

Timber Frame Wall (outside to inside):

Visible battens (ventilated, Siberian larch)	60mm/30mm
Horizontal battens	60mm/30mm
Vertical battens	60mm/30mm
Black facade membrane	
Wood fiber insulation board	100mm
Timber frame with intermediate insulation	200/120mm
OSB board	13mm
Installation layer	60mm
OSB board	13mm
Gypsum board	12.5mm

Polycarbonate Wall (outside to inside):

Polycarbonate (10 chambers)	50mm
Air space	285mm
- Substructure for polycarbonate double wall	50mm/30mm
- Support (steel round pipe)	150mm diameter
- Internal drainage pipe	100mm diameter
Polycarbonate (6 chambers)	30mm

Roof Structure (top to bottom):

Prefabricated concrete slabs 1m x 1m	40mm
Fine gravel bed	50mm
Coarse gravel bed	180mm
Vegetation layer	90mm
OptiGrün drainage and water storage element FKD 25	25mm
Root protection fleece	
BauderPlant E elastomer bitumen welding membrane (root-resistant)	
Bauder elastomer bitumen cold self-adhesive membrane	
Sloped insulation	180mm
Thermal insulation	200mm
Cross-laminated timber ceiling	200mm

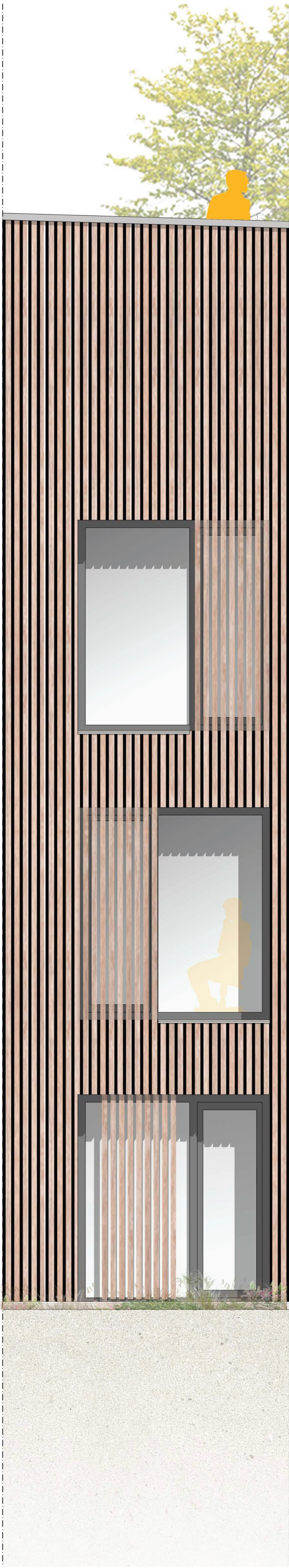
Floor Structure of the Upper Floor (top to bottom):

Oak parquet	20mm
Heating screed	60mm
Impact sound insulation	
Öffler tackable folding plate - WLG 045	30mm
Perlite fill	80mm
Cross-laminated timber ceiling	200mm

Floor Structure of the Ground Floor (top to bottom):

Oak parquet	20mm
Heating screed	60mm
Impact sound insulation	
Öffler tackable folding plate - WLG 045	30mm
Thermal insulation	65mm
Damp-proofing against rising ground moisture	
Reinforced concrete floor slab	200mm
Perimeter insulation	120mm
Lean concrete as a leveling layer	100mm

FS Facade Section 1:20



Hill in the Hills | Jannis Karle | Prof. Andreas Hammer