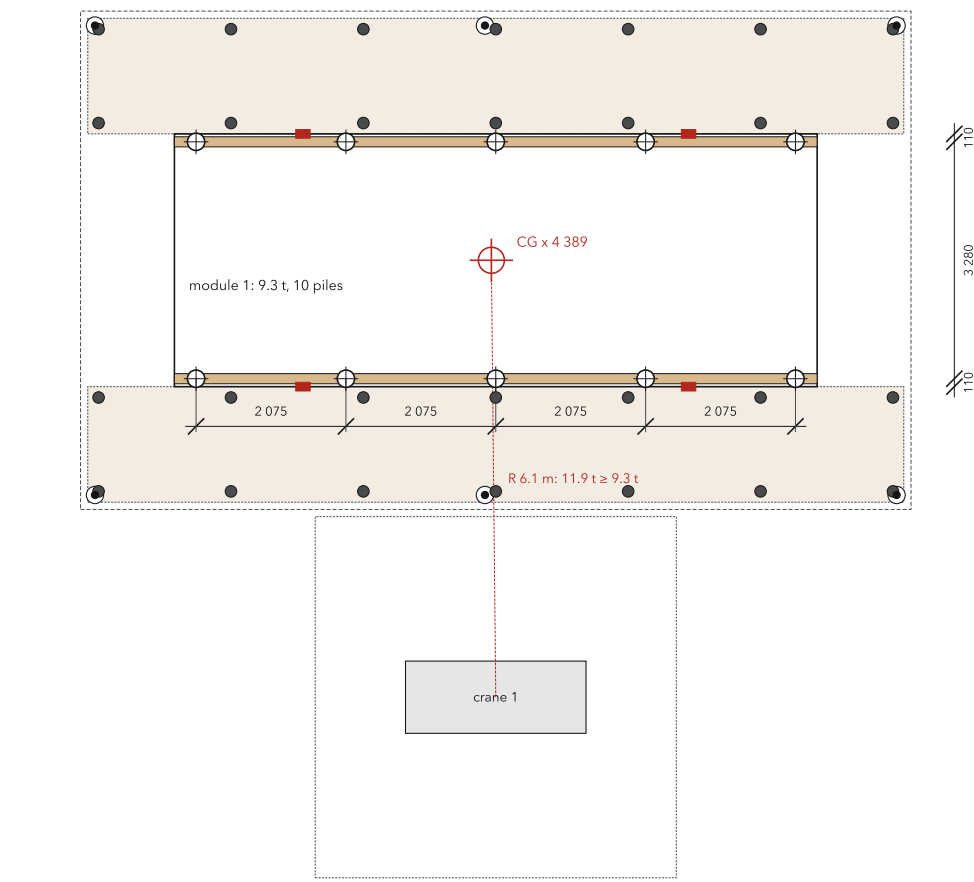
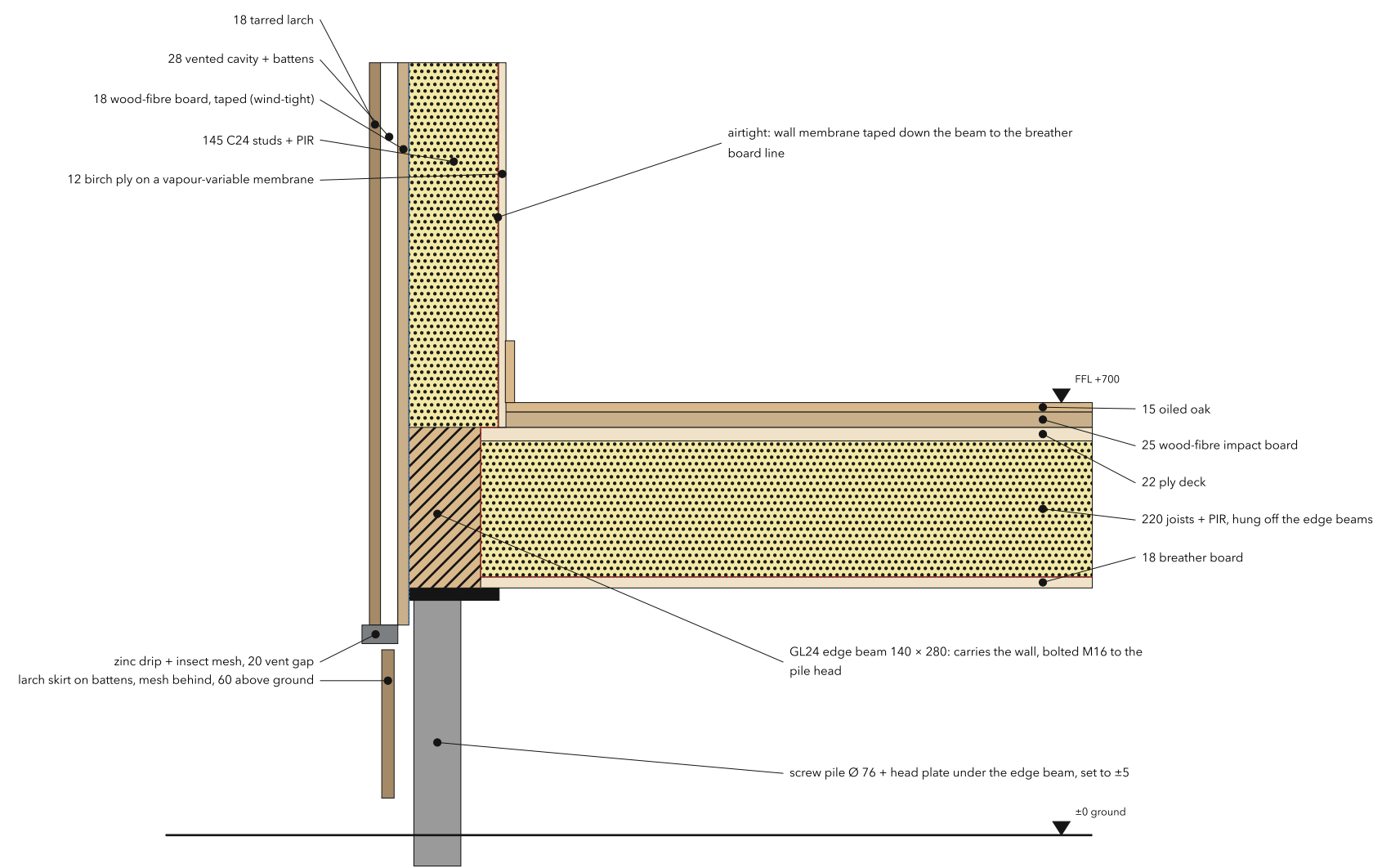
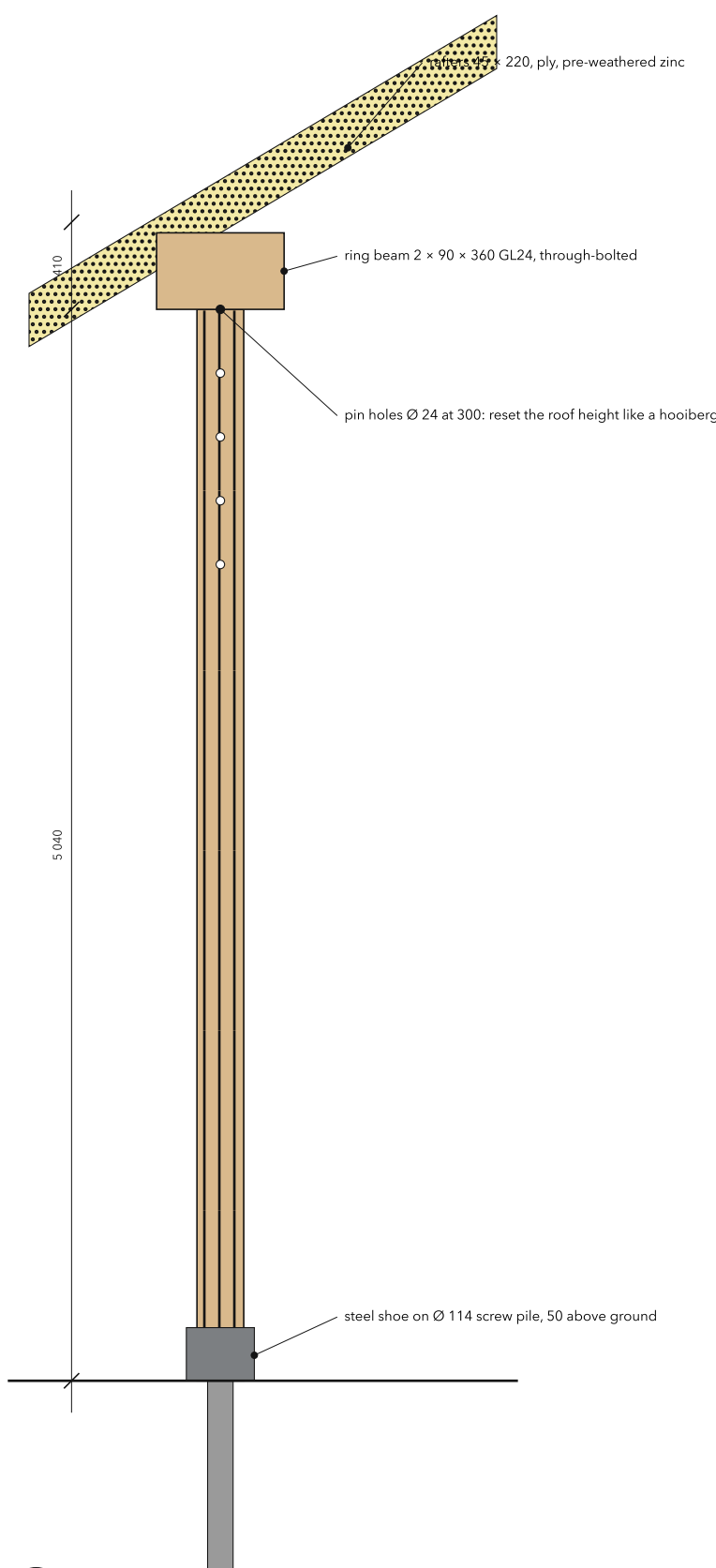




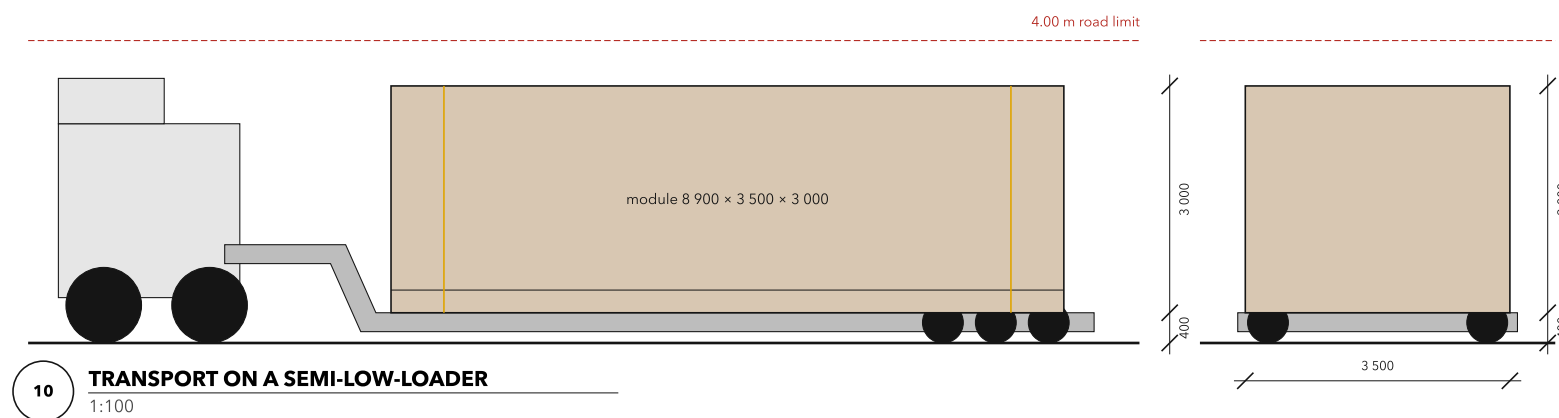
9 PILES, LIFTING POINTS, CRANE SET-UPS  
1:105



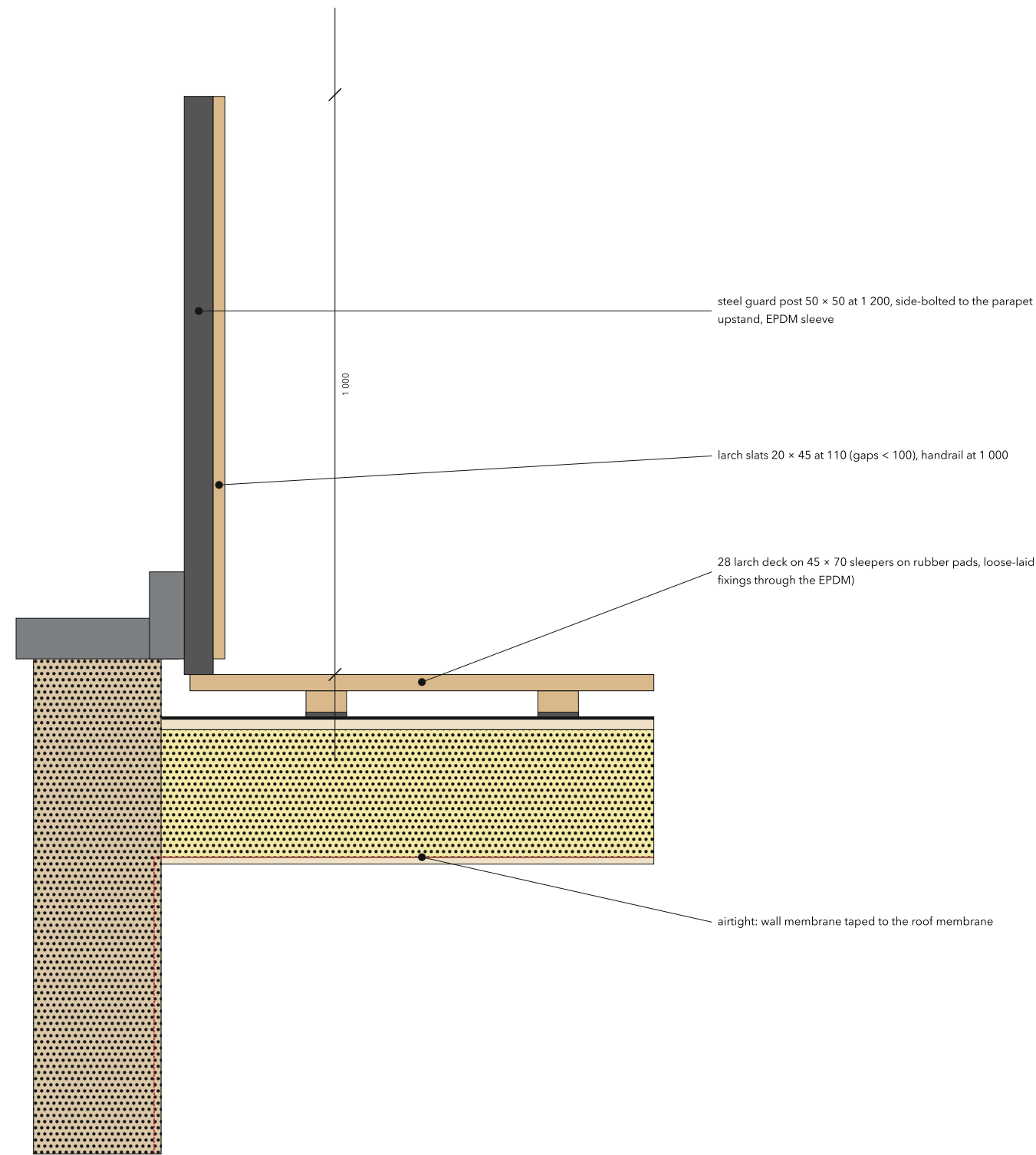
11 WALL FOOT, FLOOR, PILE  
1:10



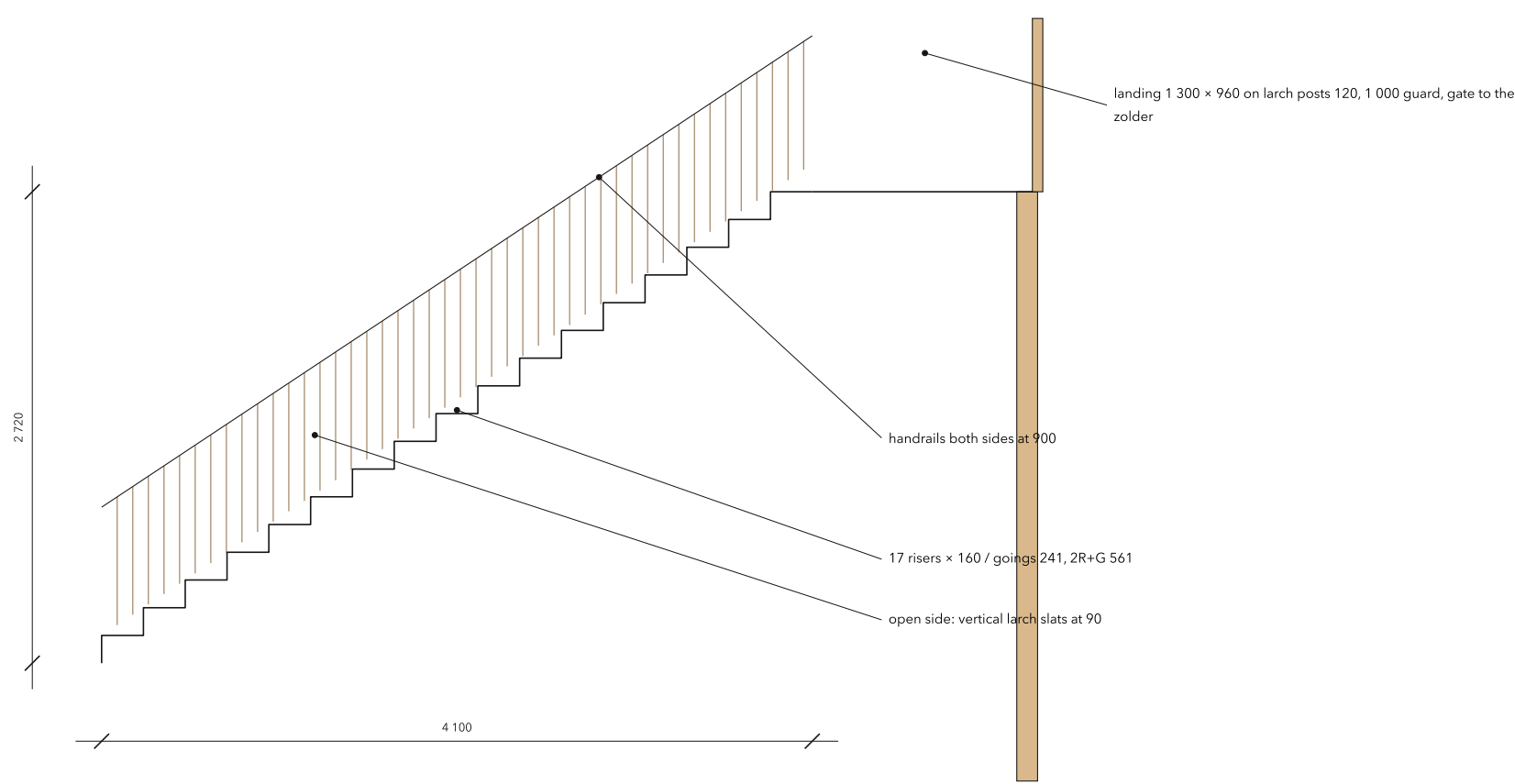
13 HOOIBERG POST, RING BEAM AND PINS  
1:33



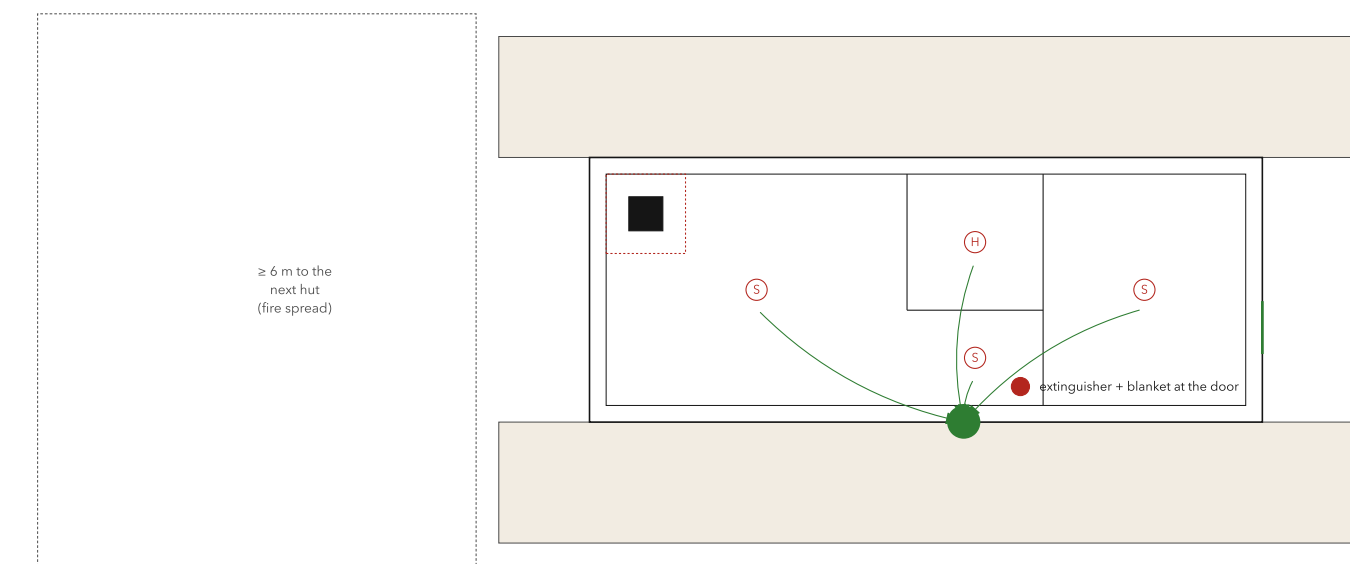
10 TRANSPORT ON A SEMI-LOW-LOADER  
1:100



12 ZOLDER EDGE: DECK, GUARD, PARAPET  
1:10



14 ZOLDER STAIR, SECTION  
1:40



15 FIRE SAFETY AND ESCAPE  
1:100

#### LIFT MASS, ITEMISED

| Group                       | Mass            |
|-----------------------------|-----------------|
| Floor cassette              | 1 807 kg        |
| Walls                       | 3 009 kg        |
| Roof                        | 1 620 kg        |
| Glazing + doors             | 375 kg          |
| Kitchen                     | 230 kg          |
| Bathroom                    | 125 kg          |
| Stove                       | 125 kg          |
| Beds + seating              | 238 kg          |
| Joinery                     | 391 kg          |
| Services                    | 412 kg          |
| Linen + kit                 | 94 kg           |
| Lifting                     | 60 kg           |
| Contingency 10%             | 848 kg          |
| <b>Total lift, module 1</b> | <b>9 333 kg</b> |

#### BUILDING PHYSICS (CONCEPT)

|             |                                                                                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Areas       | walls 63 m <sup>2</sup> , roof 31 m <sup>2</sup> , floor 31 m <sup>2</sup> , glazing 11.7 m <sup>2</sup> (45 % of the floor)                                                                                                                    |
| Heat loss   | H <sub>L</sub> 39.7 W/K (incl. ΔU 0.05 for bridged) + H <sub>L,V</sub> 3.4 W/K = 42.1 W/K (20 / -10 °C) = 1.26 kW                                                                                                                               |
| Demand      | = 1 760 kWh/yr space heat, = 68 kWh/m <sup>2</sup> -yr; heat pump SCOP 3.5 → = 503 kWh electricity                                                                                                                                              |
| Supply      | air-to-air heat pump 2.5 kW covers the peak; stove 3.5 kW (turn-down 2 kW) is fired in the evening and in shoulder seasons, intermittently, with a 120 kg stone heat store round it; the heat pump does the base load; 2.4 kWh PV = 2160 kWh/yr |
| Overheating | glazing g 0.5, roof overhangs/porches on the sunny glass, MVR summer bypass = night purge via tilt windows                                                                                                                                      |

#### INSTALLATION SEQUENCE

|         |                                                                                                     |
|---------|-----------------------------------------------------------------------------------------------------|
| 1 site  | set screw piles to ±5 mm, services stubs to the module positions                                    |
| 2 lift  | 1 lift(s) with a 4-point spreader from the tracks; bolt slide, connect services in the crawl space  |
| 3 kit   | decks, posts and roof run-on/site roofs from a pre-cut kit; flues and stove after the roof is tight |
| 4 check | air test (n50 ≤ 1.0), flue inspection, smoke alarms, handover                                       |

#### LIFT CHECK

|        |                                          |
|--------|------------------------------------------|
| Crane  | 80 t-m truck crane, outriggers 5.0 x 5.0 |
| Radius | 6.1 m to the CG                          |
| Chert  | 11.9 t ± 9.3 t (76 %)                    |
| CG     | x 4.389 from F                           |
| Lugs   | 4 at 1 780 from the ends                 |

#### HAVAAN

Trekkeershutten - static cabins on screw piles - design series 2026

|         |                                                        |
|---------|--------------------------------------------------------|
| Drawing | Installation, junctions, signature details, fire, mass |
| Scale   | as noted at A1, dimensions in mm                       |
| Date    | 2026-10-25                                             |
| Status  | Concept design, rev. 3 - not for construction          |

Sheet

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CAD: build1234 + mapdata, one spec (cad/hut)

#### HT-04

Hooiberg