



DETAILS

ARCHITECTURE GRADUATION STUDIO

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14-05-2025

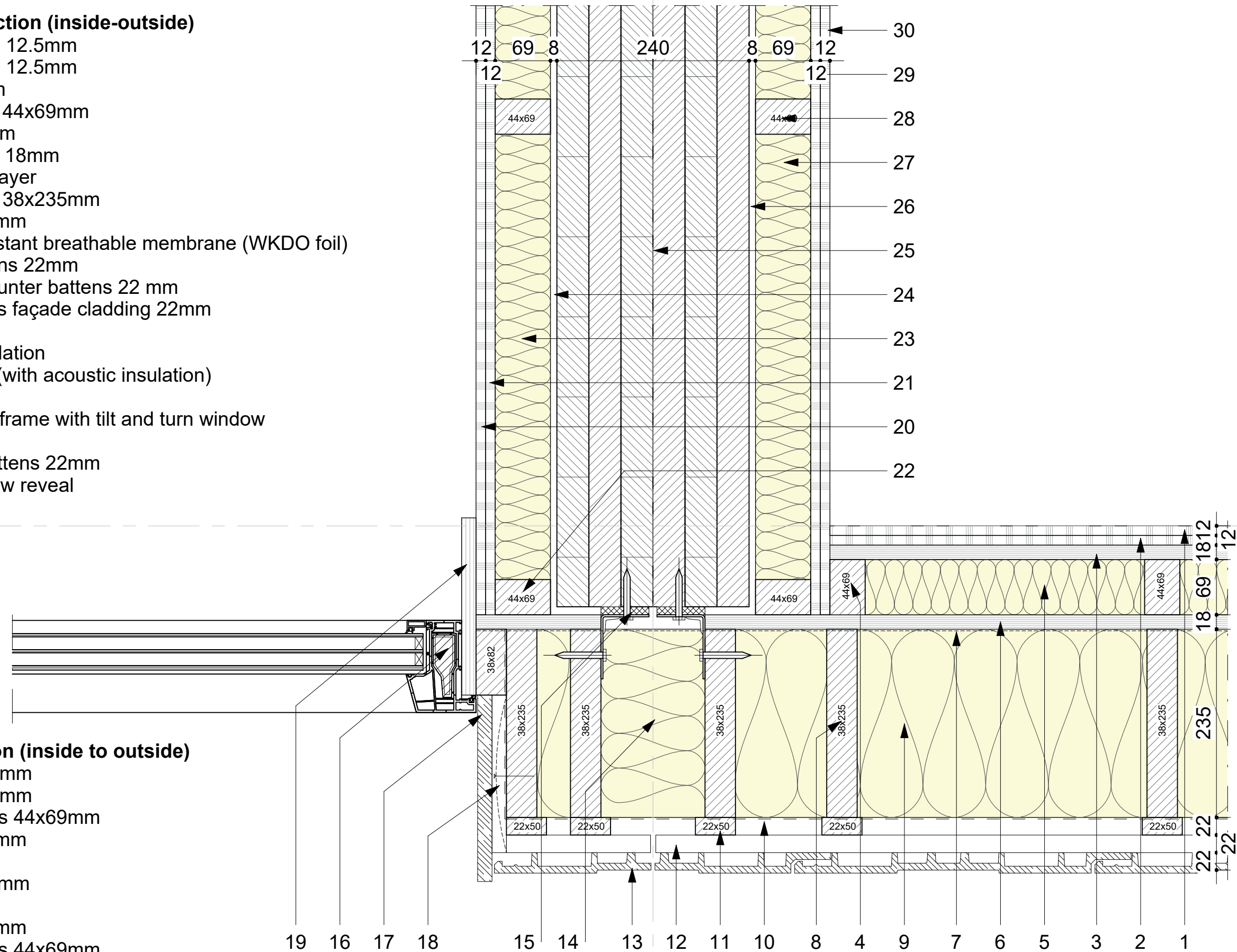
TU DELFT BOUWKUNDE
MSC ARCHITECTURE, URBANISM AND BUILDING SCIENCES
AR3AD110 - DESIGNING FOR HEALTH&CARE

Façade construction (inside-outside)

- 1. Gypsum board 12.5mm
 - 2. Gypsum board 12.5mm
 - 3. Plywood 18mm
 - 4. Wooden studs 44x69mm
 - 5. Insulation 69mm
 - 6. Plywood panel 18mm
 - 7. Vapor control layer
 - 8. Wooden studs 38x235mm
 - 9. Insulation 235mm
 - 10. Weather-resistant breathable membrane (WKDO foil)
 - 11. Vertical battens 22mm
 - 12. Horizontal counter battens 22 mm
 - 13. Pretty Plastics façade cladding 22mm
-
- 14. Acoustic insulation
 - 15. Steel angles (with acoustic insulation)
-
- 16. PVC window frame with tilt and turn window
 - 17. Reveal finish
 - 18. Ventilated battens 22mm
 - 19. Interior window reveal

Wall construction (inside to outside)

- 20. Gypsum 12.5mm
- 21. Gypsum 12.5mm
- 22. Wooden studs 44x69mm
- 23. Insulation 69mm
- 24. Cavity 8mm
- 25. CLT wall 240mm
- 26. Cavity 8mm
- 27. Insulation 69mm
- 28. Wooden studs 44x69mm
- 29. Gypsum 12.5mm
- 30. Gypsum 12.5mm

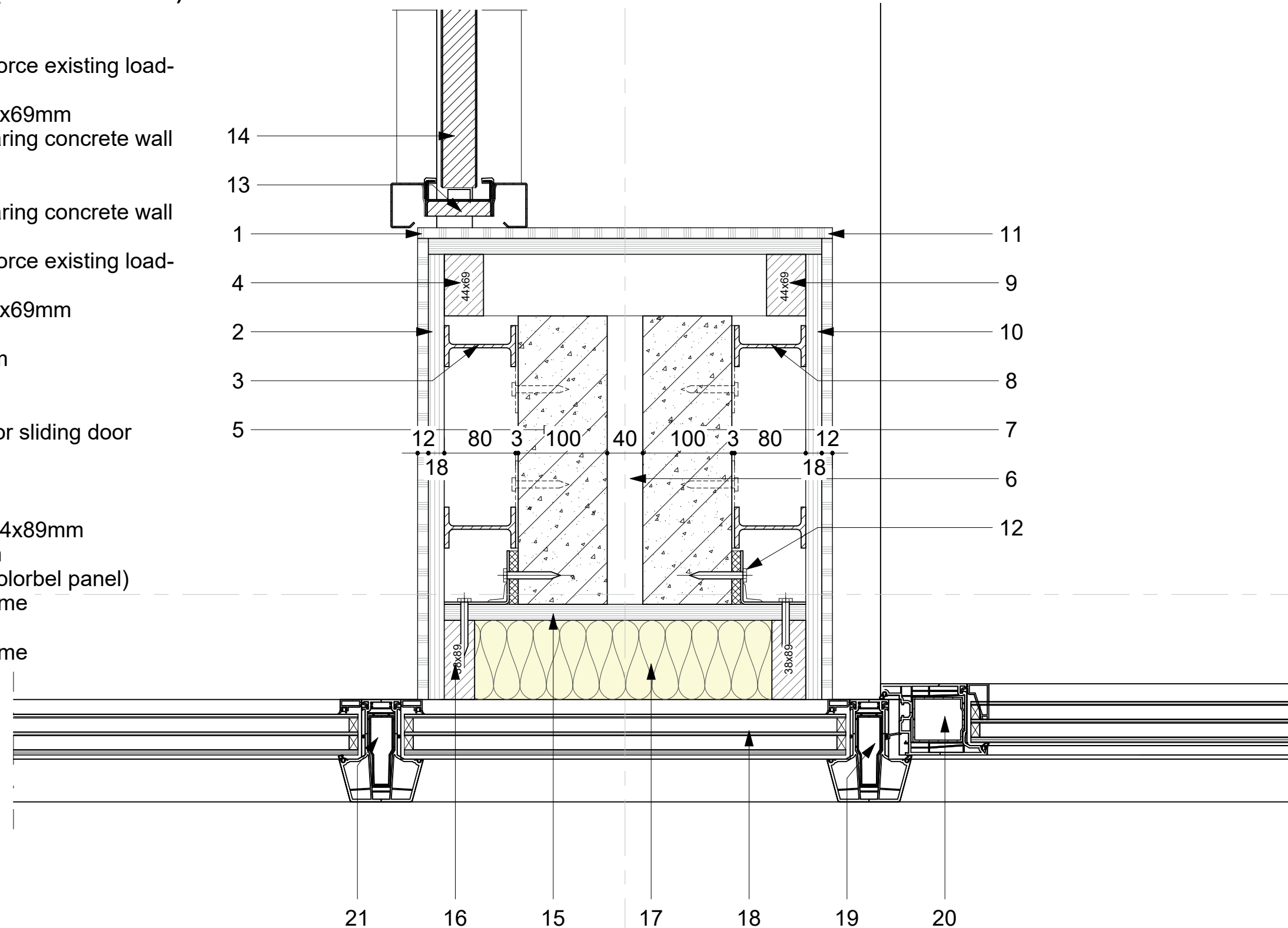


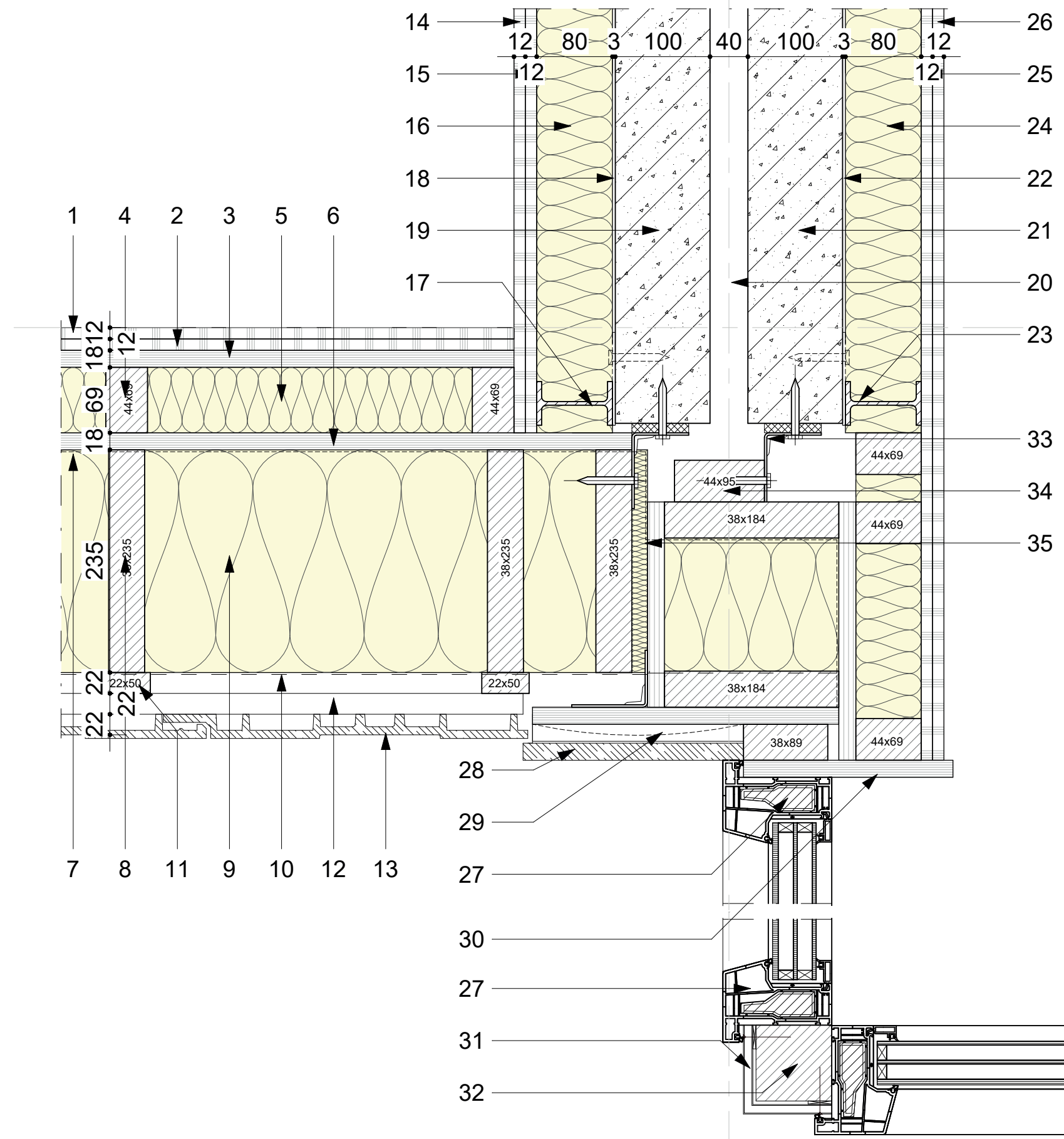
Wall construction (inside to outside)

1. Gypsum 12.5mm
2. Plywood 18mm
3. Columns (to reinforce existing load-bearing wall) 80mm
4. Wooden studs 44x69mm
5. Existing load-bearing concrete wall 100mm
6. Cavity 40mm
7. Existing load-bearing concrete wall 100mm
8. Columns (to reinforce existing load-bearing wall) 80mm
9. Wooden studs 44x69mm
10. Plywood 18mm
11. Gypsum 12.5mm

12. Steel angle
13. Window frame for sliding door
14. Sliding door

15. Plywood 18mm
16. Wooden studs 44x89mm
17. Insulation 89mm
18. Triple glazing (colorbel panel)
19. PVC window frame
20. Door
21. PVC window frame





Façade construction (inside-outside)

1. Gypsum board 12.5mm
2. Gypsum board 12.5mm
3. Plywood 18mm
4. Wooden studs 44x69mm
5. Insulation 69mm
6. Plywood 18mm
7. Vapor control layer
8. Wooden studs 38x235mm
9. Insulation 235mm
10. Weather-resistant breathable membrane (WKDO foil)
11. Vertical battens 22mm
12. Horizontal counter battens 22 mm
13. Pretty Plastics façade cladding 22mm

Wall construction (inside to outside)

14. Gypsum 12.5mm
15. Gypsum 12.5mm
16. Insulation 80mm
17. Columns (to reinforce existing load-bearing wall) 80mm
18. Cavity 3mm
19. Existing load-bearing concrete wall 100mm
20. Cavity 40mm
21. Existing load-bearing concrete wall 100mm
22. Cavity 3mm
23. Columns (to reinforce existing load-bearing wall) 80mm
24. Insulation 80mm
25. Gypsum 12.5mm
26. Gypsum 12.5mm

27. PVC window frame
28. Reveal finish
29. Ventilated batten 22mm
30. Interior window reveal
31. Aluminium composite panel 10mm
32. Wooden stud 80x80mm
33. Steel angle (with acoustic insulation)
34. Wooden stud
35. Acoustic insulation

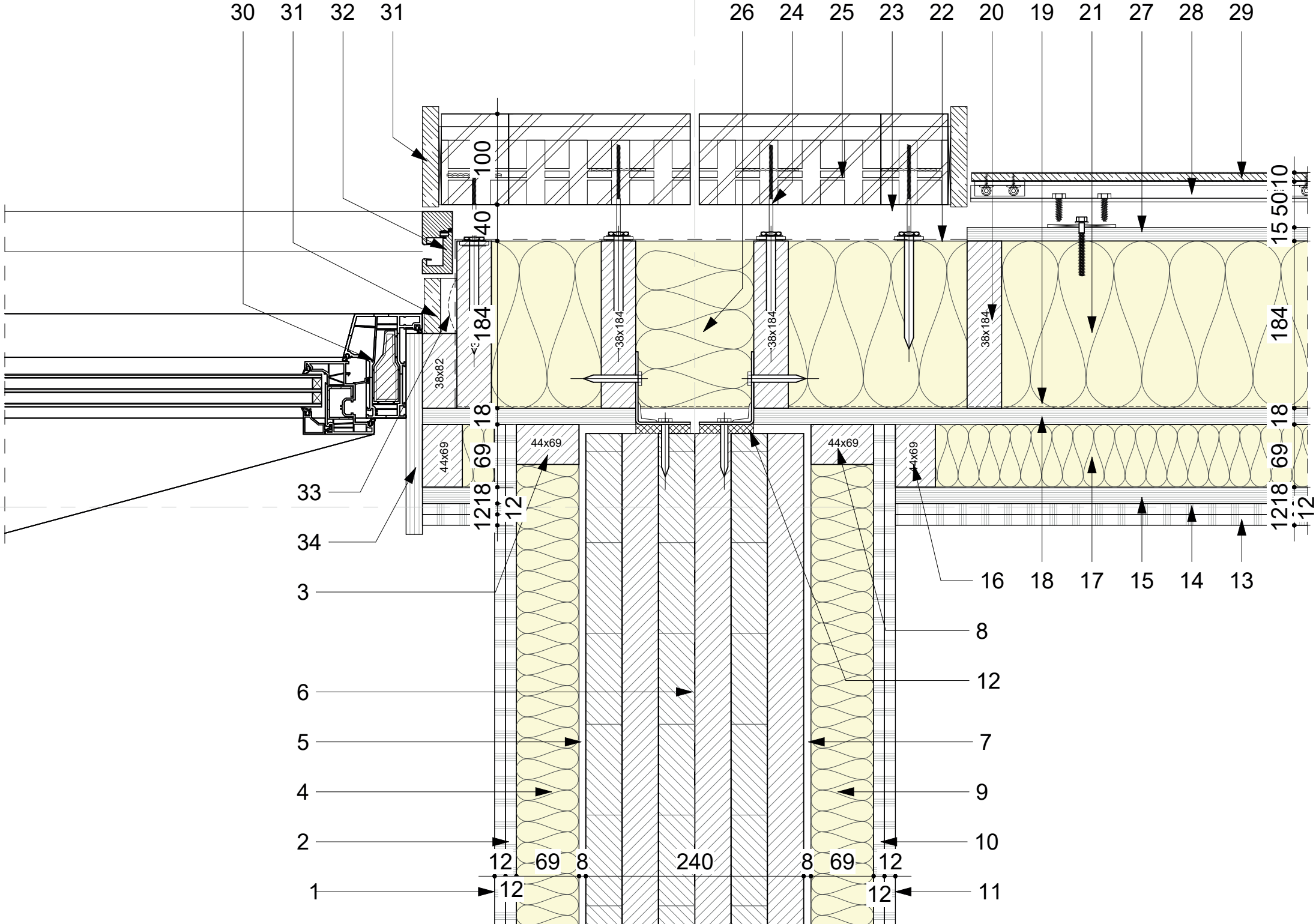
**Load-bearing wall construction
(inside to outside)**

1. Gypsum 12.5mm
2. Gypsum 12.5mm
3. Wooden studs 44x69mm
4. Insulation 69mm
5. Cavity 8mm
6. CLT wall 240mm
7. Cavity 8mm
8. Wooden studs 44x69mm
9. Insulation 69mm
10. Gypsum 12.5mm
11. Gypsum 12.5mm
12. Steel angle (with acoustic insulation)

Façade construction (inside-outside)

13. Gypsum board 12.5mm
14. Gypsum board 12.5mm
15. Plywood 18 mm
16. Wooden studs 44x69 mm
17. Insulation 69 mm
18. Plywood 18mm
19. Vapor control layer
20. Wooden studs 38x184 mm
21. Insulation 184mm
22. Weather-resistant breathable membrane (WKDO foil)
23. Cavity 40mm
24. Wall tie
25. Pirouet brick 100mm
26. Acoustic insulation
27. Vapour-open racking board 15mm
28. Construction for façade panel 50mm
29. Aluminium composite panel 10mm

30. PVC window frame with hopper window
31. Reveal finish
32. Rail for sun screen
33. Ventilated batten 22mm
34. Interior reveal finish

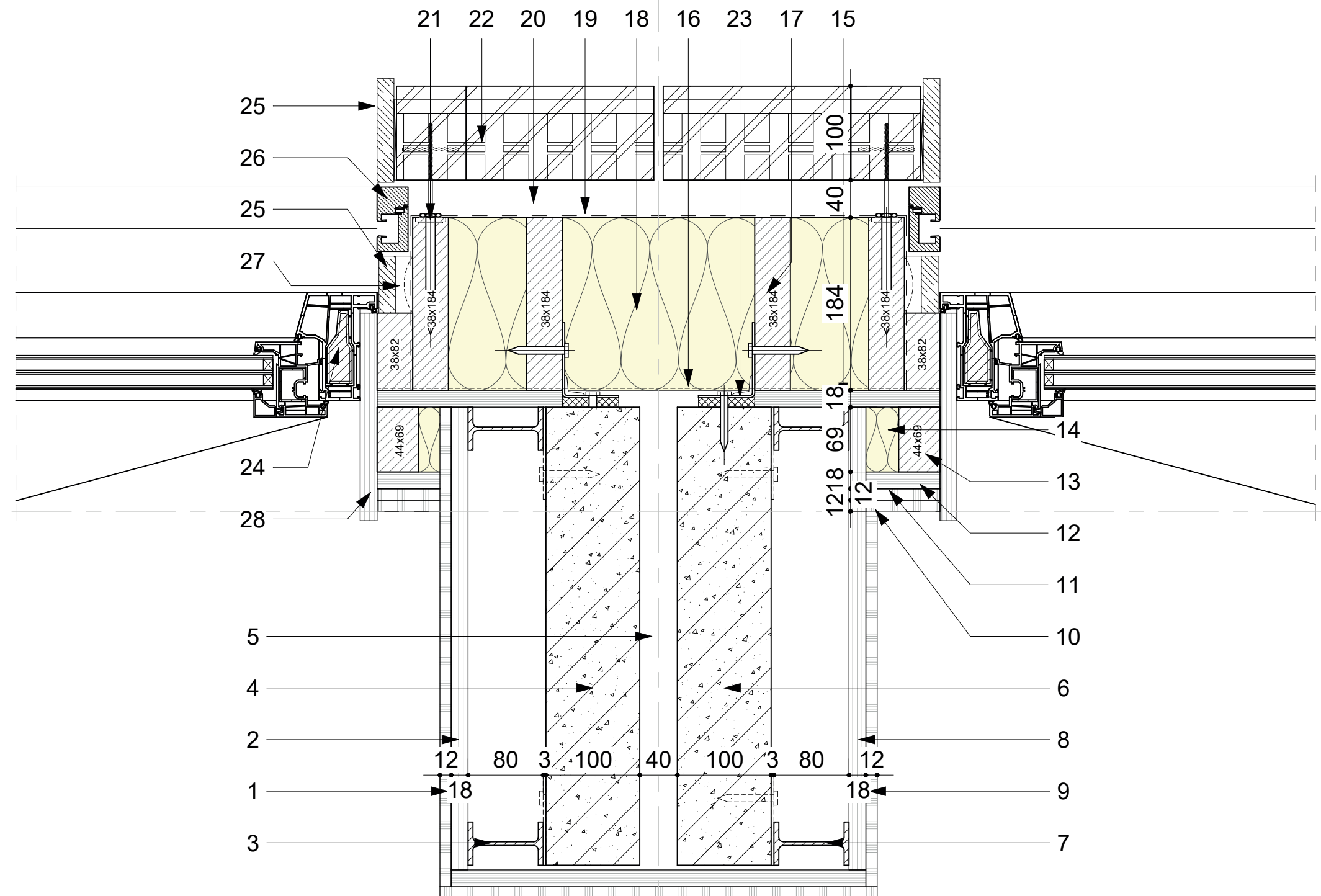


Wall construction (inside to outside)

1. Gypsum 12.5mm
2. Plywood 18mm
3. Columns (to reinforce existing load-bearing wall) 80mm
4. Existing load-bearing concrete wall 100mm
5. Cavity 40mm
6. Existing load-bearing concrete wall 100mm
7. Columns (to reinforce existing load-bearing wall) 80mm
8. Plywood 18mm
9. Gypsum 12.5mm

Façade construction (inside-outside)

10. Gypsum board 12.5mm
11. Gypsum board 12.5mm
12. Plywood 18mm
13. Wooden studs 44x69mm
14. Insulation 69mm
15. Plywood panel 18mm
16. Vapor control layer
17. Wooden studs 38x184mm
18. Insulation 184mm
19. Weather-resistant breathable membrane (WKDO foil)
20. Cavity 40mm
21. Wall tie
22. Pirouet brick 100mm
23. Steel angle
24. PVC window frame with hopper window
25. Reveal finish
26. Rail for sun screen
27. Ventilated batten 22mm
28. Interior reveal finish



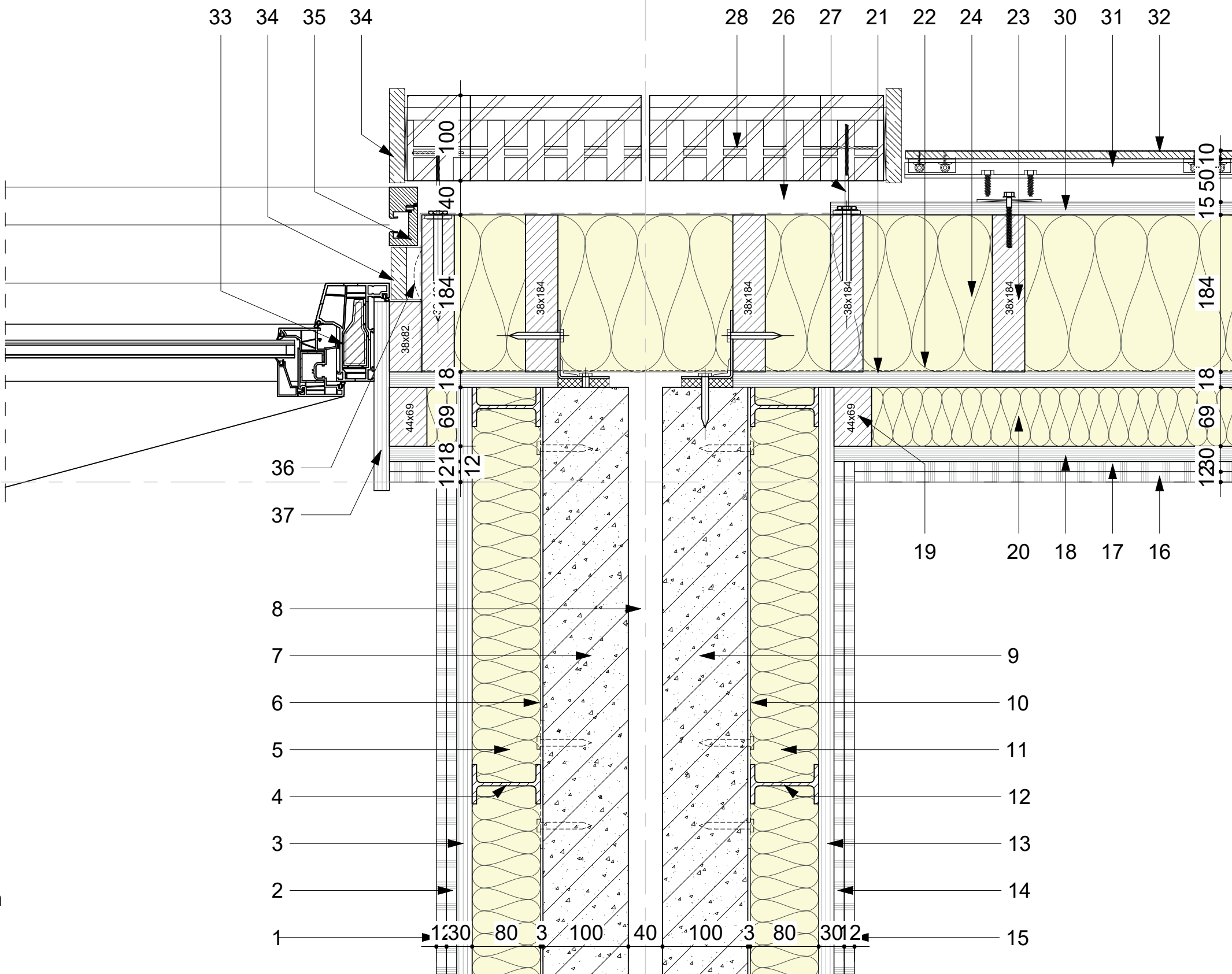
Wall construction (inside to outside)

1. Gypsum 12.5mm
2. Gypsum 12.5mm
3. Plywood 18mm
4. Columns (to reinforce existing load-bearing wall) 80mm
5. Insulation 80mm
6. Cavity 3mm
7. Existing load-bearing concrete wall 100mm
8. Cavity 40mm
9. Existing load-bearing concrete wall 100mm
10. Cavity 3mm
11. Insulation 80mm
12. Columns (to reinforce existing load-bearing wall) 80mm
13. Plywood 18mm
14. Gypsum 12.5mm
15. Gypsum 12.5mm

Façade construction (inside-outside)

16. Gypsum board 12.5mm
17. Gypsum board 12.5mm
18. Plywood 18 mm
19. Wooden studs 44x69mm
20. Insulation 69mm
21. Plywood panel 18 mm
22. Vapor control layer
23. Wooden studs 38x184mm
24. Insulation 184mm
25. Weather-resistant breathable membrane (WKDO foil)
26. Cavity 40mm
27. Wall tie
28. Pirrouet brick 100mm
29. Acoustic insulation
30. Vapour-open racking board 15mm
31. Construction for façade panel 50mm
32. Aluminium composite panel 10mm

33. PVC window frame with hopper window
34. Reveal finish
35. Rail for sun screen
36. Ventilated batten 22mm
37. Interior reveal finish

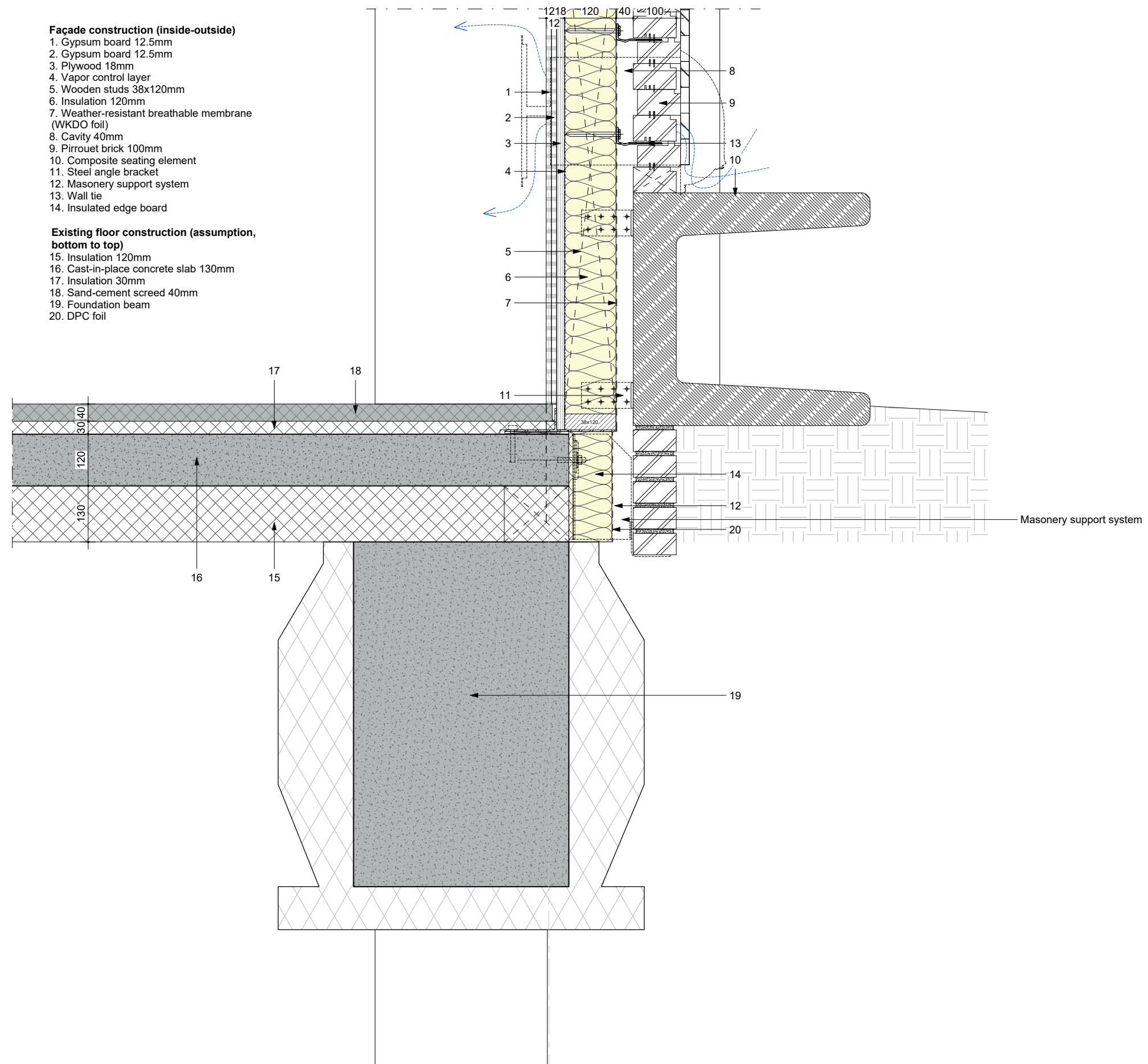


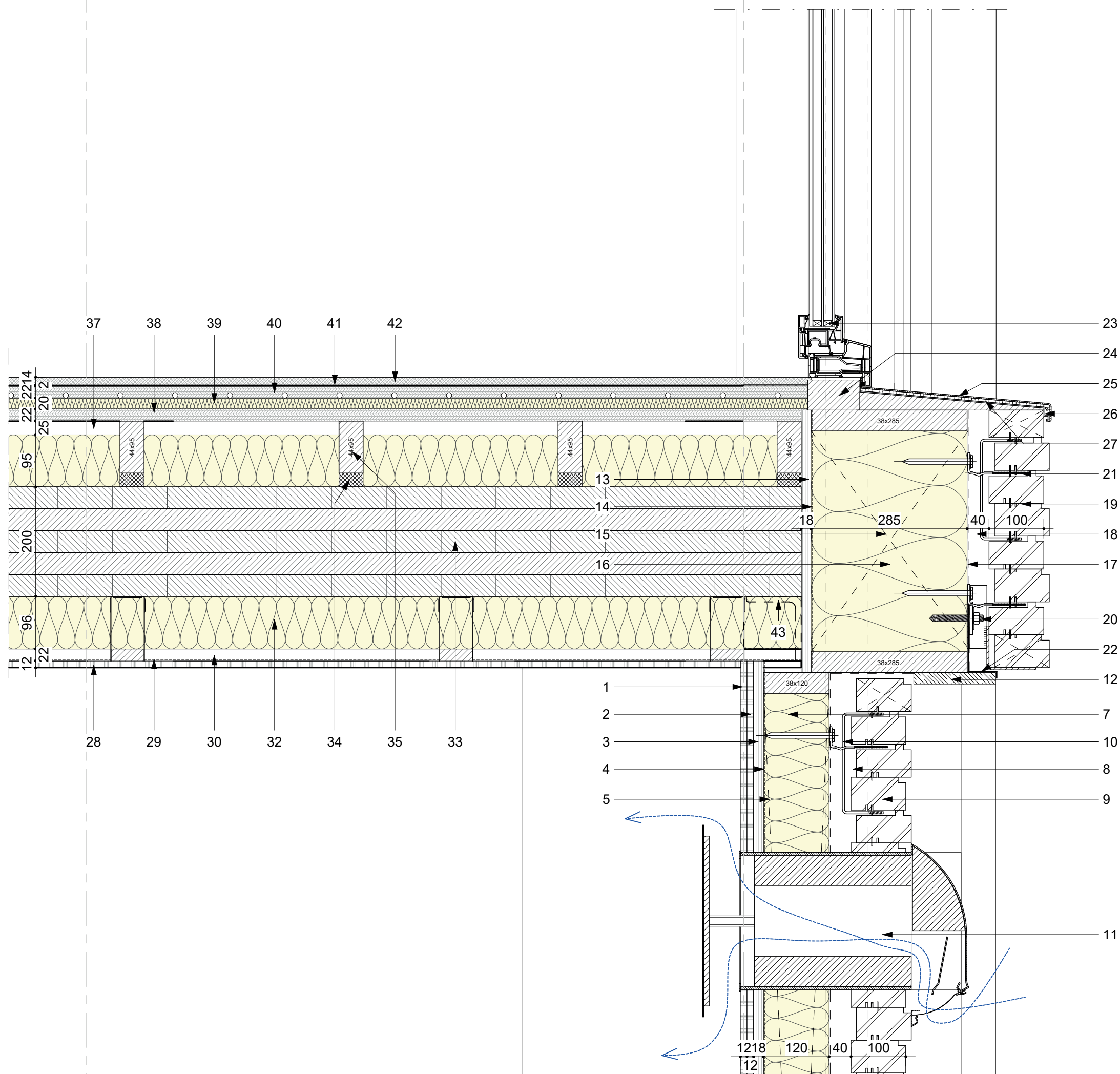
Façade construction (inside-outside)

1. Gypsum board 12.5mm
2. Gypsum board 12.5mm
3. Plywood 18mm
4. Vapor control layer
5. Wooden studs 38x120mm
6. Insulation 120mm
7. Weather-resistant breathable membrane (WKDO foil)
8. Cavity 40mm
9. Pirouet brick 100mm
10. Composite seating element
11. Steel angle bracket
12. Masonry support system
13. Wall tie
14. Insulated edge board

Existing floor construction (assumption, bottom to top)

15. Insulation 120mm
16. Cast-in-place concrete slab 130mm
17. Insulation 30mm
18. Sand-cement screed 40mm
19. Foundation beam
20. DPC foil





Façade construction (inside-outside)

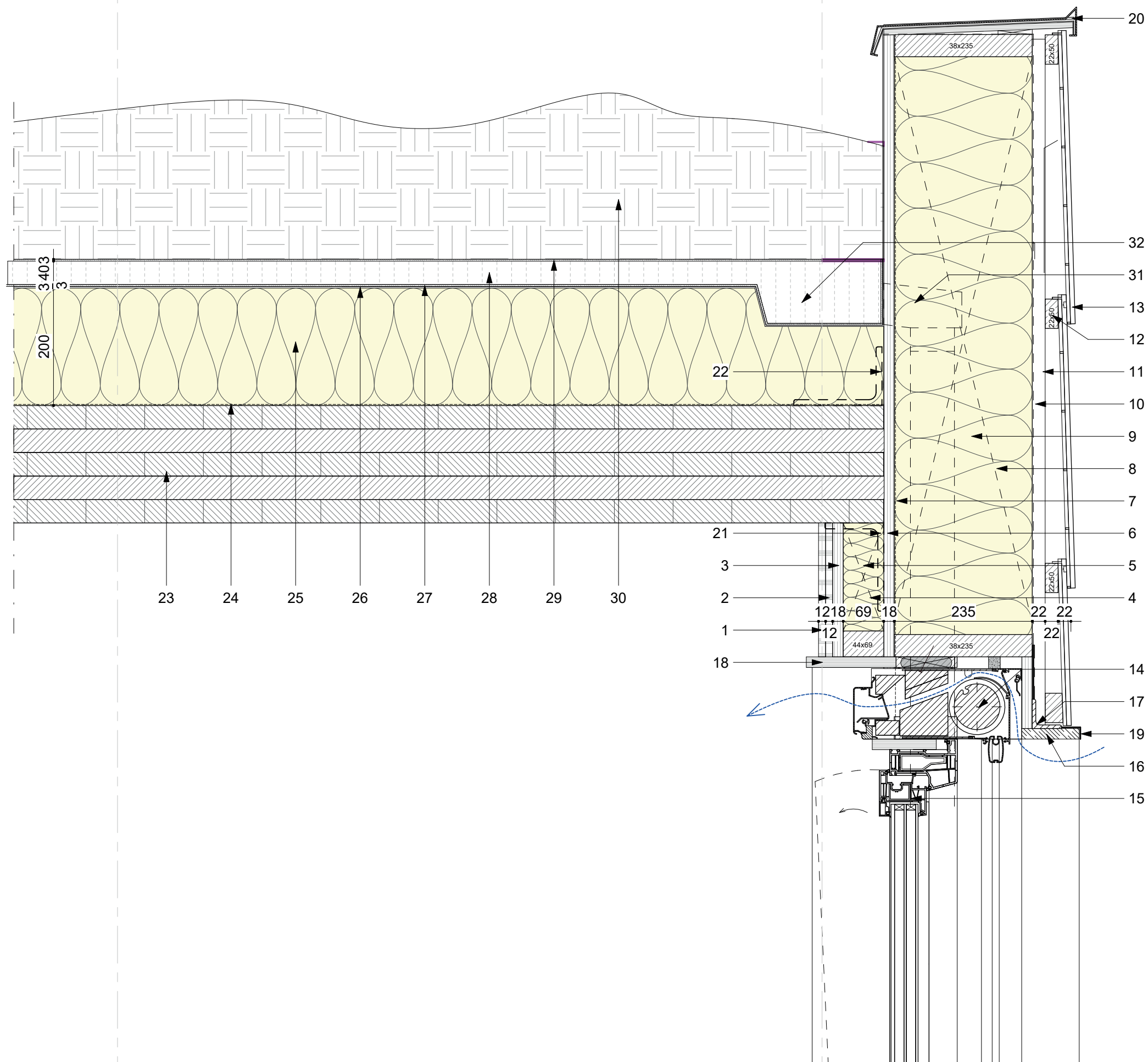
1. Gypsum board 12.5mm
2. Gypsum board 12.5mm
3. Plywood 18mm
4. Vapor control layer
5. Wooden studs 38x120mm
6. Insulation 120mm
7. Weather-resistant breathable membrane (WKDO foil)
8. Cavity 40mm
9. Pirouet brick 100mm
10. Wall tie
11. Ventilation opening
12. Reveal finish

13. Plywood 18mm
14. Vapor control layer
15. Wooden studs 38x285mm
16. Insulation 285mm
17. Weather-resistant breathable membrane (WKDO foil)
18. Cavity 40mm
19. Pirouet brick 100mm
20. Masonry support system
21. Wall tie
22. Lead alternative flashing

23. PVC window frame with hopper window
24. Support batten for window frame
25. Window sill flashing
26. Metal clamps
27. Anti-drumming foil

Floor construction (bottom to top)

28. Gypsum 12.5mm
29. Vapor control layer
30. Ceiling battens 22mm
31. Ceiling hangers
32. Insulation 96mm
33. CLT slab 200mm
34. Sylodyn 25mm
35. Insulation 95mm
36. Floor joists 95mm
37. Cavity 25mm
38. Fibreboard 22mm
39. Impact insulation 20mm
40. Fibreboard (floating) 22mm
41. Foam 3mm
42. Wood flooring 14mm
43. Steel angle



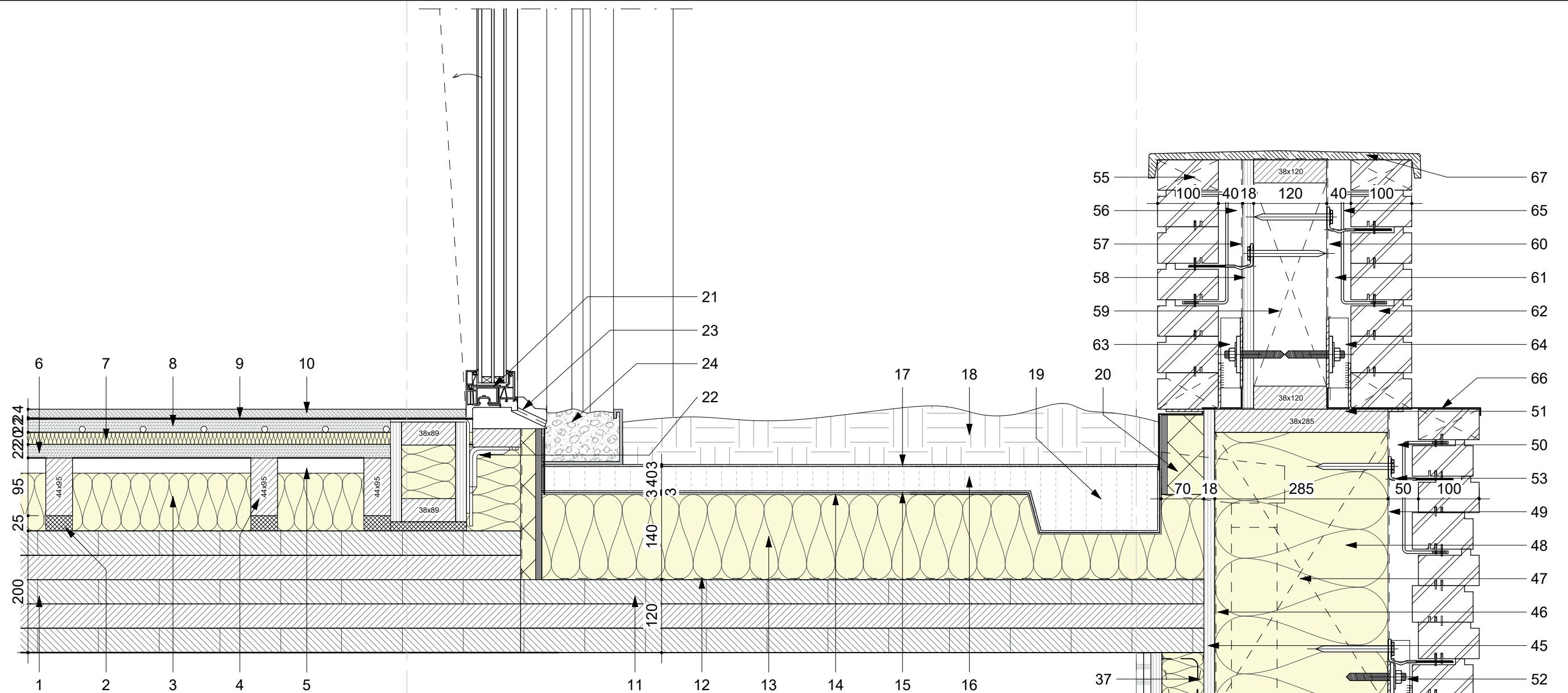
Façade construction (inside-outside)

1. Gypsum board 12.5mm
2. Gypsum board 12.5mm
3. Plywood 18mm
4. Wooden studs 44x69mm
5. Insulation 69mm
6. Plywood panel 18mm
7. Vapor control layer
8. Wooden studs 38x235mm
9. Insulation 235mm
10. Weather-resistant breathable membrane (WKDO foil)
11. Vertical battens 22mm
12. Horizontal counter battens 22mm
13. Pretty Plastics façade cladding 22mm

14. Solar screen with integrated ventilation grille
15. PVC window frame with hopper window
16. Reveal finish
17. Steel angle
18. Interior window reveal
19. Lead alternative flashing
20. Wall coping
21. Steel angle
22. Steel angle

Roof construction (inside to outside)

23. CLT roof slab 200 mm
24. Vapor control layer
25. Tapered insulation 200 mm
26. Roofing membrane 3mm
27. Root-resistant membrane 3mm
28. Drainage layer 40 mm
29. Geotextile filter fabric 3mm
30. Substrate layer (variable thickness)
31. Drain pipe
32. Gutter



Floor construction (inside to outside)

1. CLT slab 200mm
2. Sylodyn 25mm
3. Insulation 95mm
4. Floor joists 95mm
5. Cavity 25mm
6. Fibreboard 22mm
7. Impact insulation 20mm
8. Fibreboard (floating) 22mm
9. Foam 3mm
10. Wood flooring 14mm

Roof construction (inside to outside)

11. CLT roof slab 200mm
12. Vapor control layer
13. Tapered insulation 200mm
14. Roofing membrane 3mm
15. Root-resistant membrane 3mm
16. Drainage layer 40mm
17. Geotextile filter fabric 3mm
18. Substrate layer (variable thickness)
19. Gutter
20. Drain pipe

21. PVC window frame with tilt and turn window
22. Window bracket
23. DTS treshold
24. Gravel trench

Façade construction (inside-outside)

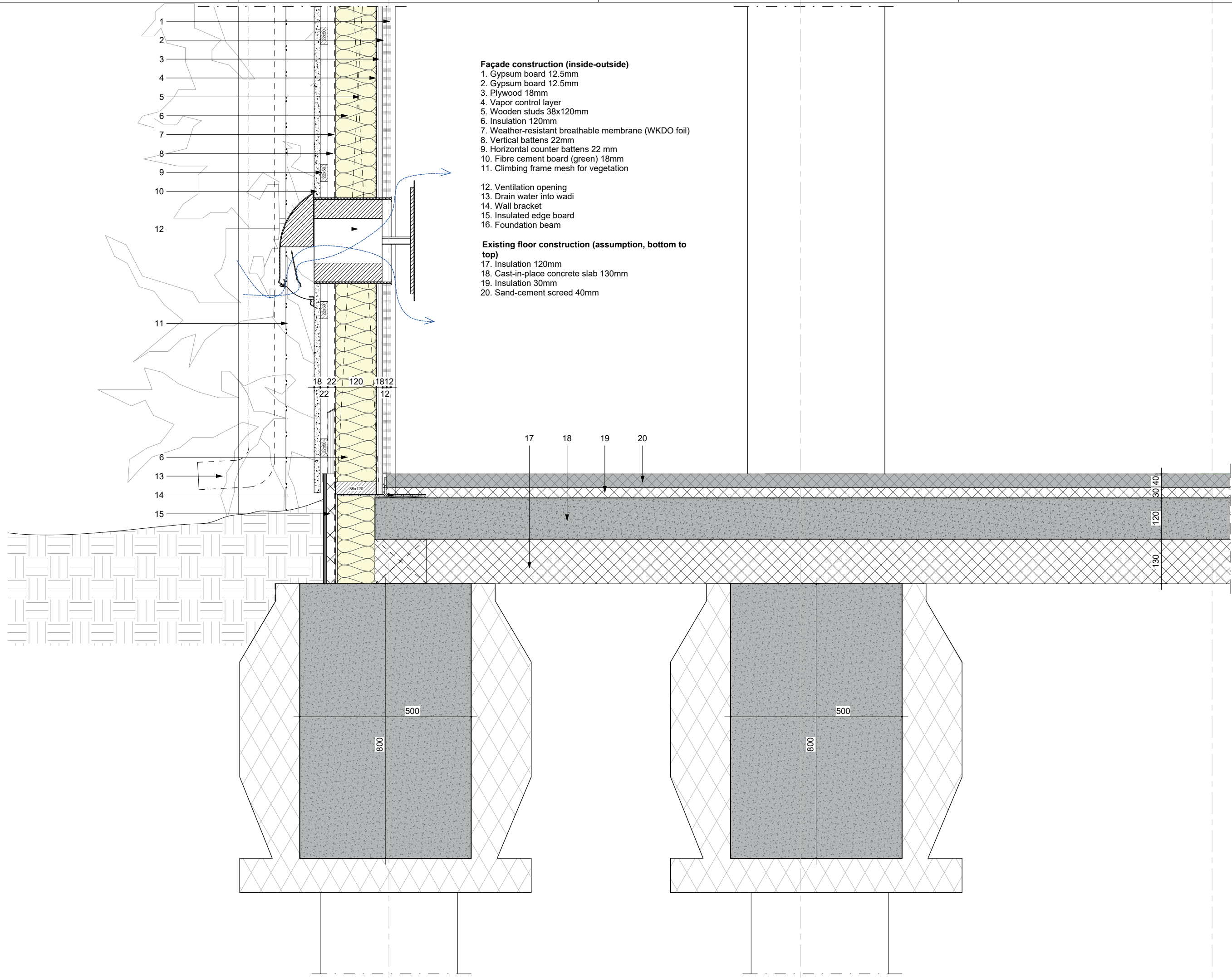
25. Gypsum board 12.5mm
26. Gypsum board 12.5mm
27. Plywood 18mm
28. Wooden studs 44x69 mm
29. Insulation 69mm
30. Plywood 18mm
31. Vapor control layer
32. Wooden studs 38x184 mm
33. Insulation 184mm
34. Weather-resistant breathable membrane (WKDO foil)
35. Cavity 40mm
36. Pirouet brick 100mm

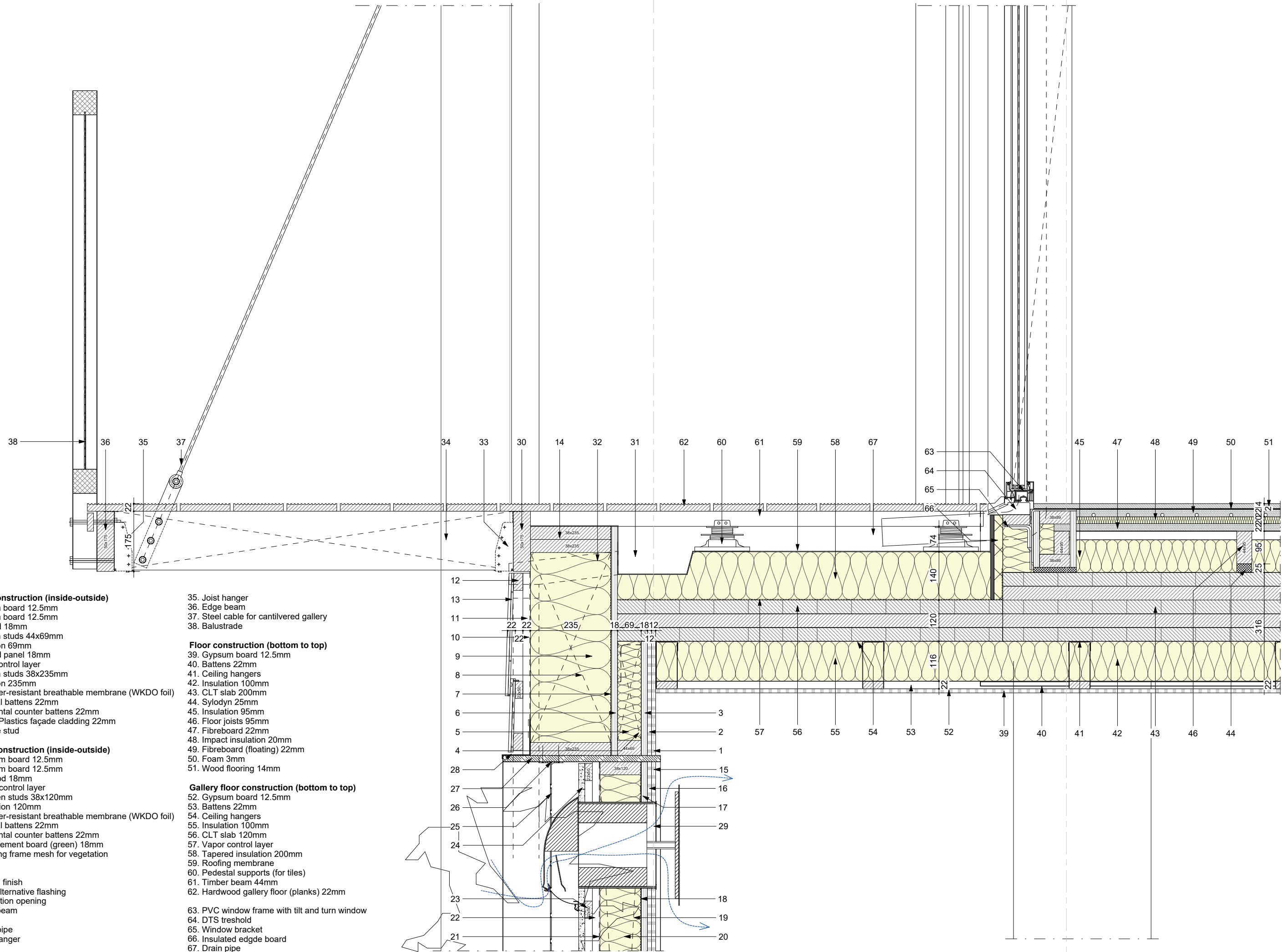
37. Steel angle
38. Wall tie
39. Masonry support system
40. Solar screen with integrated ventilation grille
41. PVC window frame with hopper window
42. Reveal finish
43. Interior window reveal
44. Lead alternative flashing

Façade construction (inside-outside)

45. Plywood 18mm
46. Vapor control layer
47. Wooden studs 38x285mm
48. Insulation 285mm
49. Weather-resistant breathable membrane (WKDO foil)
50. Cavity 40mm
51. Pirouet brick 100mm
52. Masonry support system
53. Wall tie
54. Lead alternative flashing

55. Pirouet brick 100mm
56. Cavity 40mm
57. Weather-resistant breathable membrane (WKDO foil)
58. Plywood 18mm
59. Wooden studs 38x120mm
60. Weather-resistant breathable membrane (WKDO foil)
61. Cavity wall 40mm
62. Pirouet brick 100mm
63. Masonry support system
64. Masonry support system
65. Wall tie
66. Lead alternative flashing
67. Wall coping





Façade construction (inside-outside)

1. Gypsum board 12.5mm
2. Gypsum board 12.5mm
3. Plywood 18mm
4. Wooden studs 44x69mm
5. Insulation 69mm
6. Plywood panel 18mm
7. Vapor control layer
8. Wooden studs 38x235mm
9. Insulation 235mm
10. Weather-resistant breathable membrane (WKDO foil)
11. Vertical battens 22mm
12. Horizontal counter battens 22mm
13. Pretty Plastics façade cladding 22mm
14. Double stud

Façade construction (inside-outside)

15. Gypsum board 12.5mm
16. Gypsum board 12.5mm
17. Plywood 18mm
18. Vapor control layer
19. Wooden studs 38x120mm
20. Insulation 120mm
21. Weather-resistant breathable membrane (WKDO foil)
22. Vertical battens 22mm
23. Horizontal counter battens 22mm
24. Fibre cement board (green) 18mm
25. Climbing frame mesh for vegetation

26. Clamp
27. Reveal finish
28. Lead alternative flashing
29. Ventilation opening
30. Edge beam
31. Gutter
32. Drain pipe
33. Joist hanger
34. Beam

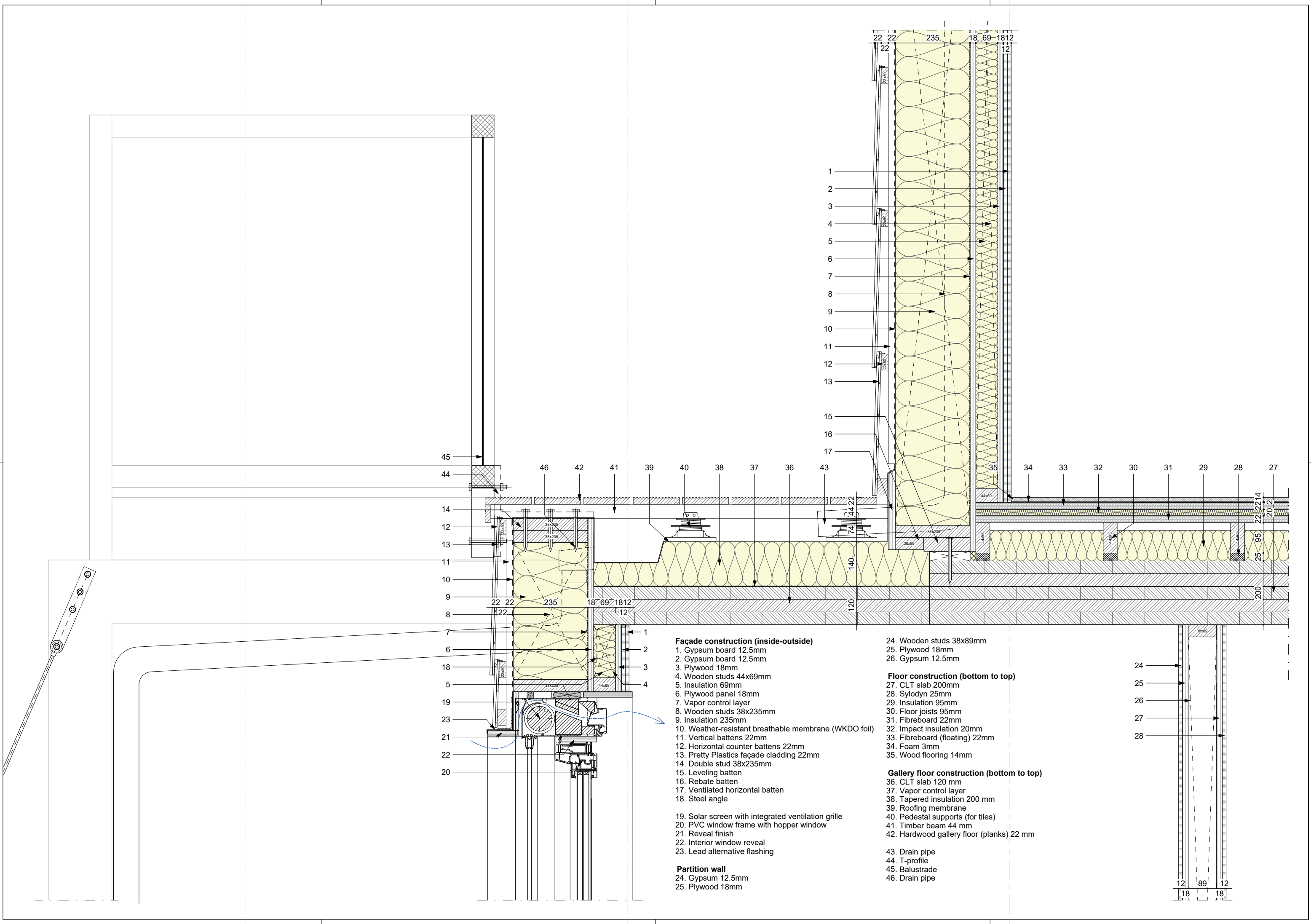
35. Joist hanger
36. Edge beam
37. Steel cable for cantilvered gallery
38. Balustrade

Floor construction (bottom to top)

39. Gypsum board 12.5mm
40. Battens 22mm
41. Ceiling hangers
42. Insulation 100mm
43. CLT slab 200mm
44. Sylodyn 25mm
45. Insulation 95mm
46. Floor joists 95mm
47. Fibreboard 22mm
48. Impact insulation 20mm
49. Fibreboard (floating) 22mm
50. Foam 3mm
51. Wood flooring 14mm

Gallery floor construction (bottom to top)

52. Gypsum board 12.5mm
53. Battens 22mm
54. Ceiling hangers
55. Insulation 100mm
56. CLT slab 120mm
57. Vapor control layer
58. Tapered insulation 200mm
59. Roofing membrane
60. Pedestal supports (for tiles)
61. Timber beam 44mm
62. Hardwood gallery floor (planks) 22mm
63. PVC window frame with tilt and turn window
64. DTS treshold
65. Window bracket
66. Insulated edge board
67. Drain pipe



Façade construction (inside-outside)

- 1. Gypsum board 12.5mm
- 2. Gypsum board 12.5mm
- 3. Plywood 18mm
- 4. Wooden studs 44x69mm
- 5. Insulation 69mm
- 6. Plywood panel 18mm
- 7. Vapor control layer
- 8. Wooden studs 38x235mm
- 9. Insulation 235mm
- 10. Weather-resistant breathable membrane (WKDO foil)
- 11. Vertical battens 22mm
- 12. Horizontal counter battens 22mm
- 13. Pretty Plastics façade cladding 22mm
- 14. Double stud 38x235mm
- 15. Leveling batten
- 16. Rebate batten
- 17. Ventilated horizontal batten
- 18. Steel angle
- 19. Solar screen with integrated ventilation grille
- 20. PVC window frame with hopper window
- 21. Reveal finish
- 22. Interior window reveal
- 23. Lead alternative flashing

Partition wall

- 24. Gypsum 12.5mm
- 25. Plywood 18mm

- 24. Wooden studs 38x89mm
- 25. Plywood 18mm
- 26. Gypsum 12.5mm

Floor construction (bottom to top)

- 27. CLT slab 200mm
- 28. Sylodyn 25mm
- 29. Insulation 95mm
- 30. Floor joists 95mm
- 31. Fibreboard 22mm
- 32. Impact insulation 20mm
- 33. Fibreboard (floating) 22mm
- 34. Foam 3mm
- 35. Wood flooring 14mm

Gallery floor construction (bottom to top)

- 36. CLT slab 120 mm
- 37. Vapor control layer
- 38. Tapered insulation 200 mm
- 39. Roofing membrane
- 40. Pedestal supports (for tiles)
- 41. Timber beam 44 mm
- 42. Hardwood gallery floor (planks) 22 mm

- 43. Drain pipe
- 44. T-profile
- 45. Balustrade
- 46. Drain pipe

1. Gypsum board 12.5mm
2. Gypsum board 12.5mm
3. Plywood 18mm
4. Wooden studs 44x69mm
5. Insulation 69mm
6. Plywood panel 18mm
7. Vapor control layer
8. Wooden studs 38x235mm
9. Insulation 235mm
10. Weather-resistant breathable membrane (WKDO foil)
11. Vertical battens 22mm
12. Horizontal counter battens 22mm
13. Pretty Plastics façade cladding
14. Steel angle
15. Wall coping

16. CLT roof slab 200mm
17. Vapor control layer
18. Tapered insulation 200mm
19. Roofing membrane 3mm
20. Root-resistant membrane 3mm
21. Drainage layer 40mm
22. Geotextile filter fabric 3mm
23. Substrate layer (variable thickness)
24. Drain pipe
25. Gutter

