
TEK17 MODULES TECHNICAL SPECIFICATION
(modules with fixed walls and wooden facades cladding)
2018

The following description refers to the specification and furnishing of TEK10 type modules. Construction is based on a stable welded frame with fixed walls and PIR or MW sandwich panels walls. Individual modules can stand either side-by-side or stacked on top of each other in max 2 storeys.

TEK17 modules dimensions

W2990 x L7200 x H3380mm (two modules per one opentop wideload truck)
W2990 x L (7201-11000) x H3380mm (one module per one opentop wideload truck)

All measurements of modules can be easily adapted to customers wishes

If module is standing alone, or double, and it is enough only simple ventilation, inner height can be reduced to 2400mm (outside height 3000mm)

Weight per one module depends on exact module size and its equipment (usualy 5000-8000kg)

TEK17 modules construction

Frame construction	Prefabricated welded 3-4-5mm thick tailored special bended steel profiles Additional supporting steel beams in the middle of long walls 4 container corner castings No forklift pockets 4 built-in roof gutters 4 built-in drainage pipes Ø40mm Steel frame covered with 30-60 µm anticorrosive primer coating and 30-60 µm special atmospheric influence proof alkyd paint Steel frame color any by RAL Welding operations according to DIN 18800
Roof	0,50 mm thick zinc-coated steel sheets, double bonded with special gasket Horizontal load-bearing wooden beams Snow load: 2,5 kN (250 kg/m ²) 200mm PIR insulation Thermal conductivity value U= 0,11 (W/m ² K) 0,2 mm PVC vapour isolation film Ceiling: 12mm laminated chipboard, white color, emission class E1 Steam ventilation in roof
Outside walls	Steel frame color any by RAL Walls colors choice dependce on qunatity of modules, but has quite big range. Walls maded from 250mm MW sandwich panels (EI60) or 120 PIR sandwich panels (EI30). U value U= 0,144 (W/m ² K) Thermal conductivity value U= 0,144 (W/m ² K)

Floor	2,00 mm thick PVC flooring, reaction to fire class B2, wear class T, grey color PVC skirtings, grey color T/G sided 25 mm thick OSB panels, ready for class 2 wetrooms according to ENV 1995-1-1, emission class E1 220mm PIR insulation Thermal conductivity value $U= 0,1$ (W/m ² K) 0,2 mm PVC vapour isolation film 0,5 mm trapezoidal zinc-coated steel sheet Floor load 2,04 kN (200 kg/m ²)
Windows	PVC, 3 glass, almost any size Frame color white Thermal conductivity value $U= 0,8$ (W/m ² K) Sound reduction $R_w - 35$ dB Optional: fixed aluminium windows with EI30 fire resistance
Door	Any size aluminium door with PIR insulation Thermal conductivity value $U= 0,8$ (W/m ² K) Sound reduction $R_w - 31$ dB Almost all colors ASSA 565 door lock Optional: doors with EI30 or EI60 fire resistance
Electrical installation	ACC TO NORWEGIAN NEK400:2010 STANDARD (230V or 400V maintenance) 2 stationary outer built-in CE 32A sockets, IP 44 IP44 distribution box Circuit breakers: C32A, C16A, C16A, C10A Circuit leakage breaker 40mA Inner sockets with on-wall PVC covers for cables Light switch 10 AX, white color ; Double sockets with grounding, 230 V, 16 A, white color ; Luminescent 2x36W ceiling lamps, IP 65, clear hood Ceiling lamps cables covered in special hoses under the ceiling
Heating	0,5-2,0kW electric convector heaters with thermostat, IP24 Optional: floorheating 100W/m ²
Water heating	Electrical boilers 15-300L
Ventilation	Heat Recovery Ventilation (Recuperator/Balanced ventilation) assembled on site or miniRecuperator <i>Mitsubishi Electrics VL-100U</i> type for every room separately, fully installed in factory
Plumbing	Copper piping. VA with pressure adjusters, water boilers 15-300L. Fiber glass shower cabins; ceramic or stainless steel sinks. HC wet rooms.
Requirements for foundations	Concrete made. At least 8 pillars for foundations needed Strip foundations or concrete plates is also a welcome option Foundations must be well ventilated and adapted to the local climate conditions (soil structure, ground freeze depth, etc.) and module loads. Only tide and smooth foundations guarantees proper installation and operation of modules.

Lifting

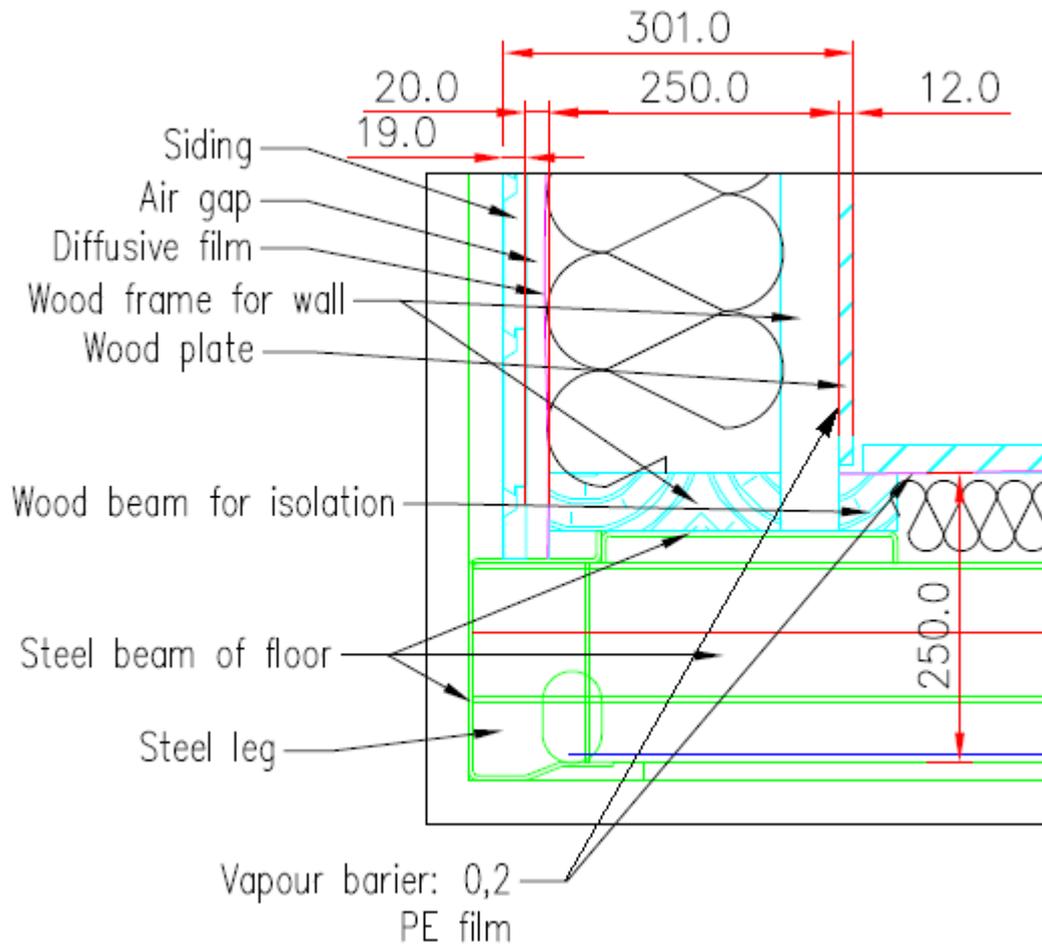
Only crane might be used

Crane must use 4 lifting slings with at least 60⁰ degrees angle between roof and sling.

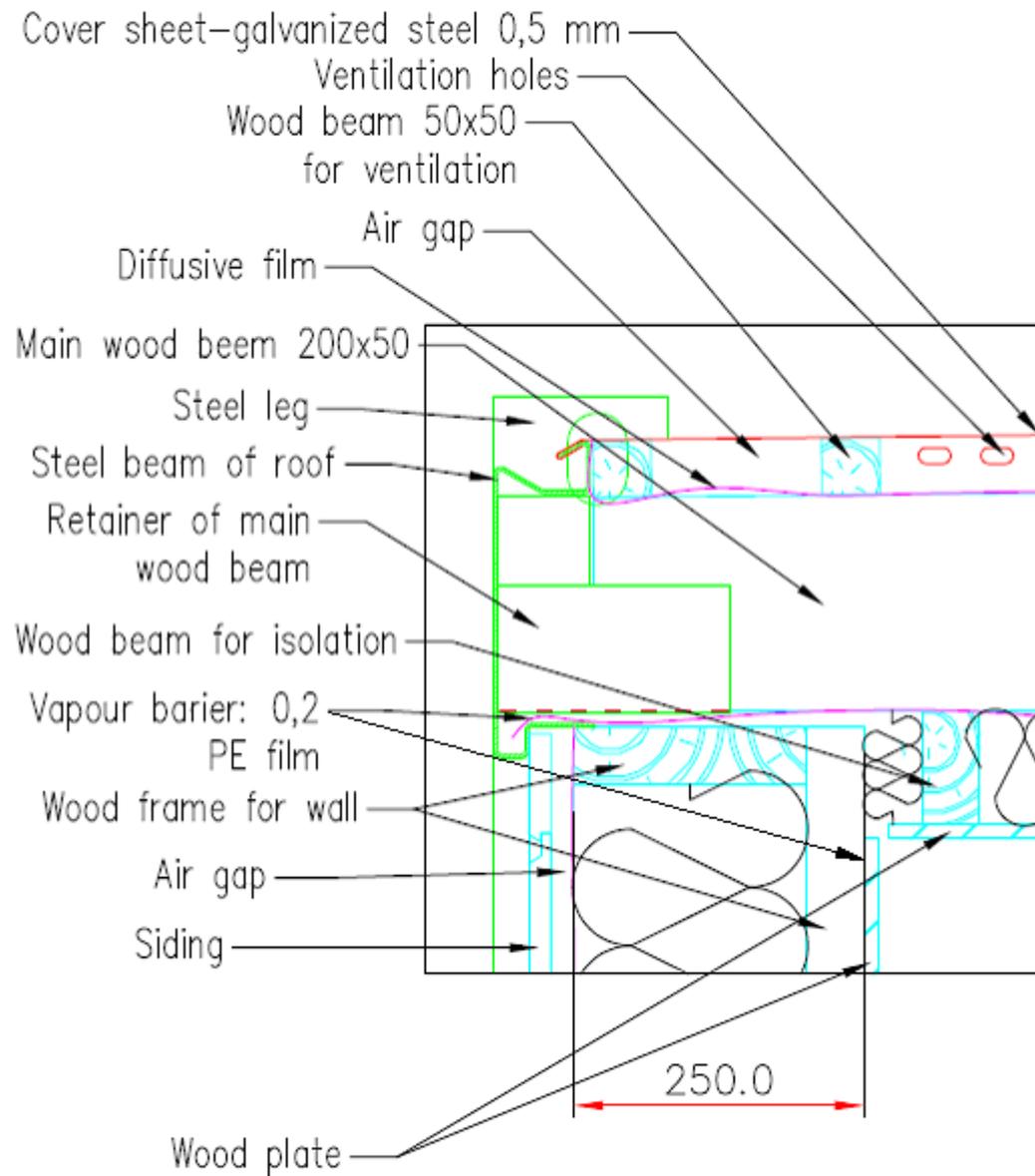
When loading or unloading modules from truck, lifting a single module at a time is required.

CROSSDRAWINGS

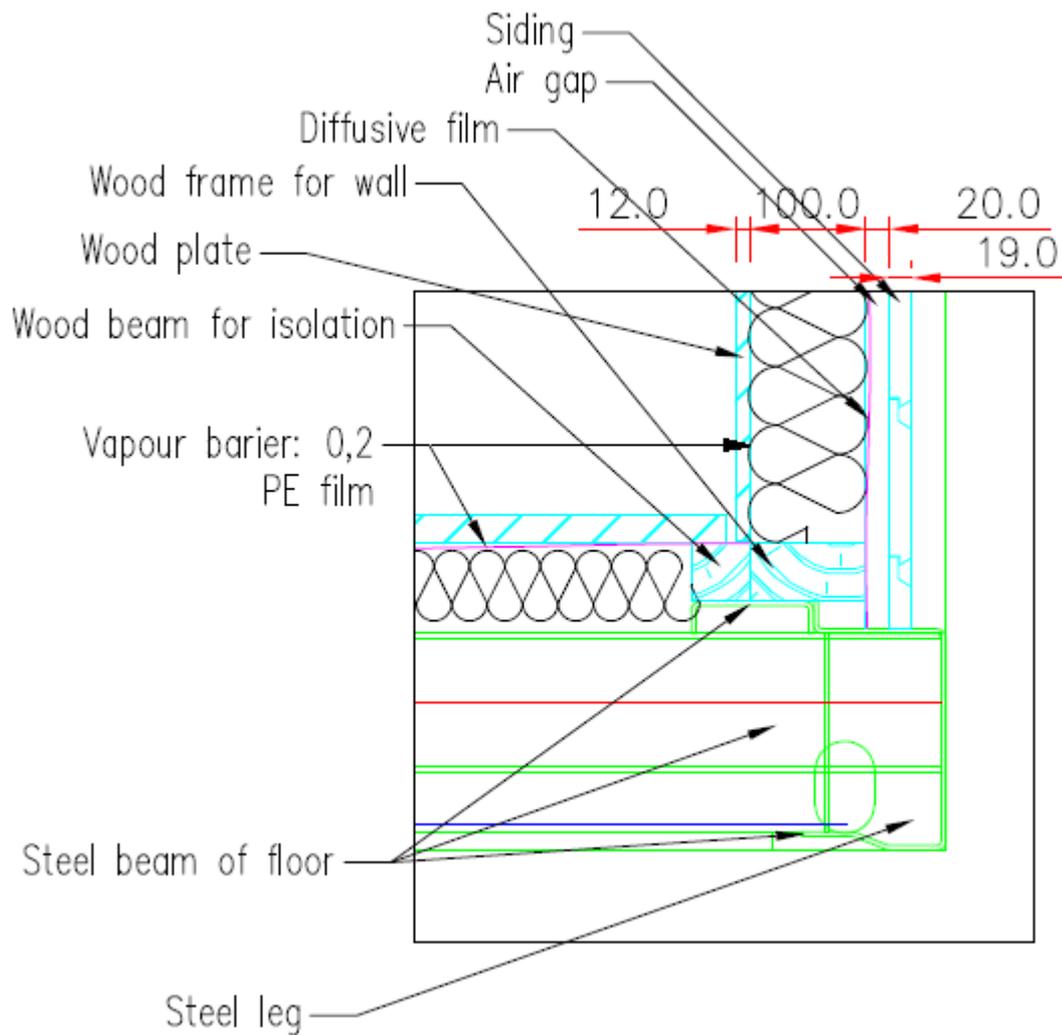
LOWER CORNER (outer wall and floor)



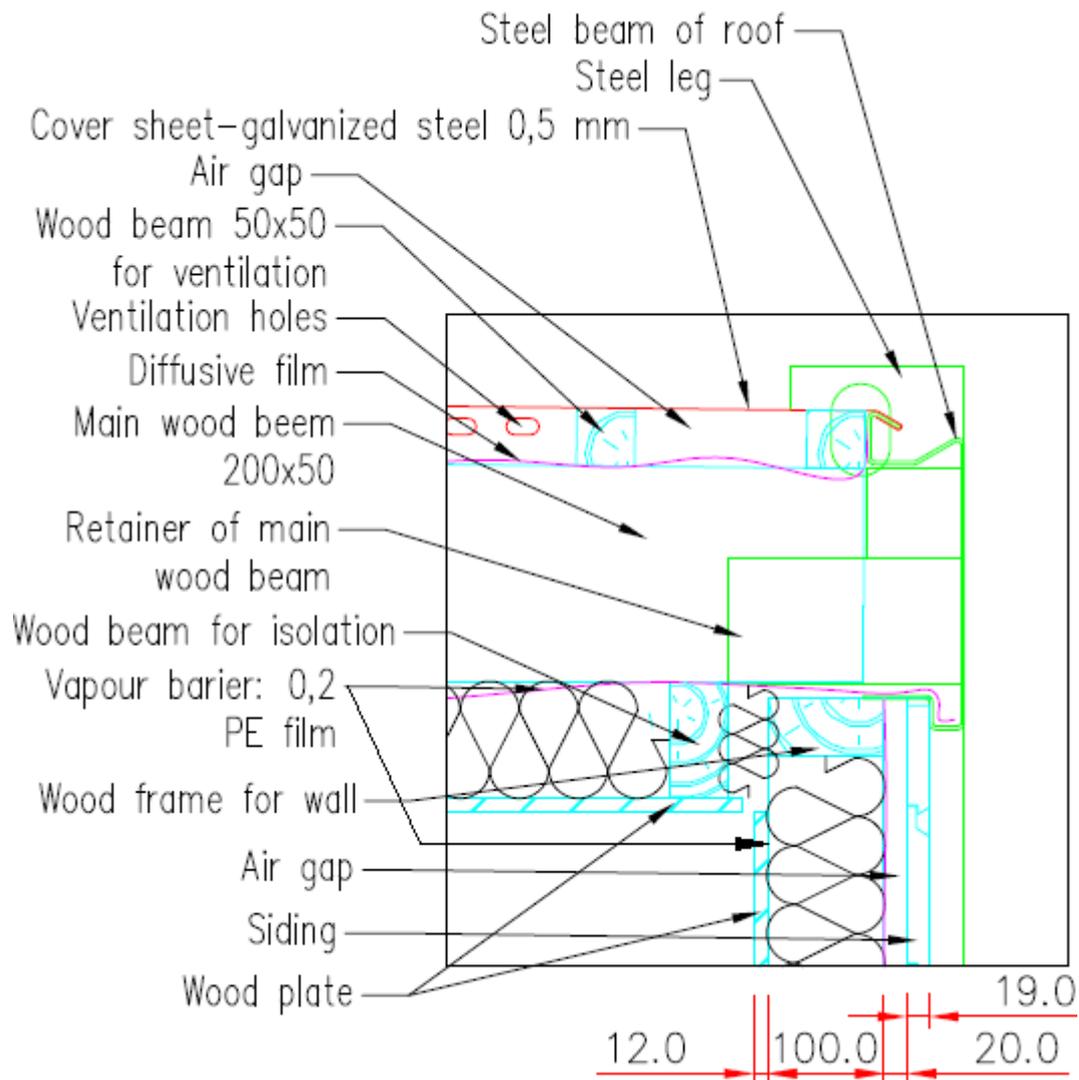
UPPER CORNER (outer wall and roof)



LOWER CORNER (inner wall and roof)



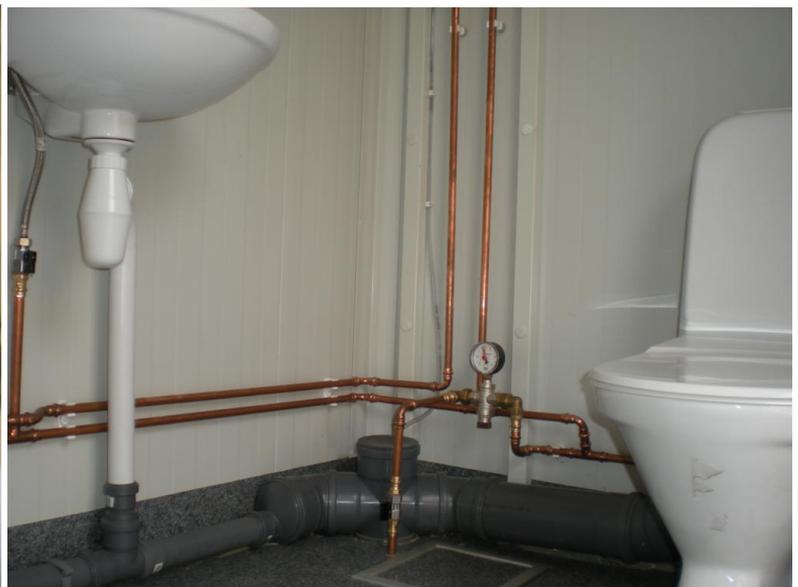
UPPER CORNER (inner wall and roof)



SAMPLE PICTURES

UAB „RYTERNA Modul“, Agronomijos st. 45, LT-47480 Kaunas, Lithuania
Company code: 302929565; VAT code: LT100007343115
Bank account: SEB bank, bank code 70440, IBAN LT81 7044 0600 0786 5728
SWIFT: CBVILT2X, Tel.: +370 37 491016. Fax.: +370 37 490044

RYTERNA MODUL



WARRANTY CONDITIONS

1.1 The Supplier provides the warranty for the container construction in the length of 24 months after the delivery date, unless the subject of the contract is located in the aggressive environment.

1.2 All other parts, devices, built-in components, paintwork are covered by the manufacturer's warranty up to 18 months after the delivery date

1.3 The Supplier shall not be liable for any damages or defects caused by the following:

- * unprofessional handling
- * unprofessional assembly by the Customer or third person authorized by the Customer
- * improper treatment or maintenance
- * non-compliance with operation manual
- * vandalism
- * force majeure

1.4 The Supplier shall not be liable for any damages caused by latent defects originated from the following:

- * improperly laid foundations
- * unventilated foundations (the air does not circulate under the container(s))
- * increased air humidity in the container(s)
- * reasons stated in the section 1.3

1.5 The Customer shall make available for the Supplier all documents as might be necessary for defects claimed. These specifically include reservations to the delivery recorded in the delivery note, photos to the reported defects, etc. In case the documents handed over to the Customer do not clearly show the defects reported, and unless otherwise agreed by and between the Customer and the Supplier, the Supplier shall assess the defects at the site. If the claim is unjustified, the Customer shall be charged all costs related to the travel to the place of delivery and works.

1.6 The Customer shall not remove the defects without an agreement with the Supplier. If the Customer removes the defects, such repair must be approved by the Customer in advance (cost estimation, technical solution, etc.). Otherwise the costs of repair shall be rejected by the Supplier.

1.7 The warranty for repair works performed by the Customer as well as the warranty for damages caused by such repair shall be assumed by the Customer.

1.8 In case of claims, where the parties fail to reach an agreement upon the cause, the parties shall agree ad hoc upon the method of removal as well as the coverage of thus incurred costs. All unjustified claims or repair works, which are not covered by the warranty, shall be redone by the Supplier under a new contract.

1.9 The Parties shall make their best to resolve all discrepancies arisen herefrom by a mutual agreement. The parties agreed upon the Lithuanian law as the governing contract law, the jurisdiction shall appertain to the court in Kaunas.