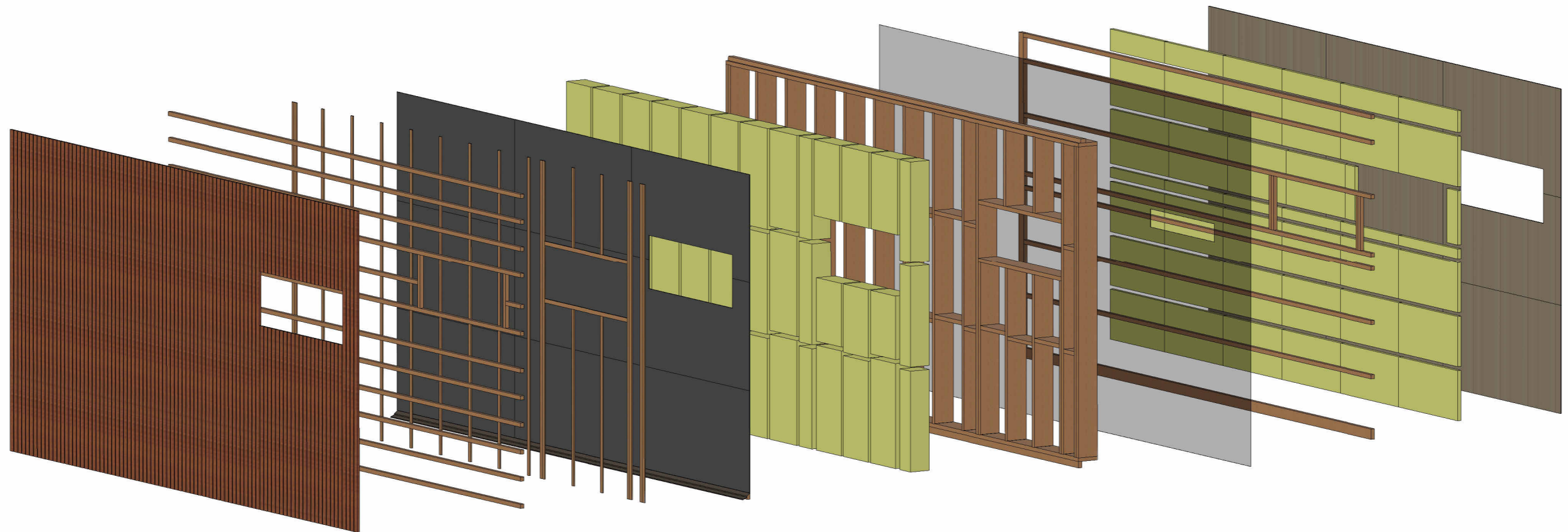


# Element - W3



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Campus Horsens

PROJECT: Multi-Purpose Hall	DATE: 14-05-2023	1
SUBJECT: Cover Page	SCALE:	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	



# GENERAL INFORMATION

## Prefabricated Timber Wall

1. Vertical Wood Cladding - 21 x 70 mm
2. Counter Batten - 45 x 45 mm Horizontal  
c/c 300 mm
3. Distance Strips - 12 x 45 mm Vertical  
c/c 600 mm
4. Windbarrier - 9mm
5. Load-Bearing Frame Timber Studs  
- 45 x 245 mm
6. Mineral Wool Insulation Batts  
- 245 mm (2x145 mm)
7. DPM - 2 mm
8. Non-Load Bearing Frame Timber studs  
45 x 45 mm c/c 600 mm
9. Mineral Wool Insulation Batts - 45 mm
10. OSB Boards - 12 mm

## GENERAL SPECIFICATIONS

**Project:** Multi Purpose Hall  
**Address:** Vestermarksvej 13A 7100 Vejle  
**Element Number:** W3  
**Element Type:** Wooden Wall Element  
**Manufacturer:** REDDINGTON

## Element Summary

Element	Amount	Position between modular lines
N1, S3	2	1-24
N2, S6	2	1-24
N3	1	1-24
N4, E1	2	1-24, A-N
E2, S2, S5	3	1-24, A-N
E3	1	A-N
E4	1	A-N
E5	1	A-N
W1	1	A-N
W2	1	A-N
W3	1	A-N
W4	1	A-N
W5	1	A-N
S1	1	1-24
S4	1	1-24
<b>Total</b>	<b>20 elements</b>	



West facade  
1: 100

East facade  
1: 100

All measurements are in millimeters

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PROJECT: Multi-purpose hall	DATE: 05-05-23	<b>2</b>
SUBJECT: Plan for holes and recess	SCALE: 1 : 100	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

### Tender Control Plan

Case:	Multi-Purpose Hall			Date: 28-05-2023		
Location:	Vestermarksvej 13A 7100 Vejle	Contract/building component: <b>Wood external Walls</b>				

Nr.	Subject	Method/How	Time	Demands	Demands to documentation	Who/responsible	Carried out/Refrence
1	Timber materials delivery control	Visual control for approval	On receiving	Amount same as ordered and approval with stamps	Delivery notes	Storage keeper	
2	Other materials delivery control	Visual check	On receiving	Amount delivered as ordered	Delivery notes and journal	Storage keeper	
3	Wooden Quality control	Visual check measuring	After cutting	Cut to correct measurement and check quality	Journal	Production manager	
4	Load-Bearing Framework control	Visual check measuring	After assembly	Correct measurement, no damage on the timber, correct placement/amount of the screws	Journal/photo documentation	Production manager	
5	DPM control	Visual check	After assembly	Completely tight, no damage on holes, DPM taped correctly	Journal/photo documentation	Production manager	
6	Non load-bearing frame	Visual check measuring	After screwing	Correct measurement, no damage on the timber, correct placement/amount of the screws	Photo documentation	Production manager	
7	45mm insulation fillin control	Visual check	After placing	No gab, no damage, correct placement of pieces	Journal/photo documentation	Production manager	
8	OSB control	Visual check measuring	After screwing	Correct assembly, correct placement of screws, no damage or holes	Photo documentation	Production manager	
9	Element control	Visual check measuring	Before turning the element	Overall construction	Photo documentation	Production manager	
10	Element control	Measuring	After turning the element	Overall construction	Photo documentation	Production manager	
11	245 insulation fill in control	Visual check	After placing	No gab, no damage, correct placement of pieces	Journal/photo documentation	Production manager	
12	Cembrit windstopper basic control	Visual check measuring	After screwing	Placed and placed correctly, and correct measurements	Photo documentation	Production manager	
13	Distance strip control	Visual check measuring	After fixing	Correct measurement, no damage on the timber, correct placement/amount of the screws	Photo documentation	Production manager	
14	Counter battens control	Visual check measuring	After fixing	Correct measurement, no damage on the timber, correct placement/amount of the screws	Photo documentation	Production manager	
15	Cladding board control	Visual check measuring	After fixing	No gab, no damage, correct placement of pieces	Photo documentation	Production manager	
16	Element control	Visual check measuring	Before packing	Overall and opening measurements done correctly	Photo documentation	Production manager	
17	Element control	Visual check	After packing	Packing done correctly	Journal/photo documentation	Production manager	
18	Element control	Visual check	Before delivery	Loading safety check and last quality check	Journal/photo documentation	Production manager	

### Tender Control Plan

Case:	Multi-Purpose Hall			Date: 28-05-2023		
Location:	Vestermarksvej 13A 7100 Vejle	Contract/building component: <b>Wood Parapet</b>				

Nr.	Subject	Method/How	Time	Demands	Demands to documentation	Who/responsible	Carried out/Refrence
1	Timber materials delivery control	Visual control for approval	On receiving	Amount same as ordered and approval with stamps	Delivery notes	Storage keeper	
2	Other materials delivery control	Visual check	On receiving	Amount delivered as ordered	Delivery notes and journal	Storage keeper	
3	Wooden quality control	Visual check measuring	After cutting	Cut to correct measurement and check quality	Journal	Production manager	
4	Load-Bearing Framework control	Visual check measuring	After assembly	Correct measurement, no damage on the timber, correct placement/amount of the screws	Journal/photo documentation	Production manager	
5	120mm insulation fill in control	Visual check	After placing	No gab, no damage, correct placement of pieces	Journal/photo documentation	Production manager	
6	OSB control	Visual check measuring	After screwing	Correct placement of screws, no damage or holes	Photo documentation	Production manager	
7	Element control	Visual check measuring	Before turning the element	Overall construction	Photo documentation	Production manager	
8	Element control	Measuring	After turning the element	Overall construction	Photo documentation	Production manager	
9	Cembrit windstopper basic control	Visual check measuring	After screwing	Placed and placed correctly, and measurements	Photo documentation	Production manager	
10	Distance strip control	Visual check measuring	After fixing	Correct measurement, no damage on the timber, correct placement/amount of the screws	Photo documentation	Production manager	
11	Counter battens control	Visual check measuring	After fixing	Correct measurement, no damage on the timber, correct placement/amount of the screws	Photo documentation	Production manager	
12	Element control	Visual check measuring	Before packing	Overall and opening measurements done correctly	Photo documentation	Production manager	
13	Element control	Visual check measuring	After packing	Packing done correctly	Journal/photo documentation	Production manager	
14	Element control	Visual check	Before delivery	Loading safety check and last quality check	Journal/photo documentation	Production manager	

## Process Control

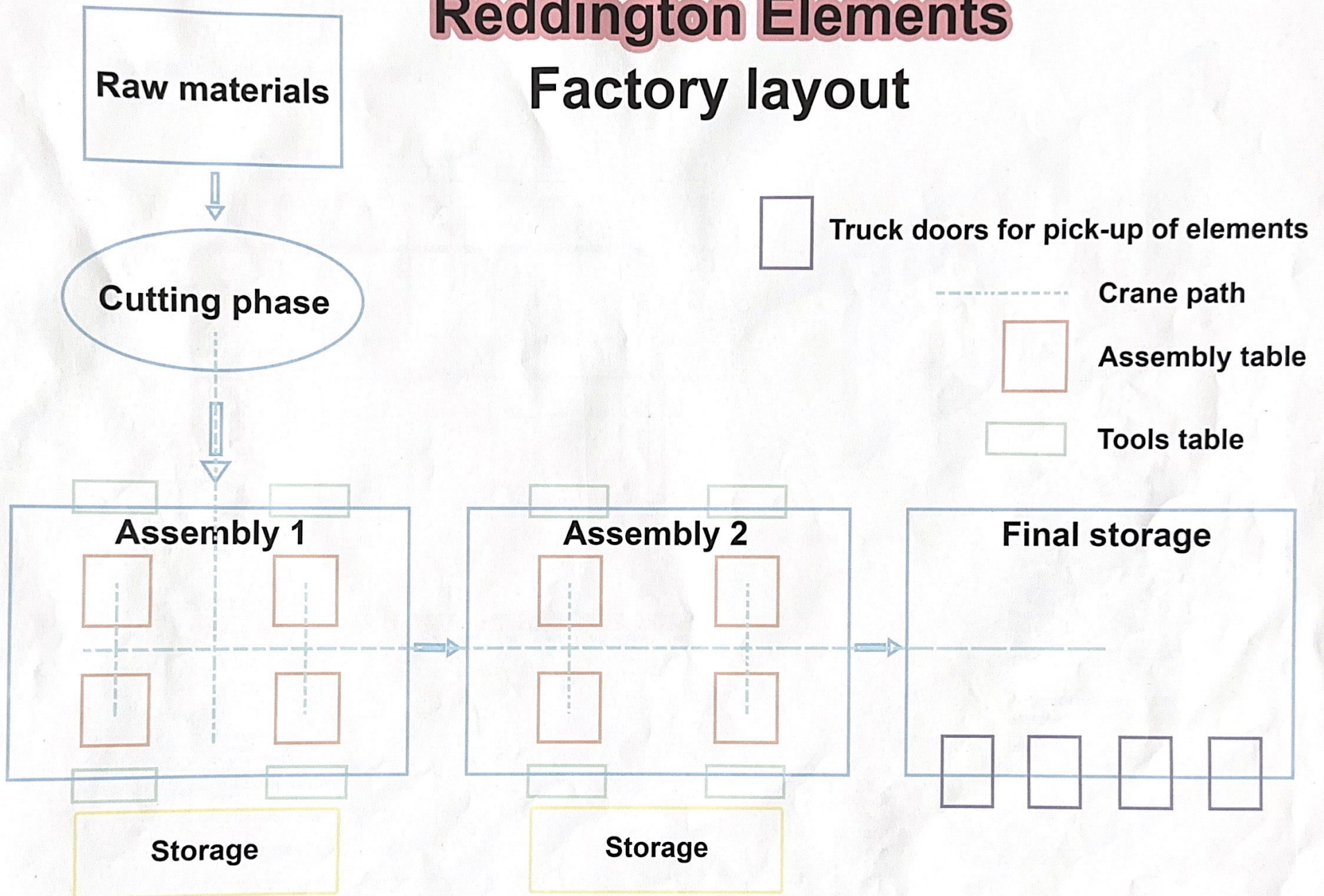
<b>Project: Multi-Purpose Hall</b>		<b>Drawing no: 01</b>	<b>Element no: W3</b>	<b>Date: 30-04-2023</b>	<b>Page 1 of 1</b>
<b>Area: West Gable</b>			<b>Supervisor: Dimitrian</b>	<b>Team: 5</b>	

1. Element geometry	Prescribed	Ascertained	Ok	Remedy	Daily control
1 A Total height (max +, - 5 mm)	3600mm				
1 B 1 width (max +, - 3 mm)	7200mm				
1 C Window opening width (max +, - 5 mm)	1700mm				
1 D Window opening height (max +, - 5 mm)	600mm				

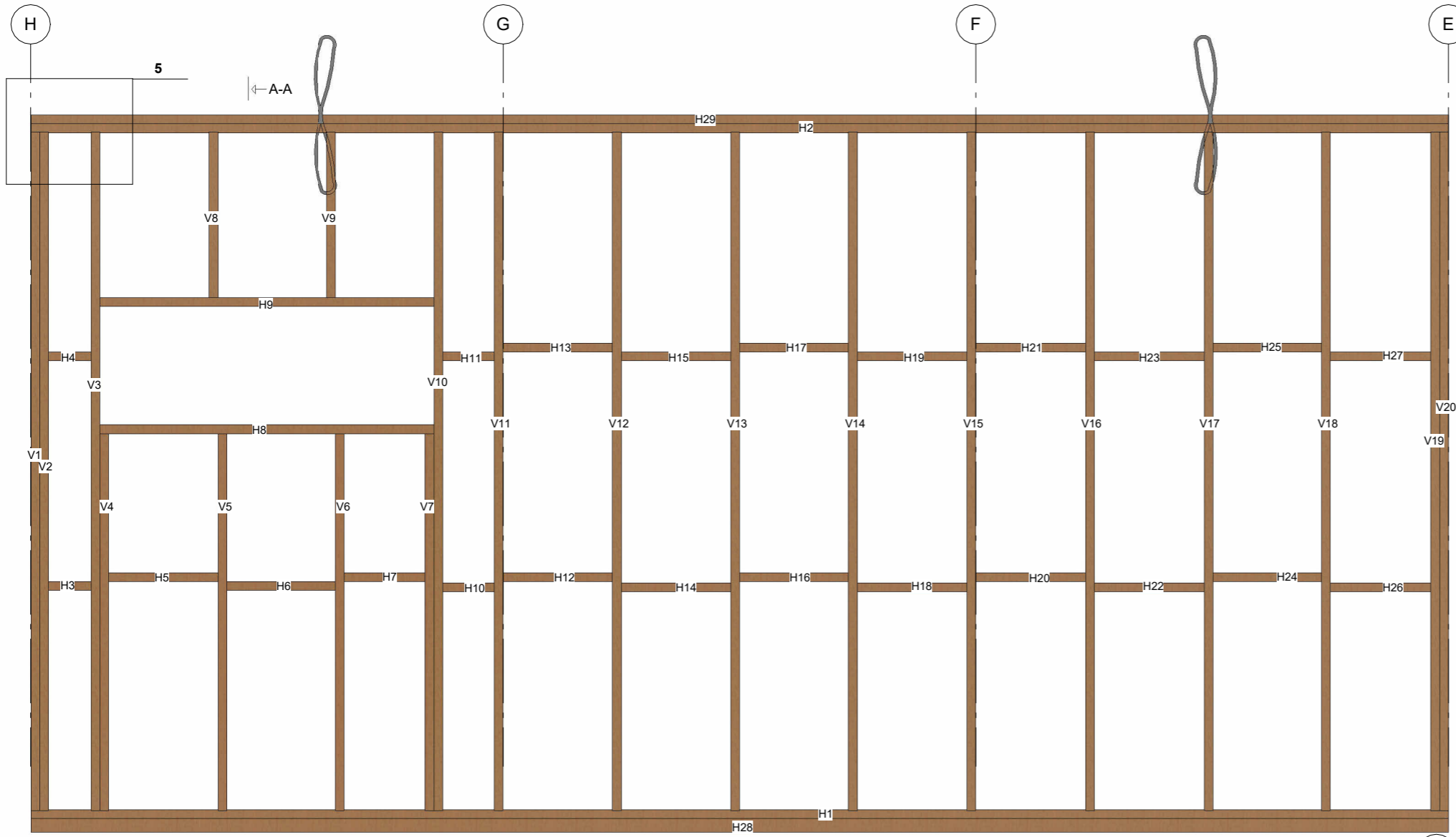
2. Quality of material	Prescribed	Ascertained	Ok	Remedy	Daily control
2 A Wooden Main frame	45x245mm				
2 C Damp proof membrane	0,2 mm polyethylene				
2 D Battens	45x45mm				
2 E Insulation 45mm	Mineral wool Cl. 37.				
2 F OSB Board	2400x1200mm				
2 G Insulation 245mm	Mineral wool Cl. 37.				
2 H Wind break Fire Impregnated	9mm Plywood				
2 I Distance Strips Impregnated	12x45mm				
2 J Counter Battens	45x45mm				
2 K Cladding	21x70x3600mm				

3. Quality of assembly	Ok	Remedy	Daily control
3 A Wooden frame: placement/connection			
3 B Lifting anchor: Placement/connection with 3-strand Danaflex dia. 10mm			
3 C Wooden frame: Placement/connection with 5,0 x 80/ 0,5 x 150 mm screws			
3 D Damp proof membrane: Correct placement/fixing			
3 E Battens Placement/connection with 5,0 x 80/ 0,5 x 180 mm screws			
3 F Insulating 45mm: Correct fixing and placement			
3 G Internal OSB Board: Placement/fixing with galvanized nails 4,0x45mm			
3 H Insulating 245mm: Correct fixing and placement			
3 I Wind break (Fire Plywood): Placement/fixing with galvanized nails 3,9x38mm			
3 J Distance strips: Placement/fixing with 0,5 x 50 mm screws			
3 K Counter Battens: Placement/fixing with 0,5 x 120mm screws			
3 L External Cladding: Placement/fixing with nails 2,1x45mm			
3 M Packaging of element.			
3 N Miscellaneous			

# Reddington Elements Factory layout



# LOAD-BEARING FRAME - STEP 1



## Wall Specification

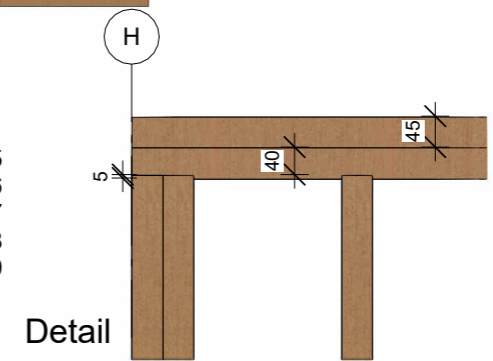
- Prefabricated Timber Wall**
1. Vertical Wood Cladding - 21 x 70 mm
  2. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
  3. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
  4. Windbarrier - 9mm
  5. **Load-Bearing Frame Timber Studs - 45 x 245 mm**
  6. Mineral Wool Insulation Batts - 245 mm (2x125 mm)
  7. DPM - 2 mm
  8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
  9. Mineral Wool Insulation Batts - 45 mm
  10. OSB Boards - 12 mm

Inside  
1 : 25

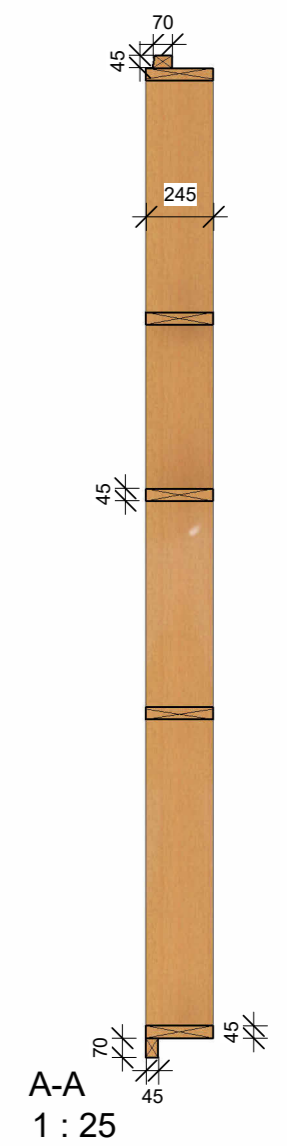
Load Bearing Frame			
Dimensions	Length	Mark	Count
45x245 mm timber	7200	H1, H2	2
45x245 mm timber	3450	V1,V2,V3,V10,V11, V12,V13,V14,V15,V16, V17,V18,V19,V20	14
45x245 mm timber	1915	V4,V5,V6,V7	4
45x245 mm timber	845	V8,V9	2
45x245 mm timber	215	H3,H4	2
45x245 mm timber	1700	H8,H9	2
45x245 mm timber	555	H5,H6,H12,H13,H14,H15, H16,H17,H18,H19,H20,H21, H22,H23,H24,H25	16
45x245 mm timber	410	H7	1
45x245 mm timber	260	H10,H11	2
45x245 mm timber	510	H26,H27	2
45x70 mm timber	7200	H28,H29	2
TOTAL			49

## Mounting Sequence


- |        |         |         |         |         |
|--------|---------|---------|---------|---------|
| 1. H1  | 12. H8  | 23. V18 | 34. H14 | 45. H25 |
| 2. H2  | 13. V8  | 24. V19 | 35. H15 | 46. H26 |
| 3. V1  | 14. V9  | 25. H3  | 36. H16 | 47. H27 |
| 4. V20 | 15. H9  | 26. H4  | 37. H17 | 48. H28 |
| 5. V2  | 16. V11 | 27. H5  | 38. H18 | 49. H29 |
| 6. V3  | 17. V12 | 28. H6  | 39. H19 |         |
| 7. V10 | 18. V13 | 29. H7  | 40. H20 |         |
| 8. V4  | 19. V14 | 30. H10 | 41. H21 |         |
| 9. V5  | 20. V15 | 31. H11 | 42. H22 |         |
| 10. V6 | 21. V16 | 32. H12 | 43. H23 |         |
| 11. V7 | 22. V17 | 33. H13 | 44. H24 |         |



Detail



A-A  
1 : 25

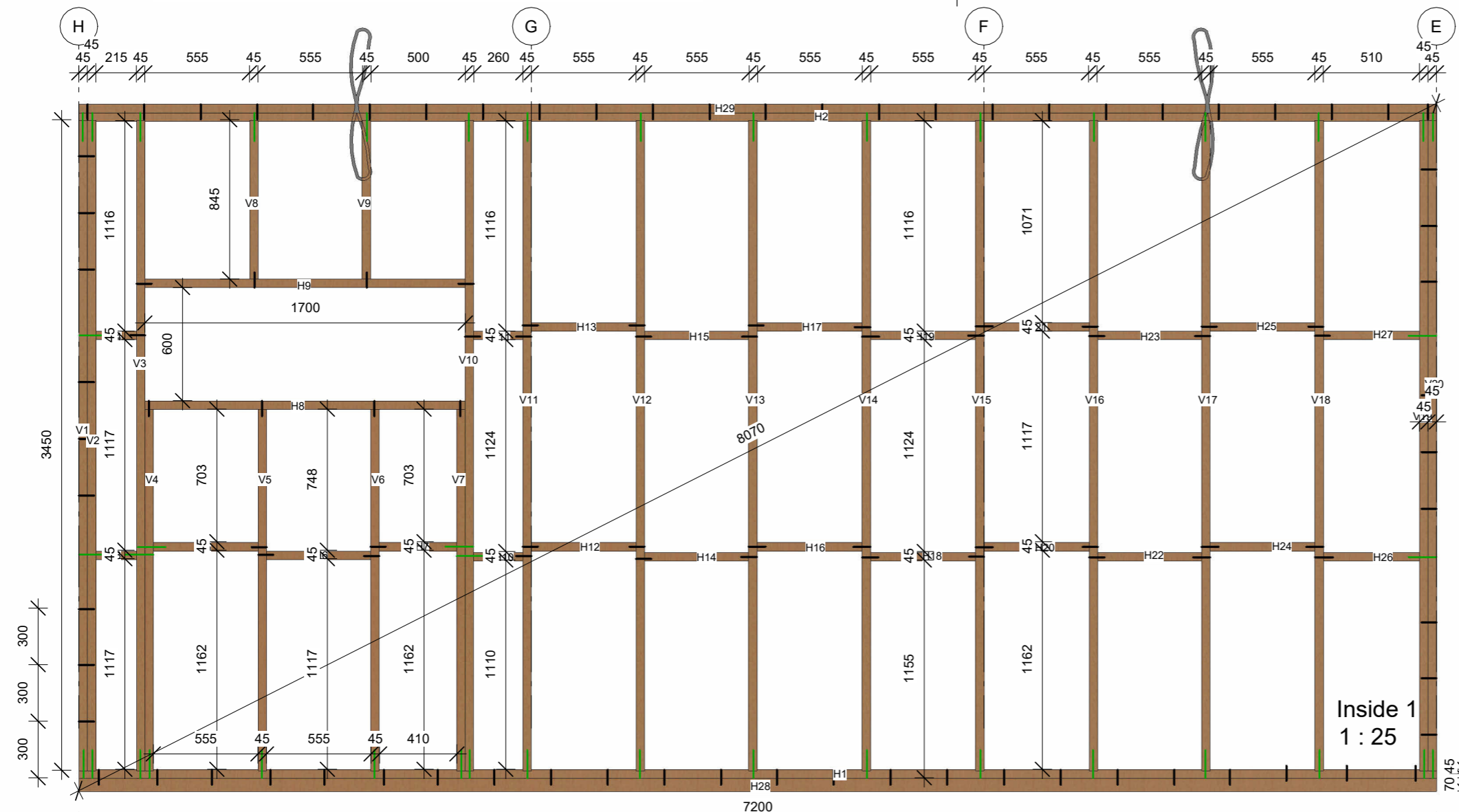


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Campus Horsens

PROJECT: Multi-Purpose Hall	DATE: 18-05-2023	<b>5</b>
SUBJECT: Load-Bearing Frame - Step 1	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH21-23F	

# LOAD-BEARING FRAME - STEP 1.1



## Information

45x245 mm Barrier planks  
 Length 3600 - 5400 - C24  
 Length 6000 - 7200 - C18

Width: 245 mm  
 Height: 45 mm  
 Length: 3600 - 7200 mm  
 Surface: Planed all 4 pages  
 corners: Rounded / phased  
 Strength Sorting: C18 / C24  
 Wood: Gran

Manufacturer: Sodra  
 Fire resistance: D-s2,d0



## 3-Strand Danaflex

### Technical specifications:

Manufactured according to DS/EN 699  
 Material: Fibrillated polypropylene split film, UV-stabilized  
 Construction: 3-strand  
 Color: Blue (can also be supplied in white or orange)  
 Elongation at break: Approx. 30%  
 Melting point: 165 - 175°C  
 Specific gravity: 0.91 g/cm<sup>3</sup>

Inside 1  
 1 : 25

Member	Quantity	Material	Waste	Recycled
H1, H2	2 pcs	45x245x7200 mm	0%	0%
H28, H29	1 pc	45x245x7200 mm	40,7%	0%
V1, V2, V3, V10, V11, V12, V13	7 pcs	45x245x7200 mm	0%	0%
V4	1 pc	45x245x7200 mm	20%	0%
V7	1 pc	45x245x7200 mm	2,7%	0%
H5, H6, H12, H13, H14, H15, H16, H17, H18, H19, H20, H21, H7	1 pc	45x245x7200 mm	1,8%	0%

## Cutting list (not in scale)

Member	Quantity	Material	Waste	Recycled
H22, H23, H24, H25, H26, H27	6 pcs	45x245x3600 mm	10%	0%



**Dovetail joint**  
 Connection of the H1, H2, H28, H29

## Screws

- NKT Universal Spun+ 5,0x80\*
- NKT Universal Spun+ 5,0x150\*
- Use Class: 2



QUALITY CONTROL	
Wood Frame Assembly	
Correct studs used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct dimensions	<input type="checkbox"/>
No damages on wood	<input type="checkbox"/>
Name:	
Date:	Signature:

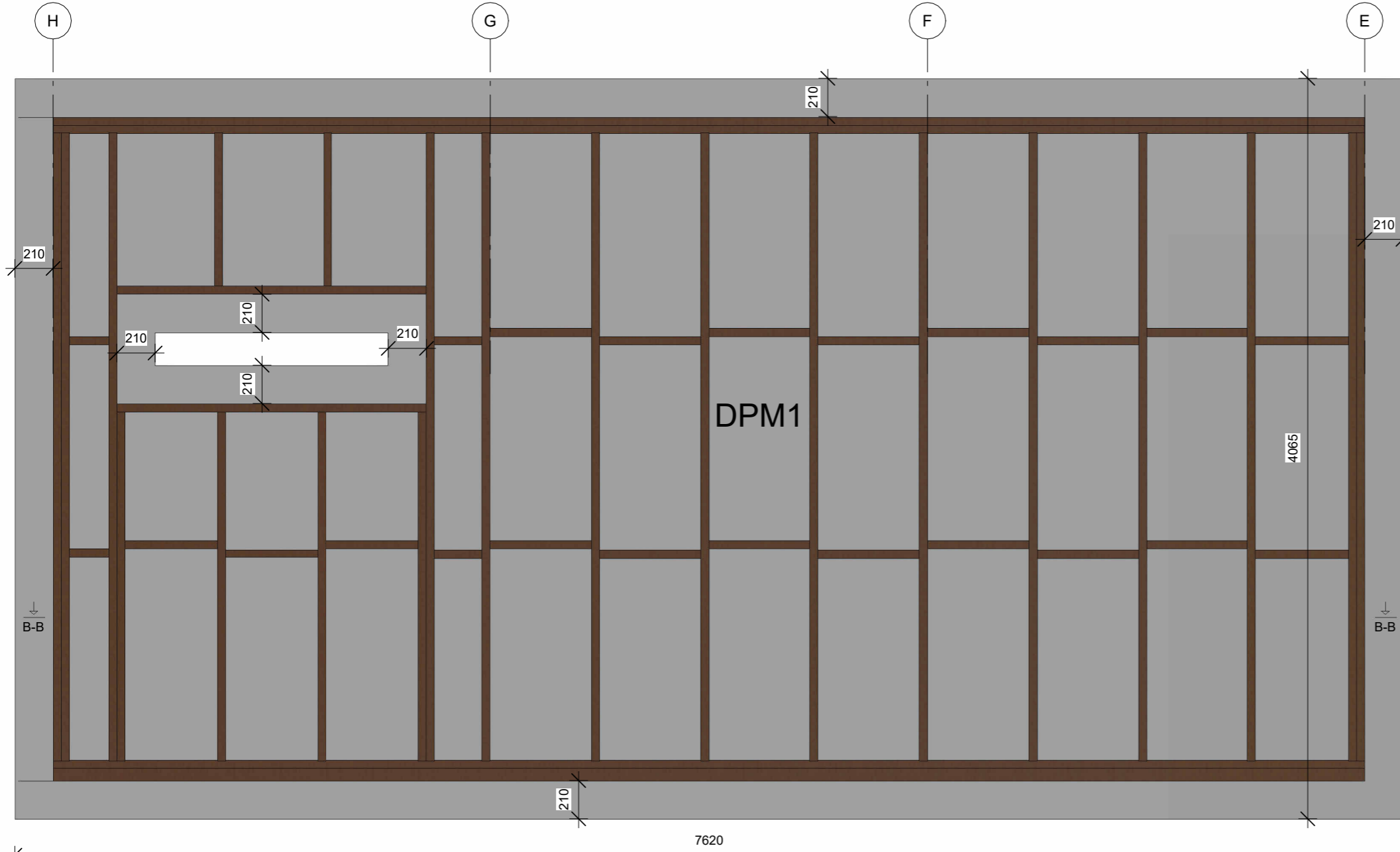


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PROJECT: Multi-Purpose Hall	DATE: 18-05-2023	<b>6</b>
SUBJECT: Load-Bearing Frame - Step 1.1	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

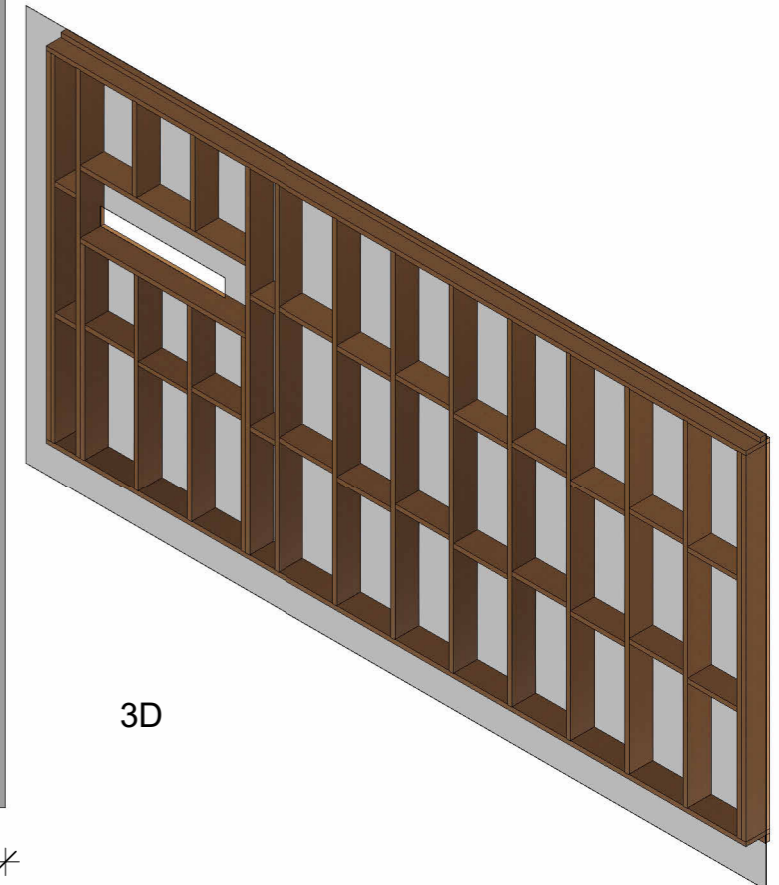
# DPM PE-FPIL STEP 2



## Wall Specification

### Prefabricated Timber Wall

1. Vertical Wood Cladding - 21 x 70 mm
2. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
3. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
4. Windbarrier - 9mm
5. Load-Bearing Frame Timber Studs - 45 x 245 mm
6. Mineral Wool Insulation Batts - 245 mm (2x145 mm)
7. **DPM - 2 mm**
8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
9. Mineral Wool Insulation Batts - 45 mm
10. OSB Boards - 12 mm



3D

Inside 1 : 25



B-B 1 : 25

DPM-PE Foil			
Length	Width	Mark	Count
7620	4065	DPM1	1
TOTAL			1

## Mounting Sequence

1. DPM1

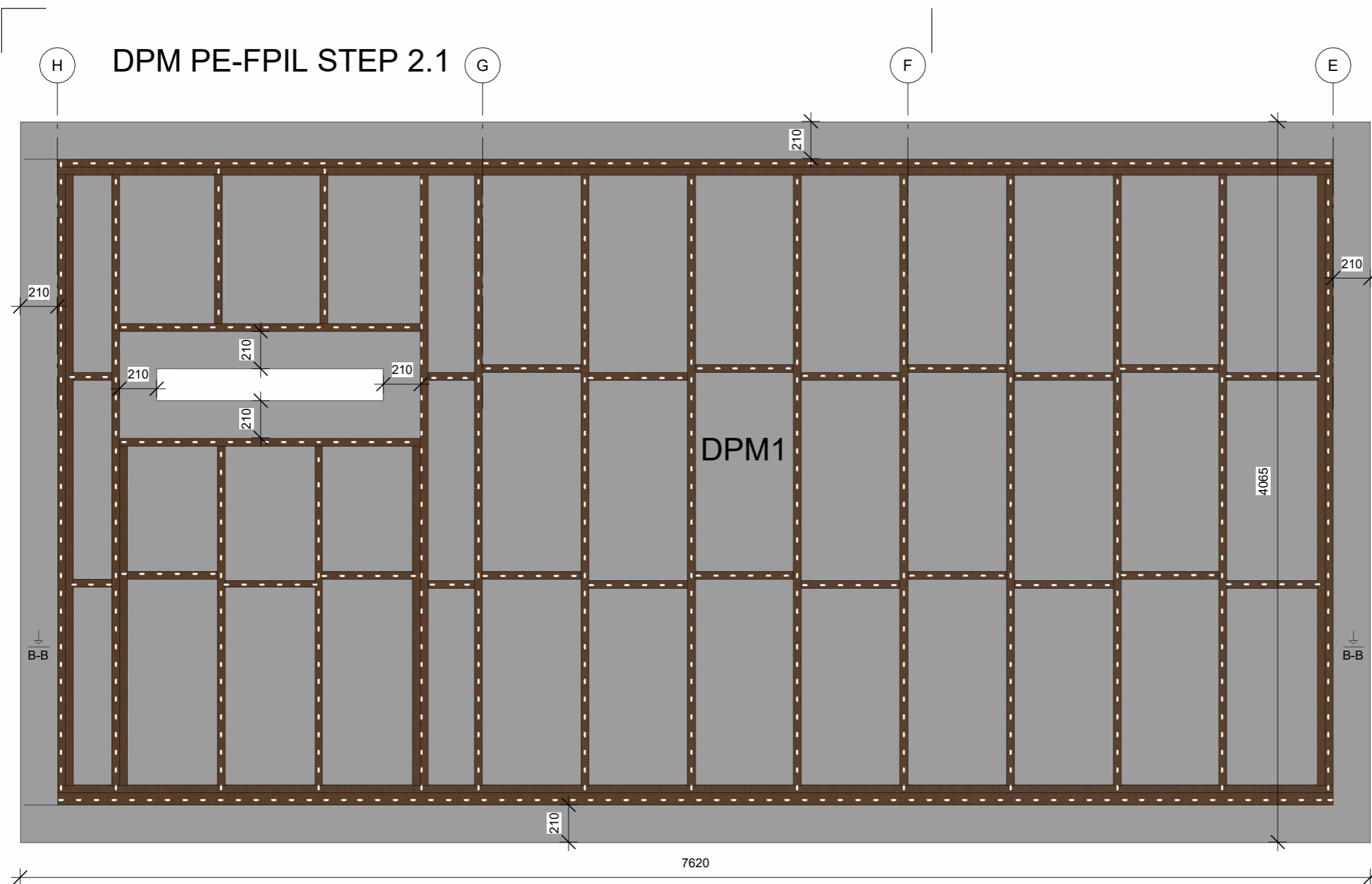


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PROJECT: Multi-Purpose Hall	DATE: 17-05-2023	<b>7</b>
SUBJECT: DPM-PE Foil - Step 2	SCALE: 1 : 25	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	





**Information**

Manufacturer: DAFA  
 Material: ProFoil - Polyethylene (PE) material  
 Type: Vapour barrier foil  
 Fire Classification: F  
 Staples: TJEP - PG 50

Inside 1  
 1 : 25

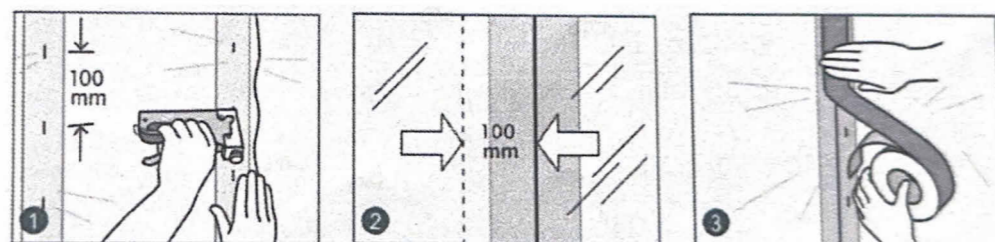
**Step-by-step process:**

1. Laying down the DPM Roll and cutting it to specified dimensions.
2. Stapling the DPM to the main frame studs behind.
3. Taping the staples to ensure a tight connection.

The DPM is fixed with staples to the main, load-bearing frame and around the opening. The staples are covered by tape, although the staples are showing on top of the tape on the drawing, for the workers to have a clearer idea of the placement of the staples. The spacing between the staples is 100mm.



Elektroshop.dk



QUALITY CONTROL	
DPM Assembly	
Correct sheet size used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct staple dimensions	<input type="checkbox"/>
No damages on foil	<input type="checkbox"/>
Name: _____	
Date: _____	Signature: _____

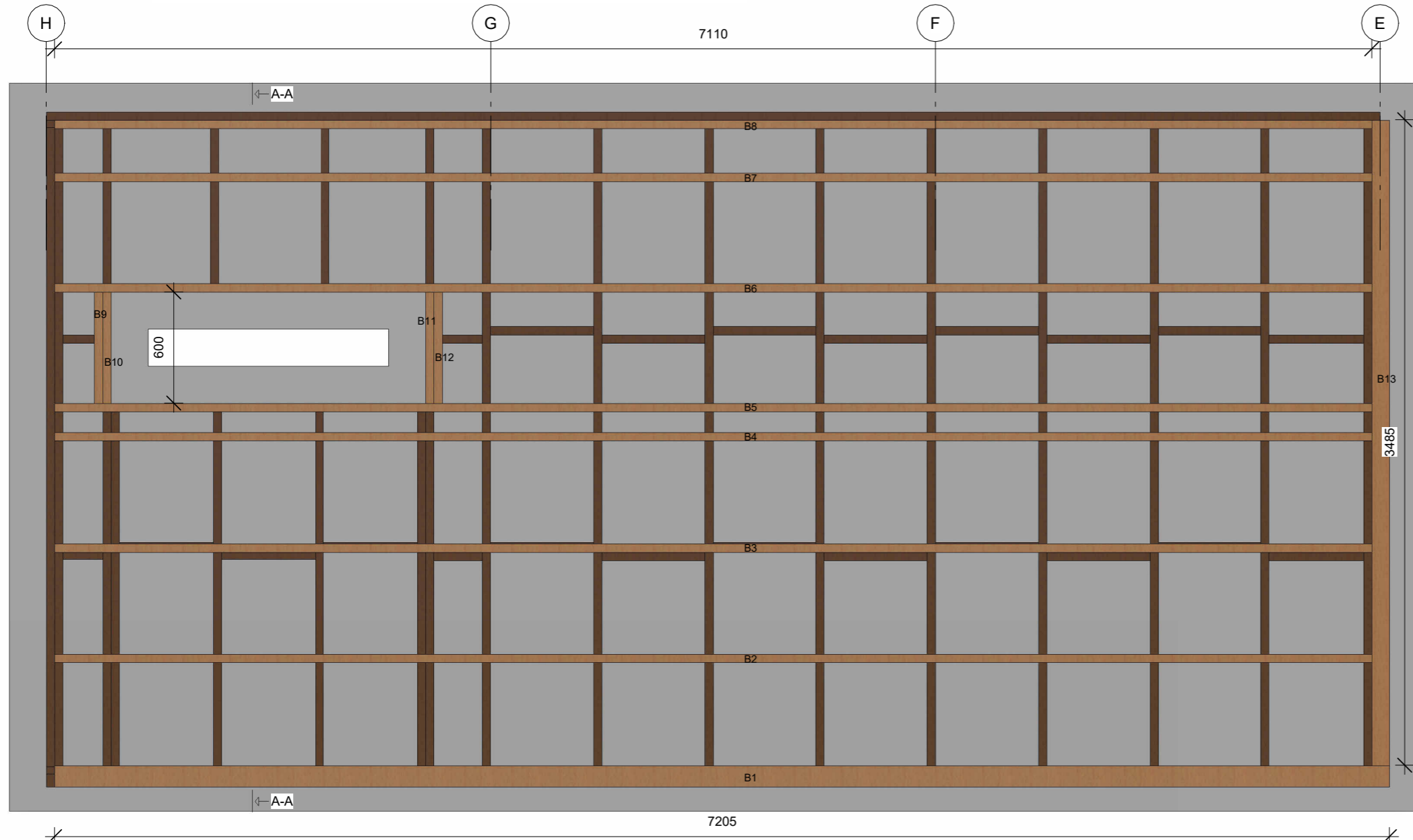


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PROJECT: Multi-Purpose Hall	DATE: 17/05/2023	<b>8</b>
SUBJECT: DPM-PE Foil - Step 2.1	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

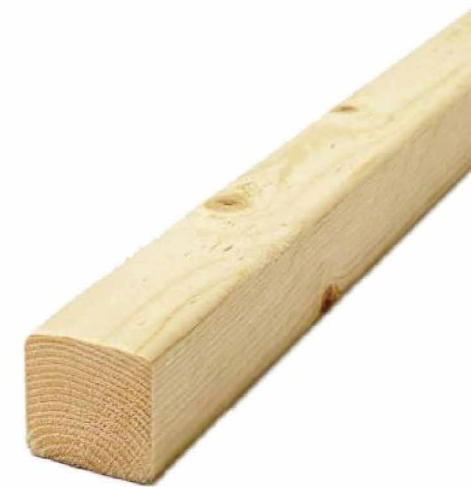
# NON LOAD-BEARING FRAME - STEP 3



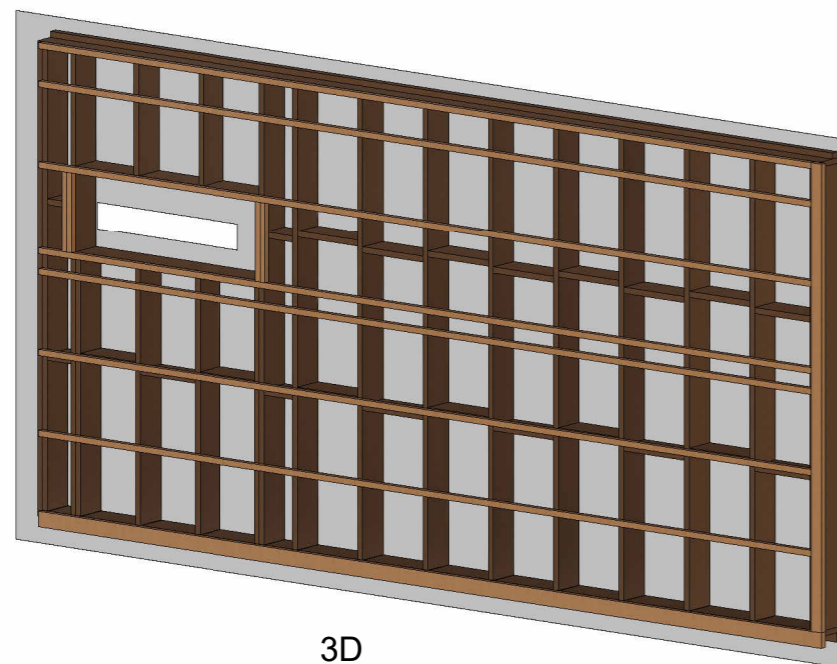
## Wall Specification

### Prefabricated Timber Wall

1. Vertical Wood Cladding - 21 x 70 mm
2. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
3. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
4. Windbarrier - 9mm
5. Load-Bearing Frame Timber Studs - 45 x 245 mm
6. Mineral Wool Insulation Batts - 245 mm (2x145 mm)
7. DPM - 2 mm
- 8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm**
9. Mineral Wool Insulation Batts - 45 mm
10. OSB Boards - 12 mm



Inside  
1 : 25



3D

## Mounting Sequence

- |       |         |
|-------|---------|
| 1. B1 | 8. B10  |
| 2. B2 | 9. B11  |
| 3. B3 | 10. B12 |
| 4. B4 | 11. B7  |
| 5. B5 | 12. B8  |
| 6. B6 | 13. B13 |
| 7. B9 |         |

Non-Load-Bearing Frame			
Dimensions	Length	Mark	Count
45x115 mm timber	7205	B1	1
45x45 mm timber	7110	B2,B3,B4,B5,B6,B7,B8	7
45x45 mm timber	600	B9,B10,B11,B12	4
45x95 mm timber	3485	B13	1
TOTAL			13

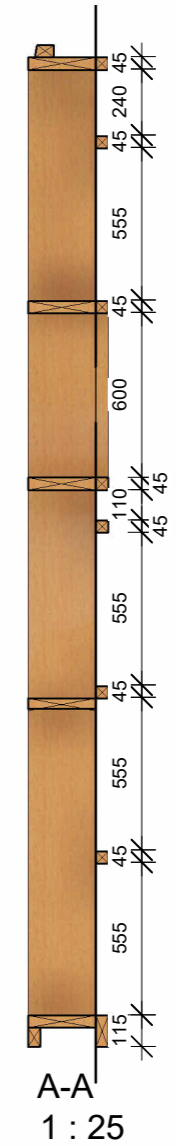
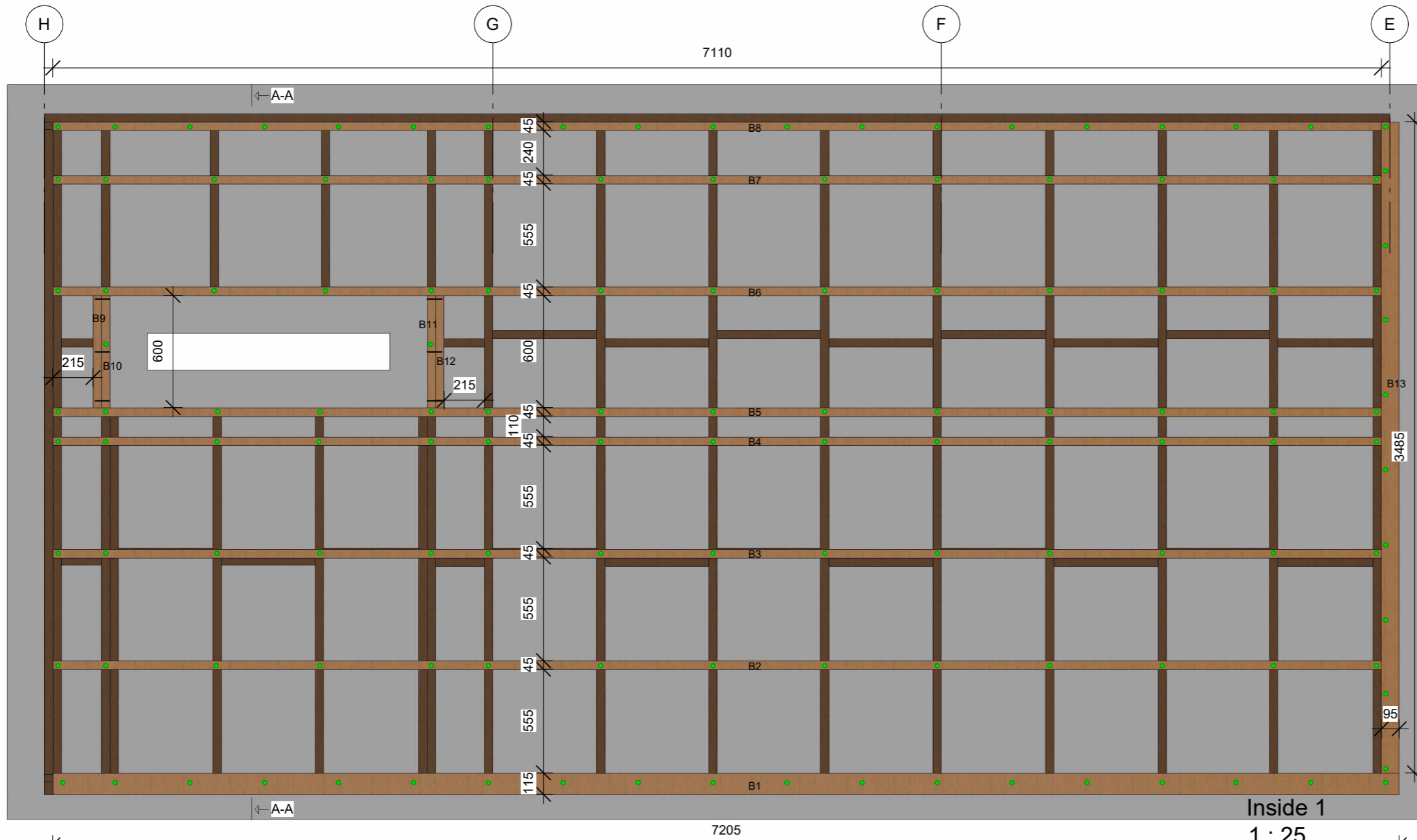


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PROJECT: Multi-Purpose Hall	DATE: 17-05-2023	<b>9</b>
SUBJECT: Non-Load-Bearing Frame - Step 3	SCALE: 1 : 25	
DRAWN BY: Cebotaru Dimitrian	CLASS: AH31-23F	

# NON LOAD-BEARING FRAME - STEP 3.1



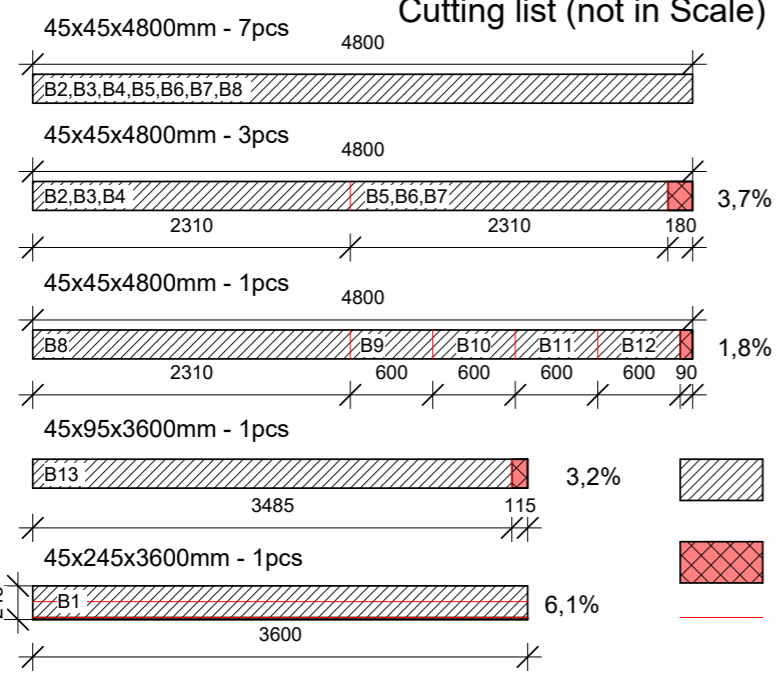
**Information**  
 Width: 45 mm  
 Height: 45 mm  
 Length: 3600 - 4800 mm  
 Planer: Yes  
 Rounded corners: Yes  
 Strength classification: C14



**45 X 245 Mm. Barrier Planks**  
 45x245 mm Barrier planks  
 Length 3.6 - 5.4 is C24  
 Length 6.0 - 7.2 is minimum C18  
 Width: 245 mm  
 Height: 45 mm  
 Length: 3600 - 7200 mm  
 Surface: Planed all 4 pages  
 corners: Rounded / phased  
 Strength Sorting: C18 / C24  
 Wood: Gran



## Cutting list (not in Scale)



Width: 95 mm  
 Height: 45 mm  
 Length: 3600 - 5400 mm  
 Planer: Yes  
 Rounded corners: Yes  
 Strength classification: C14



**Dovetail joint**  
 Connection of the B1,B2,  
 B3,B4,B5,B6,B7,B8

1. NKT Universal Spun+ 5,0x80\* for connecting the studs between them
  2. NKT Universal Spun+ 5,0x180\* for connecting to the load-bearing frame
- Use Class: 2



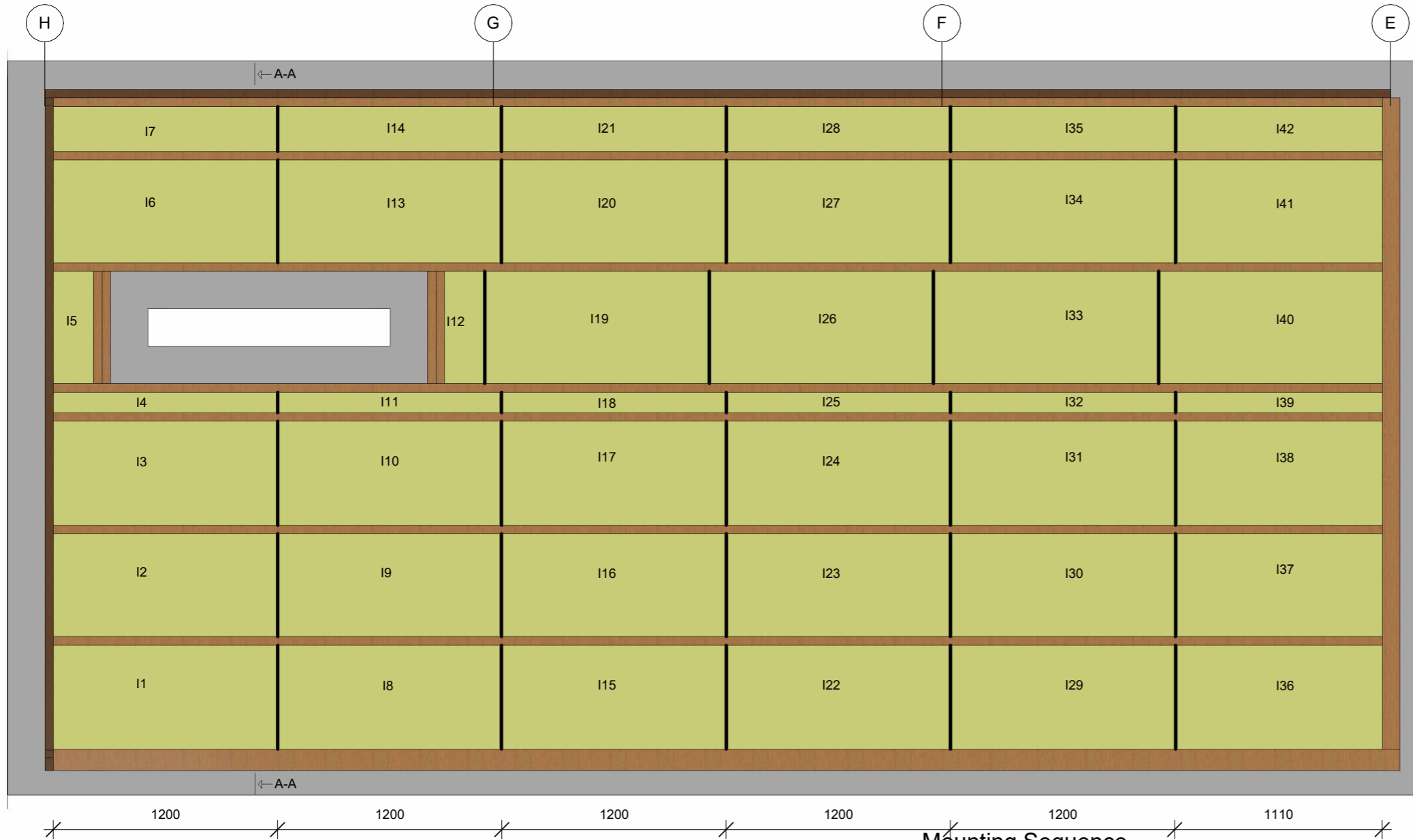
QUALITY CONTROL	
Wood Frame Assembly	
Correct studs used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct dimensions	<input type="checkbox"/>
No damages on wood	<input type="checkbox"/>
Name:	
Date:	Signature:

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PROJECT: Multi-Purpose Hall	DATE: 17-05-2023	<b>10</b>
SUBJECT: Non-Load-Bearing Frame - Step 3.1	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

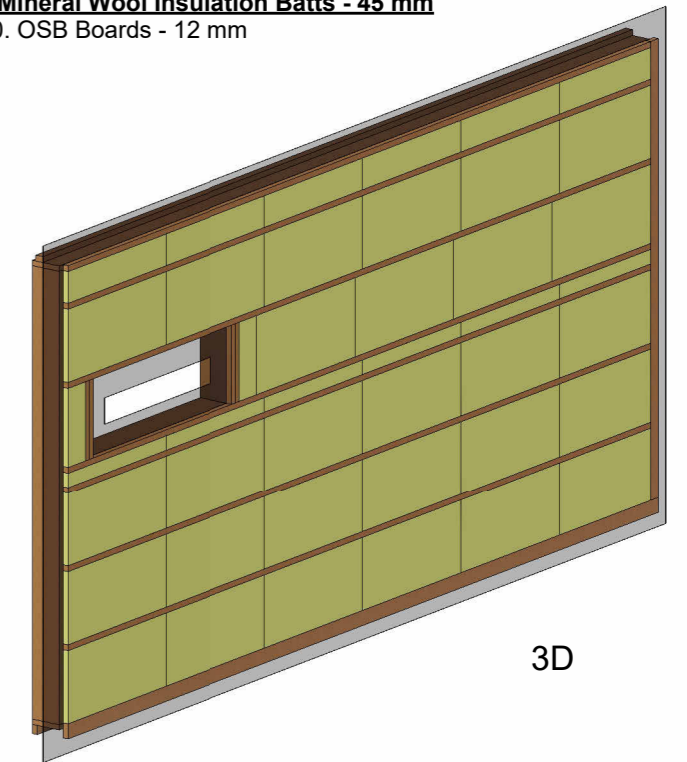
# NON LOAD-BEARING FRAME INSULATION - STEP 4



## WALL SPECIFICATION

### Prefabricated Timber Wall

1. Vertical Wood Cladding - 21 x 70 mm
2. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
3. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
4. Windbarrier - 9mm
5. Load-Bearing Frame Timber Studs - 45 x 245 mm
6. Mineral Wool Insulation Batts - 245 mm (2x125 mm)
7. DPM - 2 mm
8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
9. **Mineral Wool Insulation Batts - 45 mm**
10. OSB Boards - 12 mm



3D



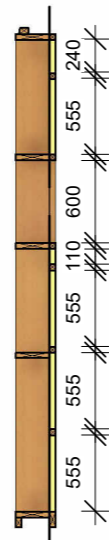
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Inside  
1 : 25

Mineral WOOL Batts - 45 mm			
Length	Width	Mark	Count
1200	600	I1,I2,I3,I6,I8,I9,I10, I13,I15,I16,I17,I19, I20,I22,I23,I24,I26, I27,I29,I30,I31,I33, I34,I36,I37,I38,I40, I41	28
1200	110	I4,I11,I18,I25,I32,I39	6
215	600	I5,I12	2
1200	240	I7,I14,I21,I28,I35,I42	6

### Mounting Sequence

- |         |         |         |         |
|---------|---------|---------|---------|
| 1. I1   | 12. I19 | 23. I34 | 34. I14 |
| 2. I2   | 13. I20 | 24. I36 | 35. I18 |
| 3. I3   | 14. I22 | 25. I37 | 36. I21 |
| 4. I6   | 15. I23 | 26. I38 | 37. I25 |
| 5. I8   | 16. I24 | 27. I40 | 38. I28 |
| 6. I9   | 17. I26 | 28. I41 | 39. I32 |
| 7. I10  | 18. I27 | 29. I4  | 40. I35 |
| 8. I13  | 19. I29 | 30. I5  | 41. I39 |
| 9. I15  | 20. I30 | 31. I7  | 42. I41 |
| 10. I16 | 21. I31 | 32. I11 |         |
| 11. I17 | 22. I33 | 33. I12 |         |



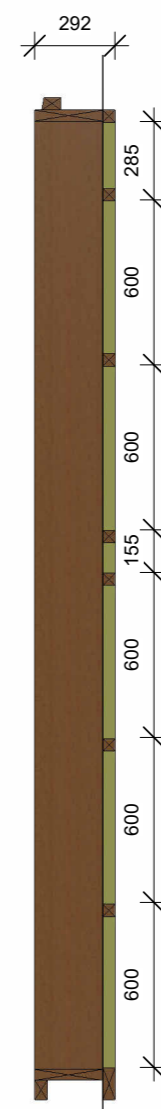
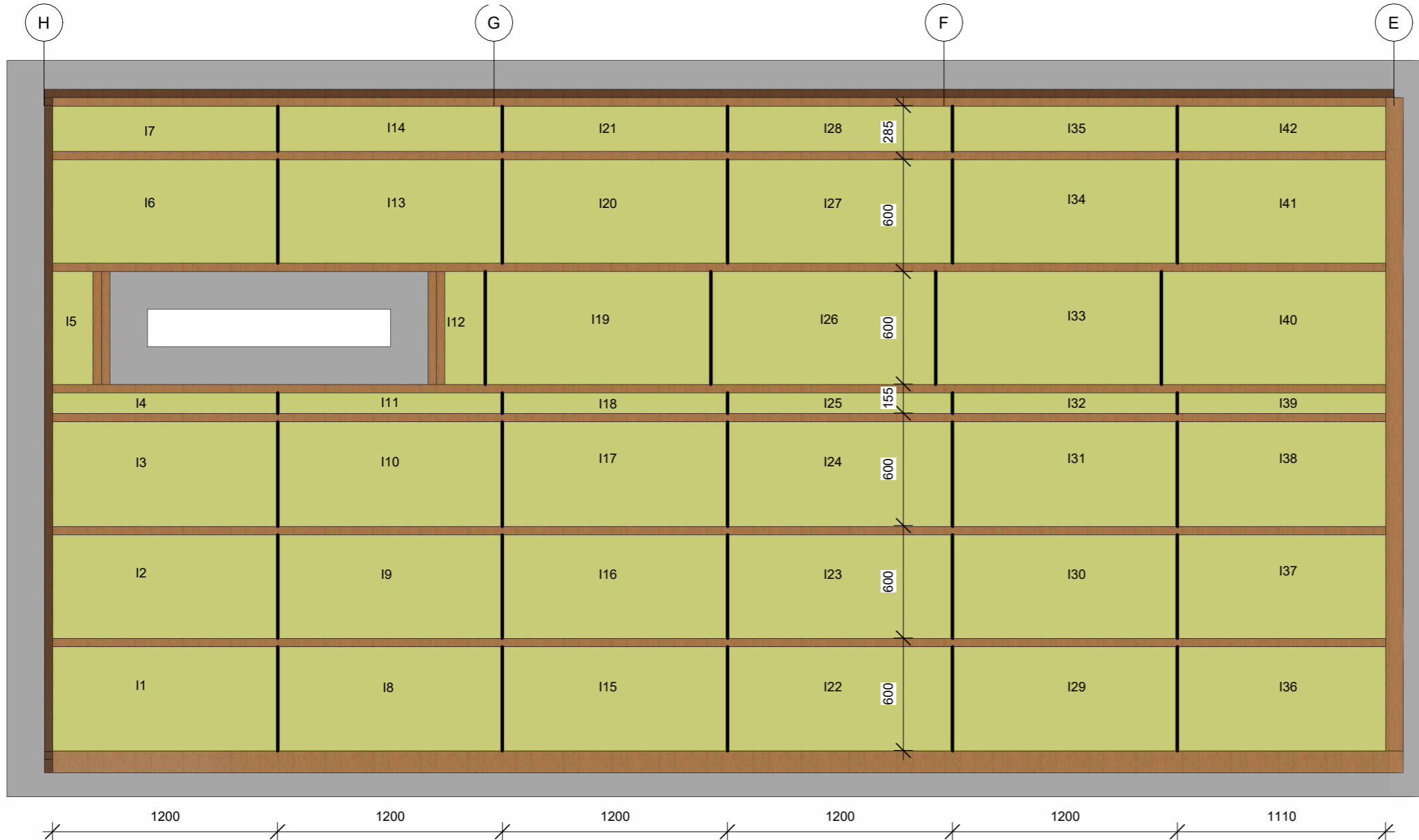
A-A



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PROJECT: Multi-Purpose Hall	DATE: 05-12-23	<b>11</b>
SUBJECT: Mineral Wool Insulation Batts - Step 4	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# NON LOAD-BEARING FRAME INSULATION - STEP 4.1



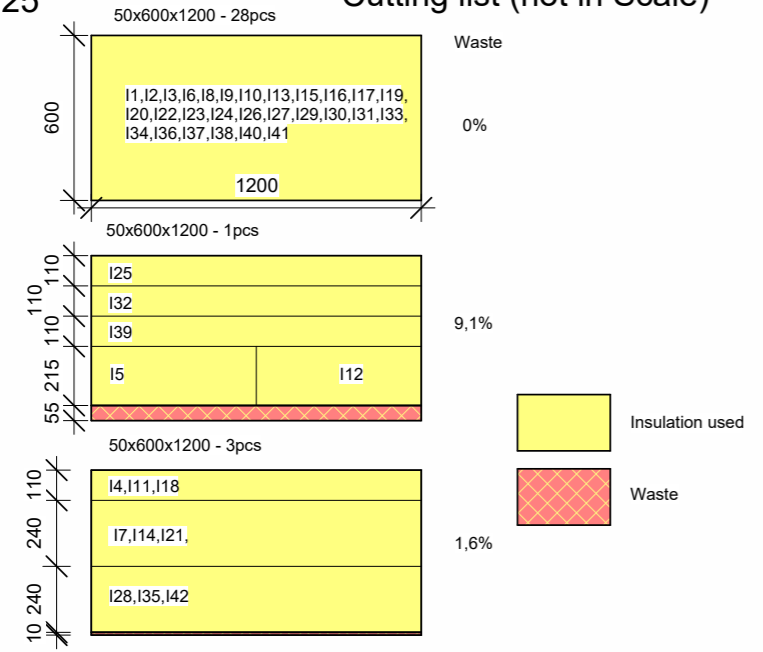
## Information

Manufacturer: Rockwool  
 Material: Stone wool insulation  
 Dimensions: 50x600x1200 mm  
 Thermal conductivity: 0.034 W/mK  
 Fire classification: A1



## Inside 1 1 : 25

### Cutting list (not in Scale)



The non load-bearing wooden frame is filled with the layer of mineral wool and the batts that are closer to each other, they need to be cut in order to fit using a serrated knife are cut according to the cutting list.



QUALITY CONTROL	
Insulation Assembly	
Correct thickness used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct dimensions	<input type="checkbox"/>
All cavities properly filled	<input type="checkbox"/>
Name:	
Date:	Signature:

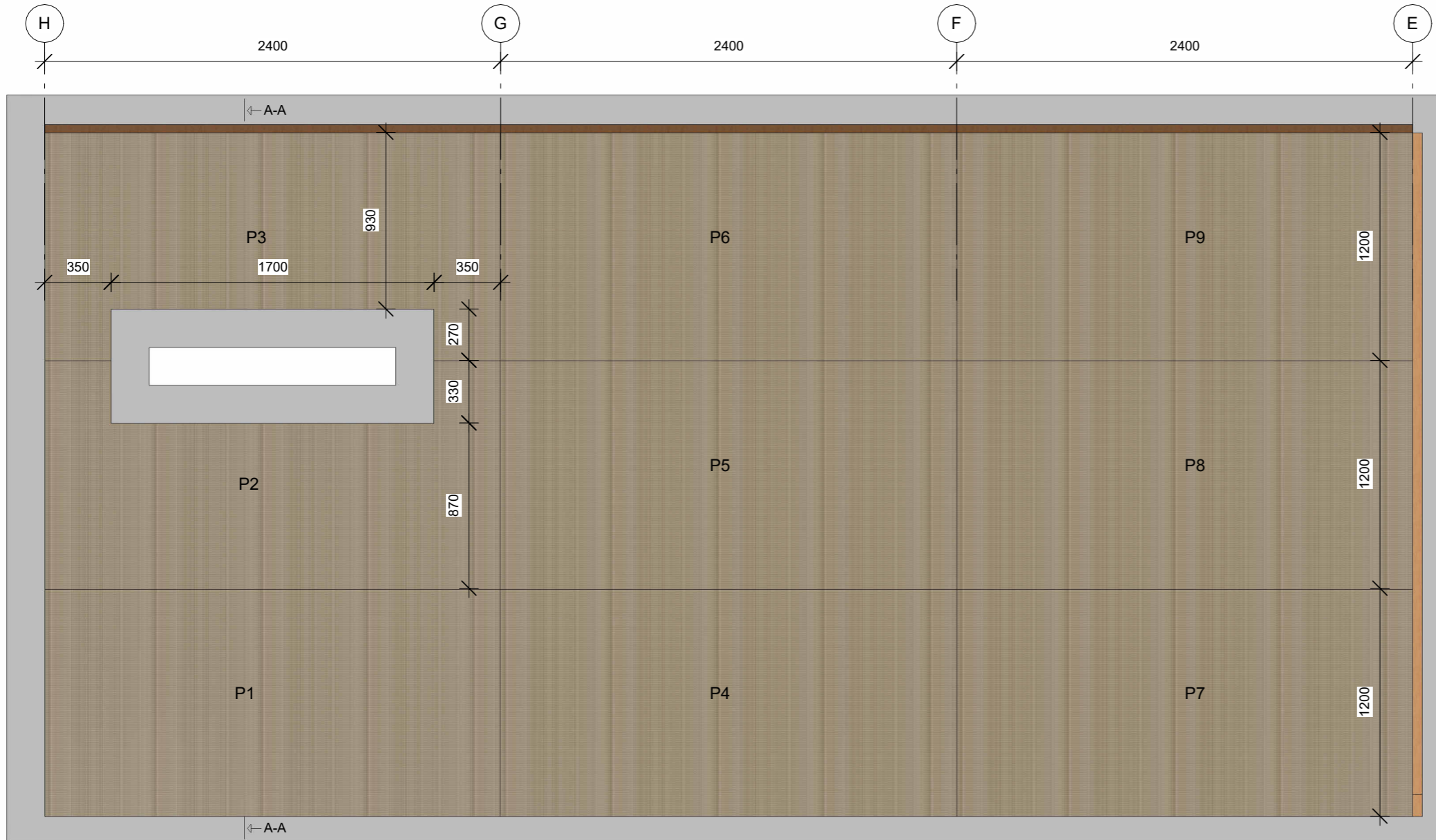


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Campus Horsens

PROJECT: Multi-Purpose Hall	DATE: 21-05-23	<b>12</b>
SUBJECT: Mineral Wool Insulation Batts - Step 4.1	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

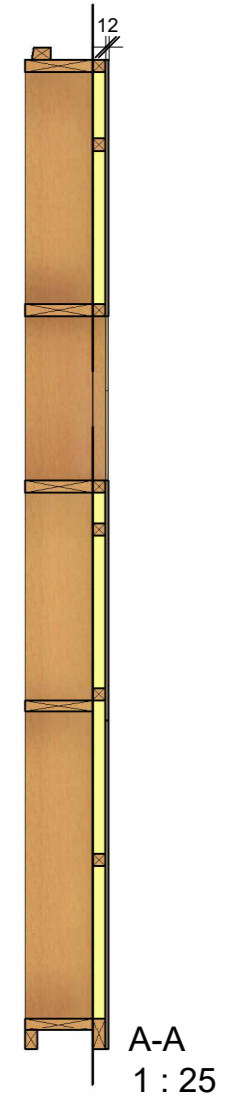
# OSB Boards - STEP 5



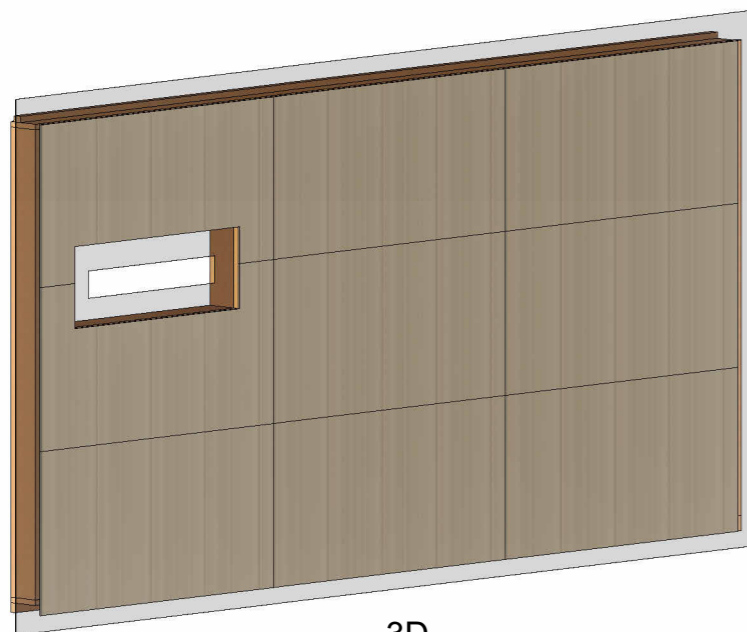
## WALL SPECIFICATION

### Prefabricated Timber Wall

1. Vertical Wood Cladding - 21 x 70 mm
2. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
3. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
4. Windbarrier - 9mm
5. Load-Bearing Frame Timber Studs - 45 x 245 mm
6. Mineral Wool Insulation Batts - 245 mm (2x125 mm)
7. DPM - 2 mm
8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
9. Mineral Wool Insulation Batts - 45 mm
10. **OSB Boards - 12 mm**



Inside  
1 : 25



3D

### Mounting Sequence

- |       |       |
|-------|-------|
| 1. P1 | 6. P8 |
| 2. P4 | 7. P3 |
| 3. P7 | 8. P6 |
| 4. P2 | 9. P9 |
| 5. P5 |       |

OSB Board - 12mm			
Width	Length	Mark	Count
1200	2400	P1,P4,P5,P6,P7,P8,P9	7
1200	2400	P2	1
1200	2400	P3	1
TOTAL			9

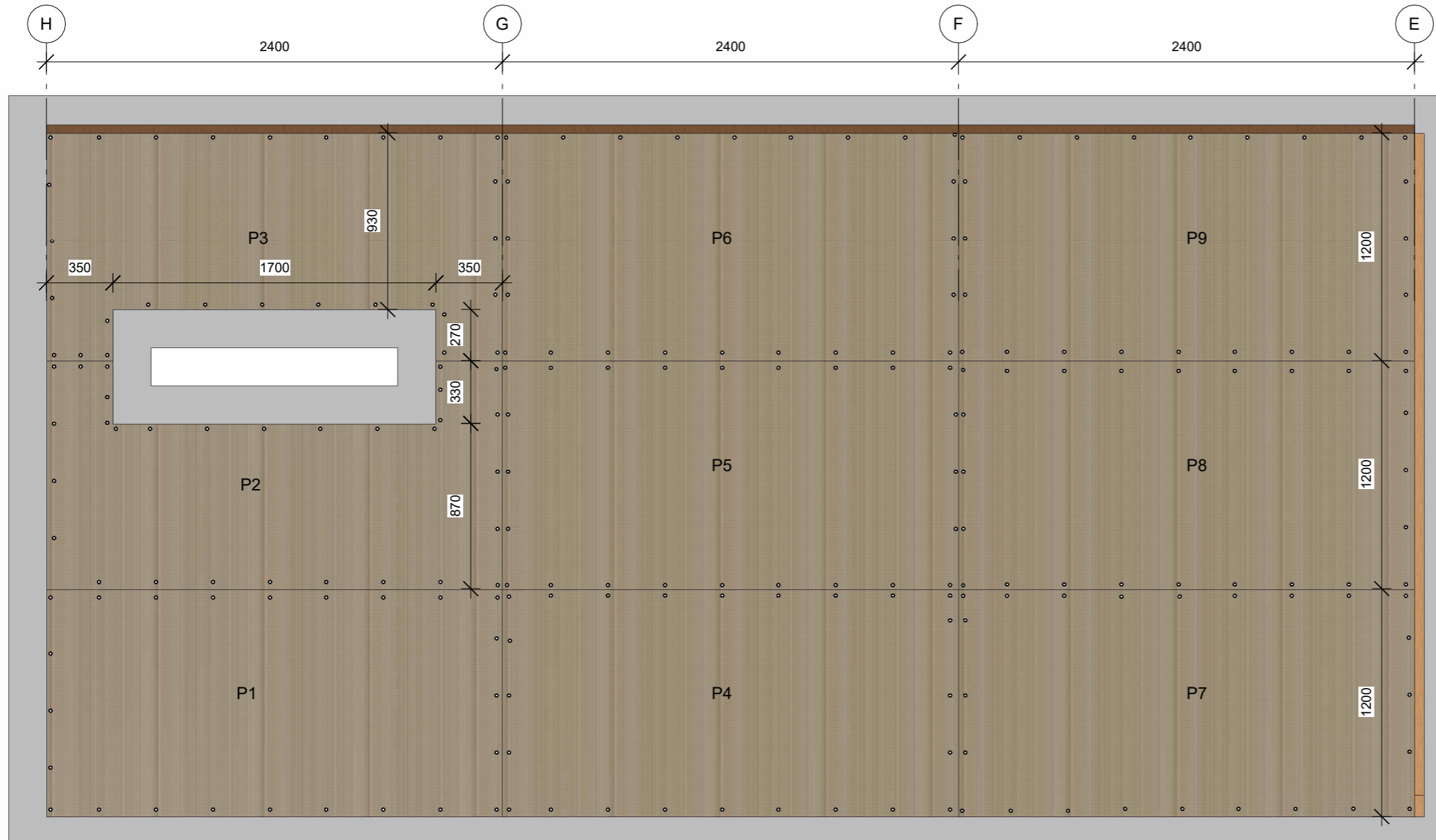


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PROJECT: Multi-Purpose Hall	DATE: 20-05-2023	<b>13</b>
SUBJECT: OSB Boards- Step 5	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# OSB Boards - STEP 5.1



Manufacturer: NFI  
 Type: TG2 & SQ  
 Bend-tensile strength: 20/10 MPa  
 Service Class: 1, 2  
 Fire class: D-s2,do

Board Dimintions.  
 12x1200x2400

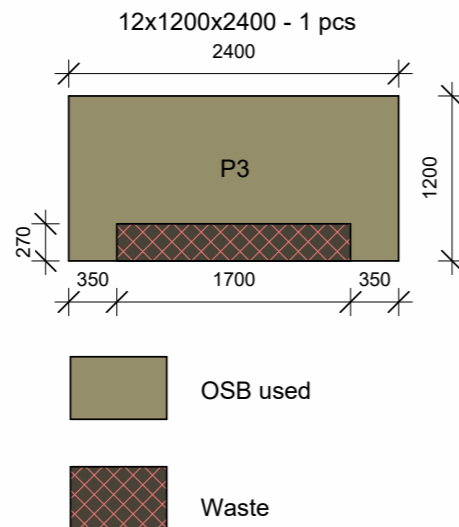
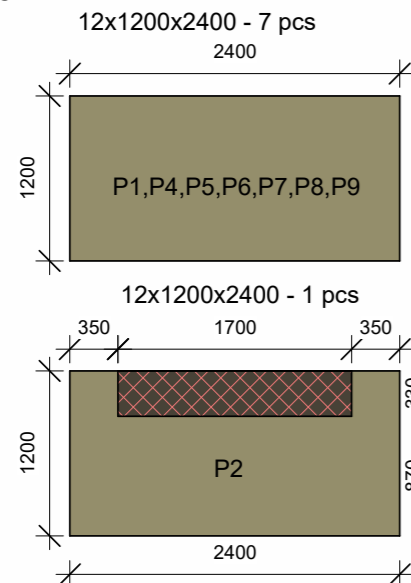


Nails  
 Annular ring shank nails 45mm

○ - illustrated in the view approx. 300 mm C/C



## Inside 1 Cutting List (not in Scale) 1 : 25



Gun Nail

**FIXING**  
 The OSB Boards are fixed in every stud to the Non Load-Bearing Wall with Anular ring shank nails.

The distance between each screw on none load bearing studs is 450mm



Electric Circular Saw



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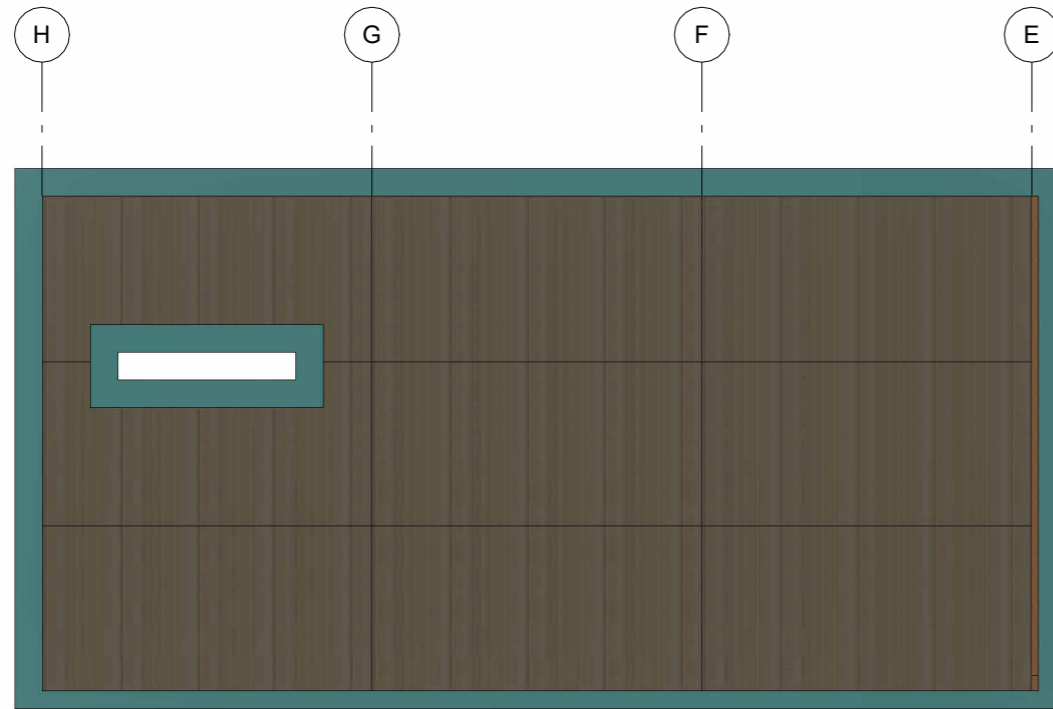
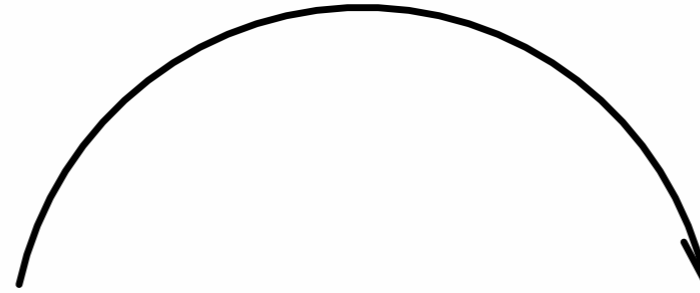
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 Campus Horsens

PROJECT: Multi-Purpose Hall	DATE: 17-05-2023	<b>14</b>
SUBJECT: OSB Boards - Step 5.1	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

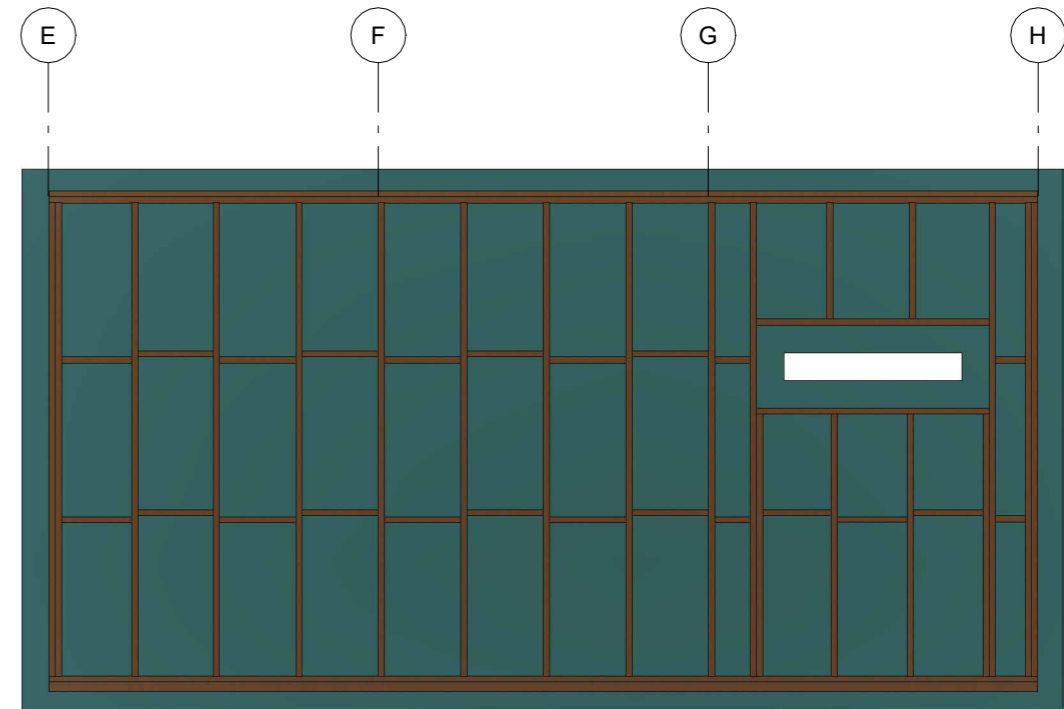
QUALITY CONTROL	
OSB Boards Assembly	
Correct boards used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct dimensions	<input type="checkbox"/>
No damages to boards	<input type="checkbox"/>
Name:	
Date:	Signature:

# ROTATION OF THE ELEMENT

180°



Inside



Outside



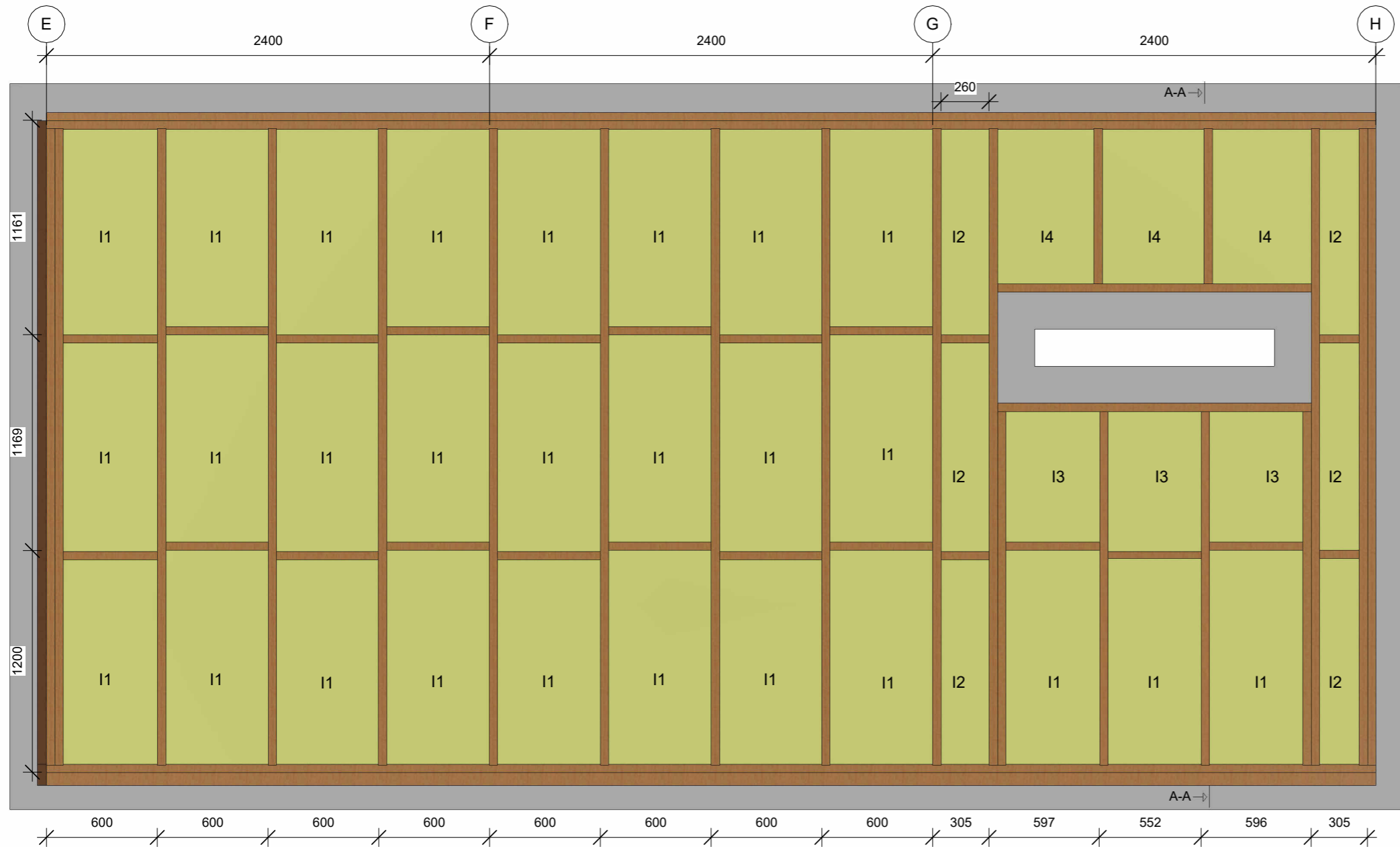
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PROJECT: Multi-Purpose Hall	DATE: 05-14-23	<b>15</b>
SUBJECT: Flip Wall Element	SCALE: 1 : 50	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	



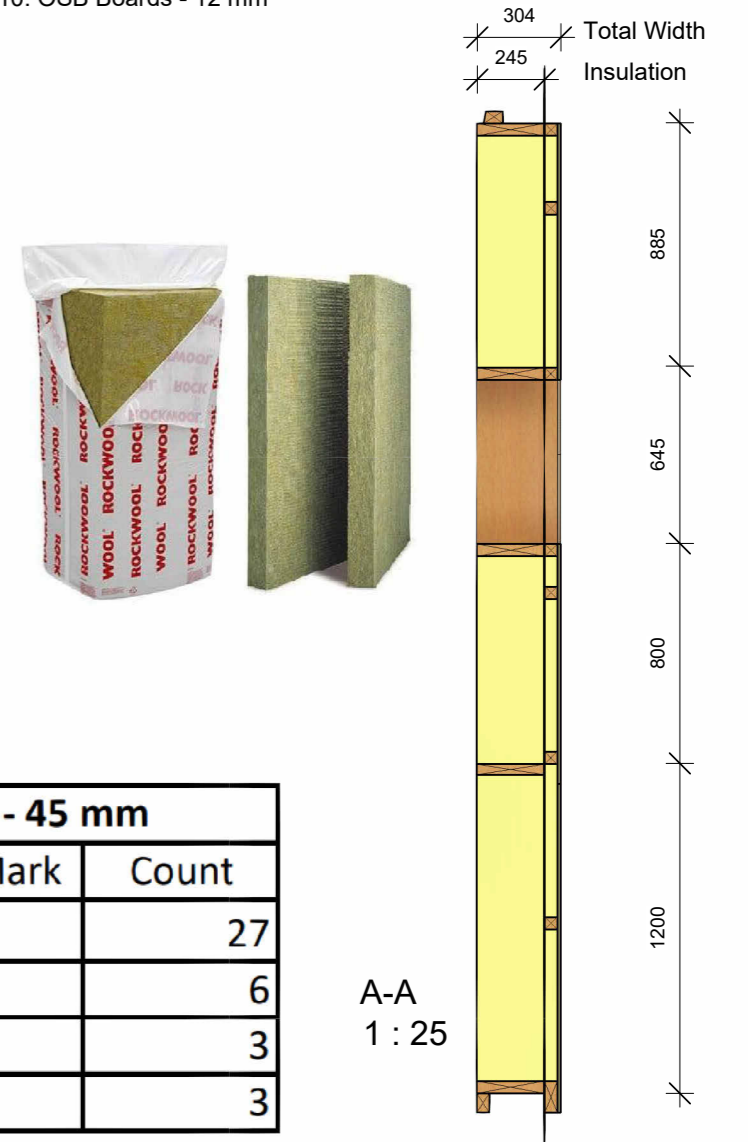
# LOAD-BEARING FRAME INSULATION - STEP 6



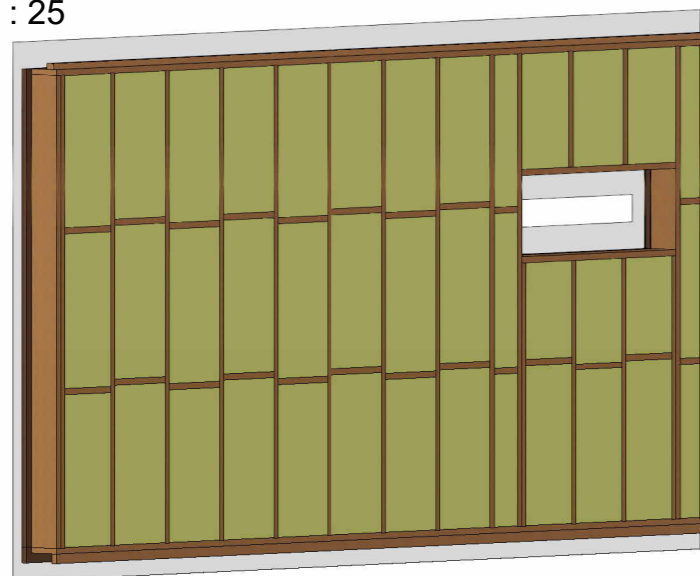
## WALL SPECIFICATION

### Prefabricated Timber Wall

1. Vertical Wood Cladding - 21 x 70 mm
2. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
3. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
4. Windbarrier - 9mm
5. Load-Bearing Frame Timber Studs - 45 x 245 mm
6. **Mineral Wool Insulation Batts - 245 mm (2x125 mm)**
7. DPM - 2 mm
8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
9. Mineral Wool Insulation Batts - 45 mm
10. OSB Boards - 12 mm



Outside  
1 : 25



3D

### Mounting Sequence

1. I1
2. I2
3. I3
4. I4



Mineral WOOL Bats - 45 mm			
Length	Width	Mark	Count
1200	600	I1	27
1200	305	I2	6
800	600	I3	3
900	600	I4	3

A-A  
1 : 25

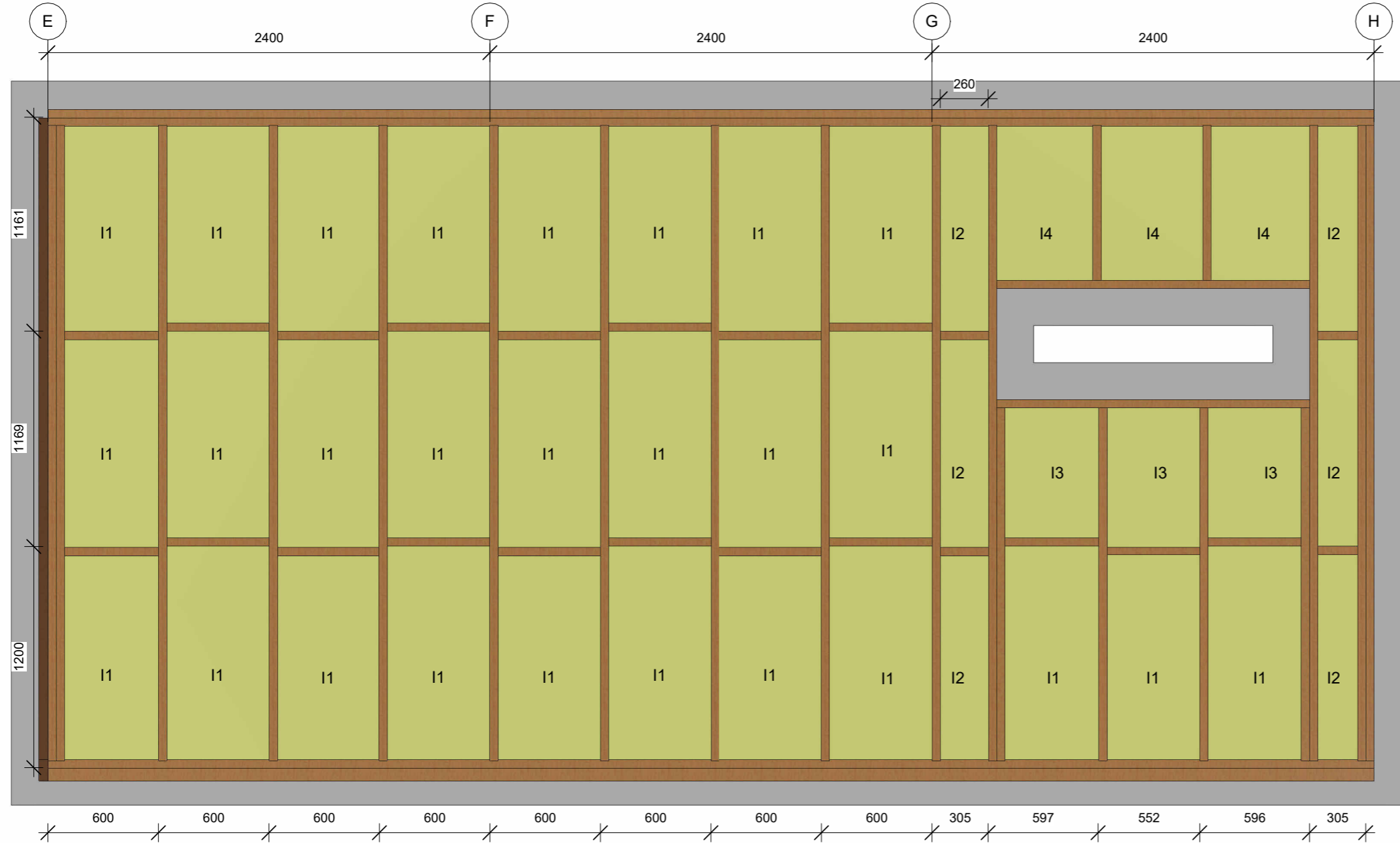


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PROJECT: Multi-Purpose Hall	DATE: 21-05-2023	<b>16</b>
SUBJECT: Mineral Wool Insulation Batts - Step 6	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# LOAD-BEARING FRAME INSULATION - STEP 6.1



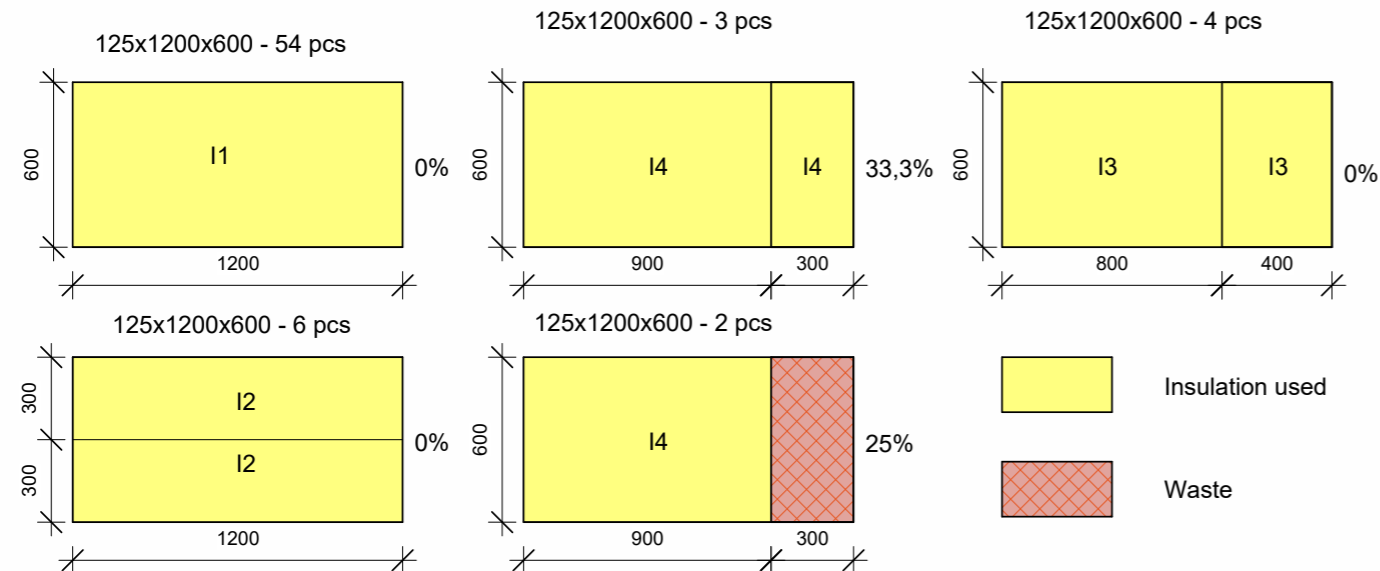
## Information

Manufacturer: Rockwool  
 Material: Stone wool insulation  
 Dimensions: 125x600x1200 mm  
 Thermal conductivity: 0.034 W/mK  
 Fire classification: A1



Outside 1  
 1 : 25

### Cutting List (not in Scale)



### Assembly

In this step we are going to use 2 layers of 125 (thickness) Rockwool. In order to fill the gap of 245mm, the insulation should be cut regarding the cutting list provided. In some occasions where the insulation will be cut we going to use a serrated knife.

### QUALITY CONTROL

- Insulation Assembly
- Correct thickness used
  - Properly fixed
  - Correct dimensions
  - All cavities properly filled

Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Signature: \_\_\_\_\_

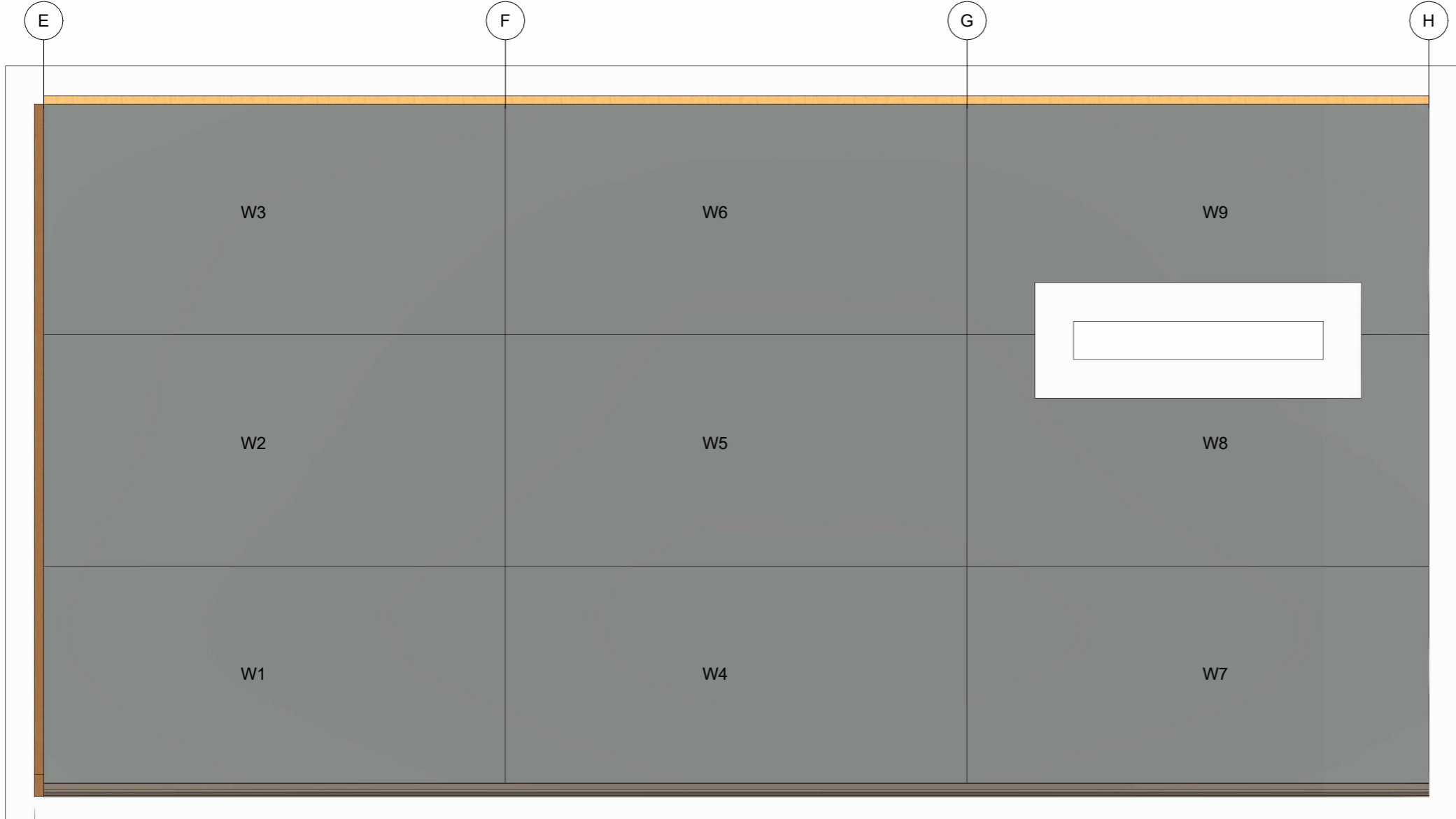


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PROJECT: Multi-Purpose Hall	DATE: 17-05-2023	<b>17</b>
SUBJECT: Mineral Wool Insulation Bats - Step 6.1	SCALE: As indicated	
DRAWN BY: Cebotaru Dimitrian	CLASS: AH31-23F	

# WINDBREAKER LAYER - STEP 7

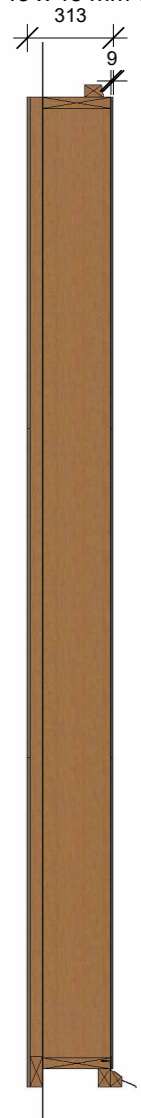


## WALL SPECIFICATION

- Prefabricated Timber Wall
1. Vertical Wood Cladding - 21 x 70 mm
  2. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
  3. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
  4. **Windbarrier - 9mm**
  5. Load-Bearing Frame Timber Studs - 45 x 245 mm
  6. Mineral Wool Insulation Batts - 245 mm (2x125 mm)
  7. DPM - 2 mm
  8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
  9. Mineral Wool Insulation Batts - 45 mm
  10. OSB Boards- 12 mm

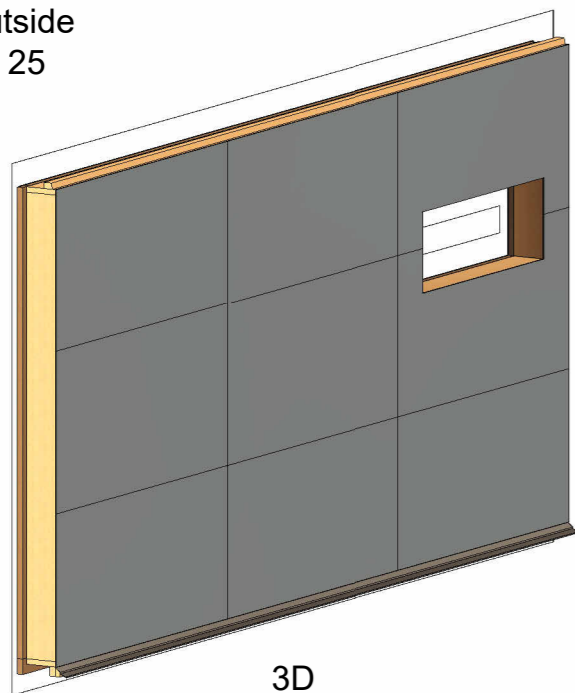
## Mounting Sequence

- |       |       |
|-------|-------|
| 1. W1 | 6. W6 |
| 2. W2 | 7. W7 |
| 3. W3 | 8. W8 |
| 4. W4 | 9. W9 |
| 5. W5 |       |



Left  
1 : 25

Outside  
1 : 25



3D

Windbarrier - 9mm			
Width	Length	Mark	Count
1200	2400	W2,W3,W5,W6	4
1200	2400	W8	1
1200	2400	W9	1
1130	2400	W1,W4,W7	3
TOTAL			9

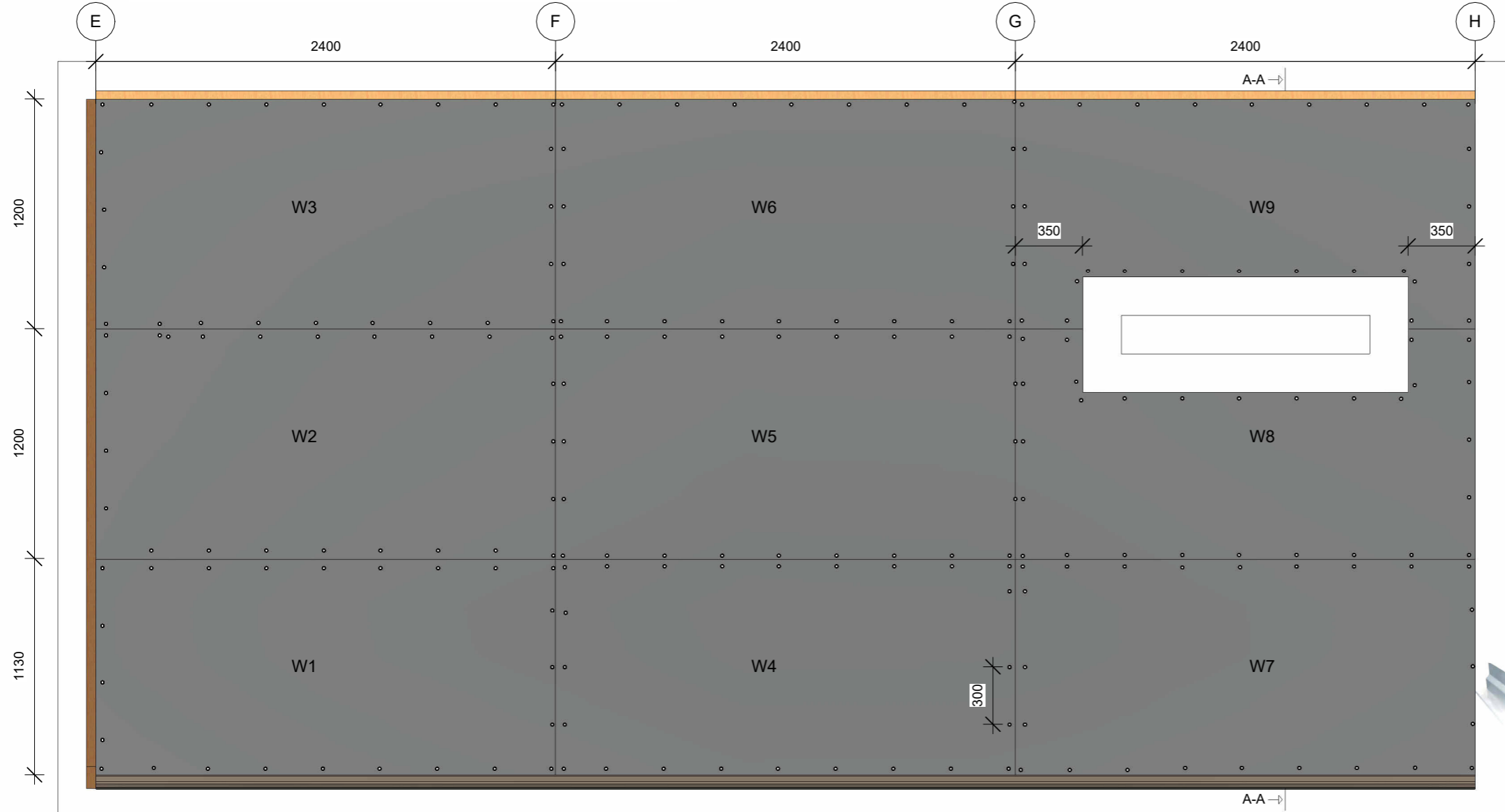


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PROJECT: Multi-Purpose Hall	DATE: 21-05-2023	<b>18</b>
SUBJECT: Windbarrier - Step 7	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

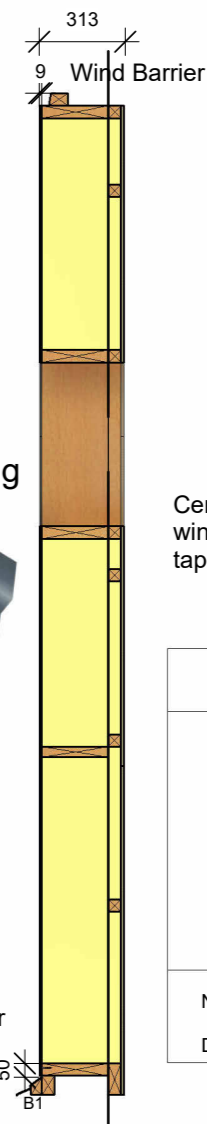
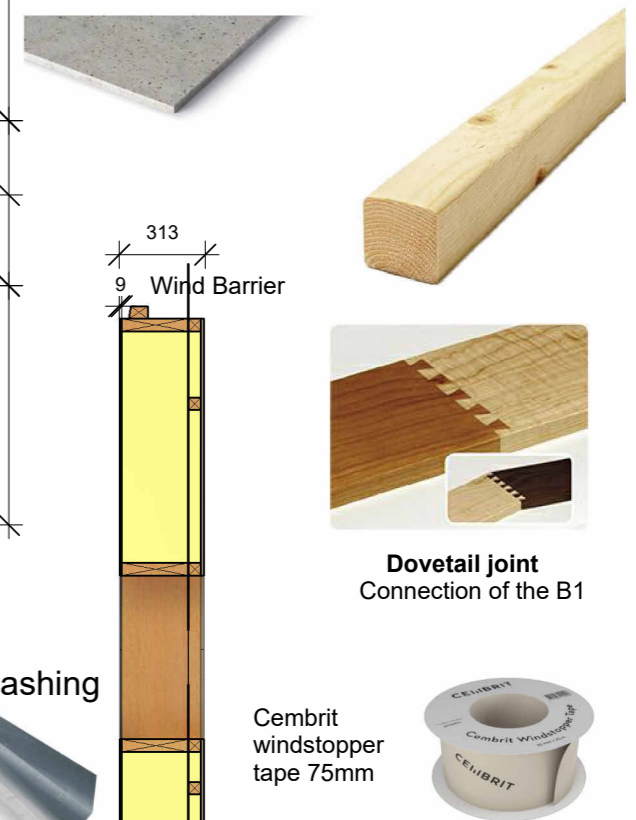
# WINDBREAKER LAYER - STEP 7.1



## Information

Material: Fiber cement  
 Colour: Natural  
 Length: 2400 mm  
 Width: 1200 mm  
 Thickness: 9 mm  
 Fire class: A2,s1-d01

Width: 45 mm  
 Height: 70 mm  
 Length: 3600 - 4800 mm  
 Planer: Yes  
 Rounded corners: Yes  
 Strength classification: C14  
 Manufacturer Sodra

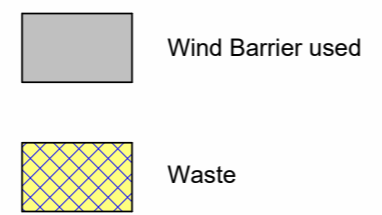
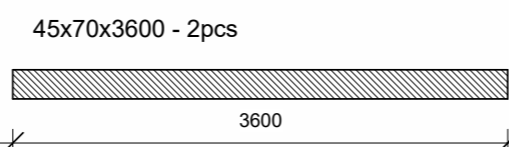
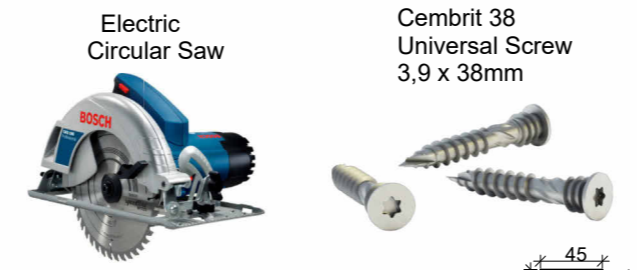
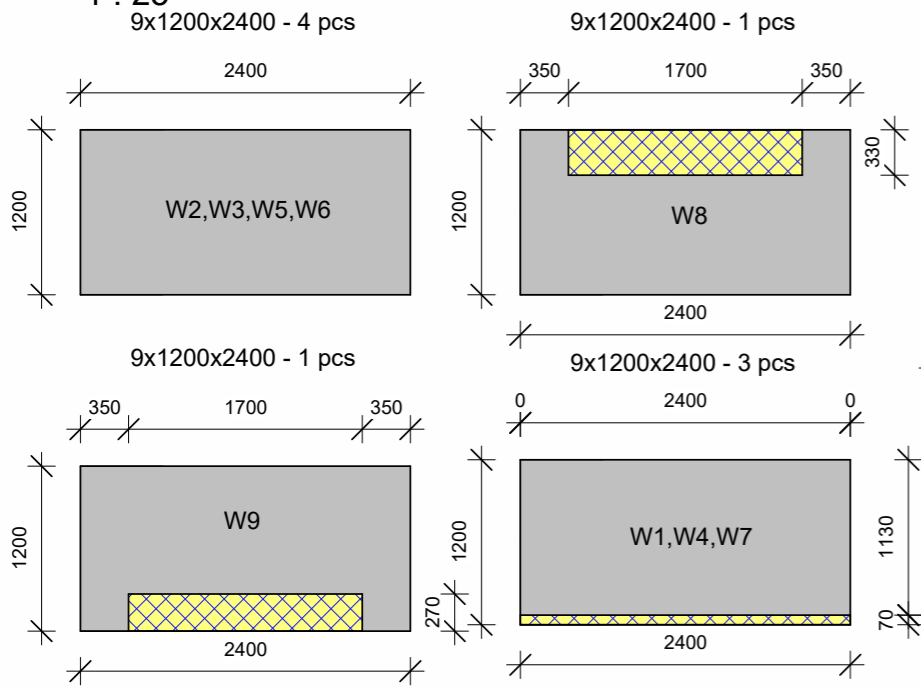


**Dovetail joint**  
 Connection of the B1

Cembrit windstopper tape 75mm

## Outside 1 Cutting List (not in Scale)

1 : 25



The boards should be cut according to the cutting list with a electric circular saw that is only designed for cutting fiber cement or with a Cembrit scratch knife where it should be done according the Mounting Sequence. Screw should be placed each 300mm c/c. All the boards joints should be taped over with Cembrit windstopper tape 75mm. The tape should be placed so that there is an overlap at corners where they meet.

The flashing would be place 50 mm under the windbarrier an it should be fixed each 600mm.

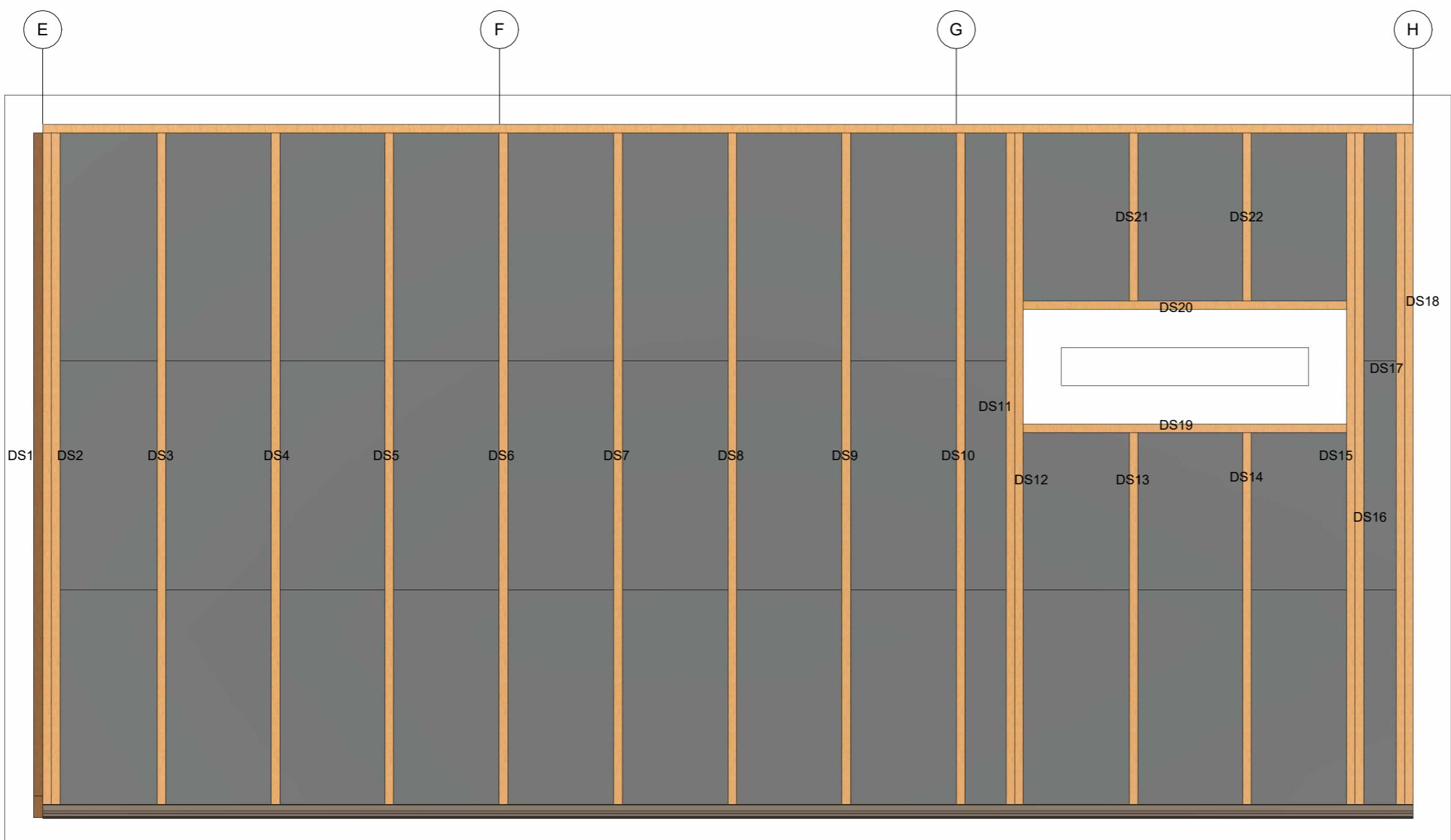
QUALITY CONTROL	
Cembrit Windboards Assembly	
Correct studs used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct dimensions	<input type="checkbox"/>
No damages on boards	<input type="checkbox"/>
Name:	
Date:	Signature:

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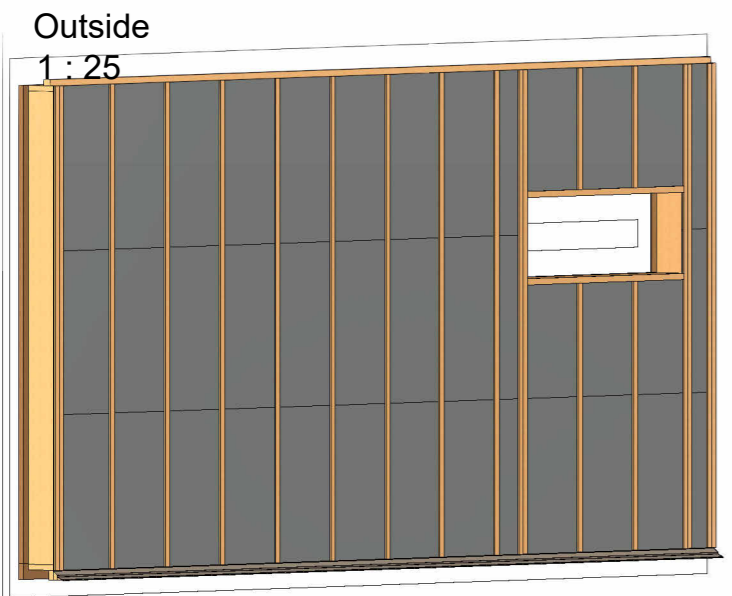
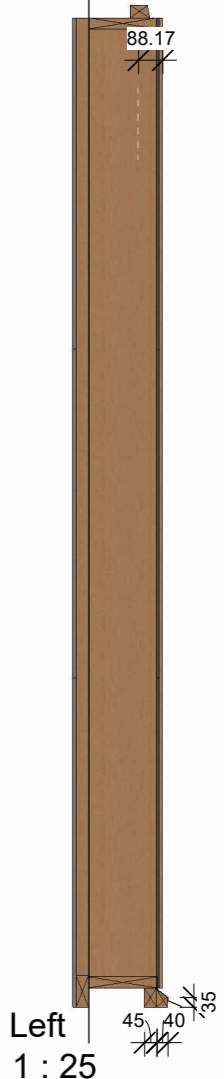
A-A  
 1 : 25  
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 Campus Horsens

PROJECT: Multi-Purpose Hall	DATE: 21-05-2023	<b>19</b>
SUBJECT: Windbarrier - Step 7.1	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# VERTICAL DISTANCE STRIPS - STEP 8



- Prefabricated Timber Wall**
1. Vertical Wood Cladding - 21 x 70 mm
  2. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
  3. **Distance Strips - 12 x 45 mm Vertical c/c 600 mm**
  4. Windbarrier - 9mm
  5. Load-Bearing Frame Timber Studs - 45 x 245 mm
  6. Mineral Wool Insulation Batts - 245 mm (2x125 mm)
  7. DPM - 2 mm
  8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
  9. Mineral Wool Insulation Batts - 45 mm
  10. Plywood - 12 mm



Outside  
1 : 25

### Mounting Sequence

- |        |          |          |
|--------|----------|----------|
| 1. DS1 | 9. DS9   | 17. DS22 |
| 2. DS2 | 10. DS10 | 18. DS20 |
| 3. DS3 | 11. DS11 | 19. DS15 |
| 4. DS4 | 12. DS12 | 20. DS16 |
| 5. DS5 | 13. DS13 | 21. DS17 |
| 6. DS6 | 14. DS14 | 22. DS18 |
| 7. DS7 | 15. DS19 |          |
| 8. DS8 | 16. DS21 |          |

Distance Strips			
Dimensions	Length	Mark	Count
12x45 mm timber	3530	DS1,DS2,DS3,DS4,DS5,DS6,DS7,DS8,DS9,DS10,DS11,DS12,DS15,DS16,DS17,DS18	16
12x45 mm timber	1955	DS13,DS14	2
12x45 mm timber	885	DS21,DS22	2
12x45 mm timber	1700	DS19,DS20	2
TOTAL			22

Left  
1 : 25



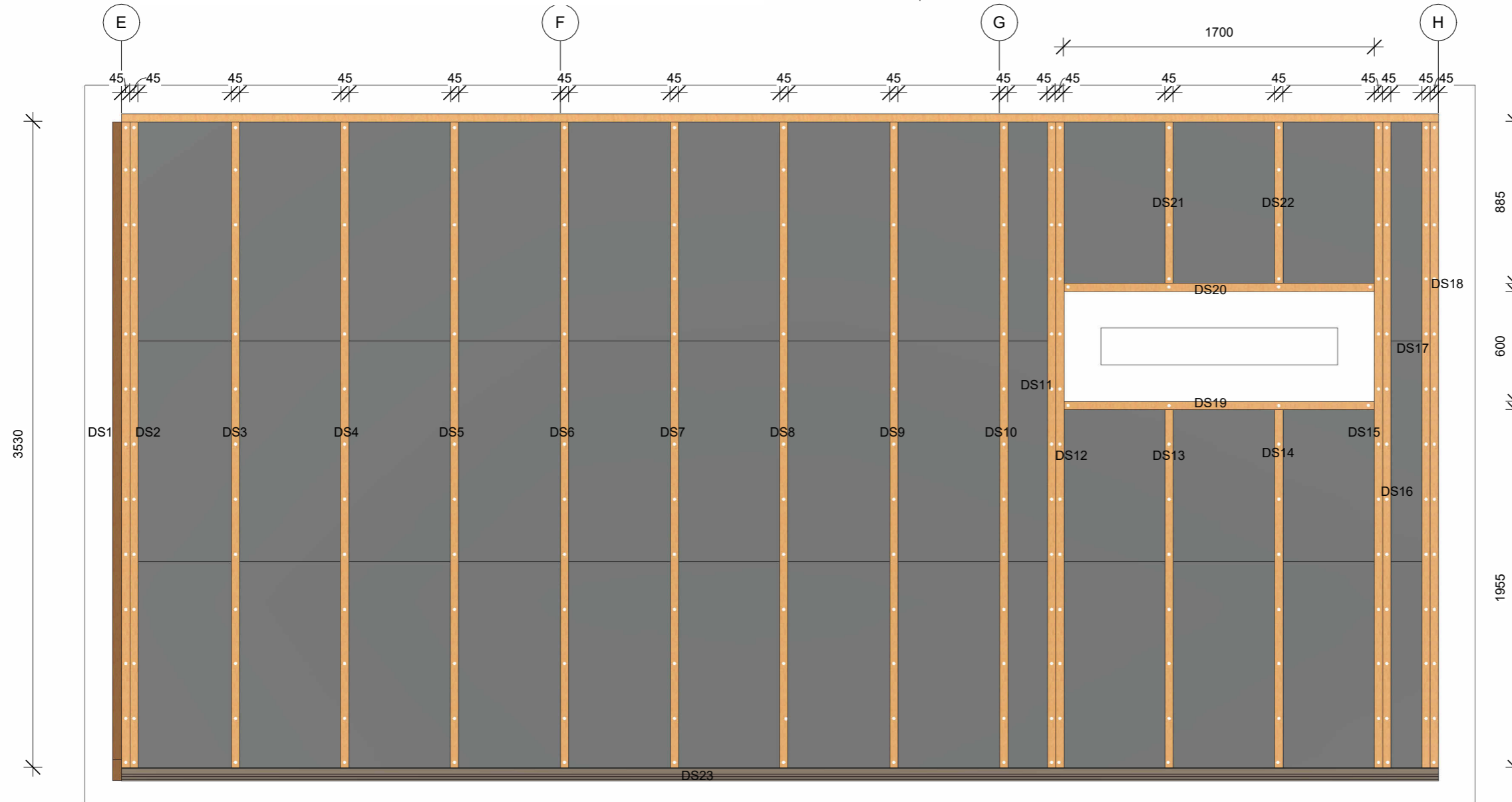
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PROJECT: Multi-Purpose Hall	DATE: 14-05-2023	<b>20</b>
SUBJECT: Vertical Distance Strips - Step 8	SCALE: As indicated	
DRAWN BY: Cebotaru Dimitrian	CLASS: AH31-23F	

3D

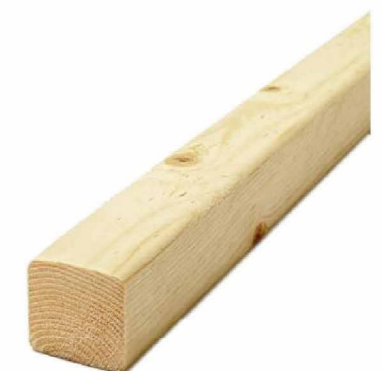
# VERTICAL DISTANCE STRIPS - STEP 8.1



**Information**

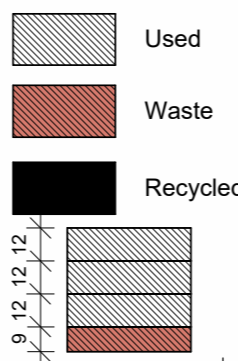
Width: 45 mm  
 Height: 45 mm  
 Length: 3600 - 4800 mm  
 Planer: Yes  
 Rounded corners: Yes  
 Strength classification: C14

Width: 45 mm  
 Height: 70 mm  
 Length: 3600 - 4800 mm  
 Planer: Yes  
 Rounded corners: Yes  
 Strength classification: C14



**Cutting List**

Material	Quantity	Waste
45x45x3600	5pcs	22%
45x45x3600	1pcs	20%
12x45x3600	2pcs	4,3%
45x45x3600	1pcs	22%



**Screws**

NKT FASTENERS Basic Screw Outdoor Ruspert 1000 TX20  
 Length: 50 mm, Diameter: 5 mm, (5x50mm)  
 Use class: 3

○ - illustrated in the view approx. 30(mm) C/C

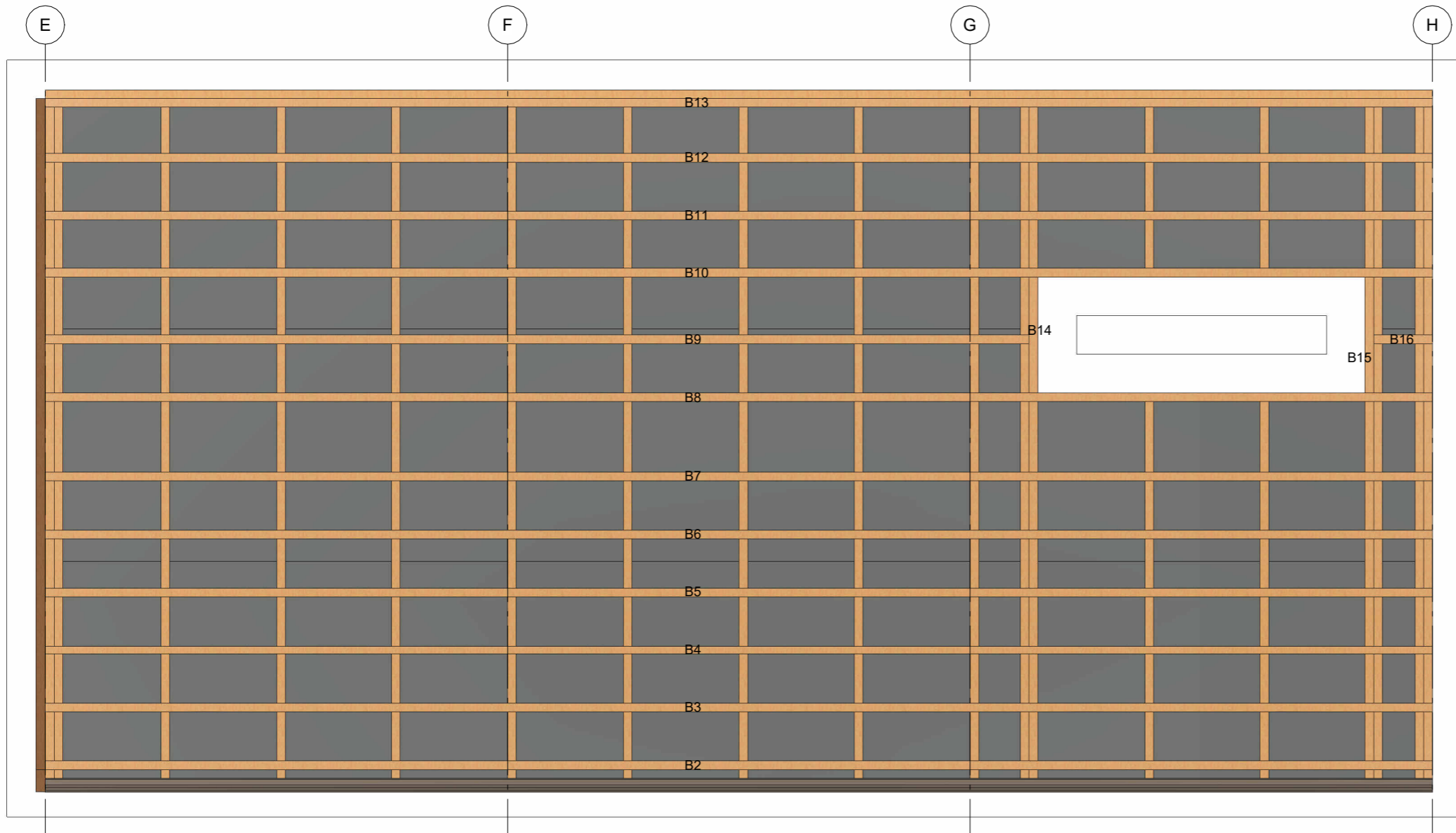
QUALITY CONTROL	
Distance Strip Assembly	
Correct studs used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct dimensions	<input type="checkbox"/>
No damages on wood	<input type="checkbox"/>
Name:	
Date:	Signature:

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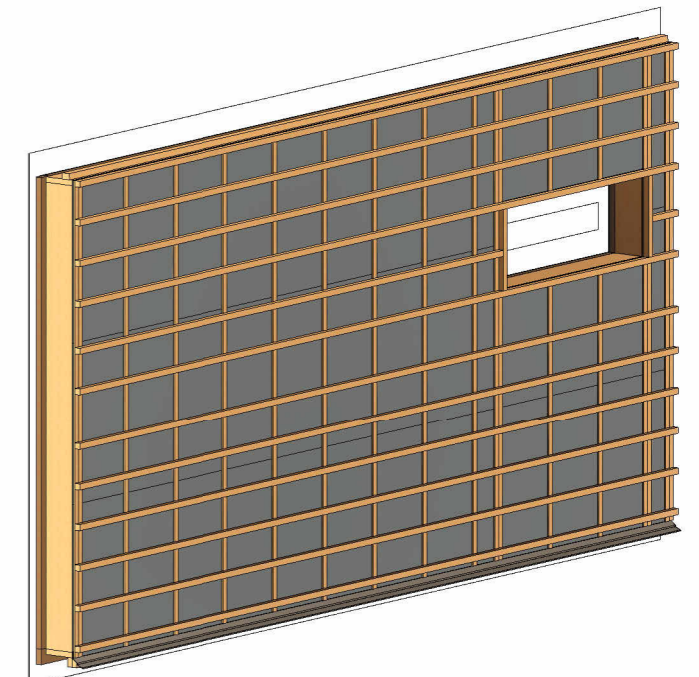
PROJECT: Multi-Purpose Hall	DATE: 17-05-2023	21
SUBJECT: Vertical Distance Strips - Step 8.1	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# COUNTER BATTENS - STEP 9



## Wall Specification

- Prefabricated Timber Wall**
1. Vertical Wood Cladding - 21 x 70 mm
  2. **Counter Batten - 45 x 45 mm Horizontal c/c 300 mm**
  3. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
  4. Windbarrier - 9mm
  5. Load-Bearing Frame Timber Studs - 45 x 245 mm
  6. Mineral Wool Insulation Batts - 245 mm (2x125 mm)
  7. DPM - 2 mm
  8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
  9. Mineral Wool Insulation Batts - 45 mm
  10. Plywood - 12 mm



Outside  
1 : 25

## Mounting Sequence

1. B13
2. B12
3. B11
4. B10
5. B9
6. B8
7. B14
8. B15
9. B16
10. B7
11. B6
12. B5
13. B4
14. B3
15. B2

## Specifications for regular 45x45mm C14 planed spruce

- Width: 45 mm
- Height: 45 mm
- Length: 3600 - 4800 mm
- Planed: Yes
- Rounded corners: Yes
- Strength sorting: C14

Counter Battens			
Dimensions	Length	Mark	Count
45x45 mm timber	7200	B2, B3, B4, B5 B6, B7, B8, B10 B11, B12, B13	11
45x45 mm timber	5105	B9	1
45x45 mm timber	600	B14, B15	2
45x45 mm timber	305	B16	1
		TOTAL	15

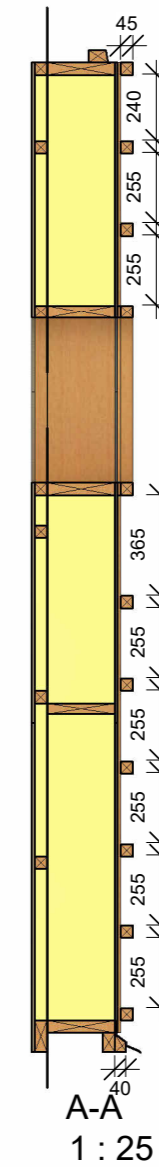
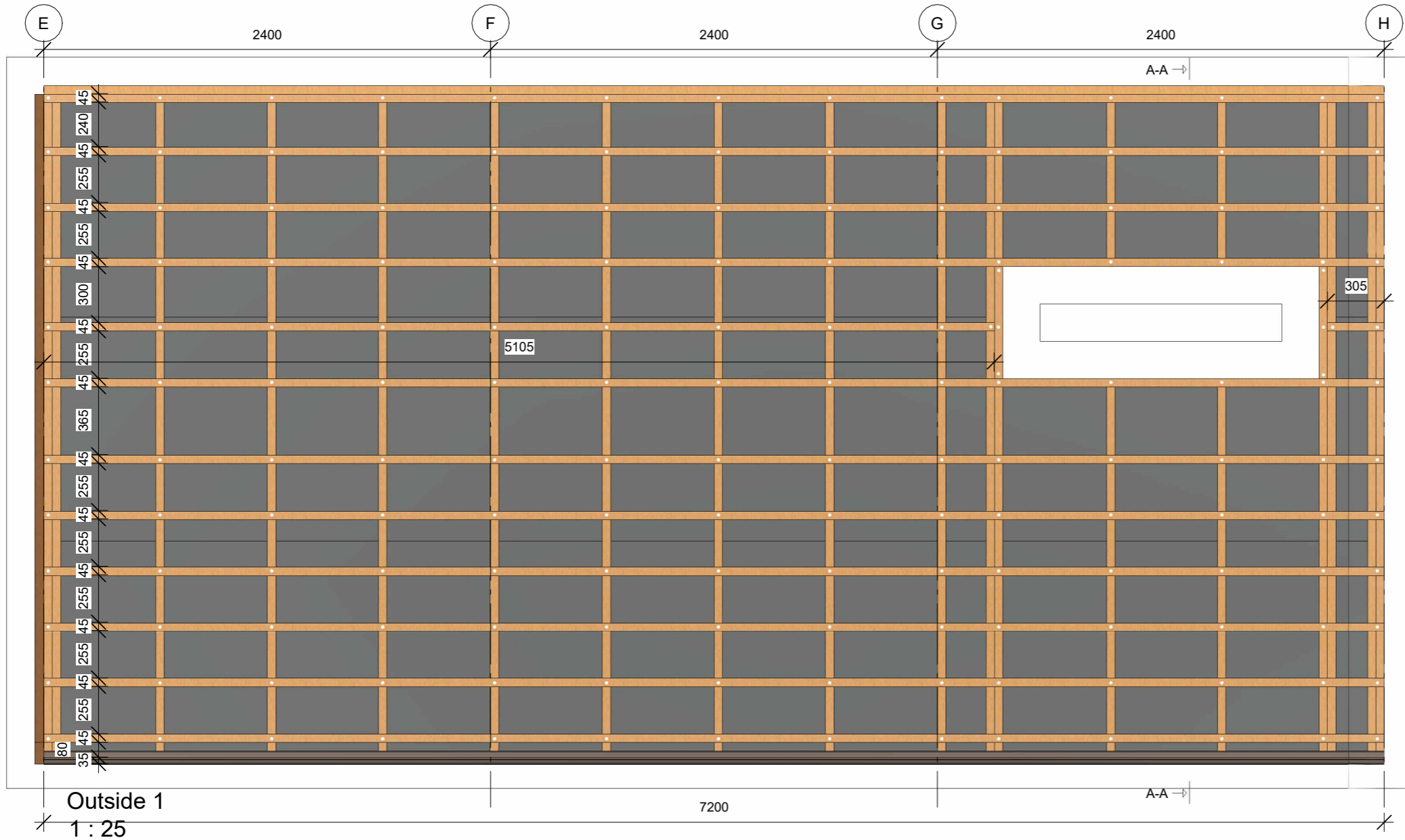


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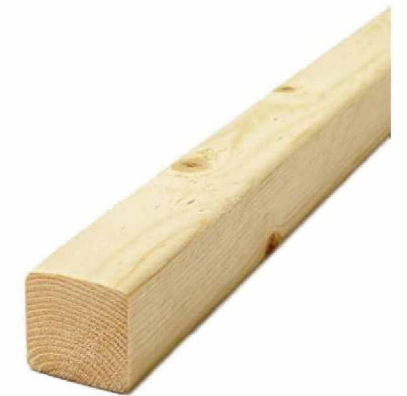
VIA Built Environment & Engineering  
Campus HORSENS

PROJECT: Multi-Purpose Hall	DATE: 15-05-2023	<b>22</b>
SUBJECT: Counter Battens - Step 9	SCALE: 1 : 25	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# COUNTER BATTENS - STEP 9.1



**Information**  
 Width: 45 mm  
 Height: 45 mm  
 Length: 3600 - 4800 mm  
 Planer: Yes  
 Rounded corners: Yes  
 Strength classification: C14



QUALITY CONTROL	
Counter Batten Assembly	
Correct studs used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct dimensions	<input type="checkbox"/>
No damages on wood	<input type="checkbox"/>
Name:	
Date:	Signature:

Outside 1  
1 : 25

## Cutting List (not in Scale)

Item	Quantity	Waste
45x45x3600 - 22pcs B2, B3, B4, B5, B6, B7, B8, B10, B11, B12, B13	22	0%
45x45x4800 - 1pc B9	1	0%
45x45x3600 - 1pc B14, B15, B16	1	0%

Used  
 Recycled  
 Waste



**Dovetail joint**  
 Connection of the B2, B3, B4, B5, B6, B7, B8, B10, B11, B12, B13

## Screws

NKT FASTENERS Basic Screw Outdoor Ruspert 1000 TX20  
 Length: 120 mm, Diameter: 5 mm, (5x120mm)  
 Use class: 3



○ - illustrated in the view approx 600mm C/C



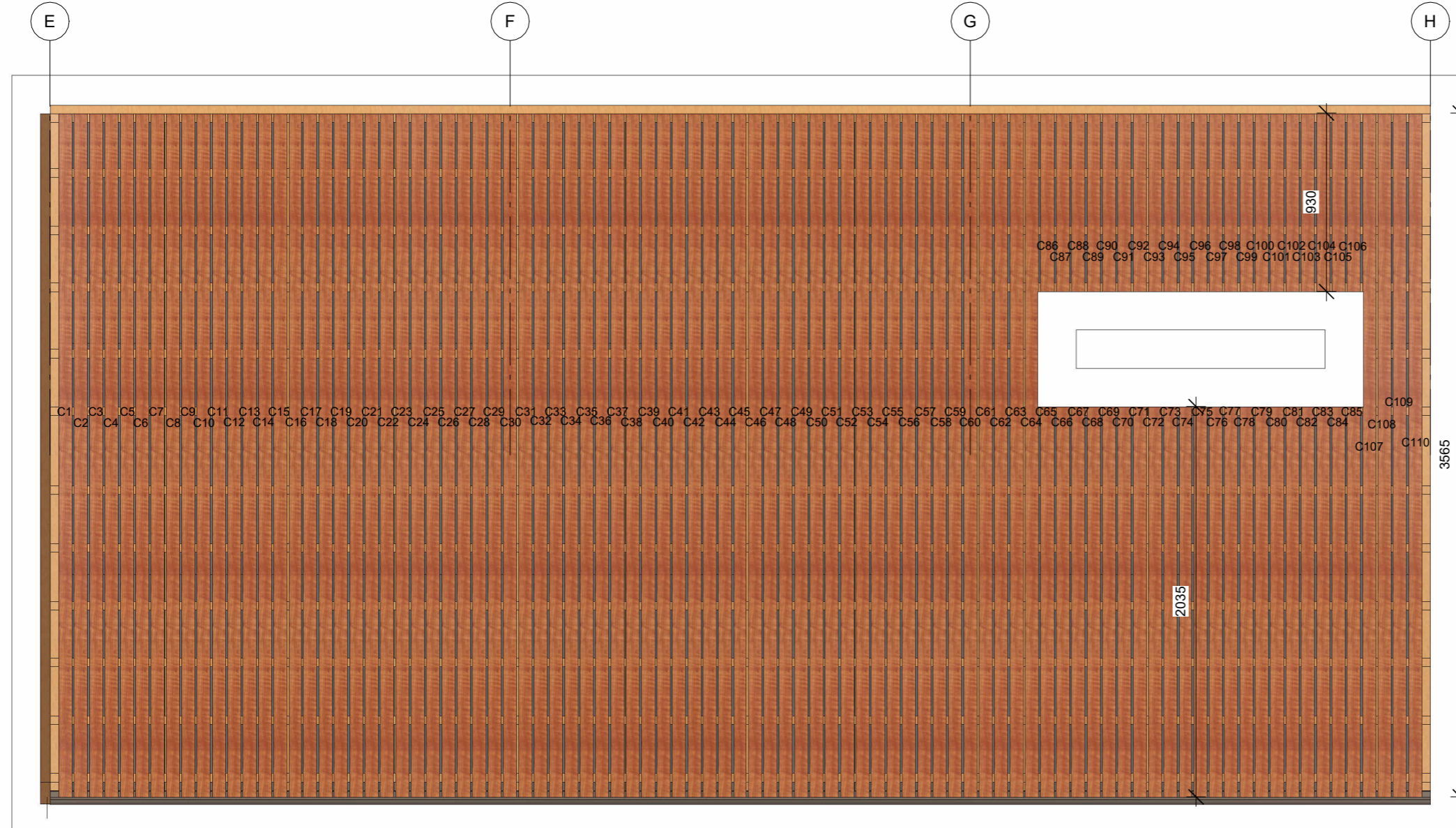
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 Campus HORSENS

PROJECT: Multi-Purpose Hall	DATE: 17-05-2023	<b>23</b>
SUBJECT: Counter battens - Step 9.1	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	



# CLADDING - STEP 10



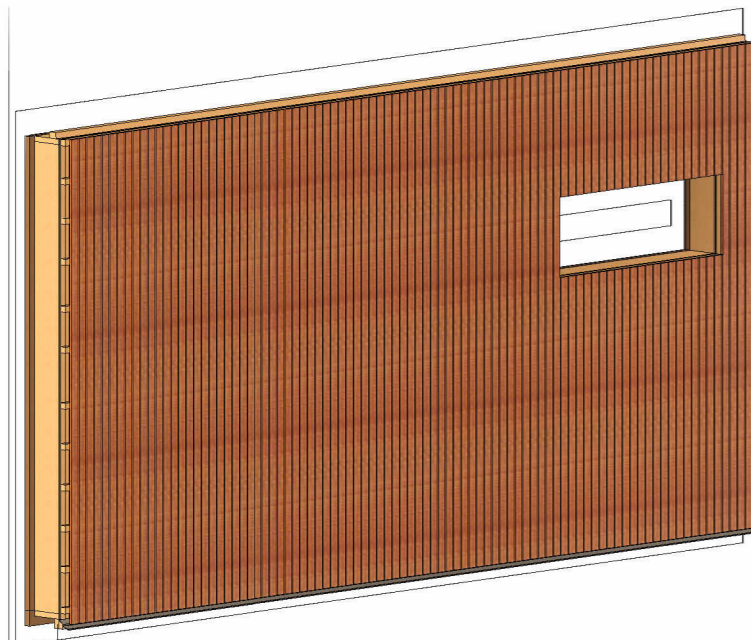
- Prefabricated Timber Wall**
1. **Vertical Wood Cladding - 21 x 70 mm**
  2. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
  3. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
  4. Windbarrier - 9mm
  5. Load-Bearing Frame Timber Studs - 45 x 245 mm
  6. Mineral Wool Insulation Batts - 245 mm (2x145 mm)
  7. DPM - 2 mm
  8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
  9. Mineral Wool Insulation Batts - 45 mm
  10. Plywood - 12 mm

## Mounting Sequence

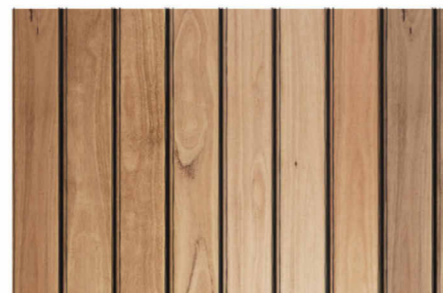
1. C1
2. C2
3. C3
4. C4
5. C5
- .....
108. C108
109. C109
110. C110



Exterior  
1 : 25



3D



Cladding - 21x70mm			
Dimensions	Length	Mark	Count
21x70 mm timber	3565	C1,C2,C3..., C63,C64,C107, C108,C109,C110	68
21x70 mm timber	2035	C65,C66,...,C84, C85	18
21x70 mm timber	930	C86,C87,...,C105,C106	24
TOTAL			110

Left  
1 : 25



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PROJECT: Multi-Purpose Hall	DATE: 21-05-2023	<b>24</b>
SUBJECT: Cladding - Step 10	SCALE: 1 : 25	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# CLADDING - STEP 10.1

## Information

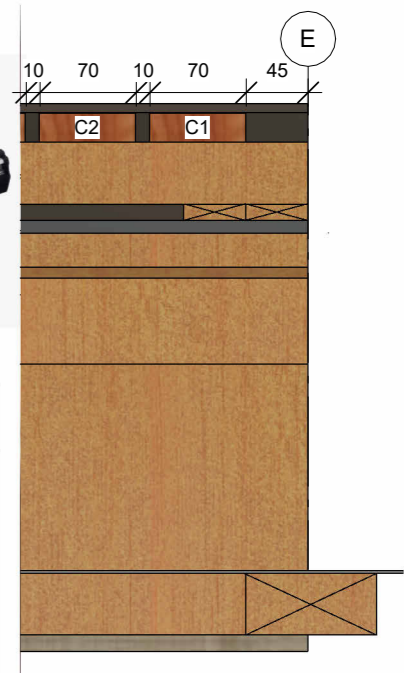
Thickness: 21 mm  
 Width: 70 mm  
 Height: 2700,3600,4800 mm  
 Material: Pine  
 Manufacturer:



Vertical cladding is fixed to the counter battens with nails by a nail gun. There should be a small gap of 10 mm between the vertical cladding, see Top Detail 1. Every cladding is fixed with one nail in the middle of the board 25 mm from the top and 75 mm from the bottom, so it is always fixed in the middle of the distance strip.



Gun Nail



Detail 1  
1 : 5

### QUALITY CONTROL

- Wood Frame Assembly
- Correct studs used
  - Properly fixed
  - Correct dimensions
  - No damages on wood

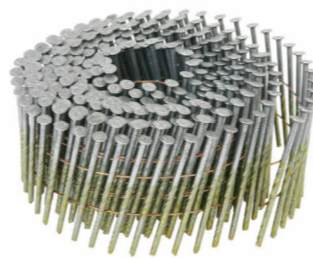
Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Signature: \_\_\_\_\_

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**Assembly:**  
 The boards are cut according to the cutting list.  
 The boards are assembled according to mounting sequence.

**Nail**  
 TJEP MX 21/45 ring nails with blunt point  
 Service Class: 3

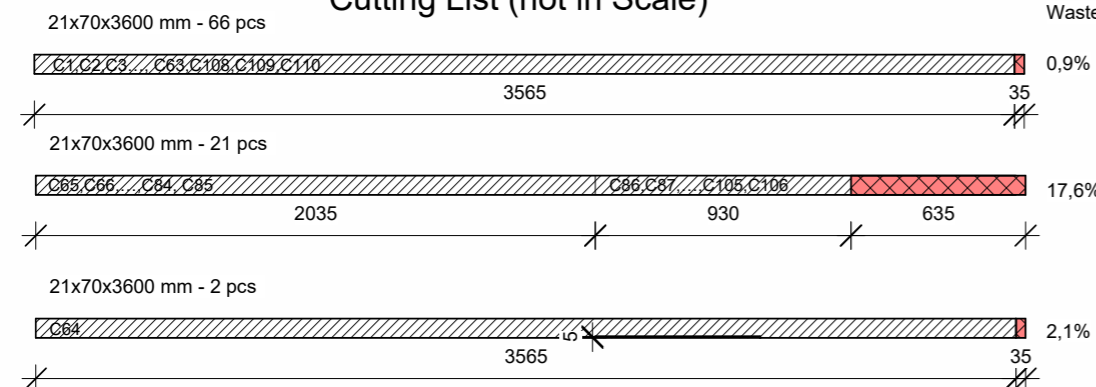
Angle	15°
Diameter	2.1 mm
Length	45 mm
Weight	4.08 kg



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Exterior 1  
 1 : 25

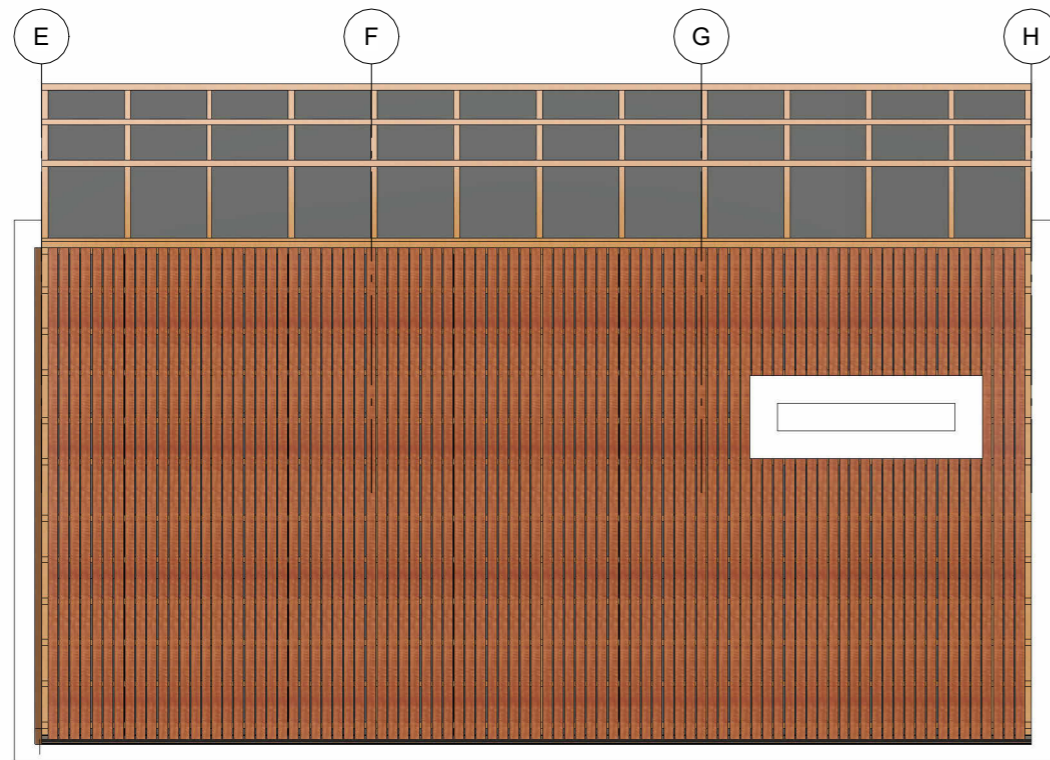
### Cutting List (not in Scale)



Cladding Used Waste

PROJECT: Multi-Purpose Hall	DATE: 21-05-2023	<b>25</b>
SUBJECT: Cladding - Step 10.1	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# PARAPET INFORMATION



Exterior  
1 : 50

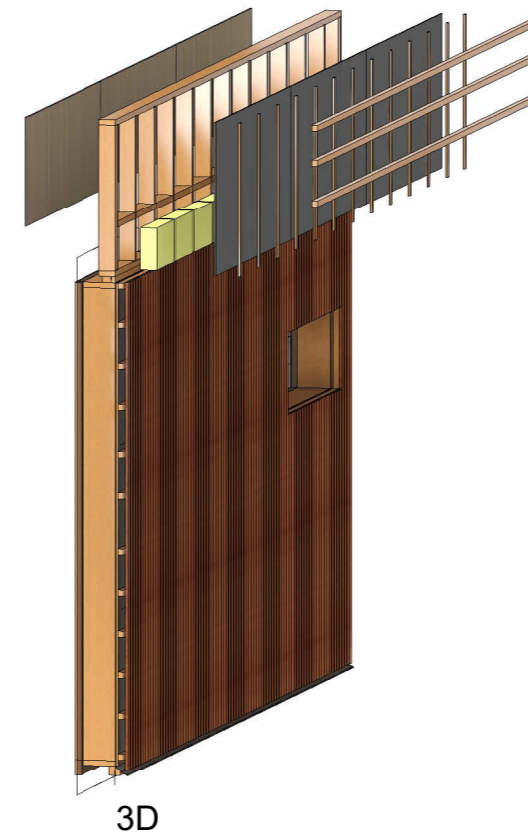
Parapet Dimensions: 1200x7200mm

Main frame: Timber frame from Södra Wood Denmark  
Dimensions: 45mm x 120mm studs, 600mm C/C  
25mm x 45mm stud below parapet for connection

OSB Boards: NPI  
Dimensions: 3stk - 800mm x 2400mm

Insulation: Rockwool  
Dimensions: 10stk - 120x335x600 mm  
2stk - 120x335x533 mm

Windbreaker: CEMBRIT Windstopper Basic  
Dimensions: 3stk - 1130mm x 2400mm boards



Distance strips: Södra Wood Denmark  
Dimensions: 13stk - 12mm x 45mm x 1200mm, 600mm C/C

Counter battens: Södra Wood Denmark  
Dimensions: 3stk - 45mm x 45mm x 7200mm



Left  
1 : 25

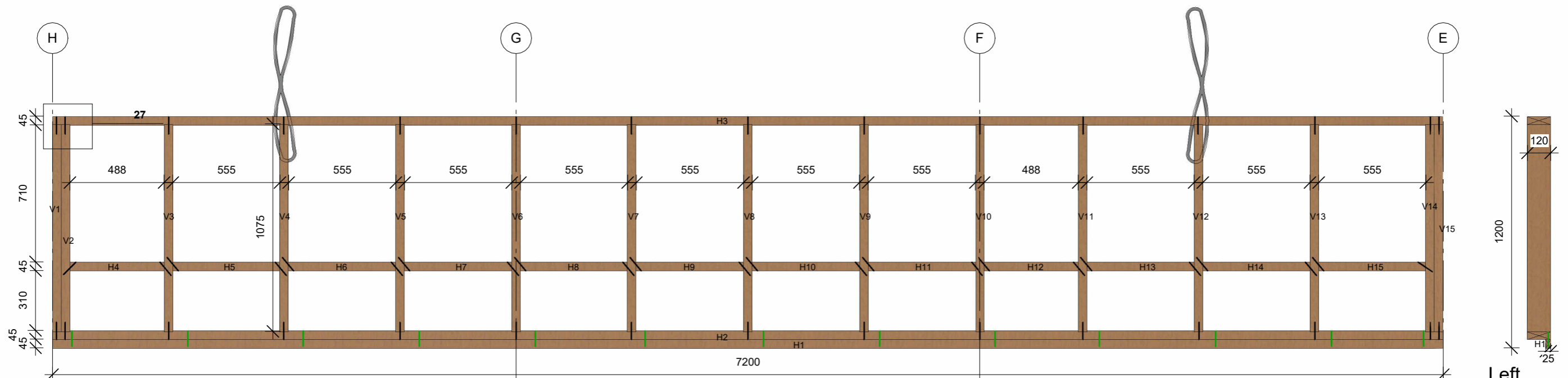


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PROJECT: Multi-Purpose Hall	DATE: 24-05-2023	<b>26</b>
SUBJECT: Parapet Information	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

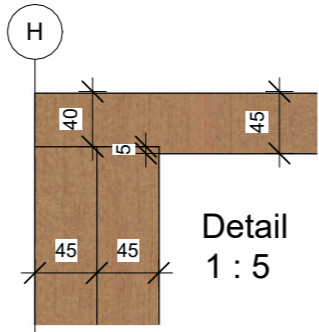
# LOAD-BEARING FRAME PARAPET - STEP 11



Left  
1 : 20

Inside 1  
1 : 20

Parapet Frame			
Dimensions	Length	Mark	Count
25x45 mm timber	7200	H1	1
45x120 mm timber	7200	H3,H4	2
45x120 mm timber	488	H5,H13	2
45x120 mm timber	555	H6,H7,H8,H9 H10,H11,H12 H14,H15,H16	10
45x120 mm timber	1700	V1,V2,V3,V4,V5 V6,V7,V8,V9,V10 V11,V12,V13,V14,V15	15
TOTAL			30



### Mounting Sequence

1. H3
2. H4
3. V1
4. V15
5. V2
6. V3
7. V4
8. V5
9. V6
10. V7
11. V8
12. V9
13. V10
14. V11
15. V12
16. V13
17. V14
18. H5
19. H6
20. H7
21. H8
22. H9
23. H10
24. H11
25. H12
26. H13
27. H14
28. H15
29. H16
30. H1

### Information

45x120 mm Barrier planks  
Length 3000 - 5400 - C18

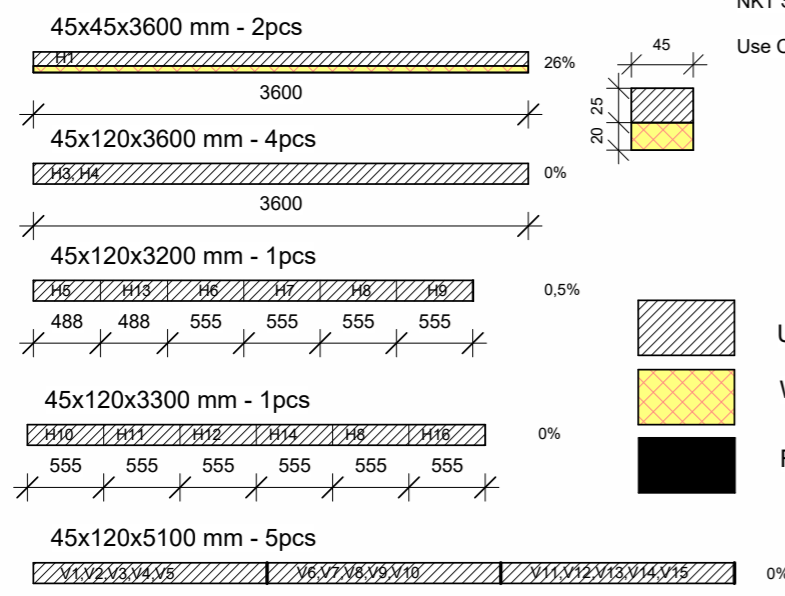
45x70 mm Barrier planks  
Length 3000 - 5400 - C18

Surface: Planed all 4 pages  
Corners: Rounded / phased  
Strength Sorting: C18  
Wood: Gran

Manufacturer: Sodra  
Fire resistance: D-s2,d0

- #### Prefabricated Parapet
1. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
  2. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
  3. Windbarrier - 9mm
  4. **Frame Timber Studs - 45 x 120 mm**
  5. Mineral Wool Insulation Batts - 120 mm
  6. OSB Boards - 12 mm

### Cutting list (not in scale)



### Screws

NKT SPUN@+ SUH, Stainless 5,0x80\*  
NKT SPUN@+ SUH, Stainless 5,0x90\*  
Use Class: 3



**Dovetail joint**  
Connection of the H1,H2, H3,H4

### 3-Strand Danaflex

**Technical specifications:**  
Manufactured according to DS/EN 699  
**Material:** Fibrillated polypropylene split film, UV-stabilized  
**Construction:** 3-strand  
**Color:** Blue (can also be supplied in white or orange)  
**Elongation at break:** Approx. 30%  
**Melting point:** 165 - 175°C  
**Specific gravity:** 0.91 g/cm³



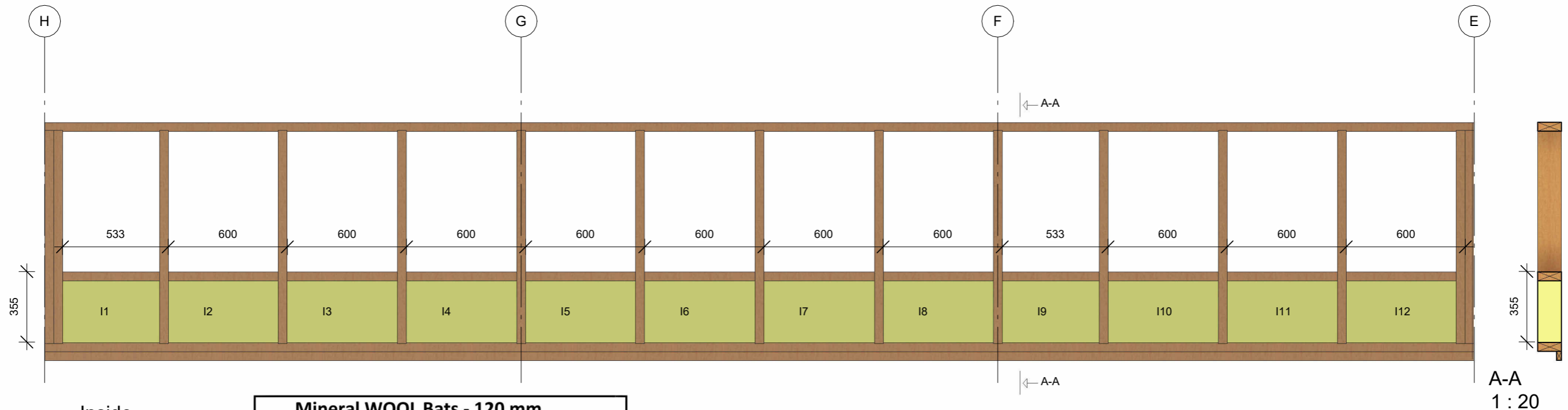
QUALITY CONTROL	
Wood Frame Assembly	
Correct studs used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct dimensions	<input type="checkbox"/>
No damages on wood	<input type="checkbox"/>
Name:	
Date:	Signature:

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PROJECT: Multi-Purpose Hall	DATE: 25-05-2023	<b>27</b>
SUBJECT: Parapet Frame - Step 11	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# MINERAL WOOL INSULATION BATTS PARAPET - STEP 12



Inside  
1 : 20

Mineral WOOL Bats - 120 mm			
Length	Width	Mark	Count
533	355	I1,I9	2
600	355	I2,I3,I4,I5, I6,I7,I8, I10,I11,I12	10
TOTAL			12

Cutting list (not in Scale)

### Mounting Sequence

- |       |         |
|-------|---------|
| 1. I1 | 7. I7   |
| 2. I2 | 8. I8   |
| 3. I3 | 9. I9   |
| 4. I4 | 10. I10 |
| 5. I5 | 11. I11 |
| 6. I6 | 12. I12 |

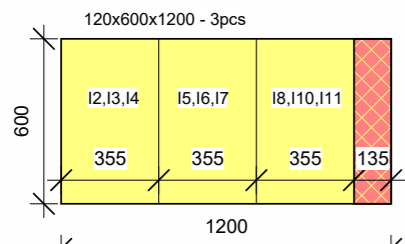
### Information

Manufacturer: Rockwool  
Material: Stone wool insulation  
Dimensions: 120x600x1200 mmm  
Thermal conductivity: 0.034 W/mK  
Fire classification: A1

### Prefabricated Parapet

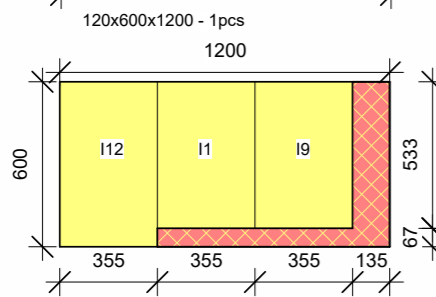
1. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
2. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
3. Windbarrier - 9mm
4. Frame Timber Studs - 45 x 120 mm
5. **Mineral Wool Insulation Batts - 120 mm**
6. OSB Boards - 12 mm

A-A  
1 : 20

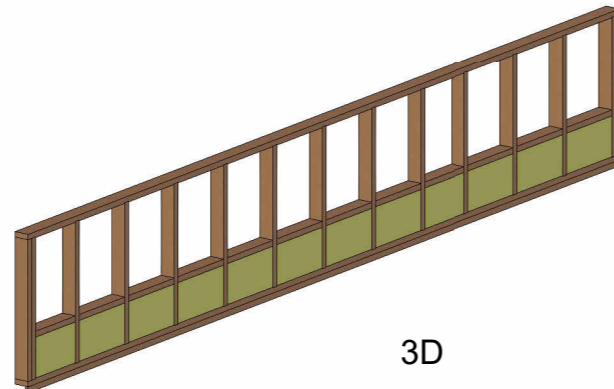
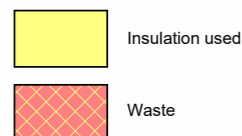


Waste  
11,2%

The wooden frame is filled with one layer of mineral wool. They need to be cut according to the cutting list. Use a serrated knife .



17,2%



3D

QUALITY CONTROL	
Insulation Assembly	
Correct thickness used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct dimensions	<input type="checkbox"/>
All cavities properly filled	<input type="checkbox"/>
Name:	
Date:	Signature:

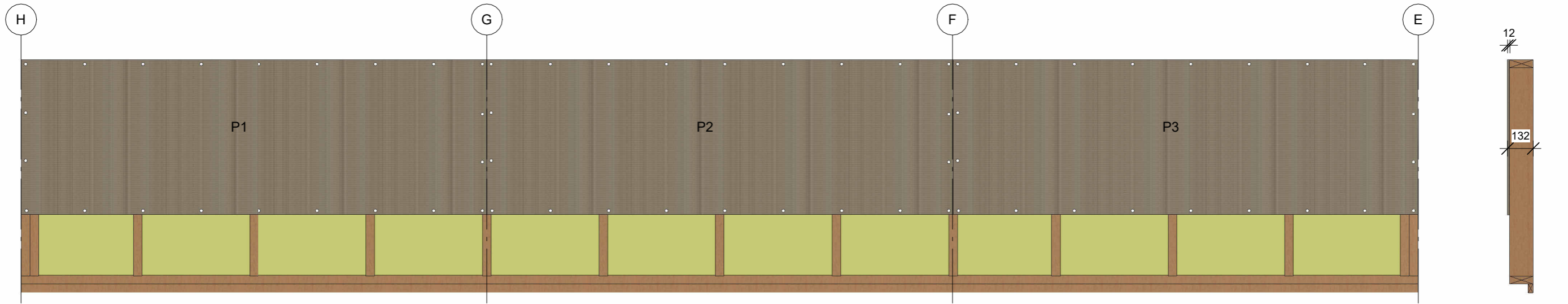


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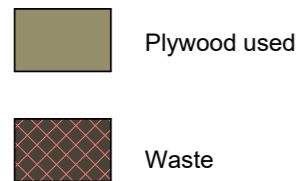
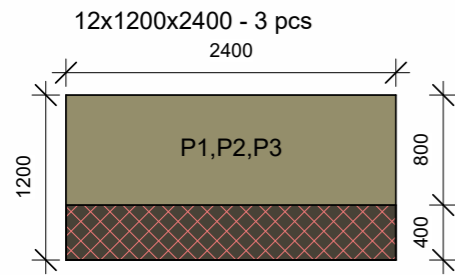
PROJECT: Multi-Purpose Hall	DATE: 24-05-23	<b>28</b>
SUBJECT: Parapet Mineral Wool Insulation Batts - Step 12	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# OSB BOARD PARAPET - STEP 13



Inside  
1 : 20

Cutting List (not in Scale)



Mounting Sequence

1. P1
2. P2
3. P3

OSB Boards - 12mm			
Width	Length	Mark	Count
1200	2400	P1,P2,P3	3
TOTAL			3

Manufacturer: NFI  
Type: TG2 & SQ  
Bend-tensile strength: 20/10 MPa  
Service Class: 1, 2  
Fire class: D-s2,do

Board Dimention.  
12x1200x2400



Nails  
Annular ring shank nails 45mm

○ - illustrated in the view approx. 250mm C/C

Placed 22.5 mm from the edges



- Prefabricated Parapet**
1. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
  2. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
  3. Windbarrier - 9mm
  4. Frame Timber Studs - 45 x 120 mm
  5. Mineral Wool Insulation Batts - 120 mm
  6. **OSB Boards - 12 mm**

Left  
1 : 20

### QUALITY CONTROL

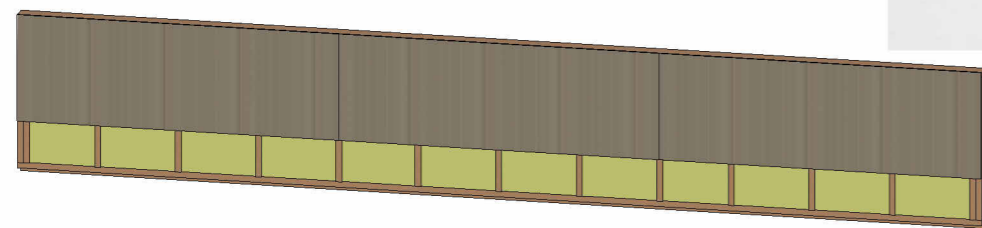
#### Plywood Assembly

- Correct boards used
- Properly fixed
- Correct dimensions
- No damages to boards

Name:

Date:

Signature:



3D

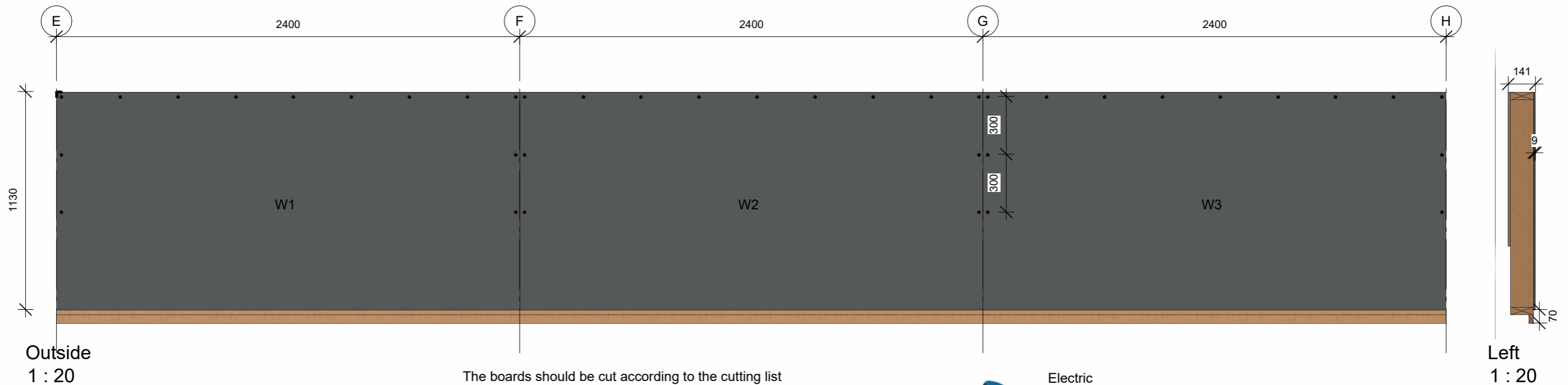


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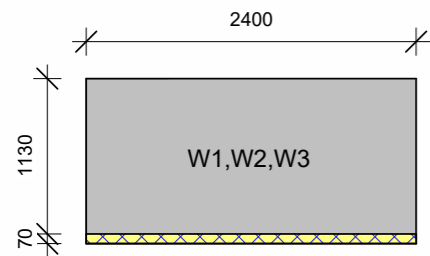
PROJECT: Multi-Purpose Hall	DATE: 24-05-2023	<b>29</b>
SUBJECT: Parapet OSB Boards- Step 13	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# WINDBARRIER PARAPET - STEP 14



## Cutting List (not in Scale)

9x1200x2400 - 3 pcs



Waste

5,8%

○ - illustrated in the view approx. 300mm C/C

Wind Barrier used

Waste

The boards should be cut according to the cutting list with a electric circular saw that is only designed for cutting fiber cement. It should be done according the Mounting Sequence.

Screws should be placed each 300mm c/c, but we leave some loose conection at the bottom for inserting the flashing on the building site. The other screws are going to be screwed on site as well.

All the boards joints should be taped over with Cembrit windstopper tape 75mm. The tape should be placed so that there is an overlap at corners where they meet.



Cembrit 38  
Universal Screw  
3,9 x 38mm

Electric  
Circular Saw



Cembrit  
windstopper  
tape 75mm



## Prefabricated Parapet

- 1.Counter Battern - 45 x 45 mm Horizontal c/c 300 mm
- 2.Distance Strips - 12 x 45 mm Vertical c/c 600 mm
- 3.**Windbarrier - 9mm**
- 4.Frame Timber Studs - 45 x 120 mm
- 5.Mineral Wool Insulation Batts - 120 mm
- 6.OSB Boards - 12 mm

## Information

Material: Fiber cement  
Colour: Natural  
Length: 2400 mm  
Width: 1200 mm  
Thickness: 9 mm  
Fire class: A2,s1-d01  
Manufacturer: Cembrit

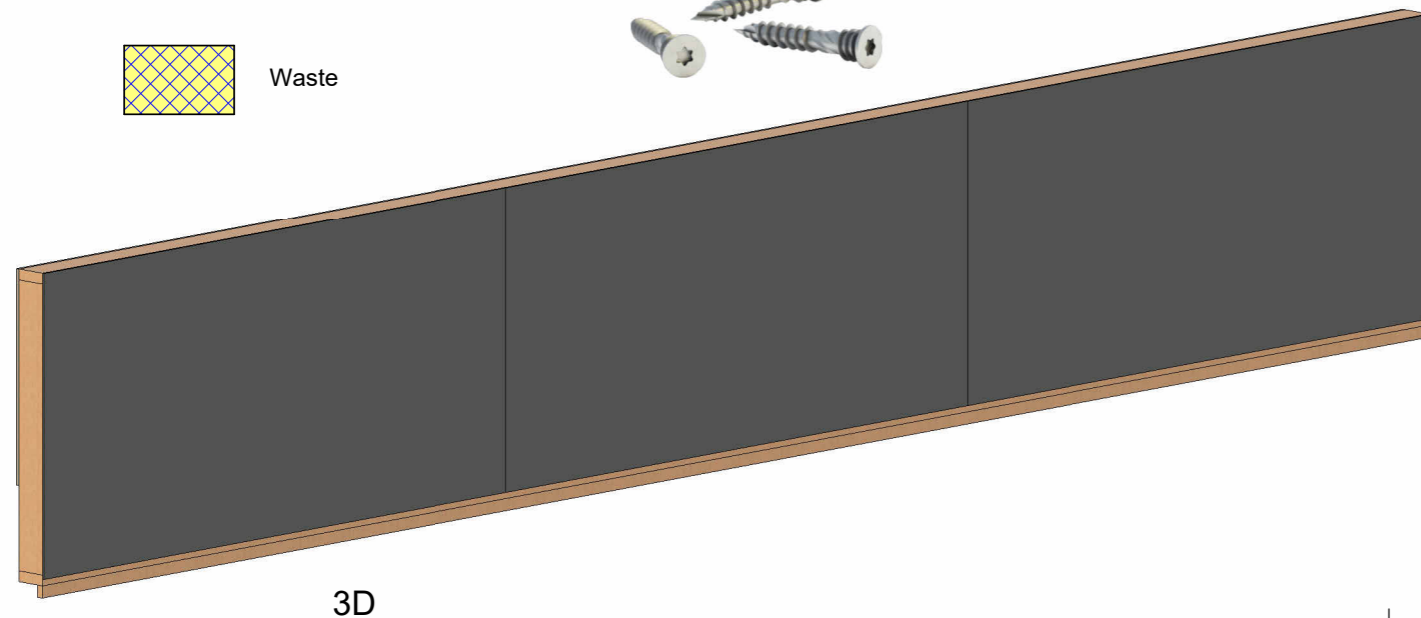


## QUALITY CONTROL

- Cembrit Windboards Assembly
- Correct studs used
  - Properly fixed
  - Correct dimensions
  - No damages on boards

Name:

Date: Signature:



3D

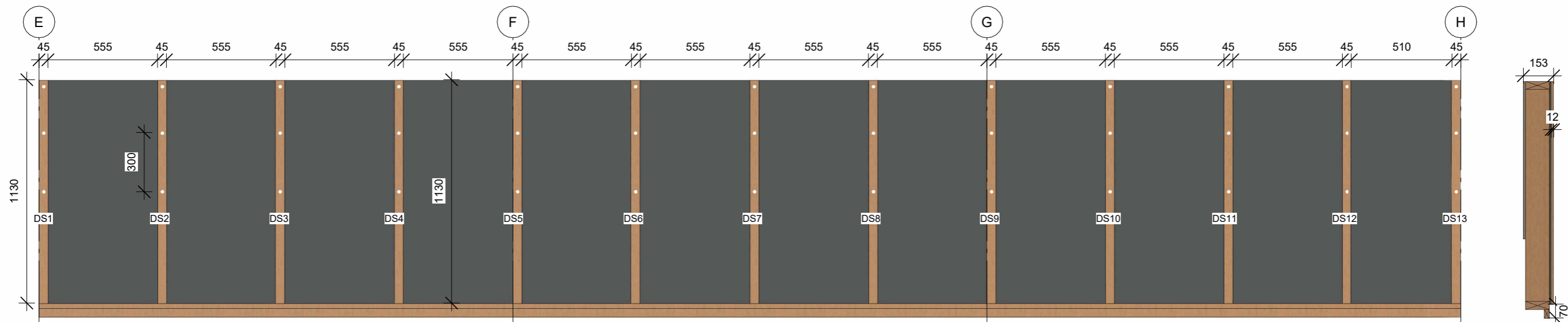


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PROJECT: Multi-Purpose Hall	DATE: 21-05-2023	<b>30</b>
SUBJECT: Parapet Windbarrier - Step 14	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

# VERTICAL DISTANCE STRIPS PARAPET - STEP 15



- Outside 1 : 20**
- Mounting Sequence**
1. DS1
  2. DS2
  3. DS3
  4. DS4
  5. DS5
  6. DS6
  7. DS7
  8. DS8
  9. DS9
  10. DS10
  11. DS11
  12. DS12
  13. DS13
- 3D**

Distance Strips			
Dimensions	Length	Mark	Count
12x45 mm timber	1130	DS1,DS2,DS3,DS4,DS5,DS6,DS7,DS8,DS9,DS10,DS11,DS12,DS13	13
<b>TOTAL</b>			<b>13</b>

**Information**

Width: 45 mm  
 Height: 45 mm  
 Length: 3600 - 4800 mm  
 Planer: Yes  
 Rounded corners: Yes  
 Strength classification: C14  
 Manufacturer: Sobra

**Left 1 : 20**

- Prefabricated Parapet**
1. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
  2. **Distance Strips - 12 x 45 mm Vertical c/c 600 mm**
  3. Windbarrier - 9mm
  4. Frame Timber Studs - 45 x 120 mm
  5. Mineral Wool Insulation Batts - 120 mm
  6. OSB Boards - 12 mm



## Screws

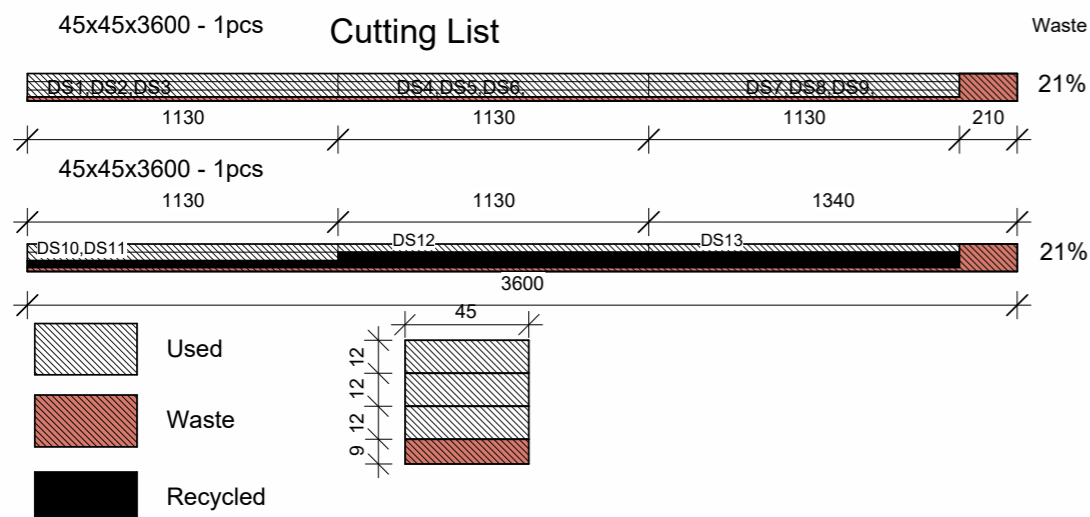
NKT FASTENERS Basic Screw Outdoor Ruspert 1000 TX20  
 Length: 50 mm, Diameter: 5 mm, (5x50mm)  
 Use class: 3

Some loose connection at the bottom is left for inserting the flashing on the building site. The other screws are going to be screwed on site as well.

○ - illustrated in the view approx. 300mm C/C



QUALITY CONTROL	
Distance Strip Assembly	
Correct studs used	<input type="checkbox"/>
Properly fixed	<input type="checkbox"/>
Correct dimensions	<input type="checkbox"/>
No damages on wood	<input type="checkbox"/>
Name:	
Date:	Signature:



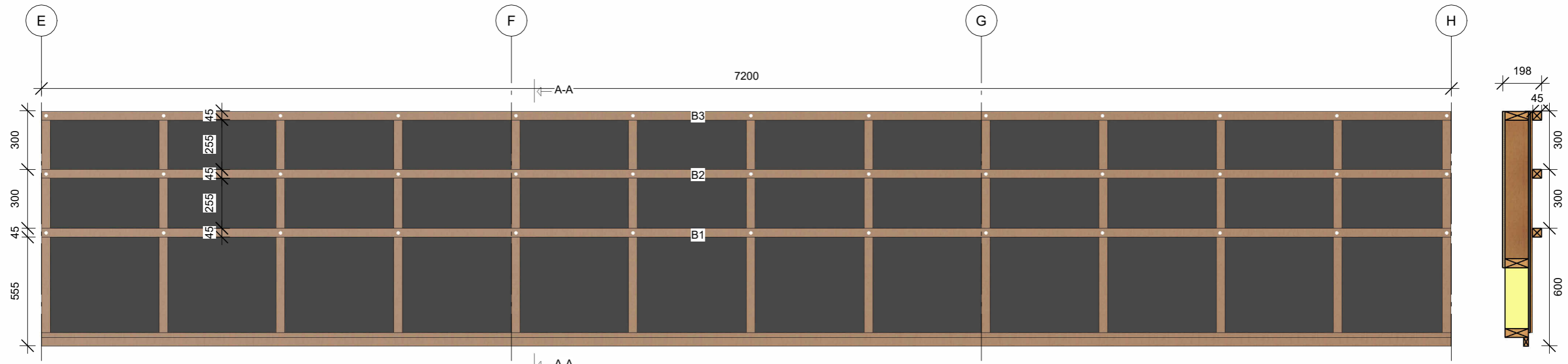
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PROJECT: Multi-Purpose Hall	DATE: 17-05-2023	<b>31</b>
SUBJECT: Parapet Vertical Distance Strips - Step 15	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	



# COUNTER BATTENS PARAPET - STEP 16



Outside  
1 : 20

Mounting Sequence

1. B1
2. B2
3. B3

Counter Battens			
Dimensions	Length	Mark	Count
45x45 mm timber	7200	B1,B2,B3	3
TOTAL			3

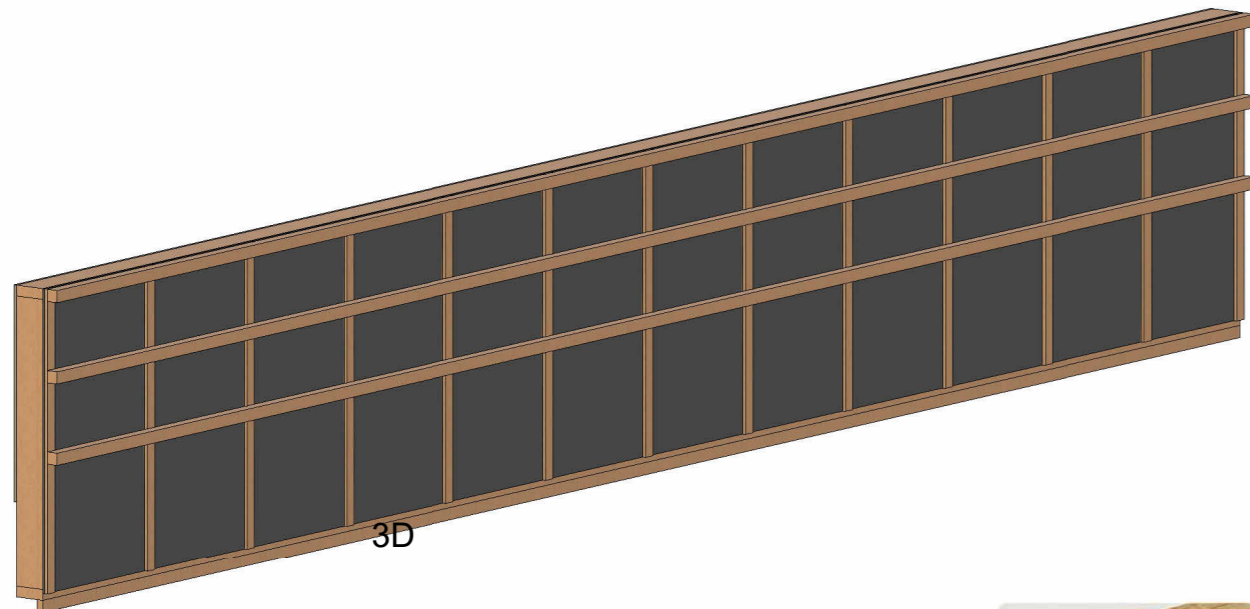
A-A  
1 : 20

Information

Width: 45 mm  
 Height: 45 mm  
 Length: 3600 - 4800 mm  
 Planer: Yes  
 Rounded corners: Yes  
 Strength classification: C14  
 Manufacturer: Sobra

Prefabricated Parapet

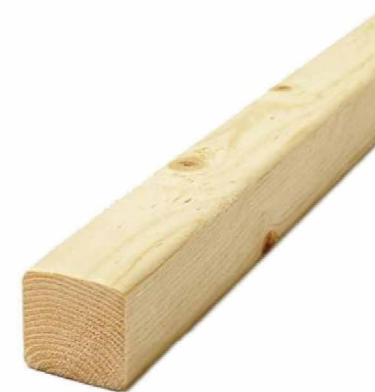
1. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
2. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
3. Windbarrier - 9mm
4. Frame Timber Studs - 45 x 120 mm
5. Mineral Wool Insulation Batts - 120 mm
6. OSB Boards - 12 mm



3D

Screws

NKT FASTENERS Basic Screw  
 Outdoor Ruspert 1000 TX20  
 Length: 120 mm, Diameter: 5 mm, (5x120mm)  
 Use class: 3



QUALITY CONTROL

Counter Batten Assembly

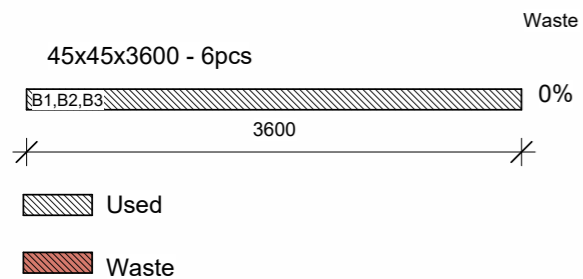
- Correct studs used
- Properly fixed
- Correct dimensions
- No damages on wood

Name:

Date:

Signature:

Cutting List (not in Scale)



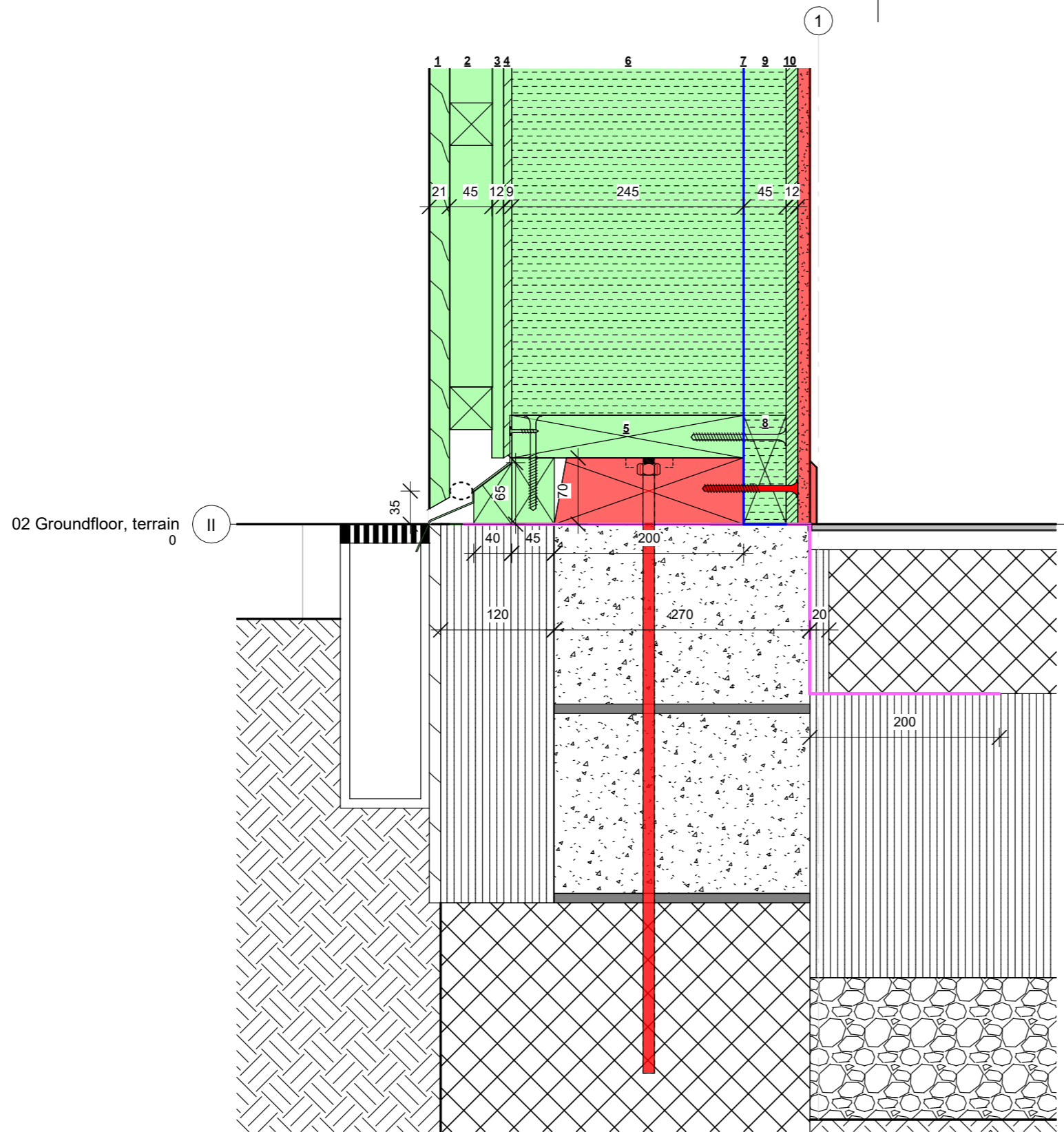
Dovetail joint  
 Connection of the B1,B2,  
 B3



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 Campus HORSSENS

PROJECT: Multi-Purpose Hall	DATE: 17-05-2023	<b>32</b>
SUBJECT: Counter battens - Step 16	SCALE: As indicated	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	



### Facade

- 1. Vertical Wood Cladding - 21 x 70 mm
- 2. Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
- 3. Distance Strips - 12 x 45 mm Vertical c/c 600 mm
- 4. Windbarrier - 9mm
- 5. Load-Bearing Frame Timber Studs - 45 x 245 mm
- 6. Mineral Wool Insulation Batts - 245 mm (2x125 mm)
- 7. DPM - 2 mm
- 8. Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
- 9. Mineral Wool Insulation Batts - 45 mm
- 10. OSB Boards - 12 mm

### Legend

- Green area - Facade Element
- Red area - Mounted on site
- Blue line - DPM
- Blue line - DPC
- S

 Red screws - Mounted on site

Wooden wall and foundation connection  
1 : 5

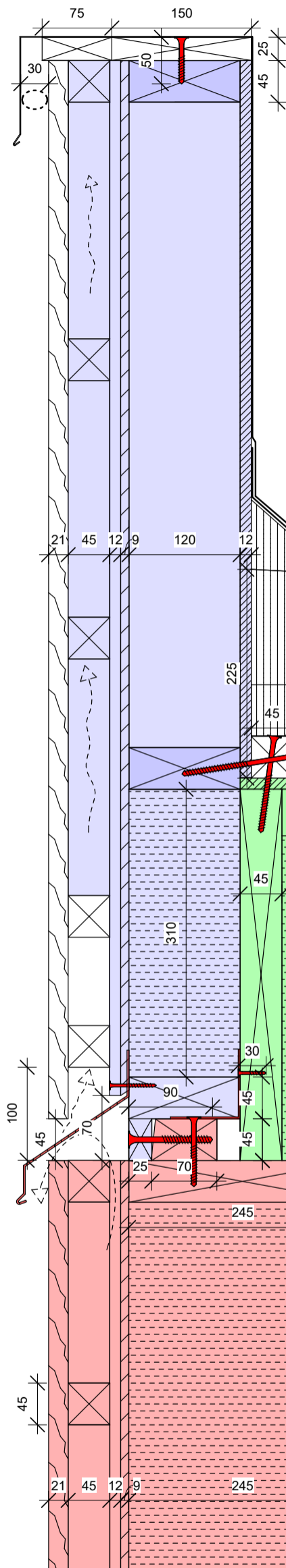


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PROJECT: Multi-purpose Hall	DATE: 30-05-2023	<b>33</b>
SUBJECT: Wooden Wall Connection to Foundation	SCALE: 1 : 5	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	

## Mounting



- 1 - The wall element is mounted to the foundation and the DPM sticking out at the top is folded over the OSB Board.
- 2 - The roof cassette is placed on top of the wall element, with the end aligned to the 45x70 stud on top of the element. The roof cassette is fastened to the element by L-backets c/c 600mm, with ø4 70mm screws down and ø3 30mm screws to the sides.
- 3 - The parapet is then mounted by placing it on top of the element, so the 25x45mm stud on the parapet is aligned with the 45x70mm stud on the wall. The parapet is fastened to the element, by screwing ø6 90mm screws c/c 600mm through the studs 25x45mm -> 45x70mm.
- 4 - Before the cladding is mounted, the bottom flashing is mounted, to do that the bottom 70mm of the distance strip for the parapet is left empty. From the factory the bottom 2 counter battens are not mounted, so its possible to fix the flashing on the frame, below the windbreaker. After the flashing is mounted, then the windbreaker and the distance strips have to be screwed and then the last 2 counter battens.
- 5 - The cladding for the parapet is mounted.
- 6 - A 45x45mm wooden stud is placed at the corner on top of the roof cassette, which is fastend on a 25 degree angle down to the roof cassettes 45x400mm stud, so the parapet wont be able to tip and it is also fastend on a 25 degree angle to the parapet 45x120mm stud.
- 7 - The parapets are connected together, by a 150x25mm wooden plank that goes along them at the top of the parapet. By the side of the plank, are 100x25mm wooden blocks placed c/c 600mm, as supports for the flashing will be mounted later.
- 8 - Hard mineral wool is placed on top of the roof cassette to give the roof a slope 1:40 for rainwater.
- 9 - A wooden triangle is placed at the corner of the hard mineral wool, to protect the bitumen layers that are going to be on top, from overbending and cracking.
- 10 - The Top flashing is mounted and the insect net is placed.
- 11 - The DPM from the element that is laying over the elements OSb Board, is going to overlap with the roof cassettes DPM and be taped to the OSB Board together with DPM-tape.

### Roof

- 1.Bitumen roofing 4 mm
- 2.Underlay 3mm
- 3.Hard mineral wool 225mm with 1:40 slope
- 4.Timber 45x400mm bottom 350mm mineral wool
- 5.OSB board 12mm

### Parapet

- 1.Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
- 2.Distance Strips - 12 x 45 mm Vertical c/c 600 mm
- 3.Windbarrier - 9mm
- 4.Frame Timber Studs - 45 x 120 mm
- 5.Mineral Wool Insulation Batts - 120 mm
- 6.OSB Boards - 12 mm

### Facade

- 1.Vertical Wood Cladding - 21 x 70 mm
- 2.Counter Batten - 45 x 45 mm Horizontal c/c 300 mm
- 3.Distance Strips - 12 x 45 mm Vertical c/c 600 mm
- 4.Windbarrier - 9mm
- 5.Load-Bearing Frame Timber Studs - 45 x 245 mm
- 6.Mineral Wool Insulation Batts - 245 mm (2x125 mm)
- 7.DPM - 2 mm
- 8.Non-Load Bearing Frame Timber studs 45 x 45 mm c/c 600 mm
- 9.Mineral Wool Insulation Batts - 45 mm
10. OSB Boards - 12 mm

### Legend

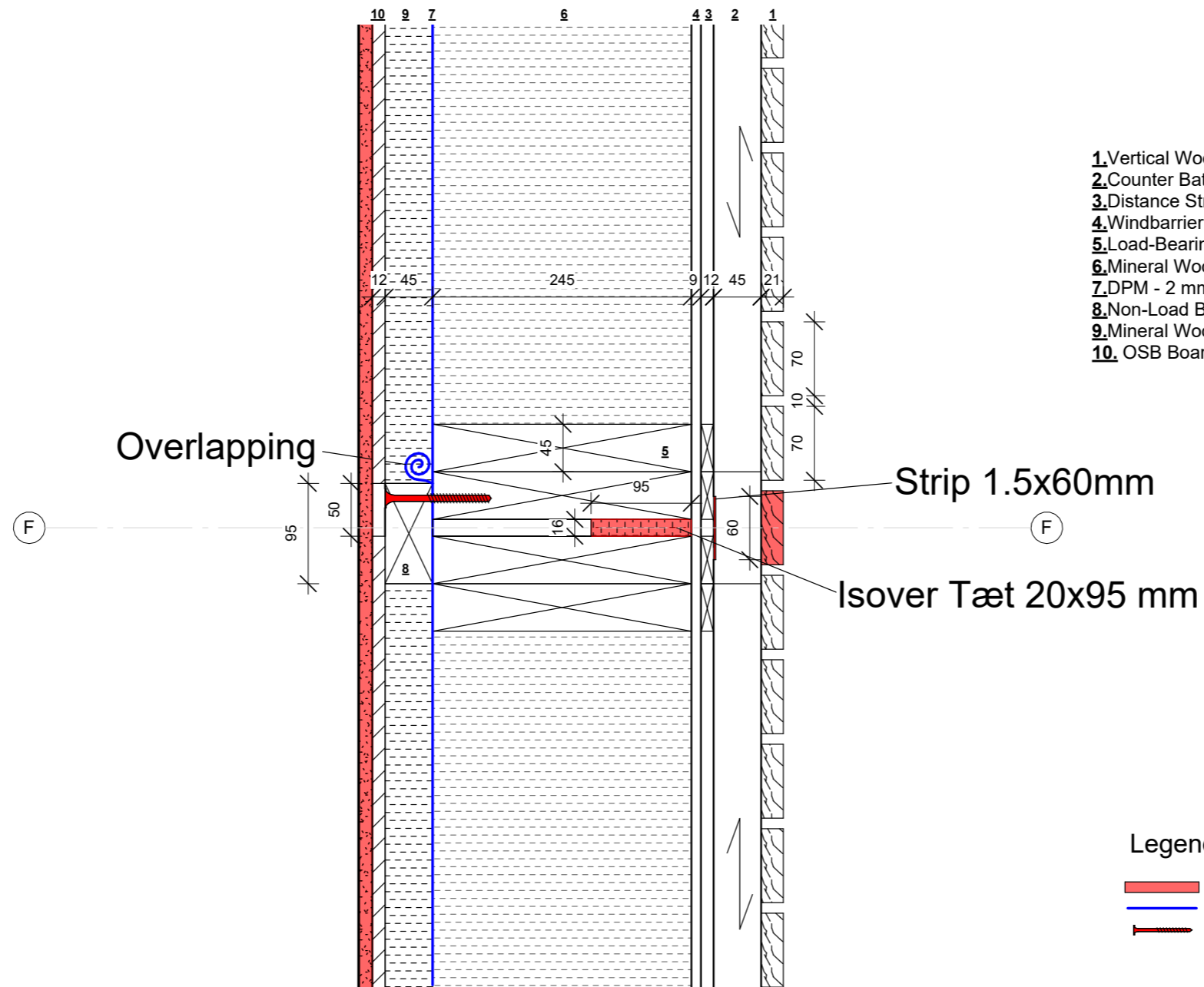
- Purple area - Parapet
- Green area - Roof cassette
- Red area - Facade element
- Blue line - DPM
- Red screws - Mounted on site



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PROJECT: Multi-purpose Hall	DATE: 29-05-2023	<b>34</b>
SUBJECT: Wood Wall connection to Roof	SCALE 1 : 5	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	



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PROJECT: Multi-purpose Hall	DATE: 29-05-2023	<b>35</b>
SUBJECT: Connection Between Wooden Wall Elements	SCALE 1 : 5	
DRAWN BY: Dimitrian Cebotaru	CLASS: AH31-23F	