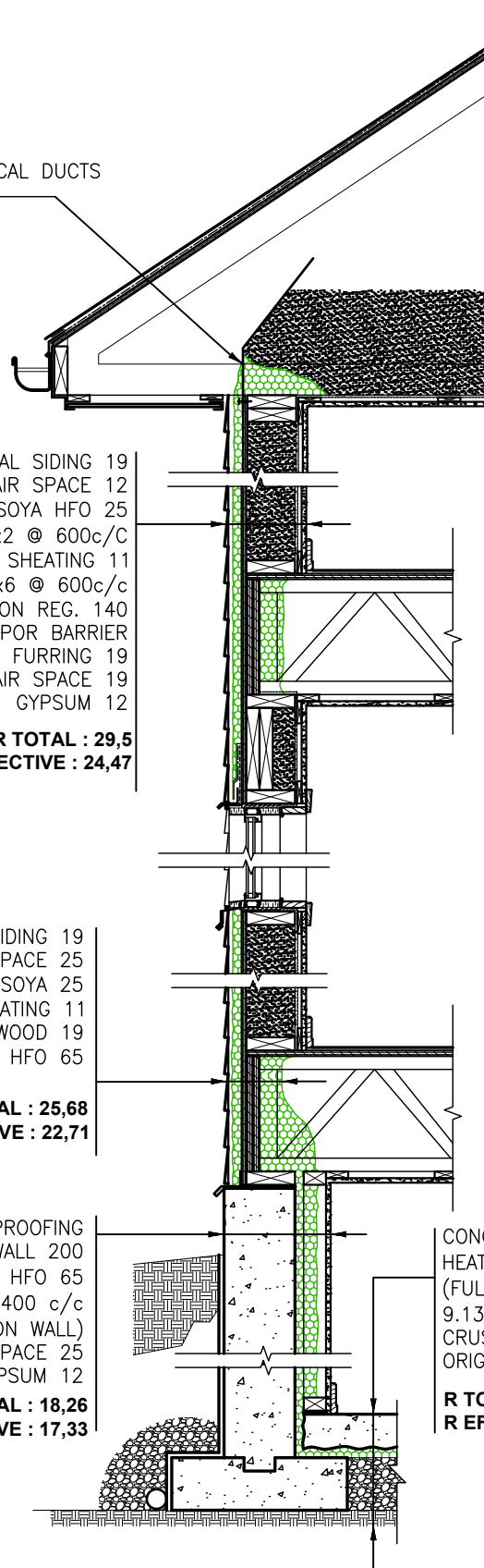
NOTE :
ALWAYS APPLY HEATLOK
SOYA/HEATLOK SOYA
HFO BEFORE
INSULATING THE WALL
CAVITY
ART. 9.3.2.5:
THE WATER CONTENT
OF CONSTRUCTION
WOOD MUST BE <19%
WHEN IMPLEMENTATION.

HORIZONTAL SIDING 19
AIR SPACE 12
HEATLOK SOYA/HEATLOK SOYA HFO 25
VERTICAL FURRING 2x2 @ 600c/c
OSB SHEATING 11
WOOD STUD 2x6 @ 600c/c
FIBERGLASS INSULATION REG. 140
VAPOR BARRIER
HORIZONTAL FURRING 19
AIR SPACE 19
GYPSUM 12
R TOTAL : 29,5
R EFFECTIVE : 24,47

HORIZONTAL SIDING 19
AIR SPACE 25
AIRMÉTIC SOYA 25
OSB SHEATING 11
DOUBLE PLYWOOD 19
HEATLOK SOYA/HEATLOK SOYA HFO 65
R TOTAL : 25,68
R EFFECTIVE : 22,71

WATERPROOFING
CONCRETE WALL 200
HEATLOK SOYA/HEATLOK SOYA HFO 65
2x3 @ 400 c/c
(25 FROM FOUNDATION WALL)
AIR SPACE 25
GYPSUM 12
R TOTAL : 18,26
R EFFECTIVE : 17,33

CONCRETE SLAB 100
HEATLOK SOYA/HEATLOK SOYA HFO 32
(FULL SURFACE CONTROLS RADON GAS
9.13 CCQ)
CRUSHED STONE 100
ORIGINAL SOIL
R TOTAL : 8,94
R EFFECTIVE : 8,94



TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:20

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

NOTE :
ALWAYS APPLY HEATLOK
SOYA/HEATLOK SOYA
HFO BEFORE
INSULATING THE WALL
CAVITY
ART. 9.3.2.5:
THE WATER CONTENT
OF CONSTRUCTION
WOOD MUST BE <19%
WHEN IMPLEMENTATION.

HORIZONTAL SIDING 90
AIR SPACE 12
HEATLOK SOYA/HEATLOK SOYA HFO 25
45° FURRING 2x2 @ 400c/c
OSB SHEATING 11
WOOD STUD 2x4 @ 400c/c
HEATLOK SOYA/HEATLOK SOYA HFO 75
VAPOR BARRIER POLYAIR FLEXFOIL
HORIZONTAL FURRING 19
AIR SPACE 19
GYPSUM 12

R TOTAL : 28,42
R EFFECTIVE : 21,49

HORIZONTAL SIDING 19
AIR SPACE 25
HEATLOK SOYA/HEATLOK SOYA HFO 25
OSB SHEATING 11
DOUBLE PLYWOOD 19
HEATLOK SOYA/HEATLOK SOYA HFO 65

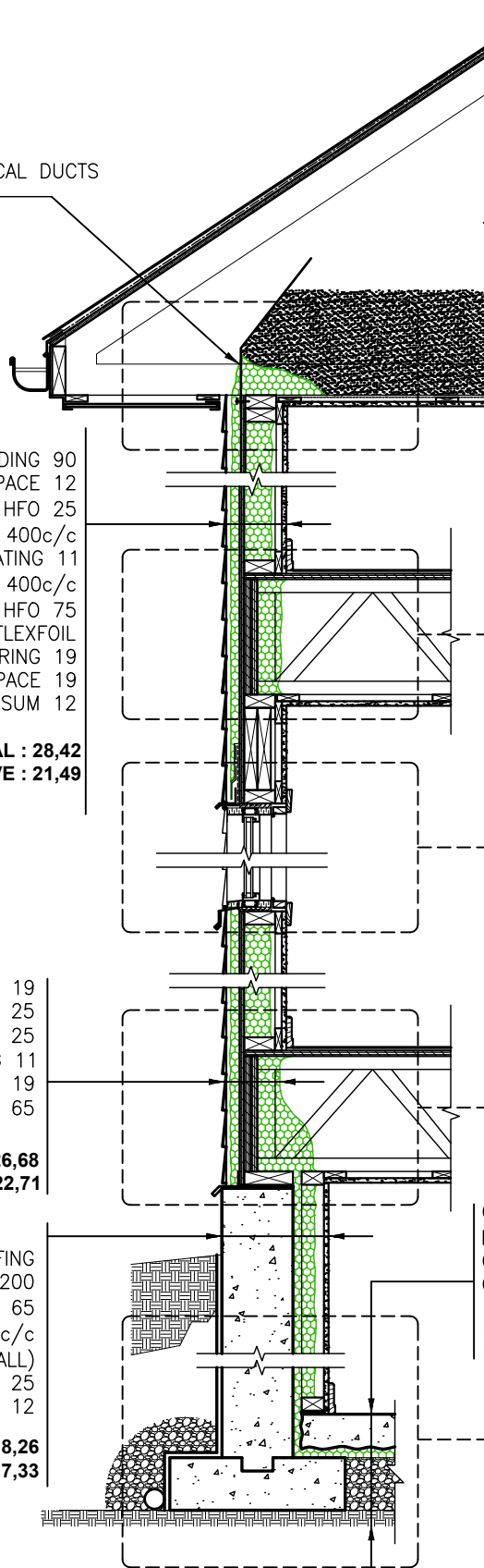
R TOTAL : 26,68
R EFFECTIVE : 22,71

WATERPROOFING
CONCRETE WALL 200
HEATLOK SOYA/HEATLOK SOYA HFO 65
2x3 @ 400 c/c
(25 FROM FOUNDATION WALL)
AIR SPACE 25
GYPSUM 12

R TOTAL : 18,26
R EFFECTIVE : 17,33

CONCRETE SLAB 100
HEATLOK SOYA/HEATLOK SOYA HFO 32
CRUSHED STONE 100
ORIGINAL SOIL

R TOTAL : 8,94
R EFFECTIVE : 8,94



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PAGE 31

PAGE 30

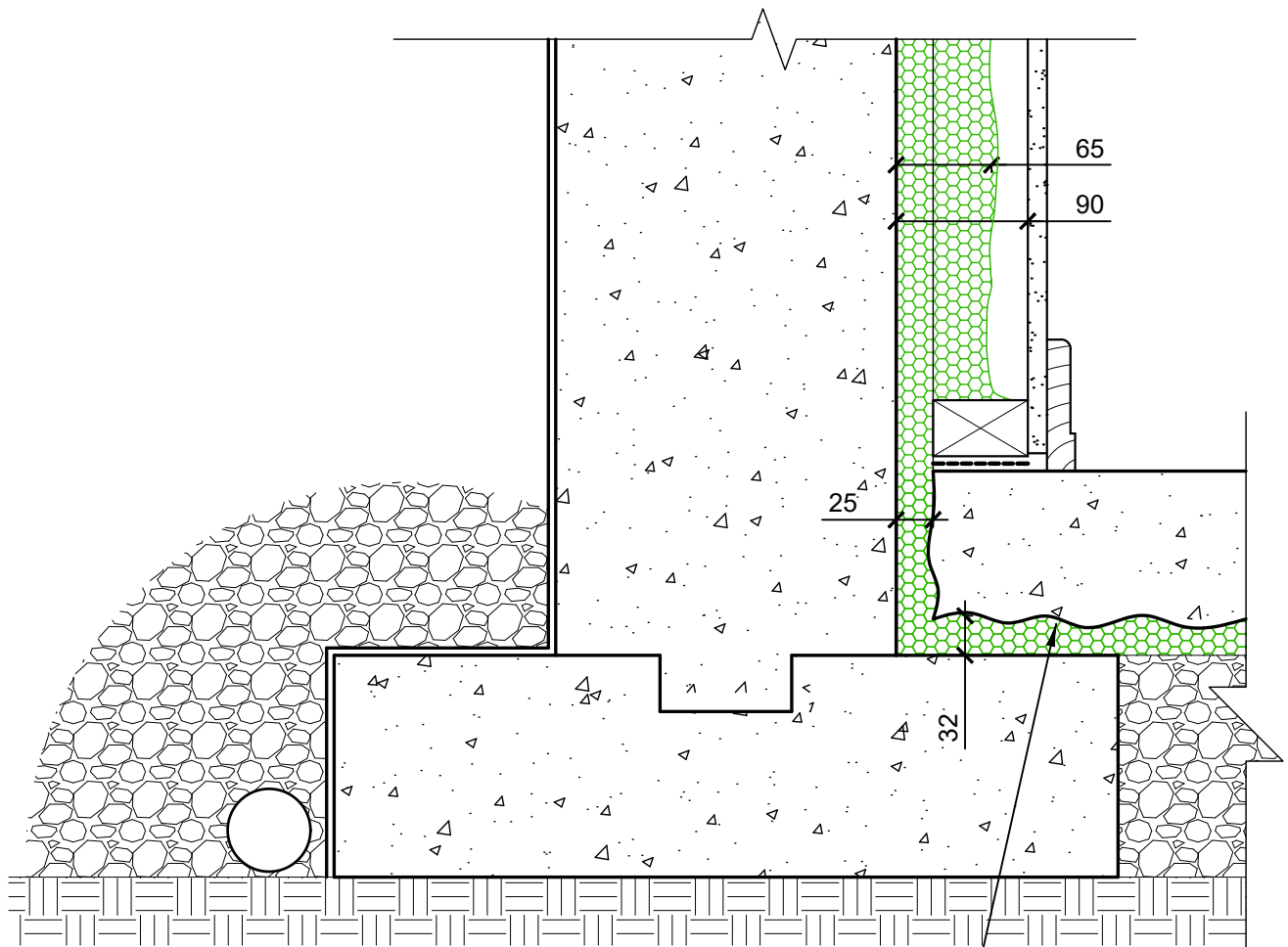
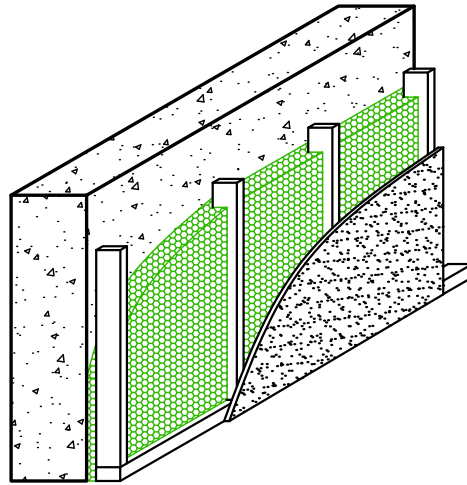
PAGE 29

PAGE 7

TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:20

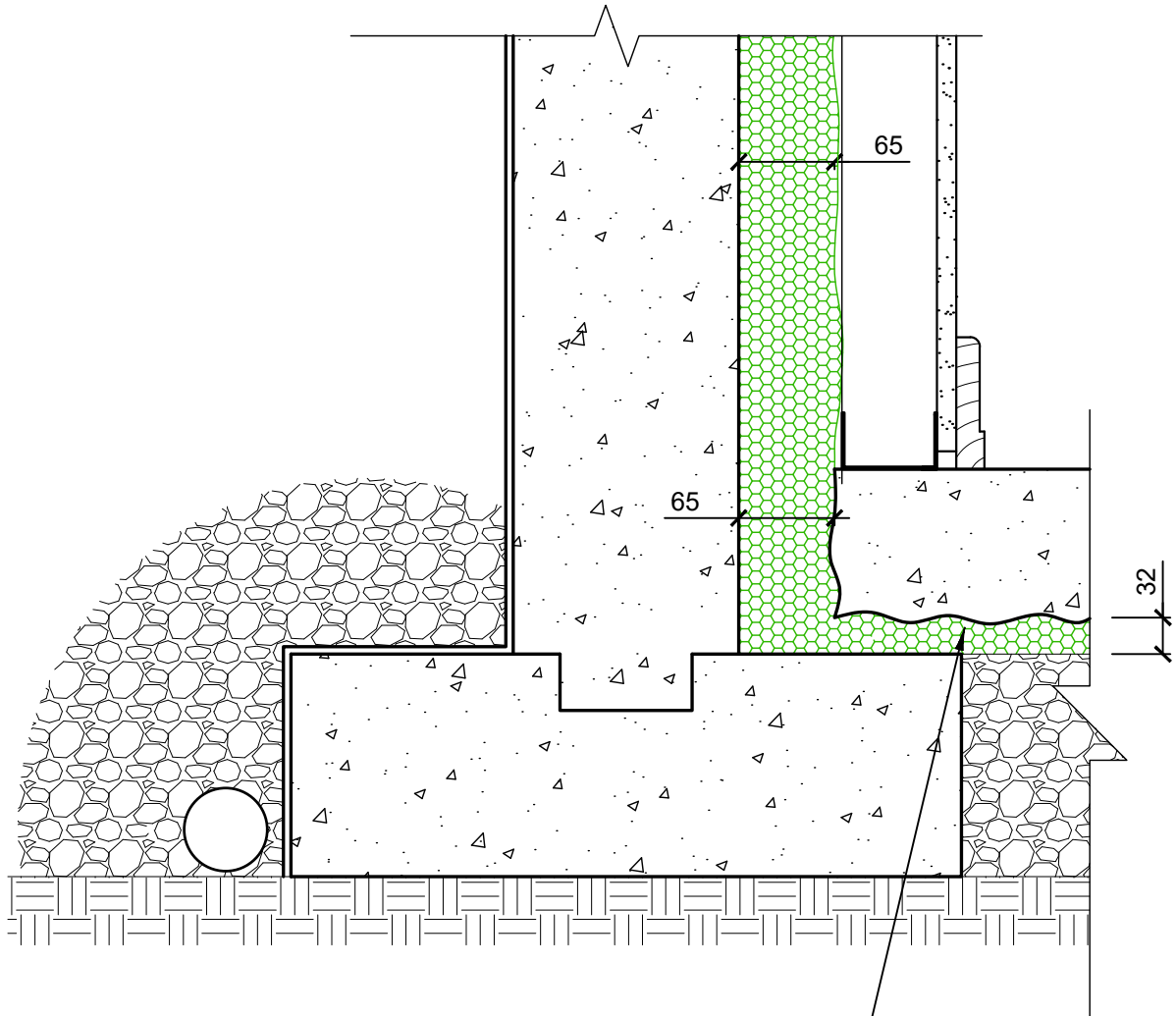


HEATLOK SOYA/HEATLOK SOYA HFO FULL SURFACE 32mm, R=7,5 (RSI 1,31)
 CONTROLS RADON GAS CCQ ART. 9.13.4 AND 9.13.2

TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:5



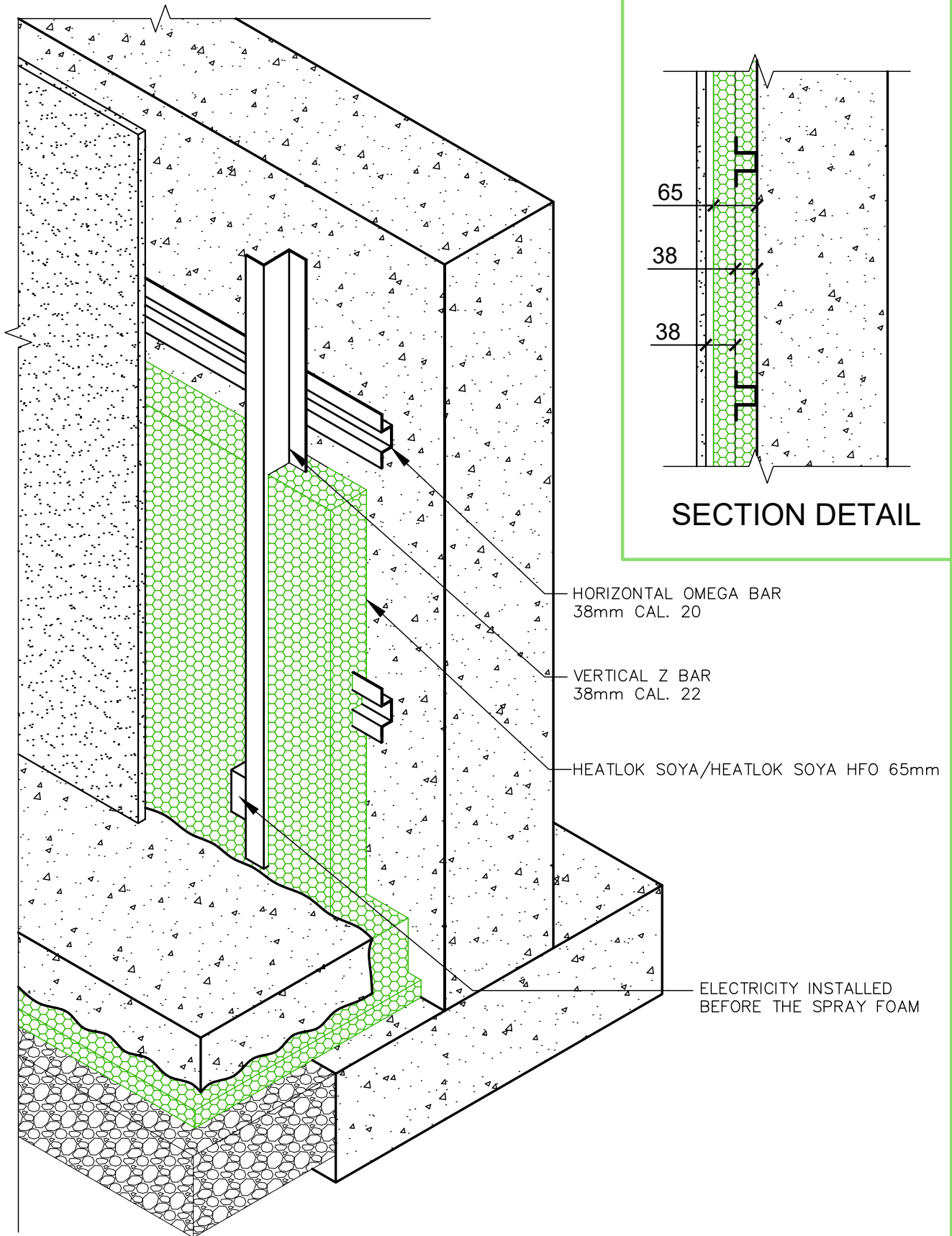
HEATLOK SOYA/HEATLOK SOYA HFO FULL SURFACE 32mm, R-7,5 (RSI 1,31)
 CONTROLS RADON GAS CCQ ART. 9.13.4 AND 9.13.2

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

TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:5



TYPICAL DETAIL - WOOD FRAMING

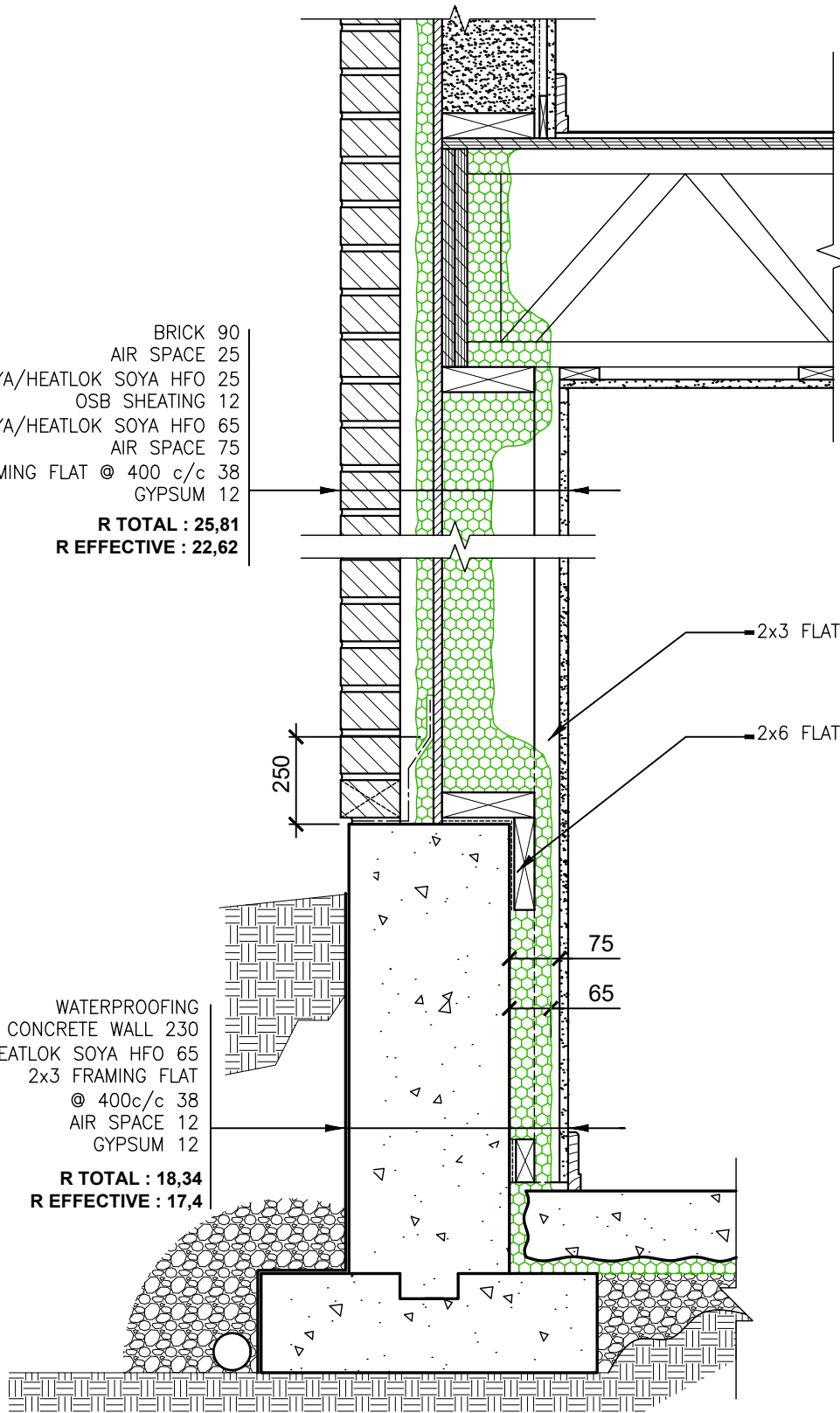
Date: 20-10-2020

Scale: VARIABLE

BRICK 90
 AIR SPACE 25
 HEATLOK SOYA/HEATLOK SOYA HFO 25
 OSB SHEATING 12
 HEATLOK SOYA/HEATLOK SOYA HFO 65
 AIR SPACE 75
 2x3 FRAMING FLAT @ 400 c/c 38
 GYPSUM 12
R TOTAL : 25,81
R EFFECTIVE : 22,62

2x3 FLAT @ 400 c/c
 2x6 FLAT
 250

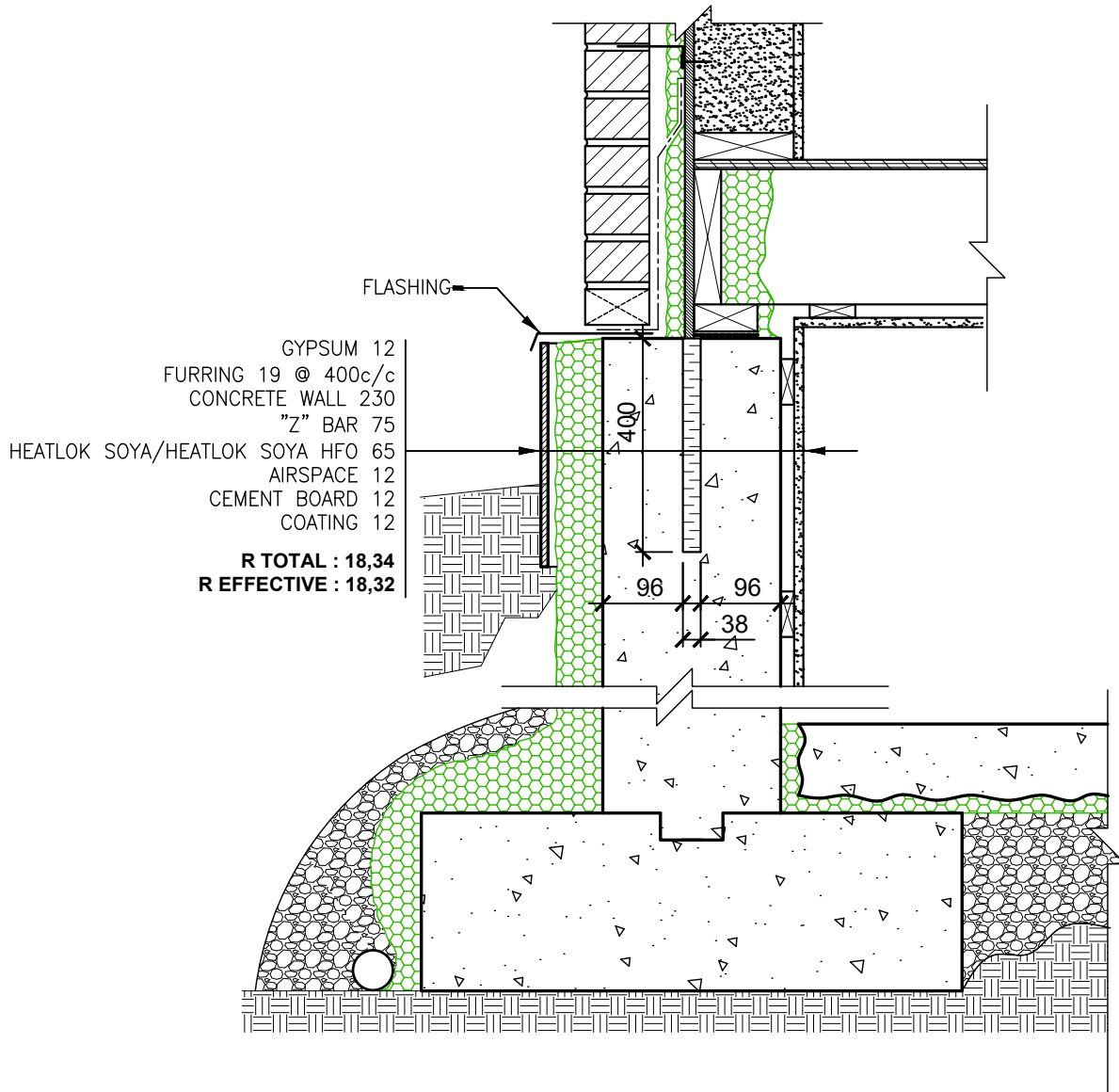
WATERPROOFING
 CONCRETE WALL 230
 HEATLOK SOYA/HEATLOK SOYA HFO 65
 2x3 FRAMING FLAT
 @ 400c/c 38
 AIR SPACE 12
 GYPSUM 12
R TOTAL : 18,34
R EFFECTIVE : 17,4



TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

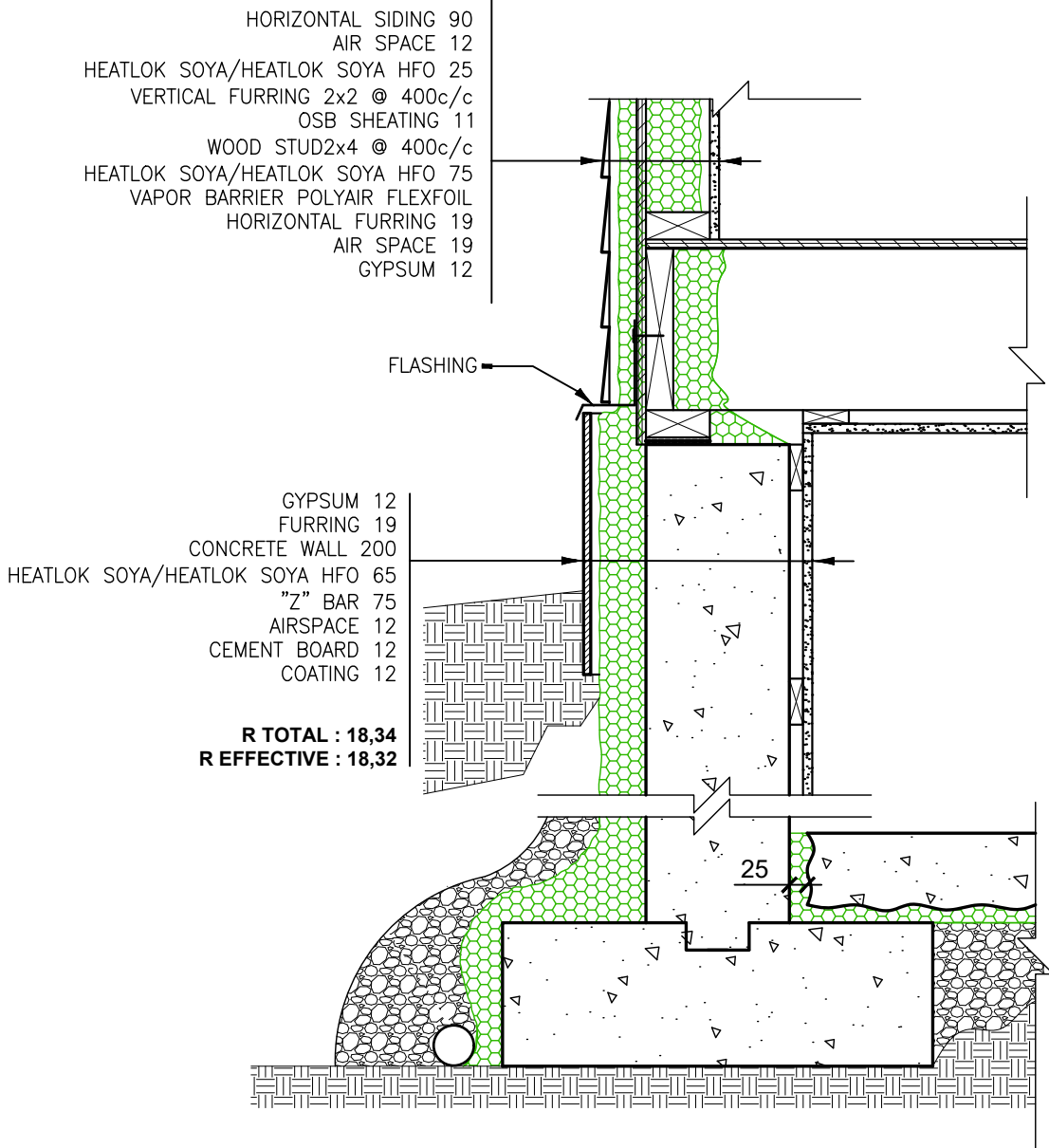
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TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

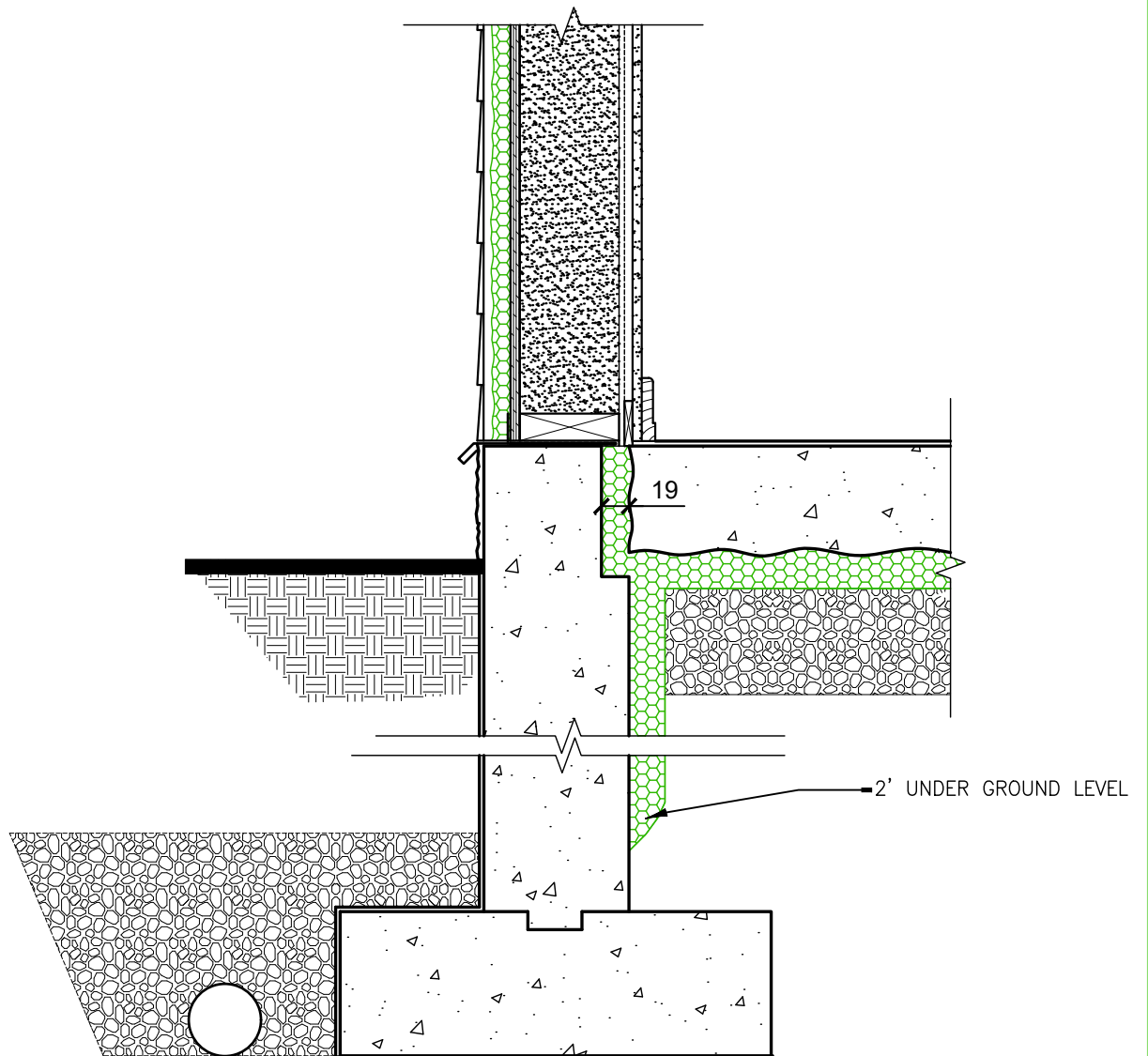
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TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

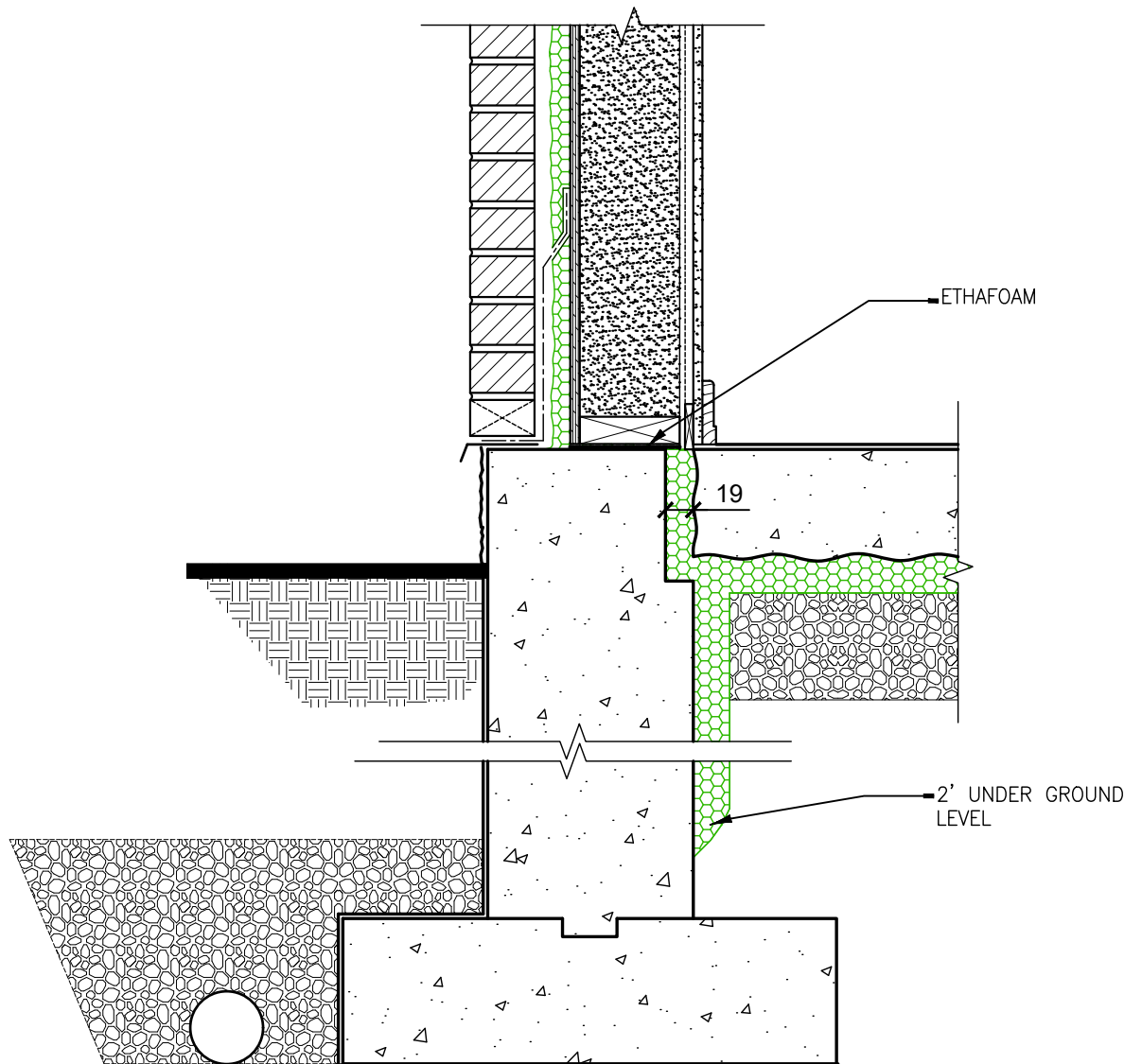
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TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

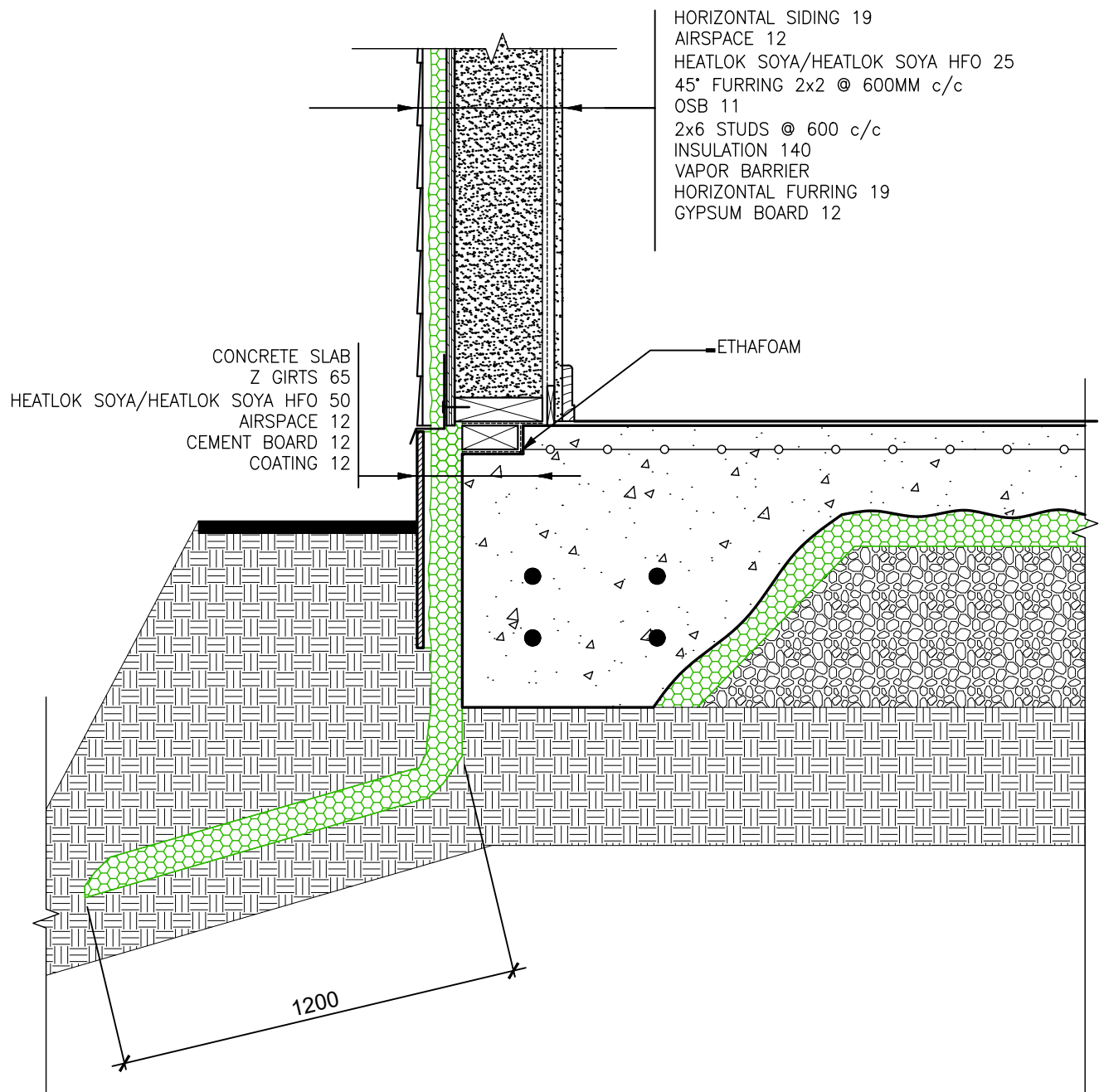
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TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

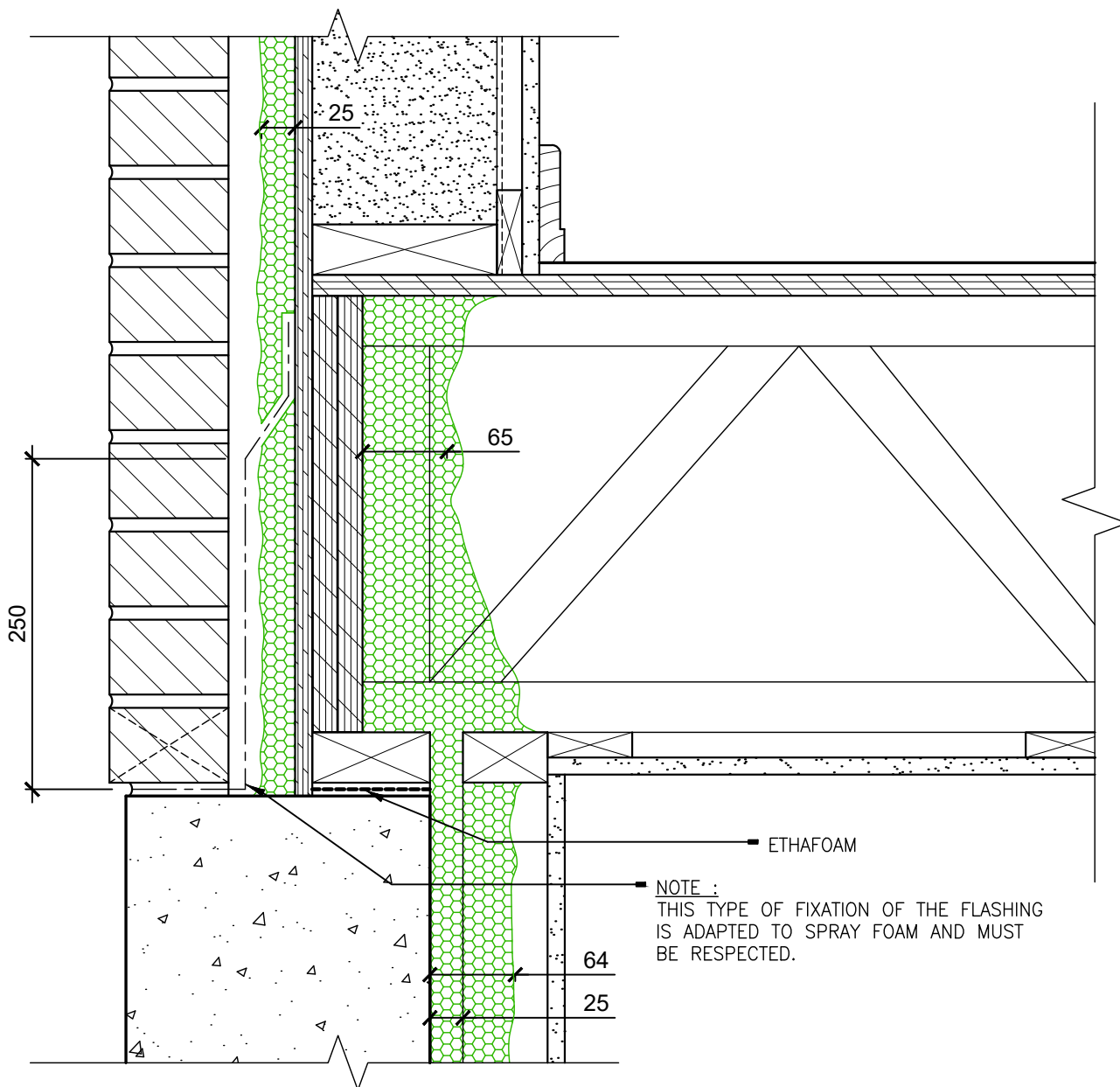
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TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

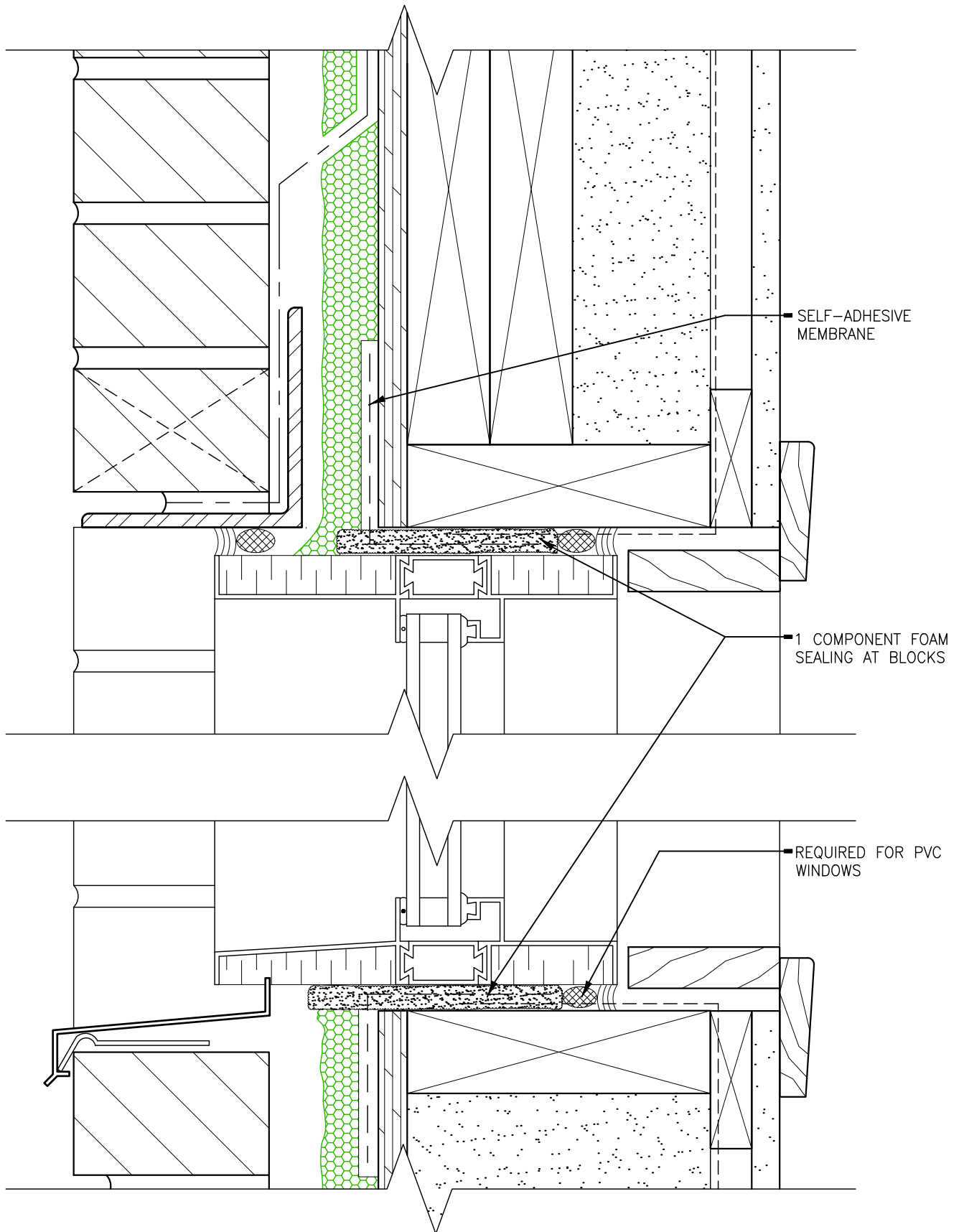
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TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

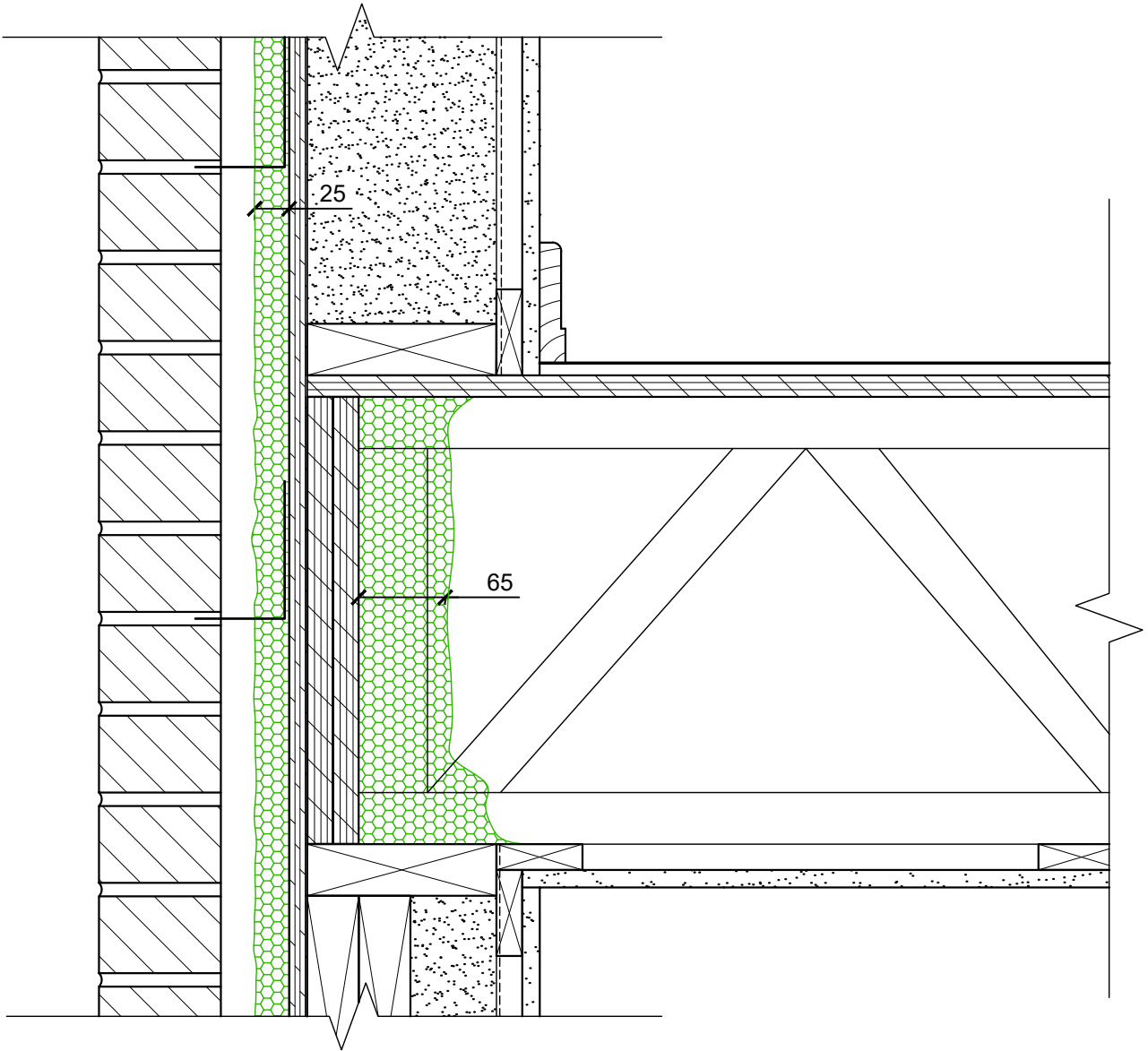
Scale: 1:5



TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

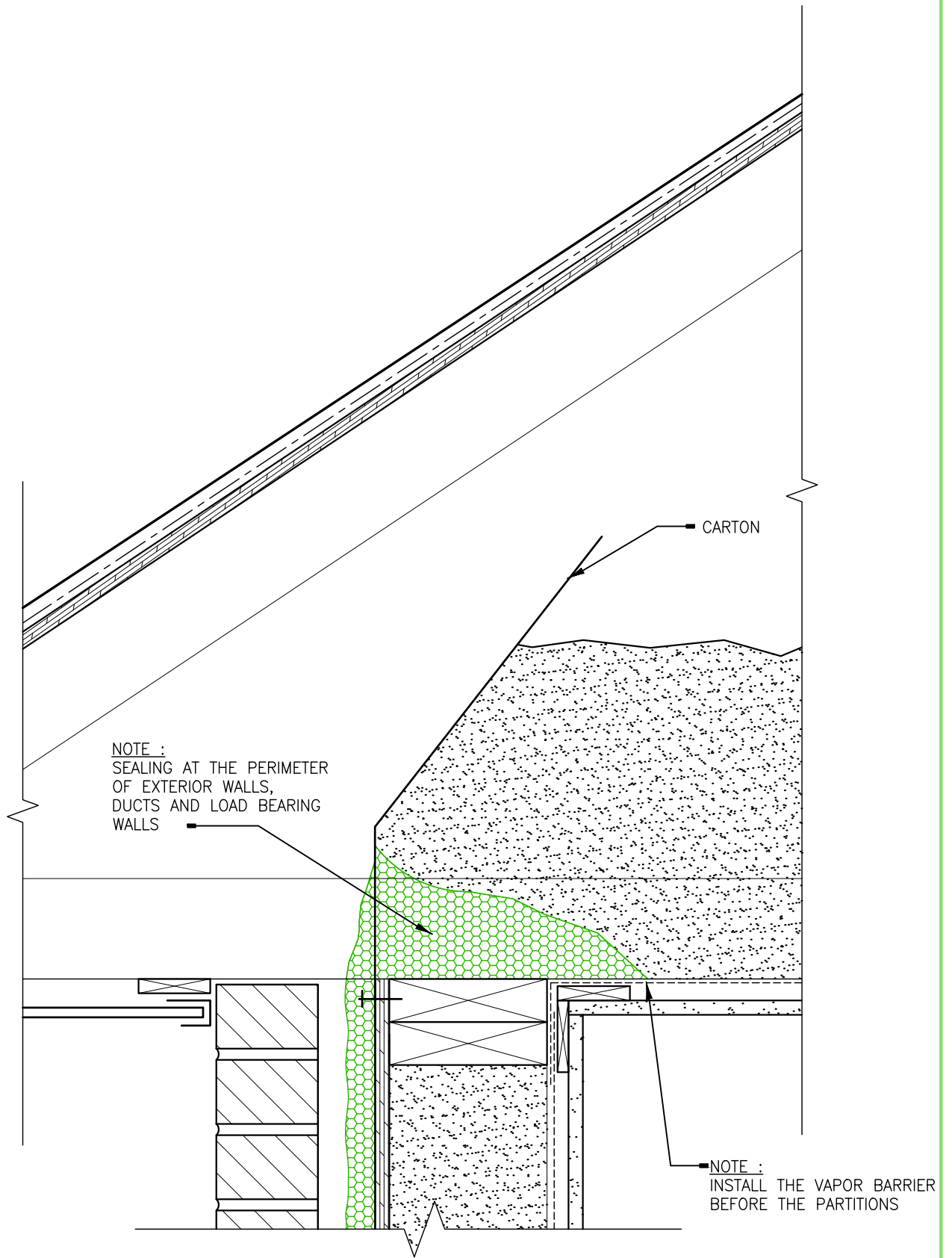
Scale: 1:2.5



TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

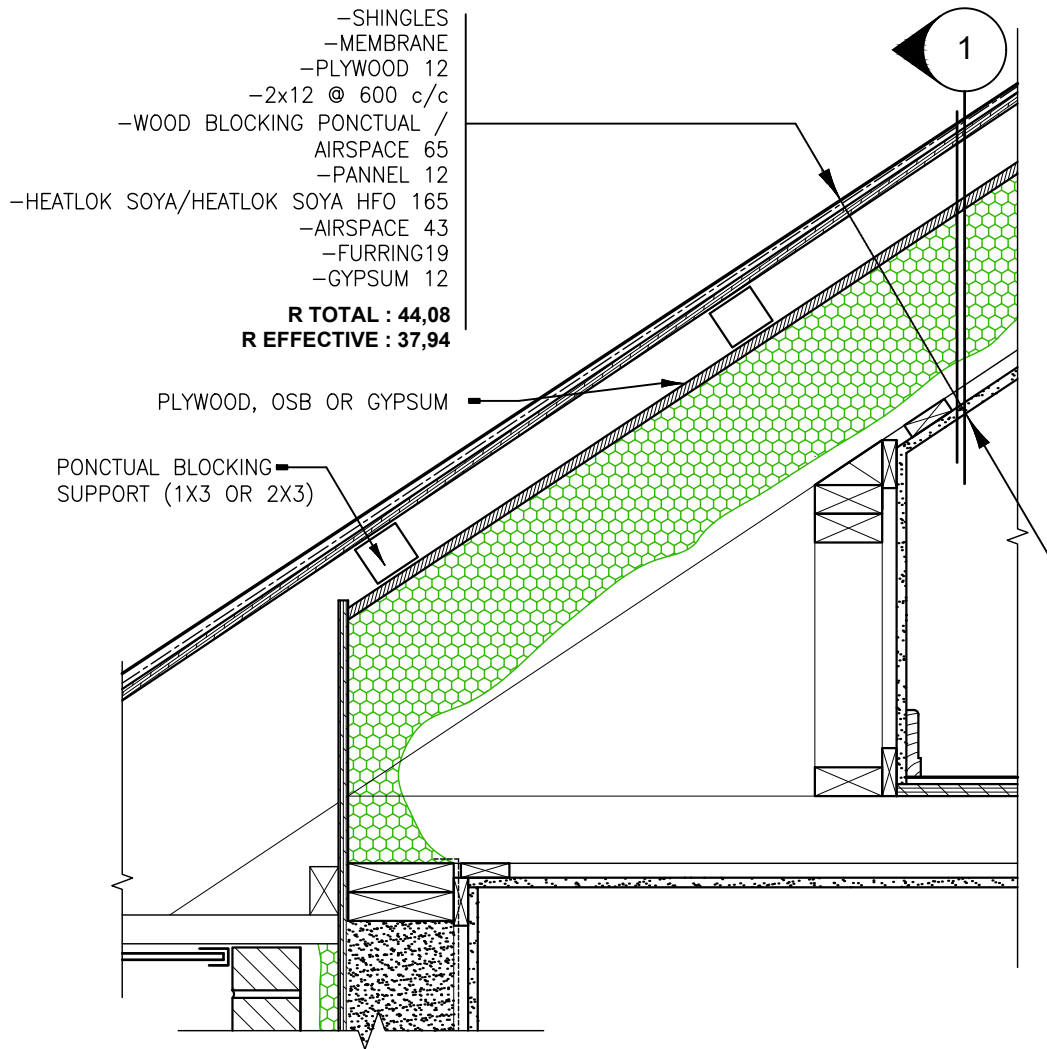
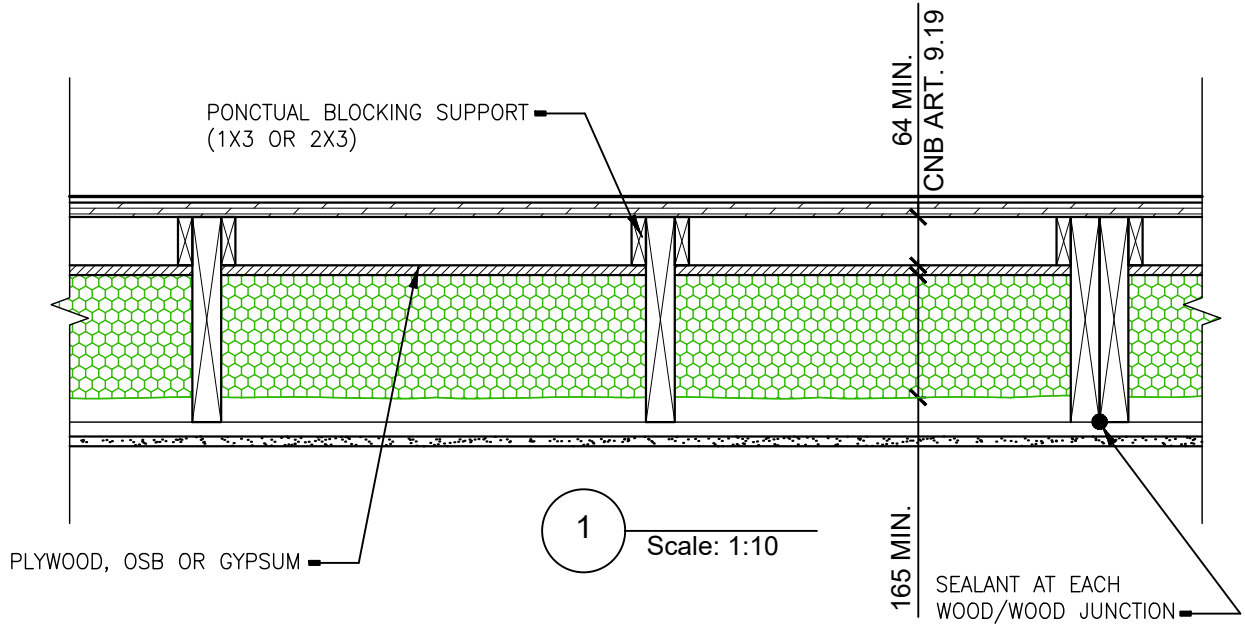
Scale: 1:5



TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:5



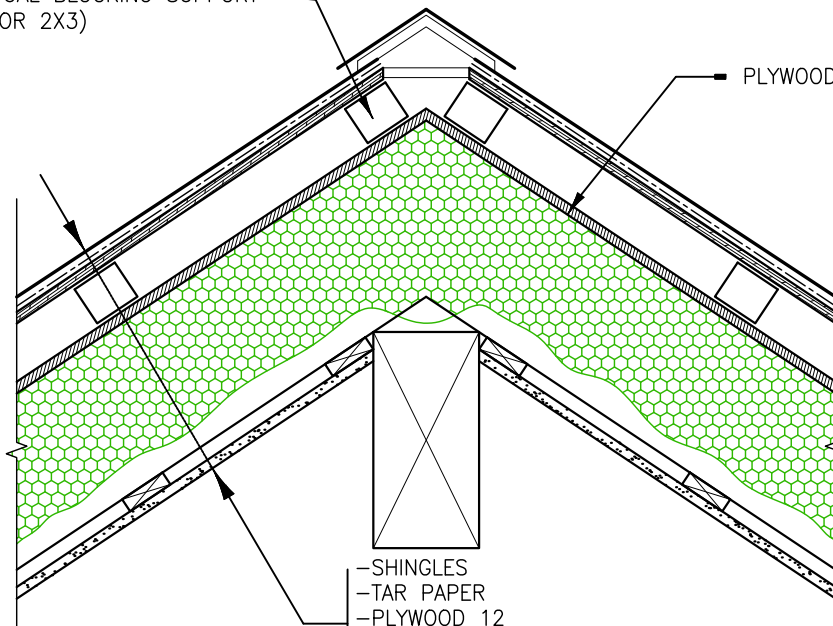
TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:10

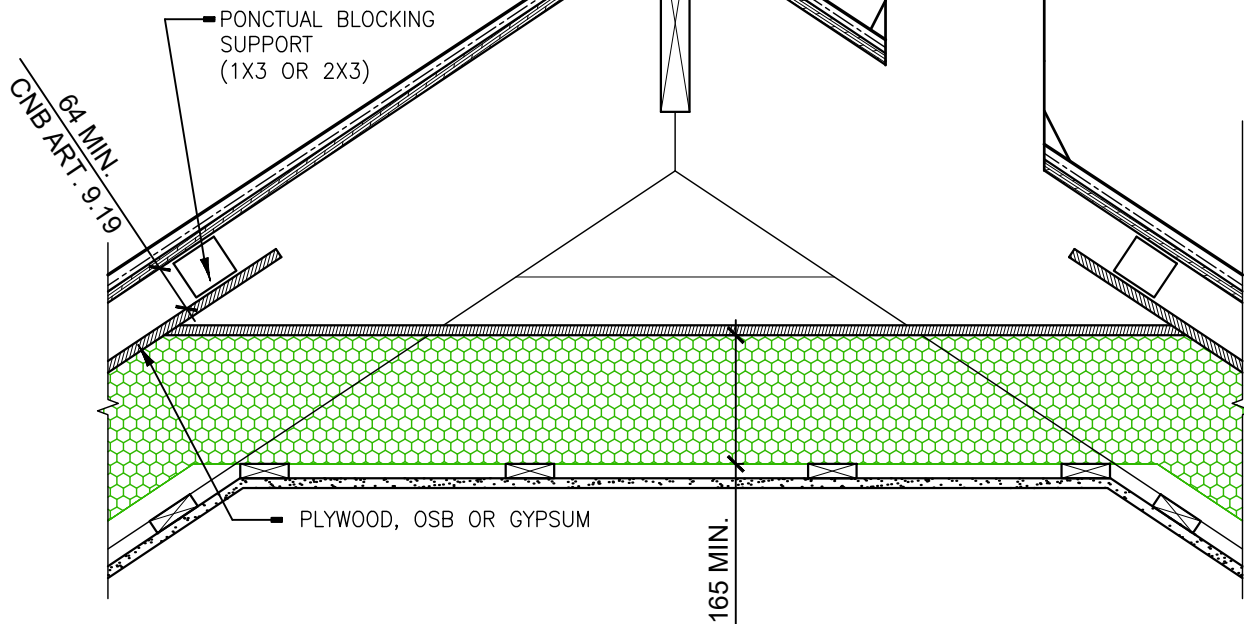
PONCTUAL BLOCKING SUPPORT
(1X3 OR 2X3)

PLYWOOD, OSB OR GYPSUM



- SHINGLES
- TAR PAPER
- PLYWOOD 12
- 2x12 @ 600 c/c
- WOOD BLOCKING /
- AIRSPACE 65
- BOX FIBRE 12
- HEATLOK SOYA/HEATLOK SOYA HFO 165
- AIRSPACE 43
- FURRING 19
- GYPSUM 12

R TOTAL : 44,08
R EFFECTIVE : 37,94



PONCTUAL BLOCKING SUPPORT
(1X3 OR 2X3)

64 MIN.
CNB ART. 9.19

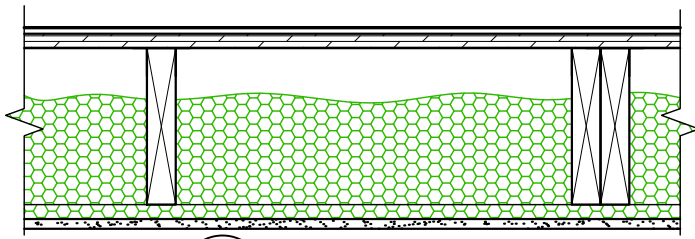
PLYWOOD, OSB OR GYPSUM

165 MIN.

TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

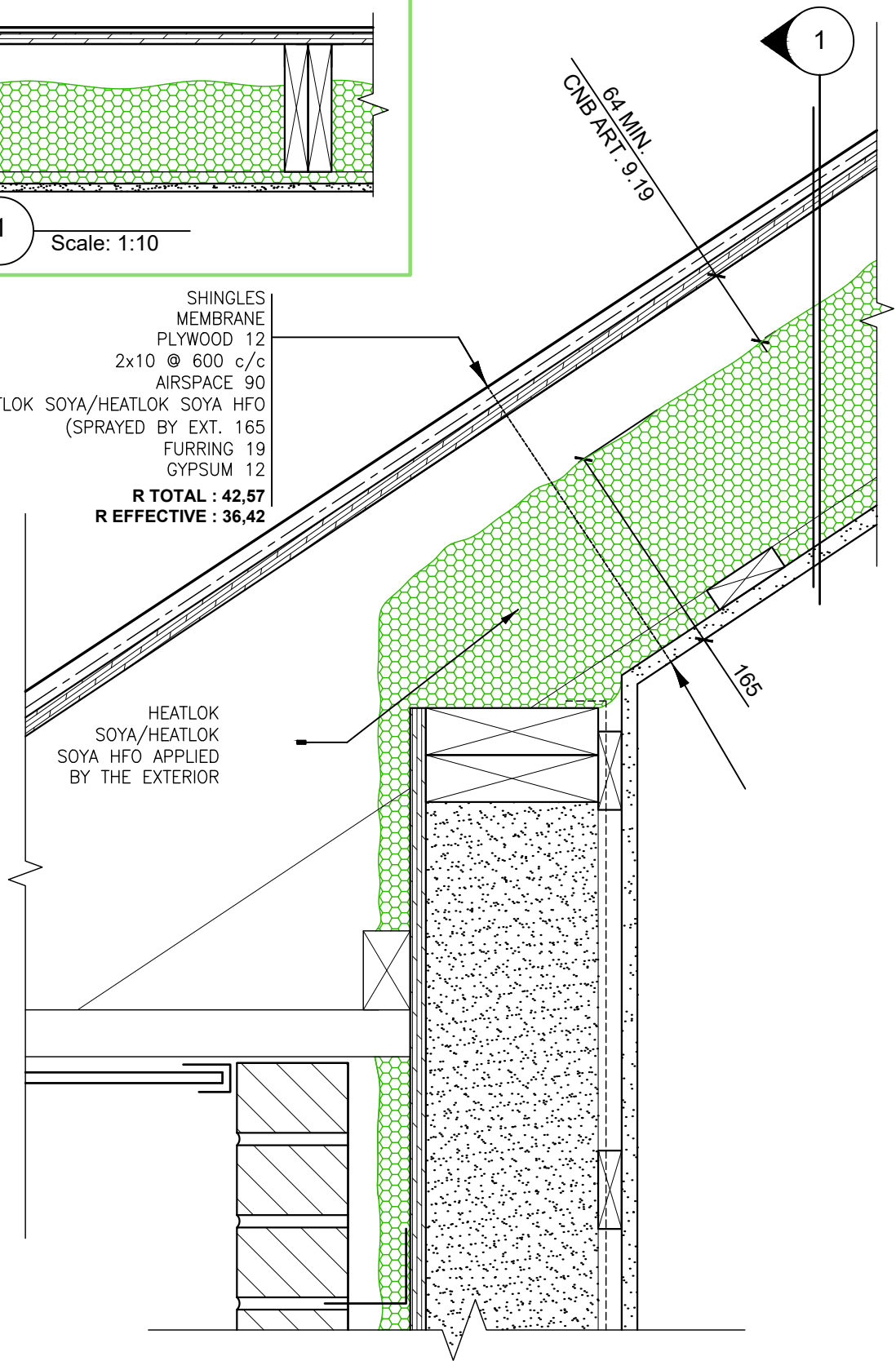
Scale: 1:10



1 Scale: 1:10

- SHINGLES
- MEMBRANE
- PLYWOOD 12
- 2x10 @ 600 c/c
- AIRSPACE 90
- HEATLOK SOYA/HEATLOK SOYA HFO
- (SPRAYED BY EXT. 165
- FURRING 19
- GYPSUM 12
- R TOTAL : 42,57**
- R EFFECTIVE : 36,42**

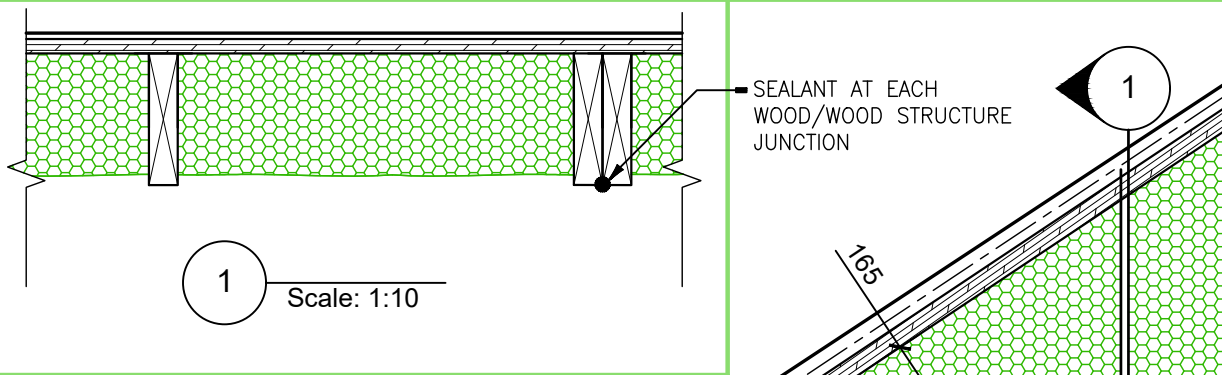
HEATLOK
SOYA/HEATLOK
SOYA HFO APPLIED
BY THE EXTERIOR



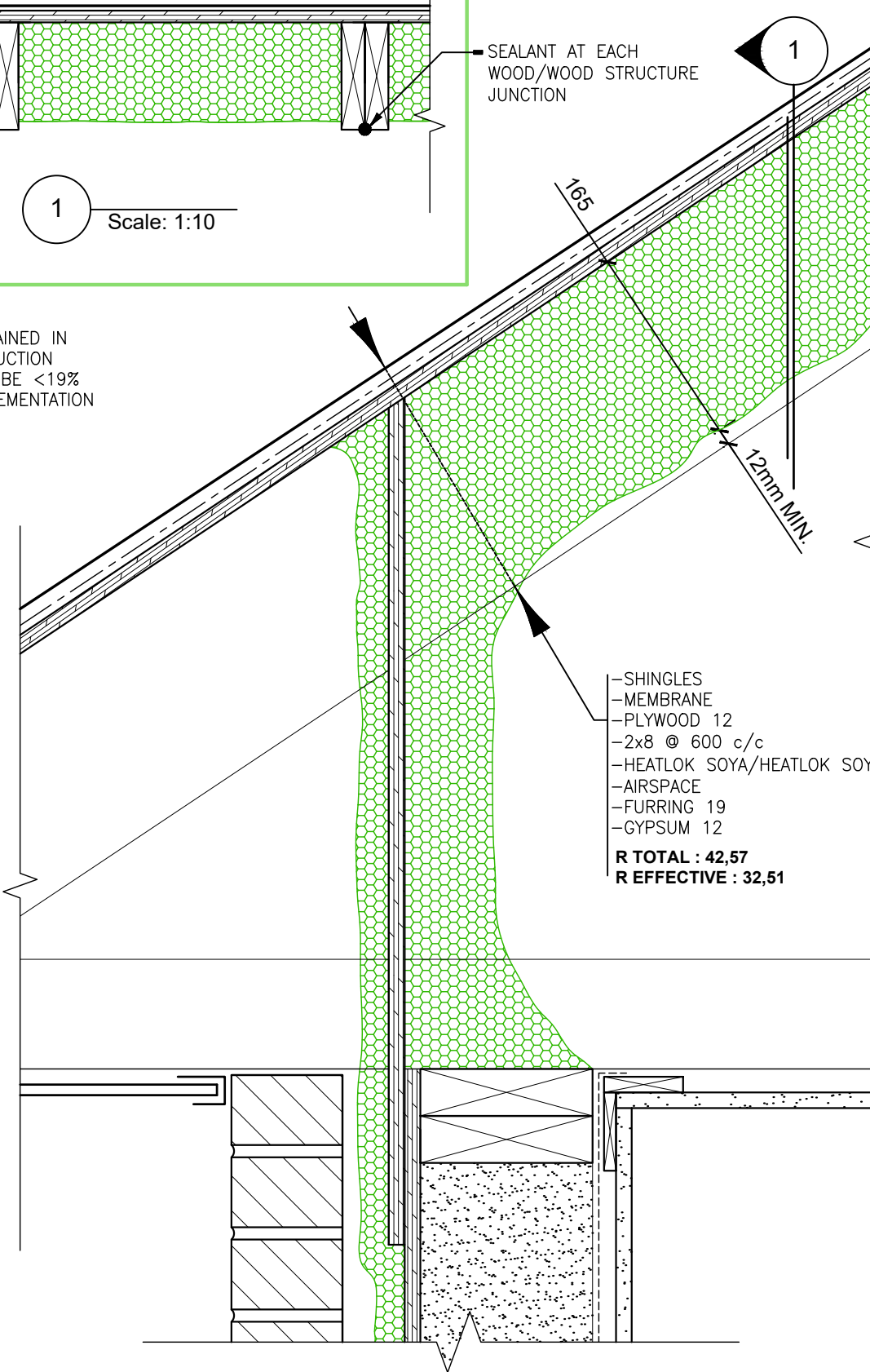
TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:5



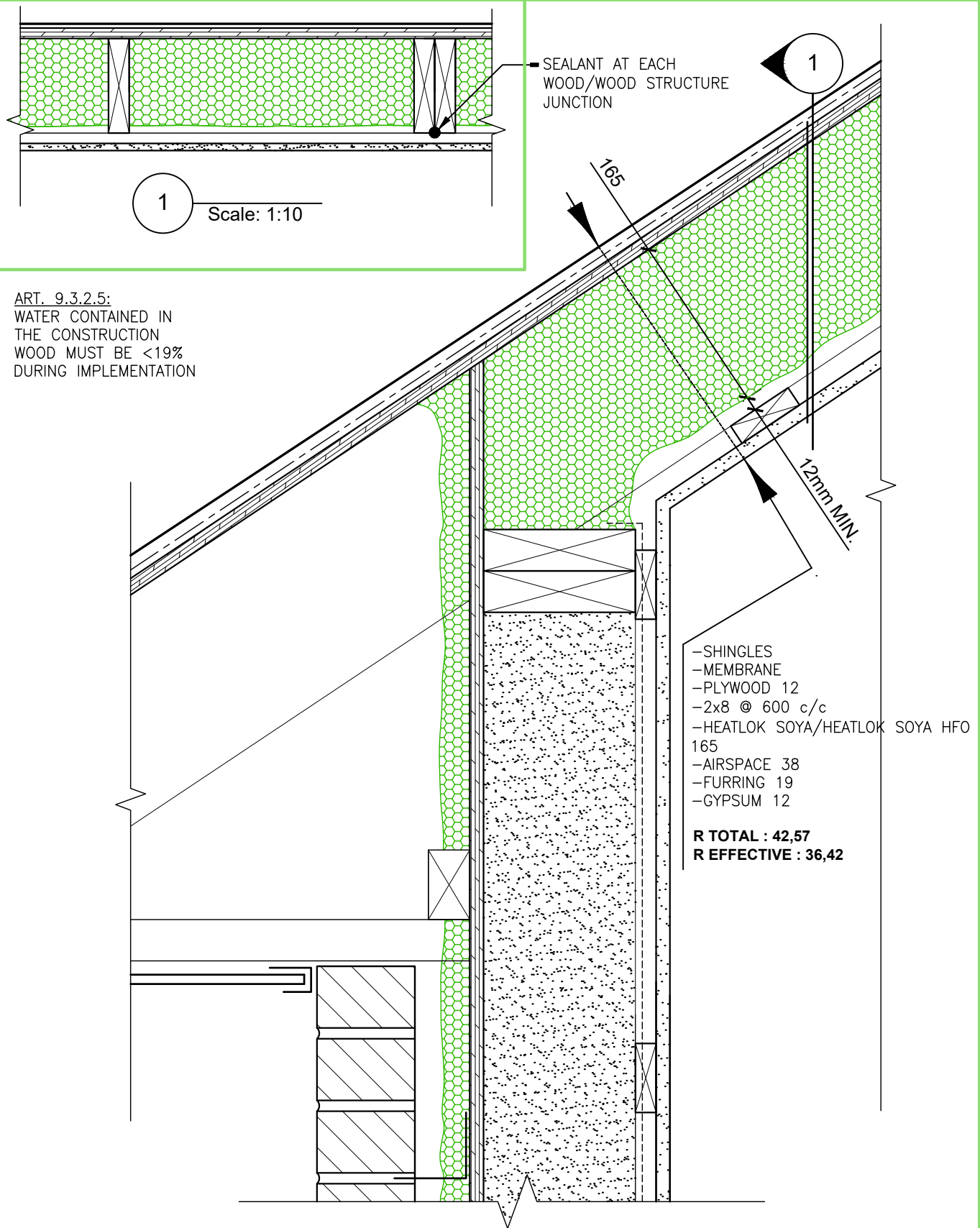
ART. 9.3.2.5:
 WATER CONTAINED IN
 THE CONSTRUCTION
 WOOD MUST BE <19%
 DURING IMPLEMENTATION



TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

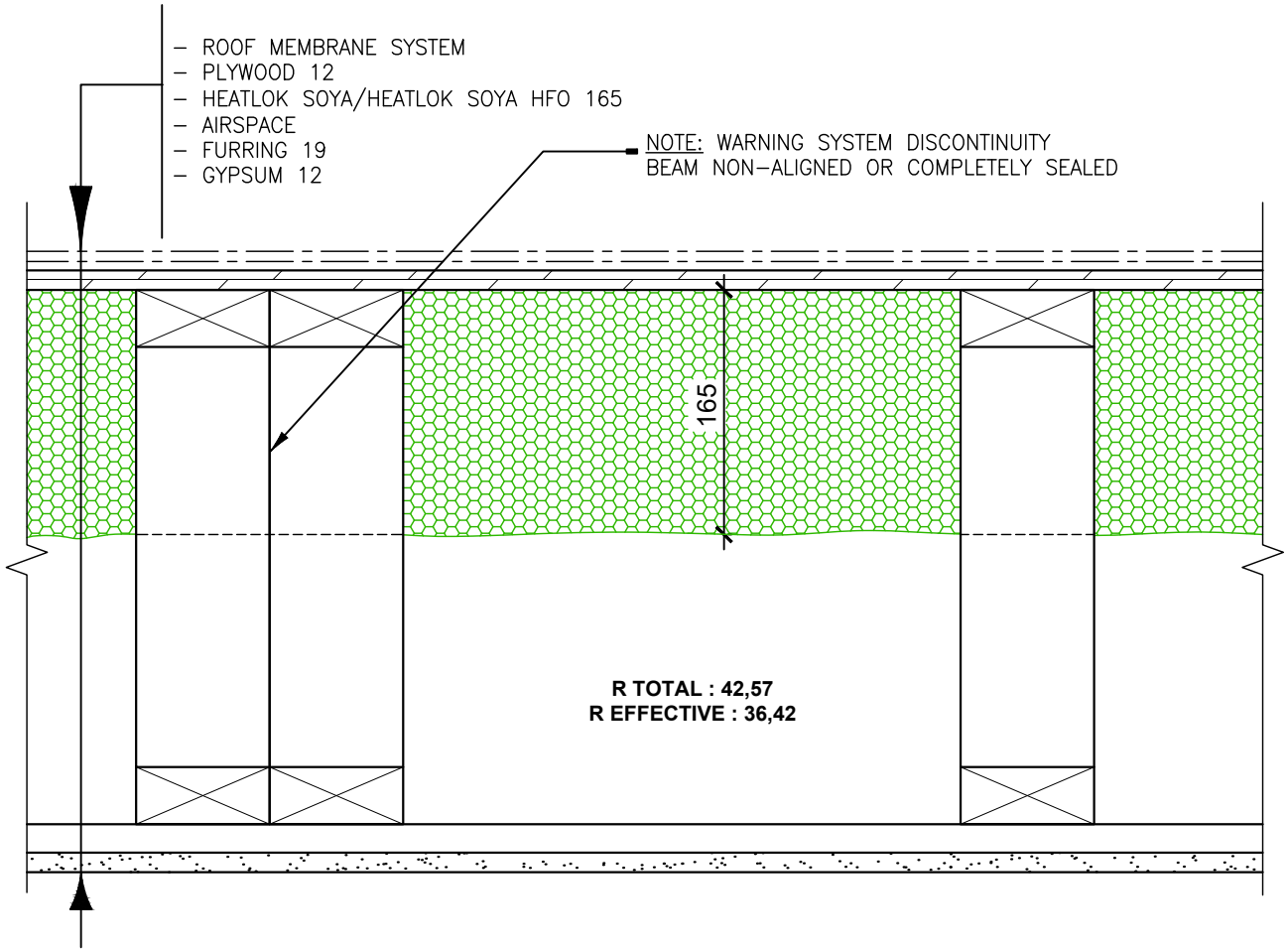
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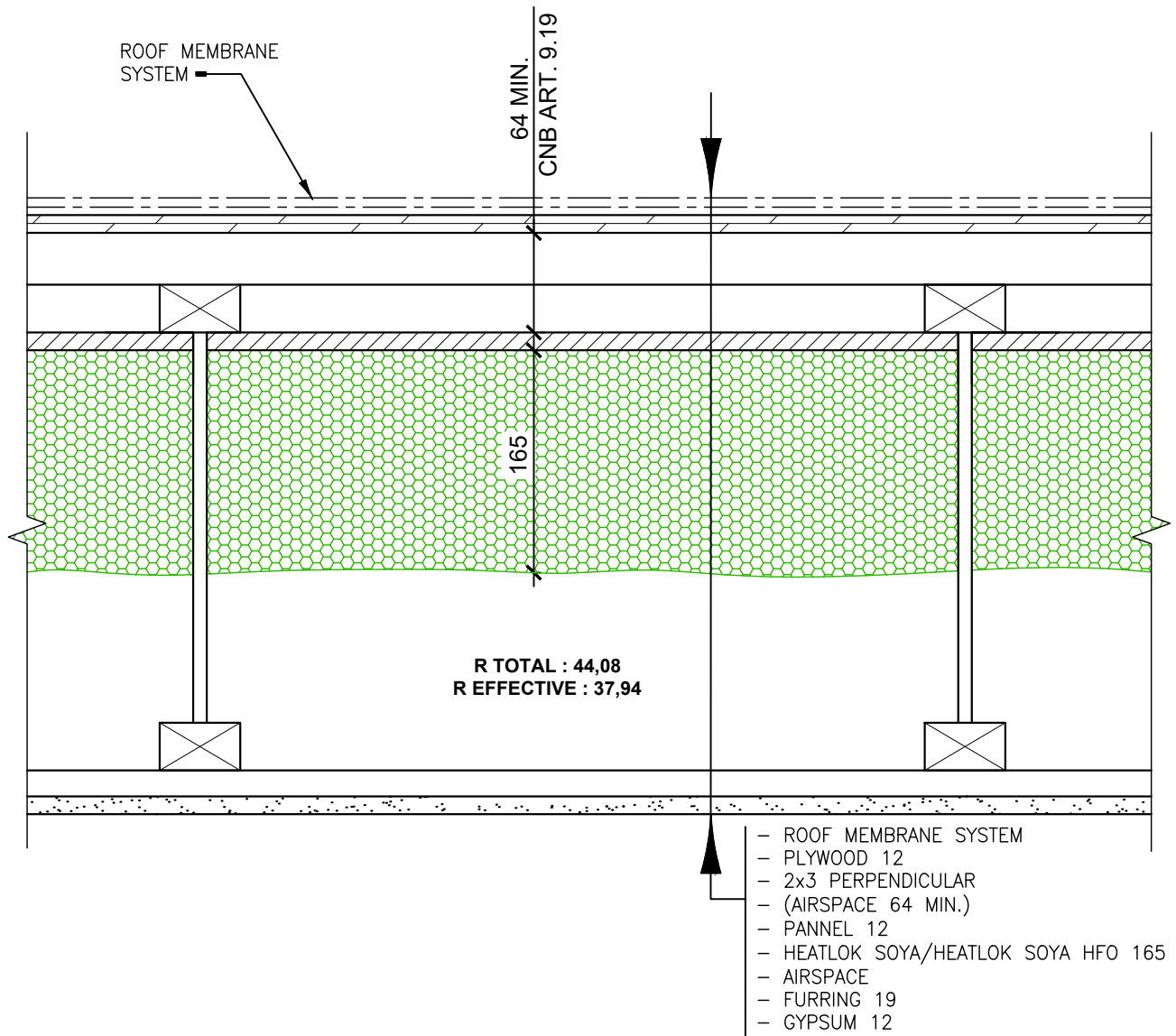
TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:5



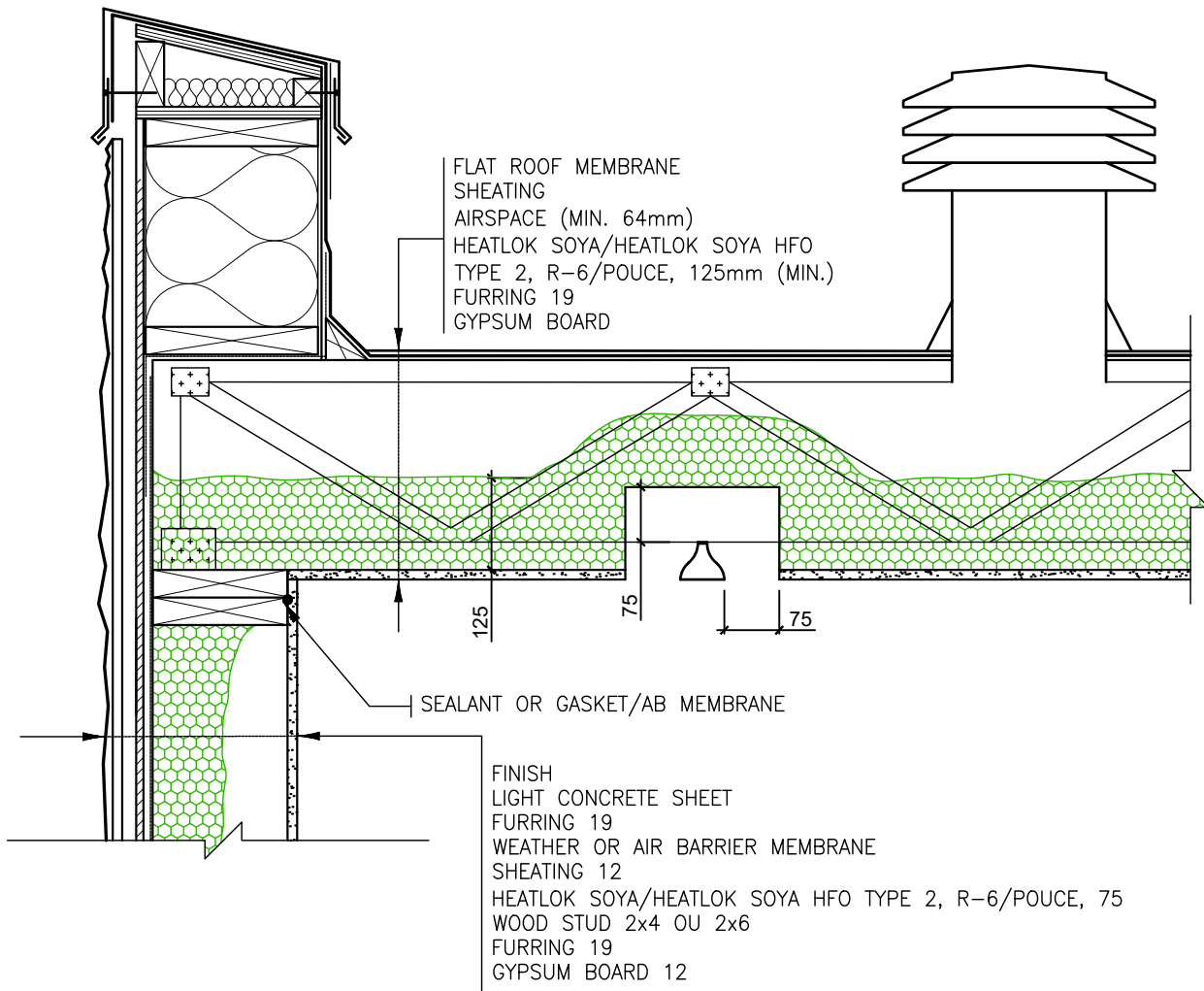
ART. 9.3.2.5:
THE WATER CONTENT OF
CONSTRUCTION WOOD MUST
BE <19% WHEN
IMPLEMENTATION.



TYPICAL DETAIL- WOOD FRAMING

Date: 20-10-2020

Scale: 1:5

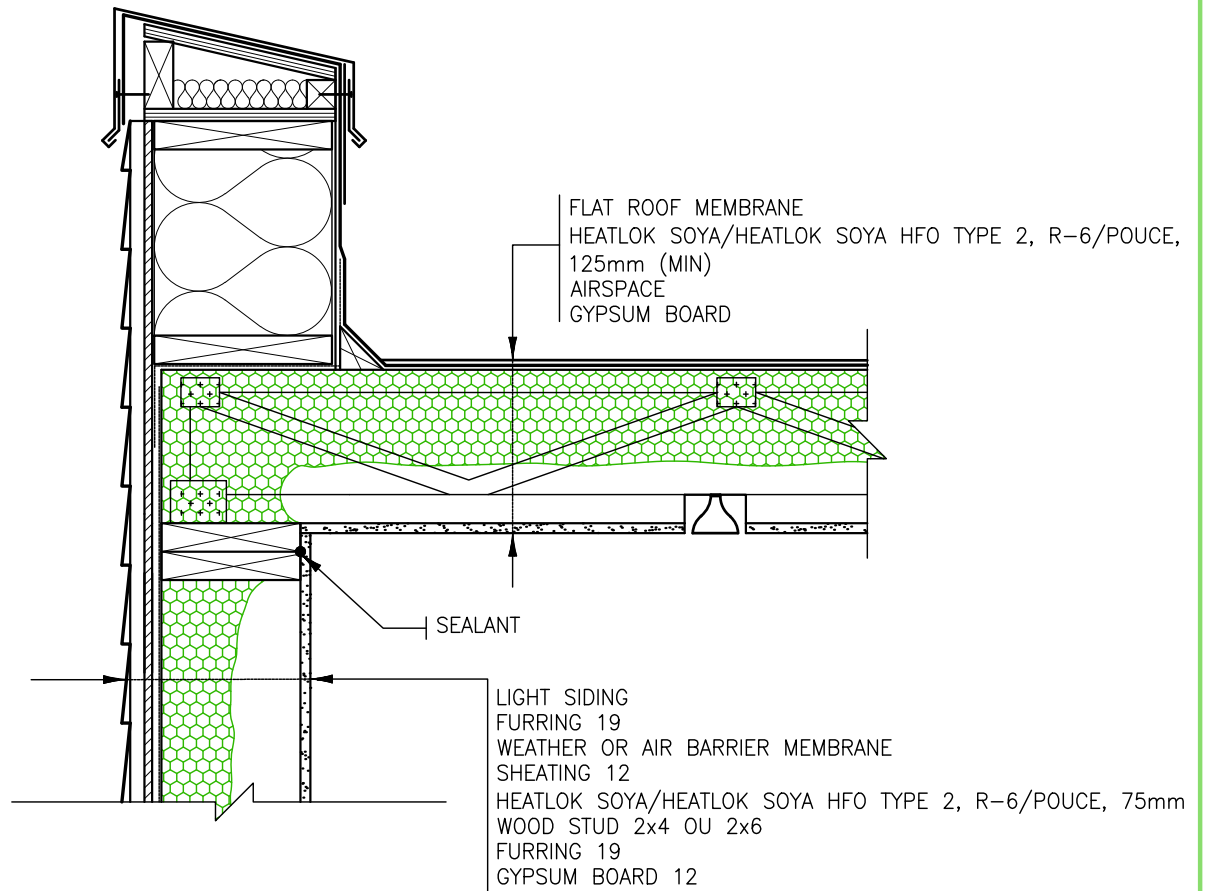


TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:10

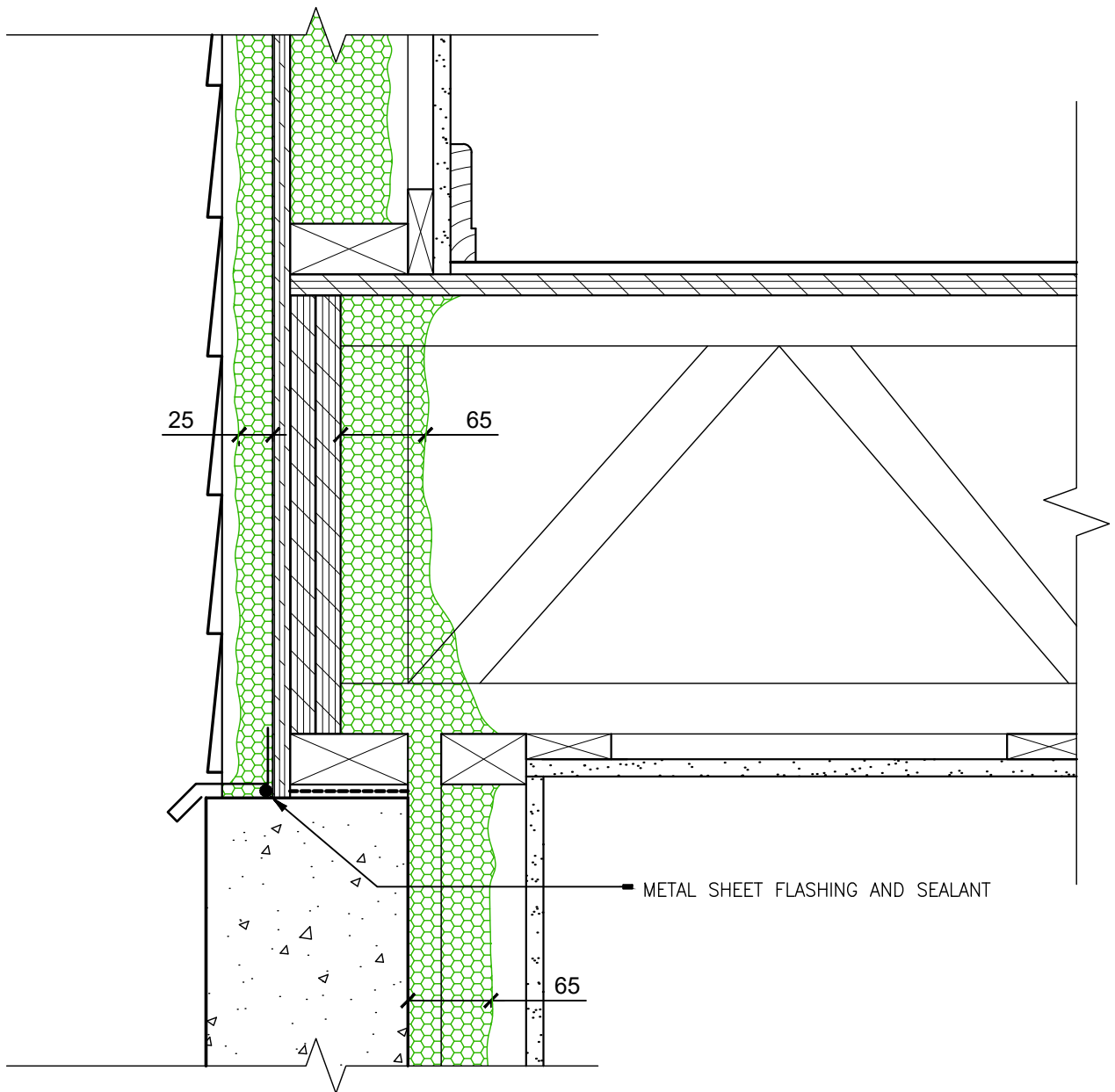
ART. 9.3.2.5:
THE WATER CONTENT OF CONSTRUCTION WOOD MUST BE
<19% WHEN IMPLEMENTATION.



TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

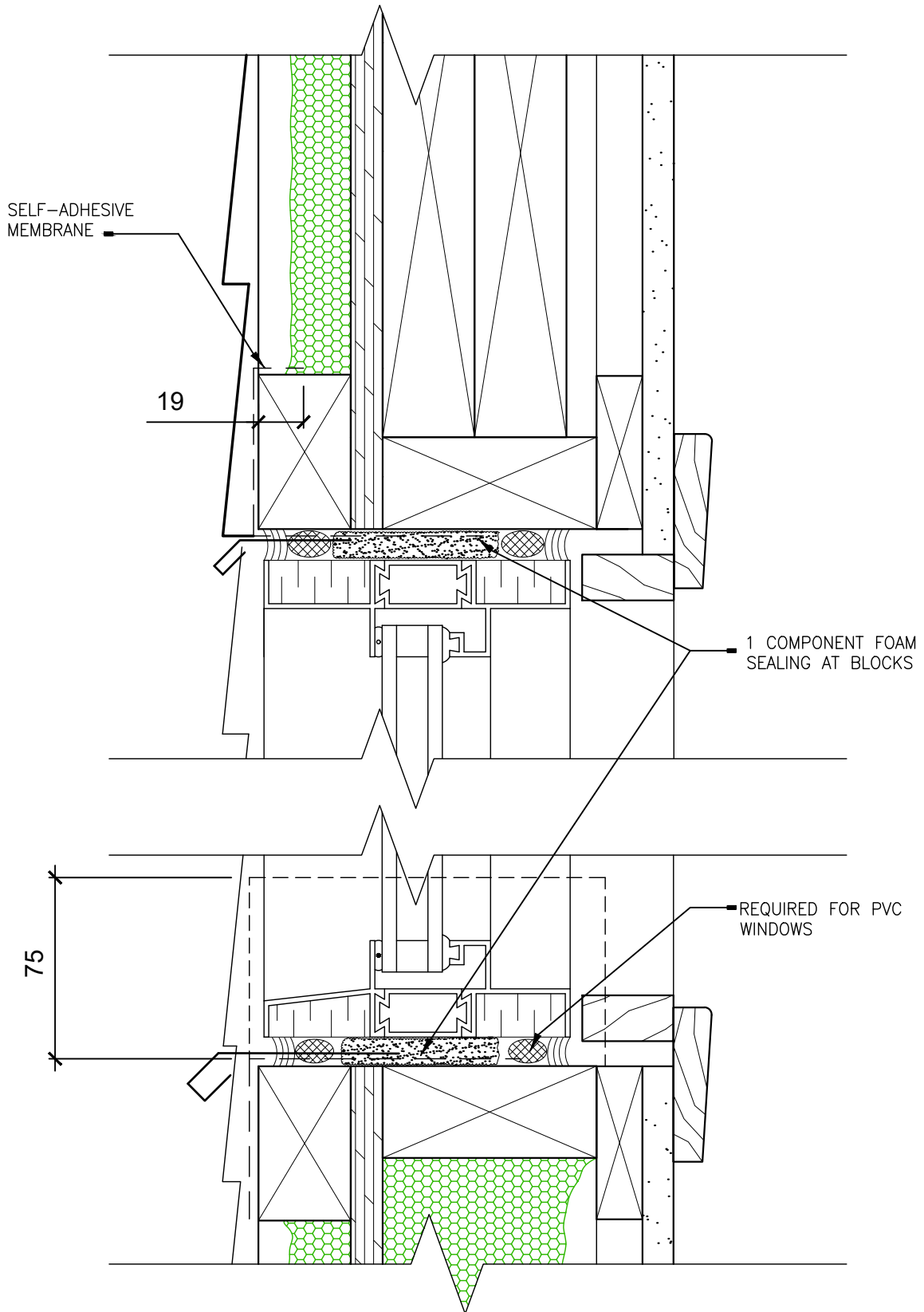
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TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

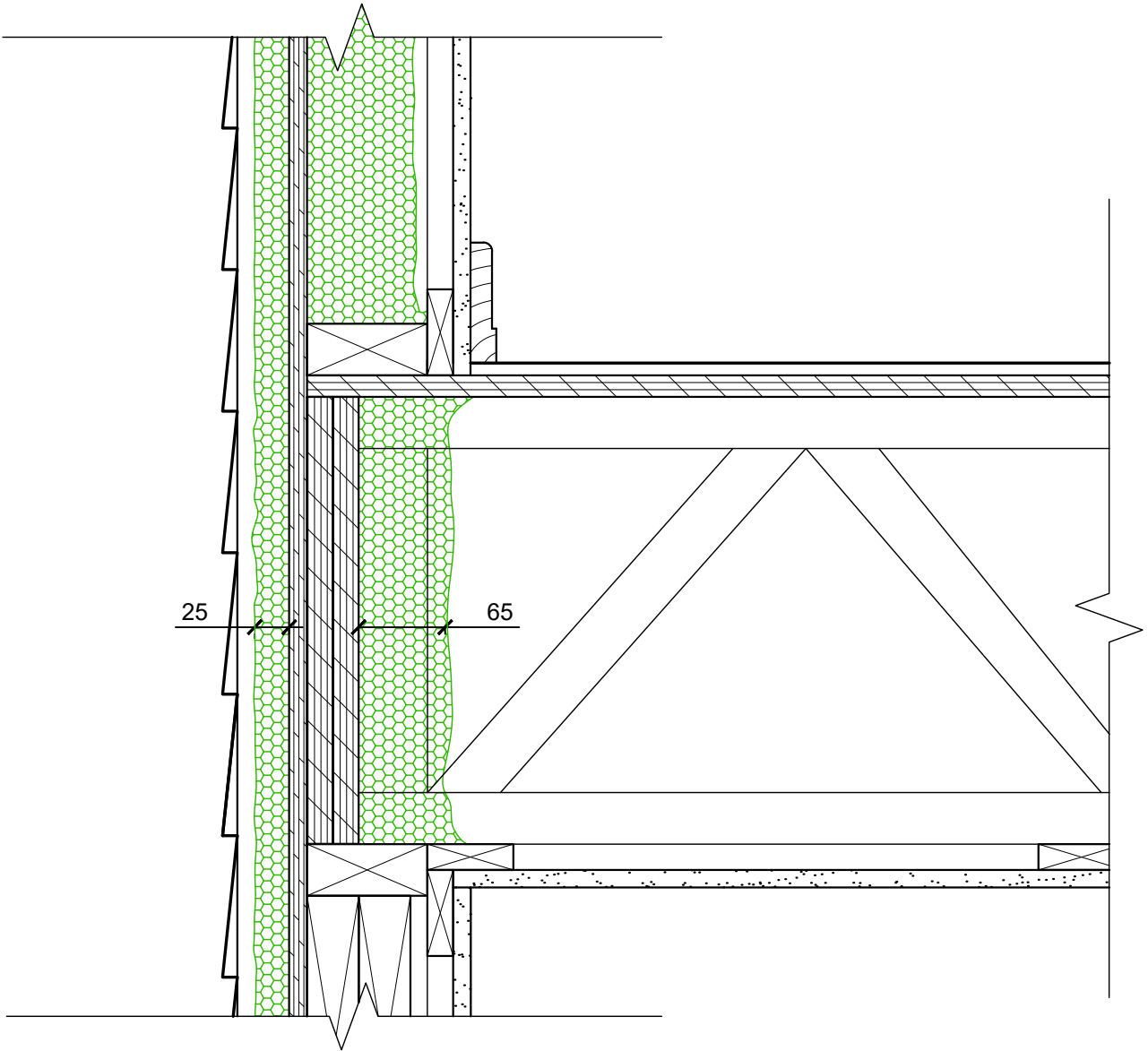
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TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:2.5

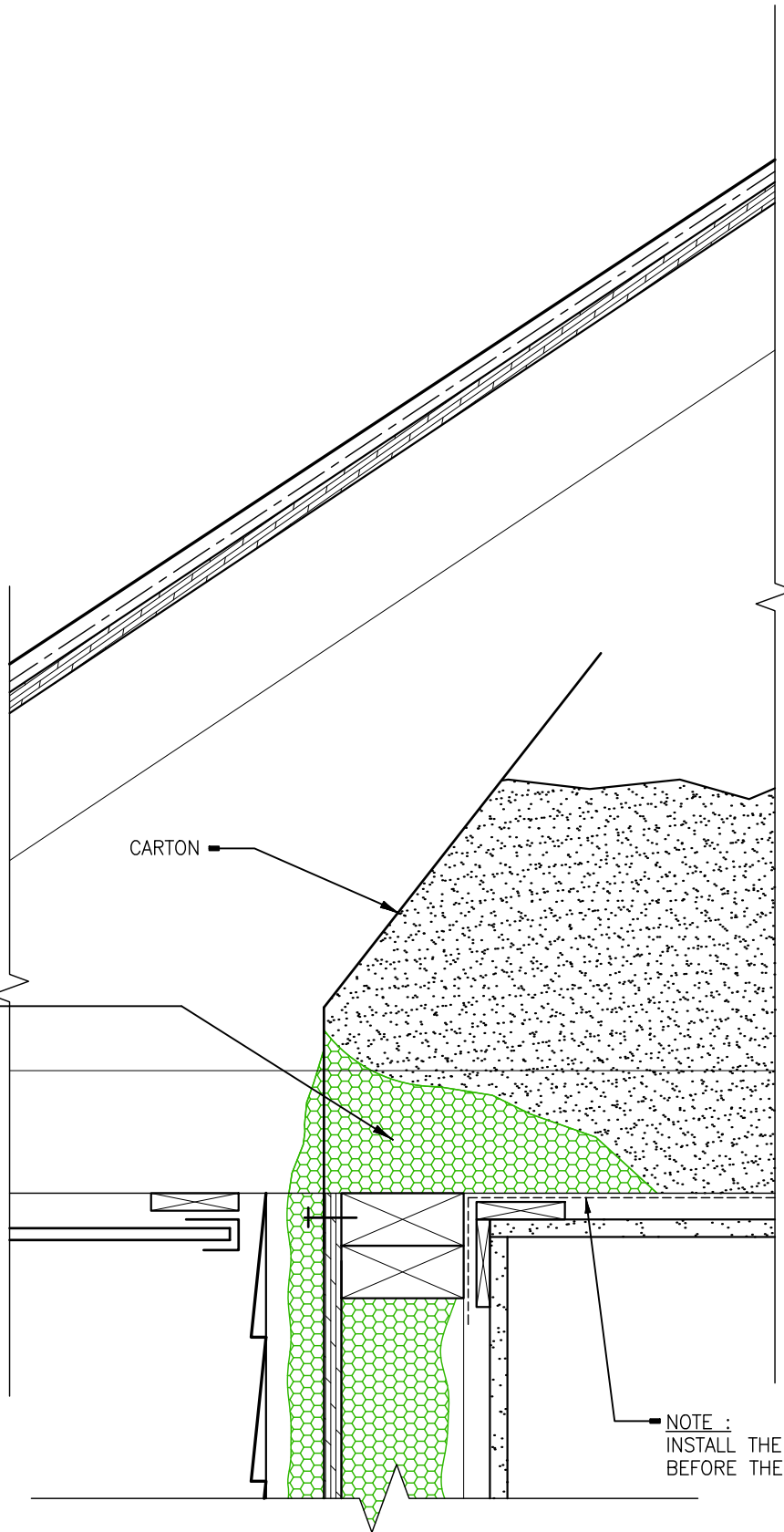


TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:5

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

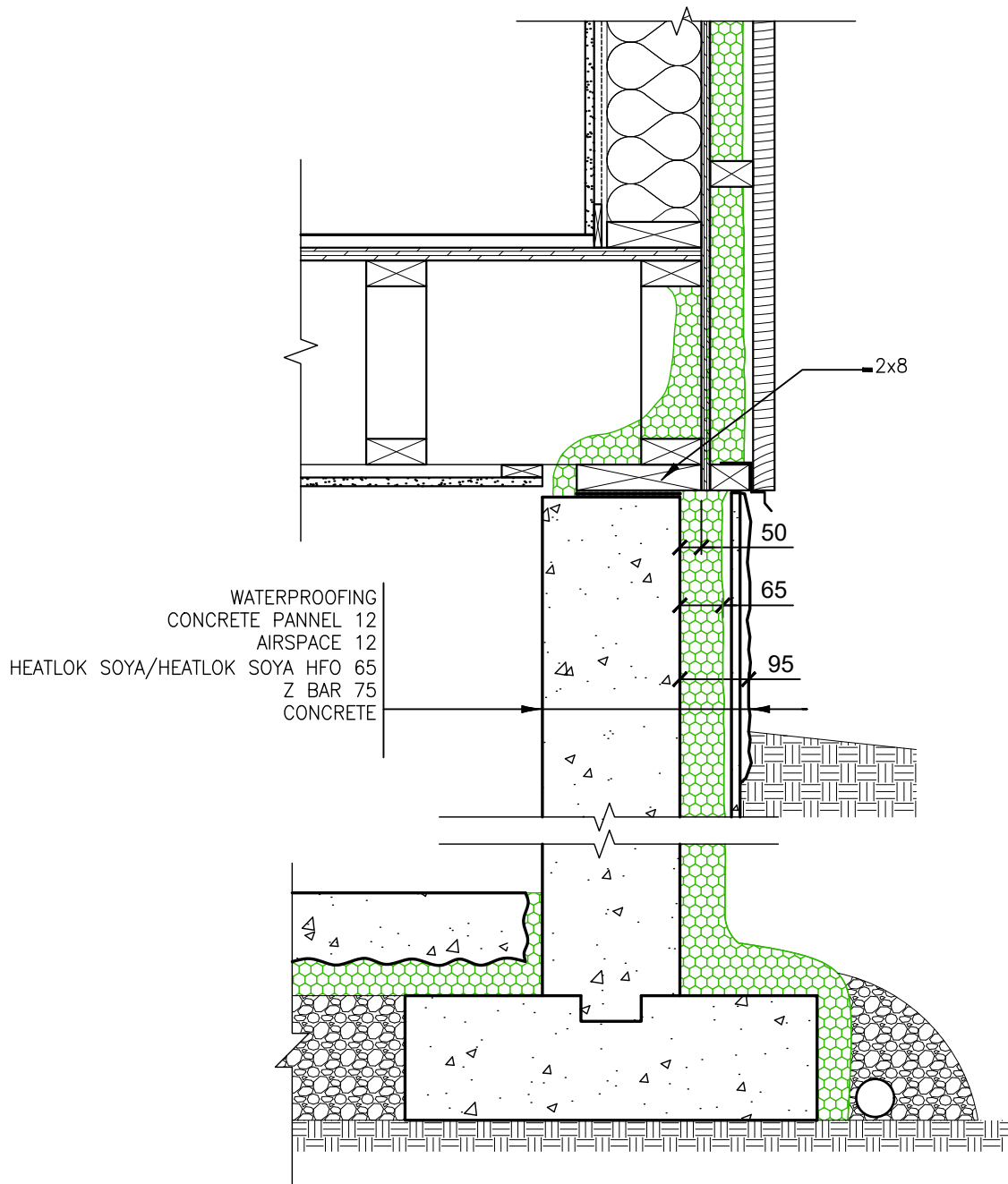


NOTE :
INSTALL THE VAPOR BARRIER
BEFORE THE PARTITIONS

TYPICAL DETAIL - WOOD FRAMING

Date: 20-10-2020

Scale: 1:5



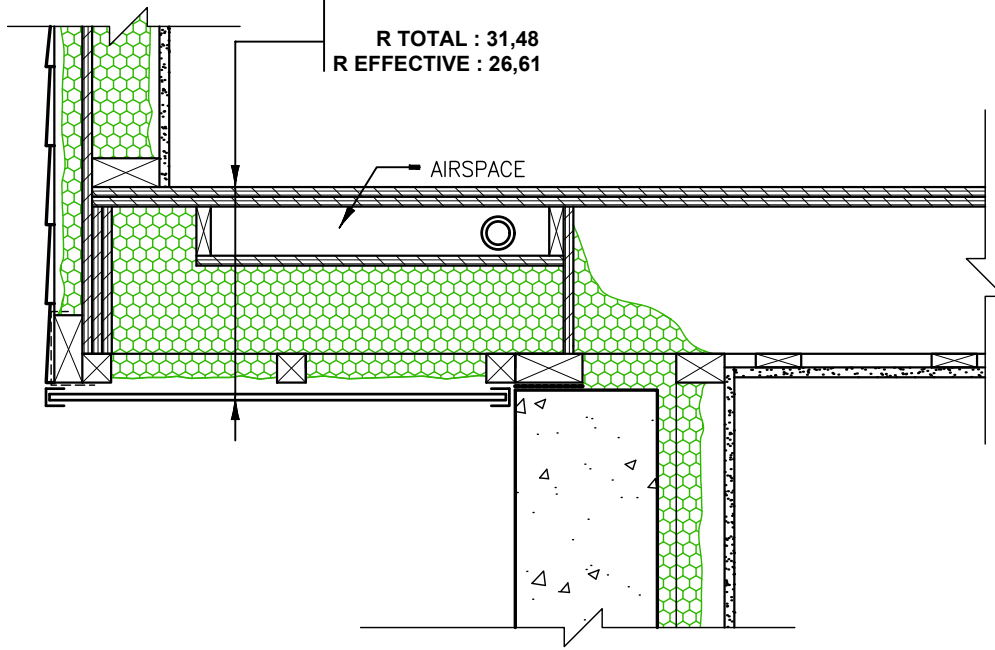
TYPICAL DETAIL - WOOD FRAMING

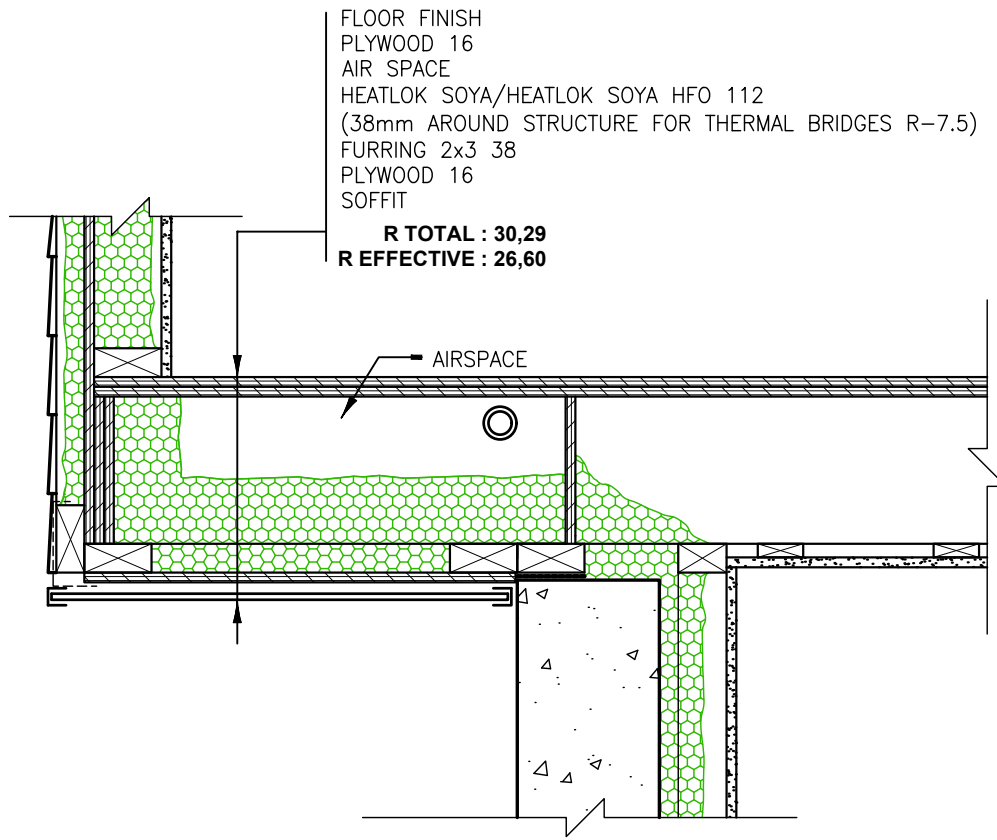
Date: 20-10-2020

Scale: 1:10

FLOOR FINISH
 PLYWOOD 16
 AIR SPACE
 PLYWOOD 16
 HEATLOK SOYA/HEATLOK SOYA HFO 117
 (32mm AROUND STRUCTURE FOR THERMAL BRIDGES R=7.5)
 FURRING 2x2 38
 AIRSPACE 6
 SOFFIT

R TOTAL : 31,48
R EFFECTIVE : 26,61





FLOOR FINISH
 PLYWOOD 16
 AIR SPACE
 HEATLOK SOYA/HEATLOK SOYA HFO 112
 (38mm AROUND STRUCTURE FOR THERMAL BRIDGES R=7.5)
 FURRING 2x3 38
 PLYWOOD 16
 SOFFIT

R TOTAL : 30,29
R EFFECTIVE : 26,60