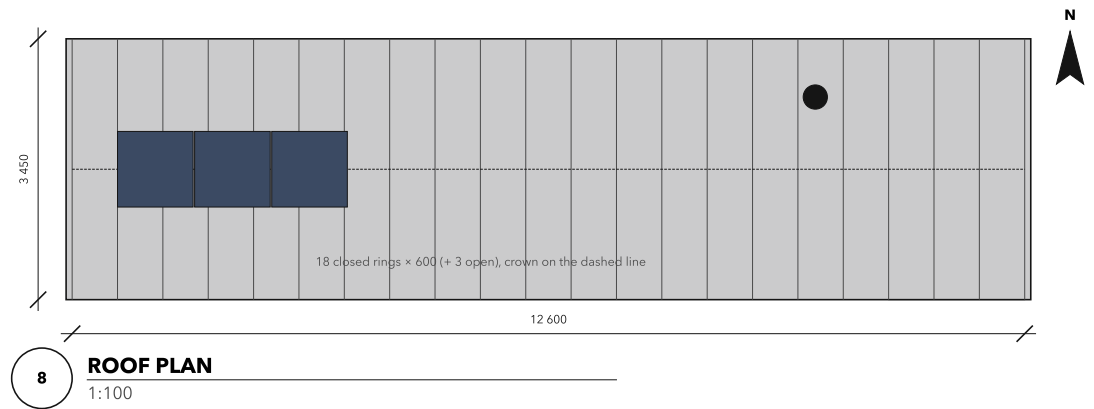
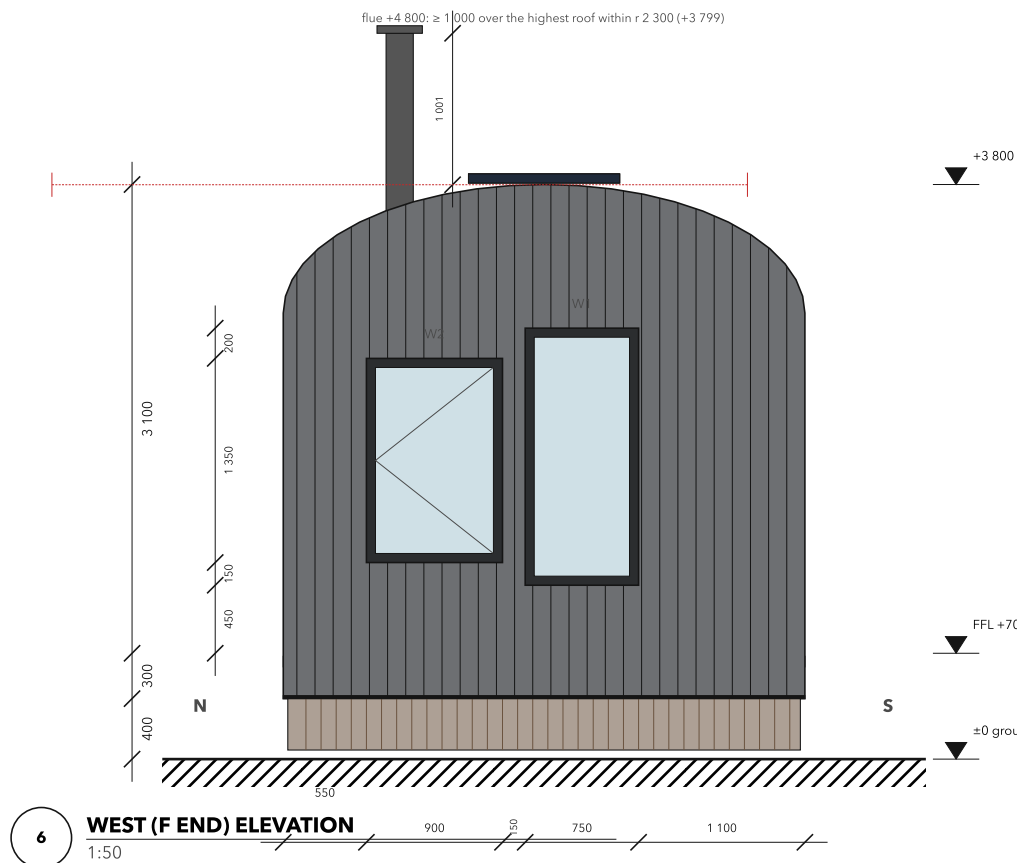
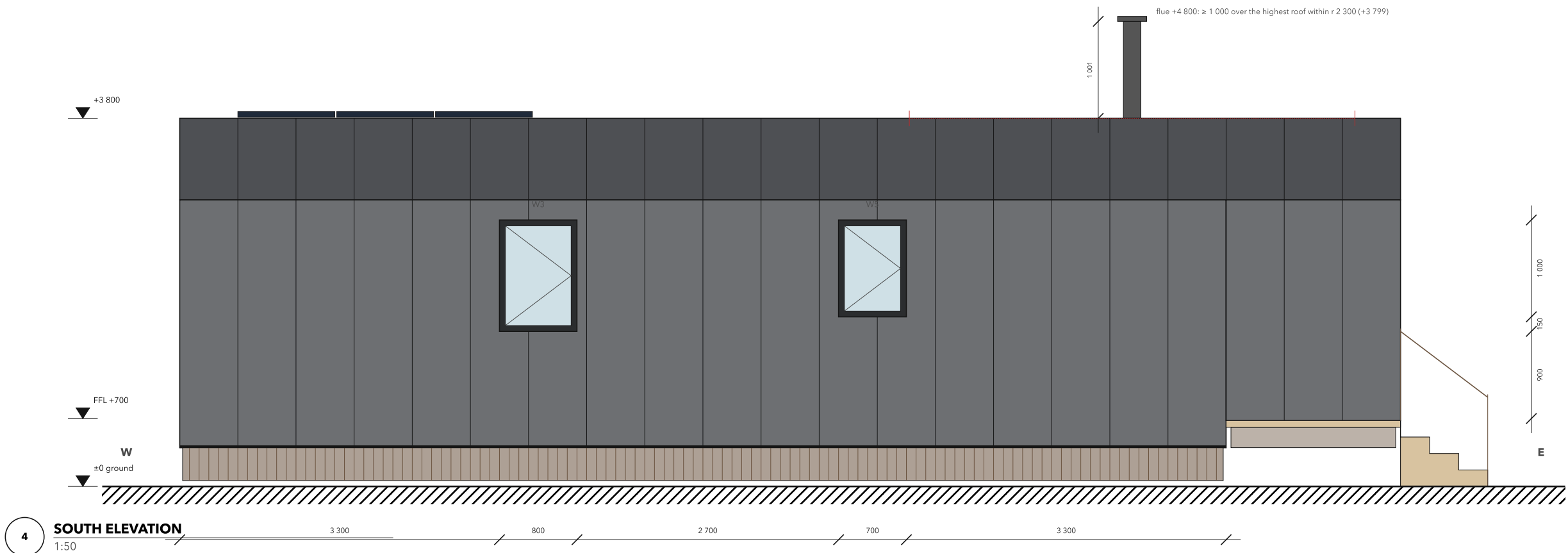


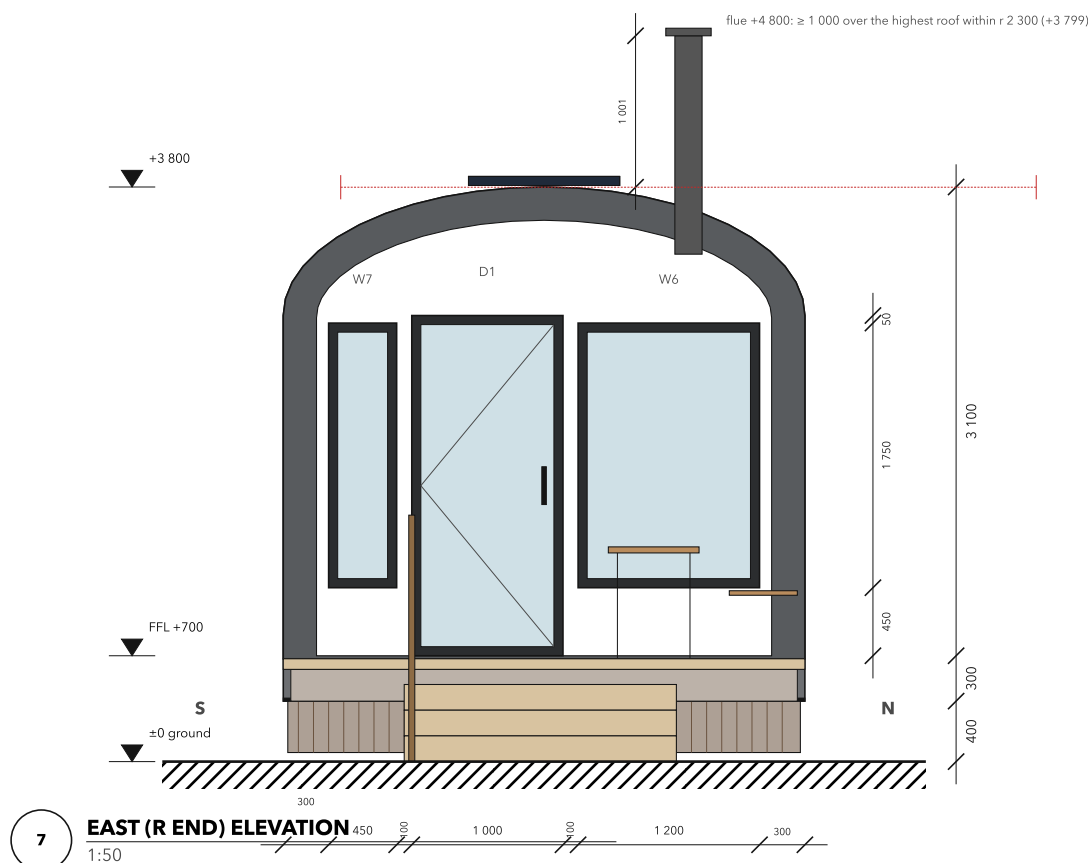
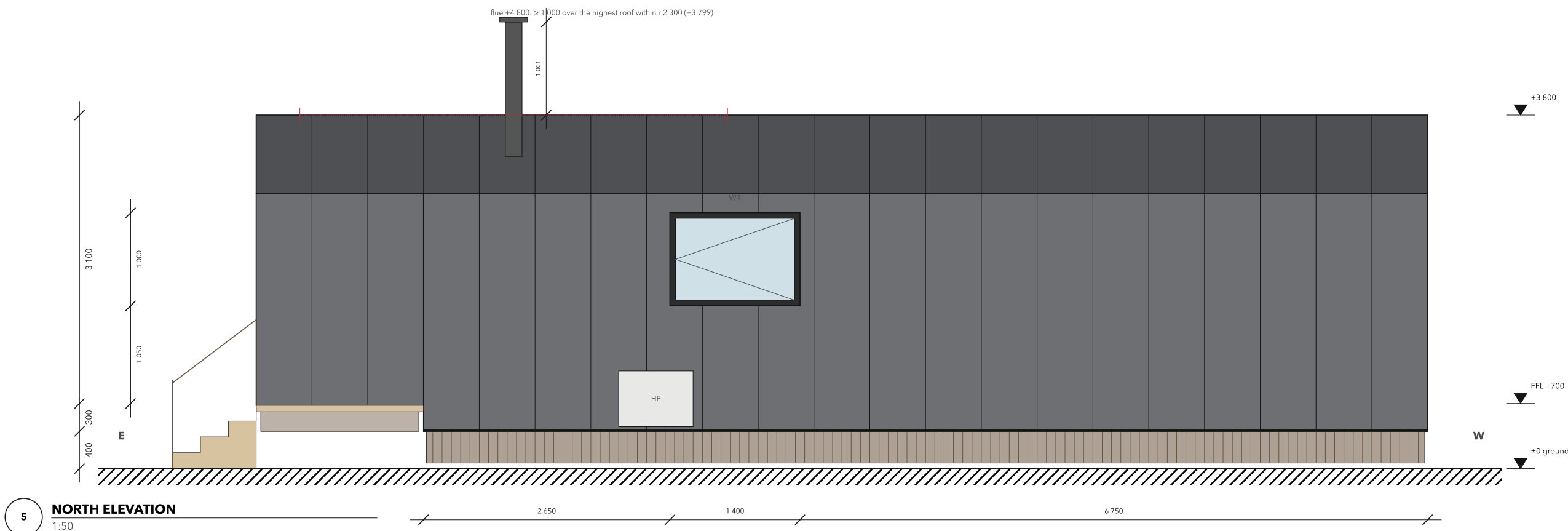


OPENING SCHEDULE

ID	Type	Wall	W x H	SH	Note	Sur
W1	fixed pane	F end	750 × 1 700	450	-	ext. blind
W2	tilt-turn window	F end	900 × 1 350	400	escape	ext. blind
W3	tilt-turn window	S	800 × 1 150	900	escape	ext. blind
W4	tilt-turn window	N	1 400 × 1 000	1 050	-	-
W5	tilt-turn window	S	750 × 1 000	1 050	-	ext. blind
D1	glazed door	R end	1 000 × 2 250	0	clear 880	porch roof
W6	fixed pane	R end	1 200 × 1 750	450	-	porch roof
W7	fixed pane	R end	450 × 1 750	450	-	porch roof

MATERIALS

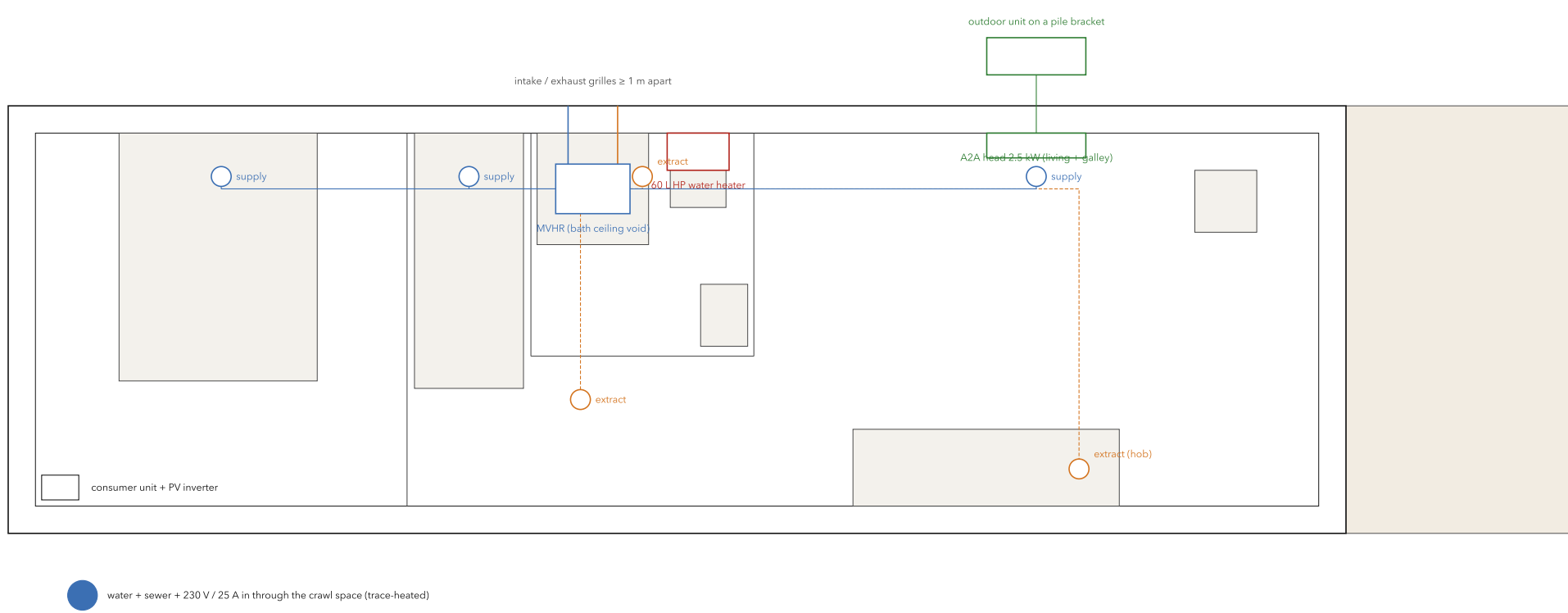
Graphite wrapped rings + larch ring battens	Oak end frames + joinery
Larch porch deck	Triple glazing, timber-alu



CONSTRUCTION, SERVICES, FIRE

- Shell 230** 18 closed + 3 open rings of 600; 10 fire-retardant birch ply lining (Euroclass B) / vapour-variable membrane (airtight, lets the kraft dry inwards) / 55 laminated recycled kraft ring (16 wrapped layers on a CNC mould; edges sealed, on the warm side / 120 foil-faced PIR 0.022) in two staggered layers over the ring joints / 22 wood-fibre sarking board / breathable, watertight roofing membrane (W), welded over every ring joint / 20 larch ring battens on clips, ventilated, Rc = 6.5 wall and roof (bridging by the clips DU 0.02 included; rings bolted M12 at 300 and glued; kraft laminate design values E 6 GPa, f_c 18 MPa, 520 kg/m³ (supplier data, to confirm by ring load test); each ring acts as a fixed arch on the edge beams, racking taken by the glulam end portals
- Floor 300** 15 oiled oak / 25 wood-fibre impact board / 22 ply / 220 C24 joists with PIR between, hung off two GL24 140 × 280 edge beams under the long walls, which bear on the screw-pile heads / 18 breather board, Rc = 5.0; crawl space 400, closed by a larch skin with insect mesh and vents
- Ends** two oak-framed glass ends; F 750 fixed + 900 tilt-turn escape window; R 1 000 glazed door (880 clear) + 1 200 and 450 fixed; a 120 glulam portal ring at each end carries the racking; the 3 open porch rings are braced as one 1.8 m portal and bolted to the last closed ring

- Services** all electric; 230 V / 25 A pitch hook-up; one air-to-air heat pump (2.5 kW, seasonal SCOP 3.5; outdoor unit on a pile-mounted bracket behind a larch louvre, on the outer wall behind the indoor head - see the services diagram); MHR (90 % recovery, 150 m³/h) in the bath ceiling; 40 L heat-pump water-heater wall-hung over the WC frame in the bath (air from the bath extract); recirculating cooler food with MHR extract 1.5 m from the hob; 1.2 kWp PV + 3 kW inverter, water and sewage to the campsite mains in trace-heated pipes
- Fire** wood stove 3.5 kW nominal (2-4.5 kW, DINplus), outside-air kit; twin-wall insulated flue Ø 150 terminating 1 000 above any roof surface within 2.3 m (and ≥ 1 000 above the own ridge; stayed above 1.5 m free length), dimensioned on the elevations; 300 side and 500 front clearance to combustibles, non-combustible hearth 500 in front; 30 CaSi heat shield on timber within 450; smoke + CO alarm in every room except the bath (heat detector there); extinguisher and fire blanket at the door
- Installation** craned in one lift per module with a 4-point spreader onto pre-set screw piles (Ø 76, 1.5-2.5 m, set to ±5 mm); edge beams bolted to the pile heads; porch, roof extensions and posts follow as a pre-cut kit in one day



16 SERVICES: VENTILATION, HEAT, WATER, POWER

1:50



HAVAAN

Trekkeershutten - static cabins on screw piles - design series 2026

Drawing Elevations, roof plan, openings, construction
Scale 1:50, roof plan 1:100 at A1, dimensions in mm
Date 2026-10-25
Status Concept design, rev. 3 - not for construction

Sheet

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CAD: build123d + mapiole, one spec (cad/hut)

HT-01

Ring