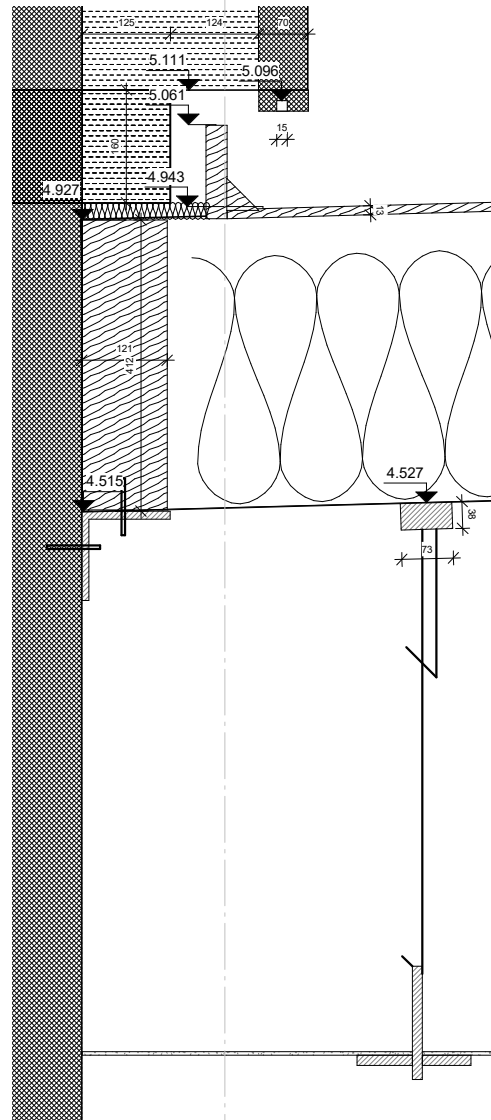


(LL)
Concrete external wall - Roof Cassete



Wooden roof cassettes:

13mm plywood
50mm air gap
350mm mineral wool
0.2mm DPM layer
1:40 slope

Roof finish:

DPC layer
2 layers of roofing felt,
1st is 3mm
2nd is 4mm Asphalt Felt torched-in

Concrete external walls:

420 sandwich element
70mm outer leaf
250mm insulation
100mm inner leaf

Suspended ceiling:

38X73mm ceiling
battens
brackets that attach
battens wooden hanger
Gypsum 12.5mm boards
with 470mm of length

I100_F6_H5_N04

Connection roof cassette - Sandwich element (top):

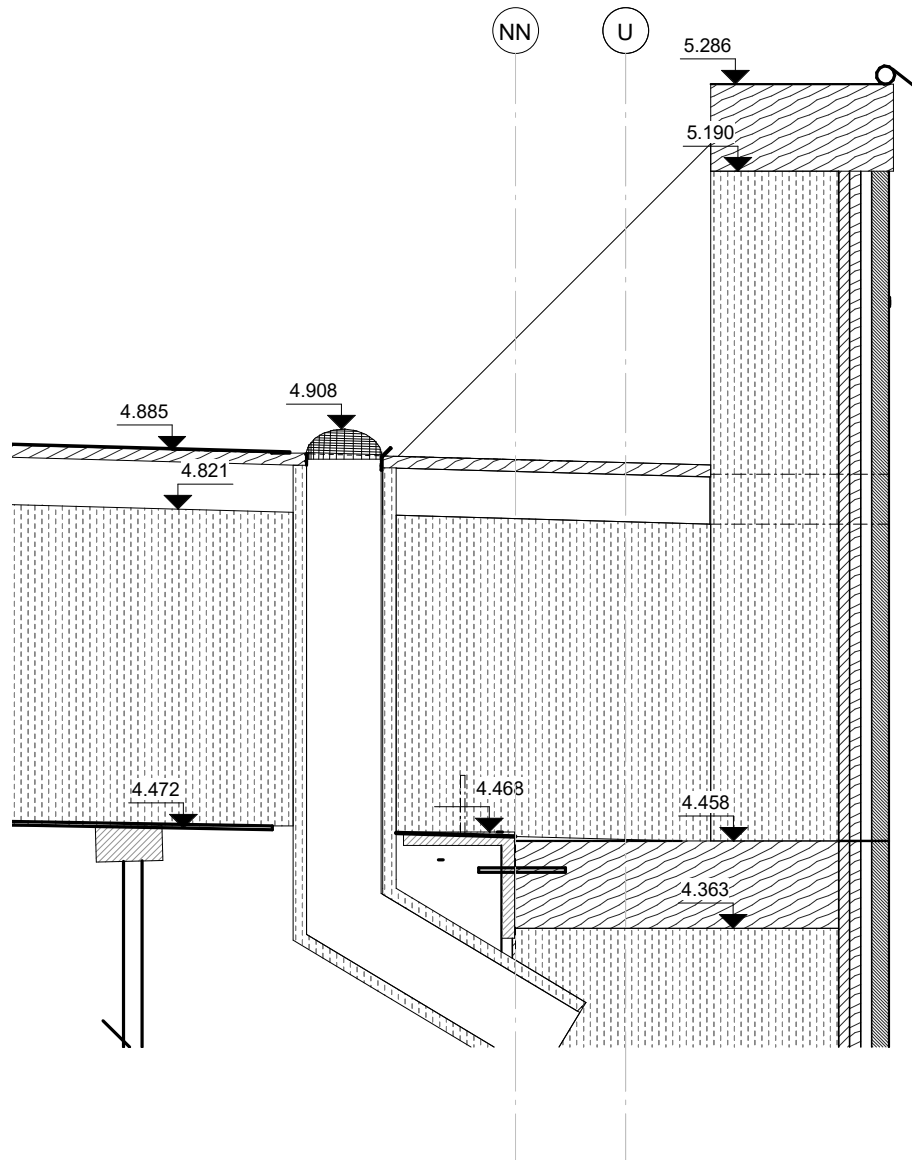
Insulation is cut in half on elevation 5.111m
Nose drip at bottom of Element's outer leaf
30x130mm plywood board is placed on top of
roof cassette in protection of insulation
Plywood shapped as triangle connected to
plywood board
50mm air gap left around shield plywood
24mm soft insulation at bottom of hard
insulation

Connection roof cassette - sandwich element (bottom):

Roof cassette connected to
concrete inner leaf by Steel
bracket and anchor screwed to
bottom of vertical wooden
cassete batten and inner leaf's
concrete

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PROJECT: Multipurpose hall	DATE: 22/04/2022	I100_F6_H5_N04
SUBJECT: Concrete Element-Roof Casset-Suspended Ceiling	SCALE: As indicated	
DRAWN BY: Ana	CLASS:	

**Wooden roof cassettes:**

13mm plywood
 50mm air gap
 350mm mineral wool
 0.2mm DPM layer
 1:40 slope

Roof finish:

DPC layer
 2 layers of roofing felt,
 1st is 3mm
 2nd is 4mm Asphalt Felt torched-in

Eave:

50mm opening on
 external facade to
 allow air flow
 Flashing overlapping
 facade
 DPC layer and roofing
 felt layers

Downpipe:

110ø downpipe inserted in 150ø
 PVC pipe surrounded with soft
 insulation
 Downpipe is led through roof
 cassette and into external wall

Leaf catcher

Metal sheet layed on top of DPC,
 nailed to roof cassette and
 overlapping downpipe

Wooden External wall:

424mm pre fabricated wooden wall
 19mm vertical wooden cladding
 12mm air gap
 12mm plywood
 12mm gypsum board
 140mm mineral wool
 160mm mineral wool
 0.5mm DPM
 45mm mineral wool
 12mm plywood
 12mm gypsum board
 Minimum U VALUE: 0,113W/m²K
 Actual U value: 0,108W/m²K
 Fire demand: REI60

**Connection of roof cassette
and external wooden wall:**

Steel bracket screwed to
 external wall through a
 90x350mm plywood board
 and further down where first
 batten on stud is
 Steel bracket screwed to roof
 cassette through cassette's
 battens
 0.2mm DPM from roof
 cassette overlaps steel
 bracket where it will be
 secured.

Glass hall foundation:

500mmx250mm concrete reinforced
with 6 12Ø reinforcement bars
2x 190mmx250mm light clinker block,
75mm insulation
10mm mortar on top of first light clinker block
Plaster on external side of light clinker block

Glass hallway:

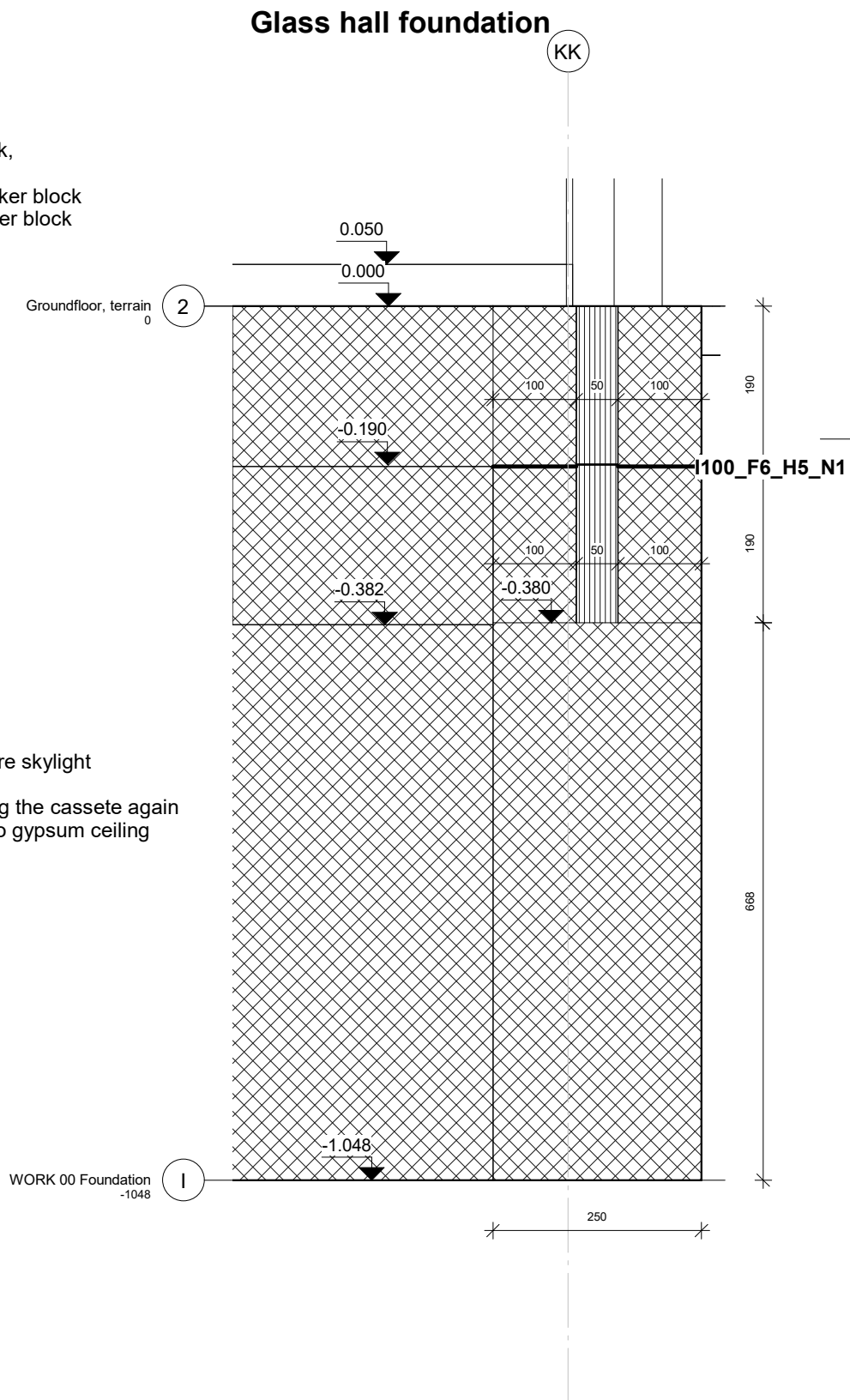
Curtain walls
50x115mm mullions

Skylight:

Plasteco,
skylight double glazed cc/1
installed accoring to manefacturer
Ventilation in roof cassette stops before skylight
and is led out by a pipe
going around the skylight and entering the cassette again
13mm gypsum on sides connecting to gypsum ceiling
Uvalue: 0,56W/m²K

Doors:

Fire demand: EI 30



SectionRP3 - Callout 1
1 : 5

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PROJECT: Multipurpose hall	DATE: 06/14/22	I100_F6_H5_N1
SUBJECT: Glass Hall foundation	SCALE: As indicated	
DRAWN BY: Author	CLASS:	

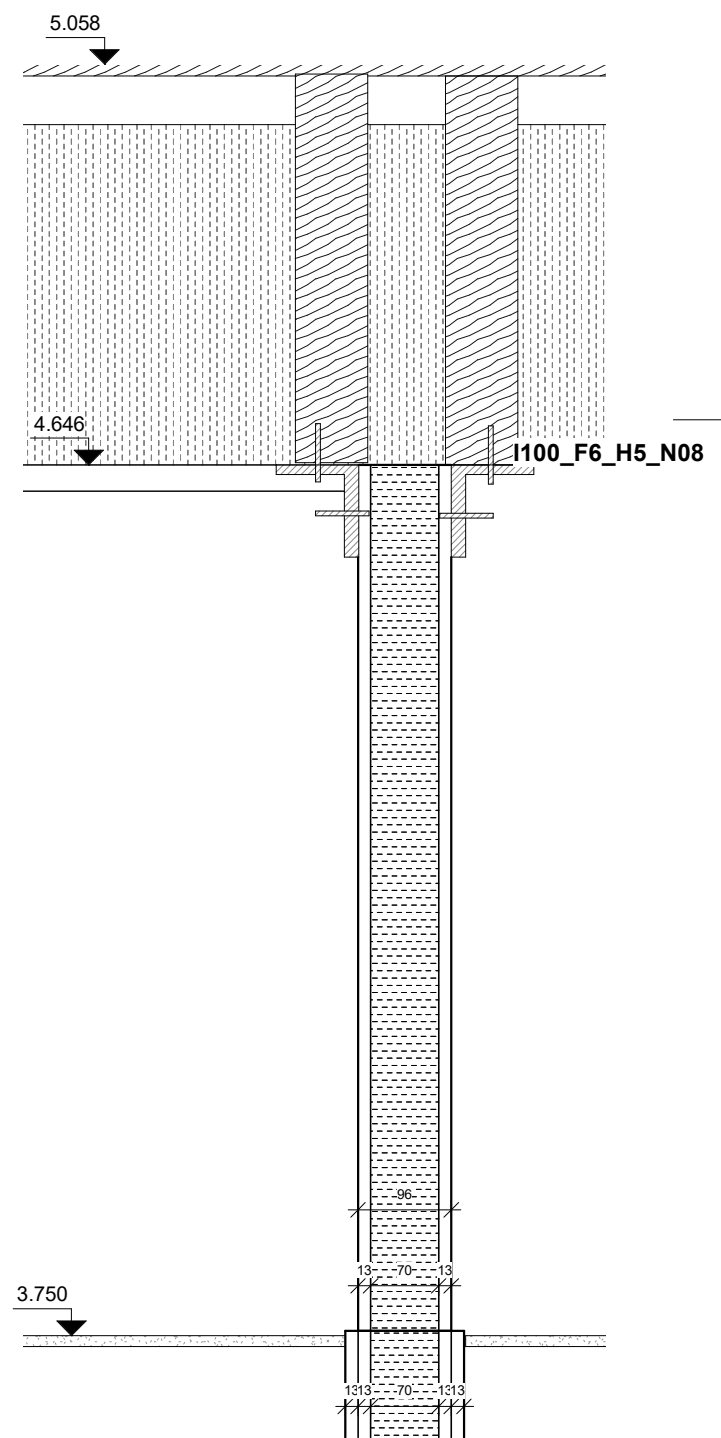
Internal wall - roof connection
(Wooden building)
Detail is located between modular lines
17 and 18

Internal walls:

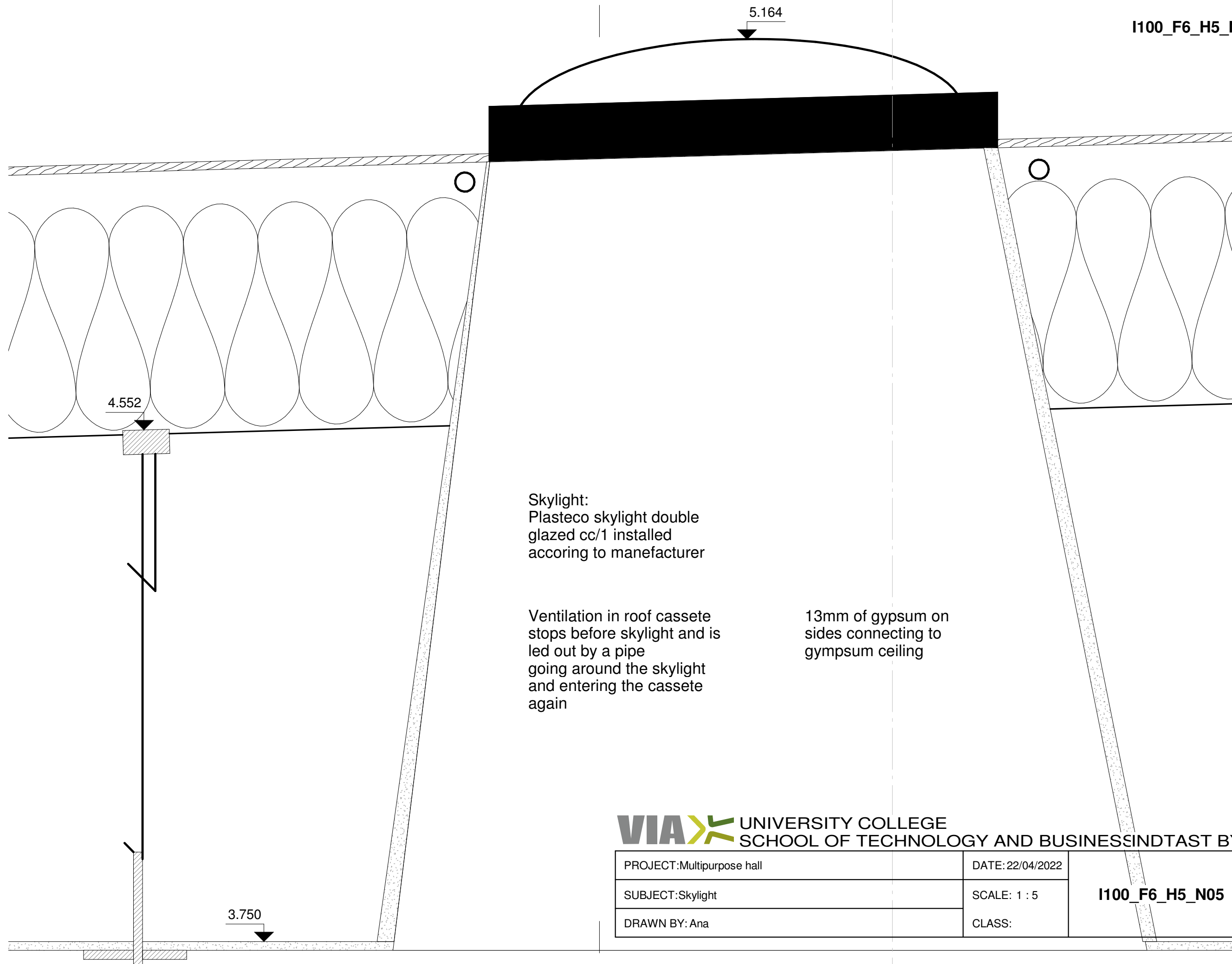
120mm pre fabricated wooden internal walls
13mm gypsum board
13mm gypsum board
70mm mineral wool
13mm gypsum board
13mm gypsum board
5mm above gypsym ceiling internal wall continues
up as:
13mm gypsum board
70mm mineral wool
13mm gypsum board
Connected to roof cassettes by steel brackets
bolted on both sides of gypsum boards of internal
walls, into roof cassette battens

Wooden roof cassettes:

13mm plywood
50mm air gap
350mm mineral wool
0.2mm DPM layer
1:40 slope
Roof finish:
DPC layer
2 layers of roofing felt,
1st is 3mm DPC,
2nd is 4mm Asphalt Felt torched-in



PROJECT: Multipurpose hall		DATE: 22/04/2022	I100_F6_H5_N08
SUBJECT: Ceiling-Internal Wall		SCALE: As indicated	
DRAWN BY: Ana		CLASS:	



Skylight:
Plasteco skylight double
glazed cc/1 installed
accoring to manefacturer

Ventilation in roof cassette
stops before skylight and is
led out by a pipe
going around the skylight
and entering the cassette
again

13mm of gypsum on
sides connecting to
gypsum ceiling

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PROJECT: Multipurpose hall	DATE: 22/04/2022	I100_F6_H5_N05
SUBJECT: Skylight	SCALE: 1 : 5	
DRAWN BY: Ana	CLASS:	