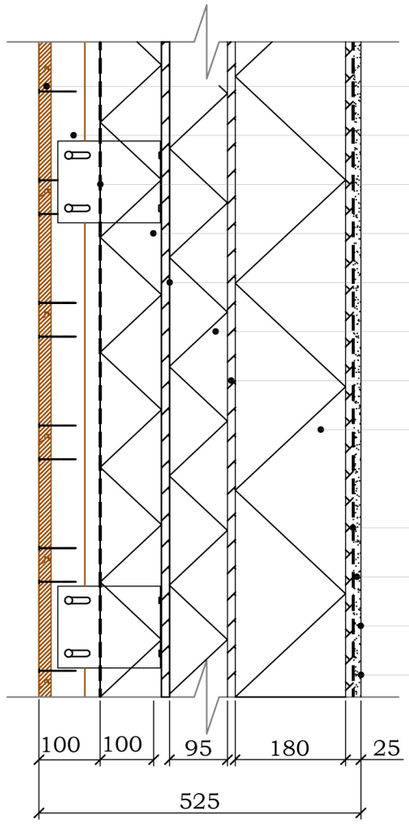
ANNEX 2
TECHNOLOGICAL DESIGN

SD - 01 Wall details
SD - 02 Concrete slabs
SD - 03 CLT slabs
SD - 04 CLT slab and partition

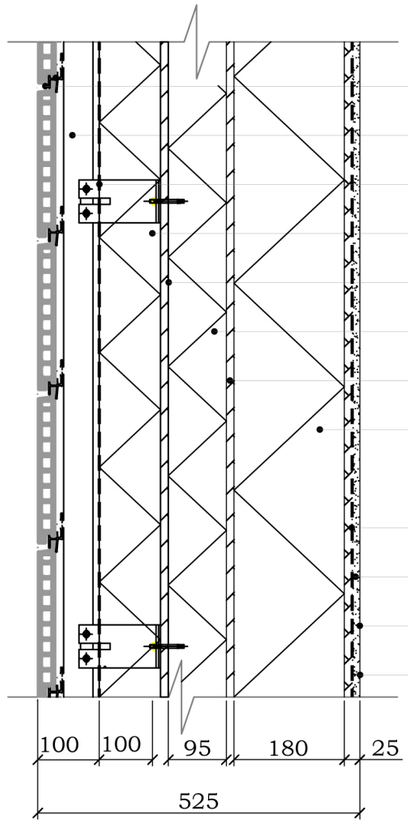
BU 01 - Connection of concrete and timber parts of the building
BU 02 - Cantilever and curtain wall
BU 03 - Loggias connection details

Course name: Architectural engineering	Timber in the city	Specification
Galina Ivanova 781019 Yanina Morozova 782942 Tatjana Somova 780521		Date: 25/11/13

A3



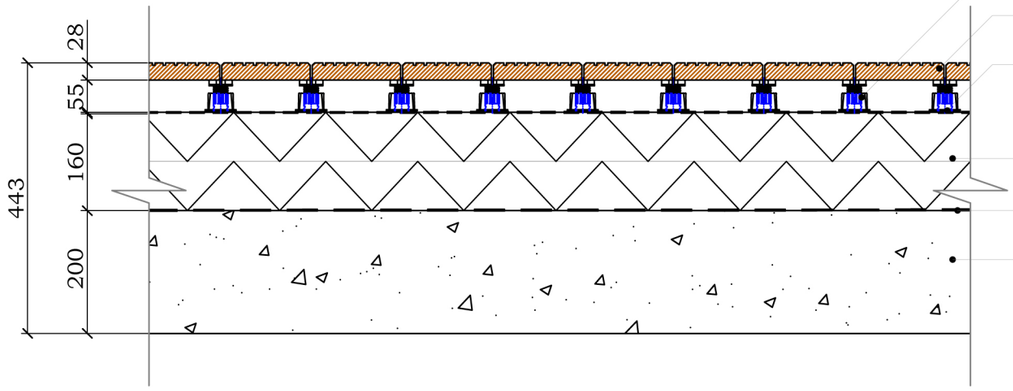
timber cladding	(ρ=300kg/m³, λ=0,10W/mK)
timber batten	(ρ=500kg/m³, λ=0,13W/mK)
TYVEK wind barrier	
polyurethane	(ρ=50kg/m³, λ=0,030W/mK)
plasterboard	(ρ=1500kg/m³, λ=0,16W/mK)
cork	(ρ=110kg/m³, λ=0,038W/mK)
plasterboard	(ρ=1500kg/m³, λ=0,16W/mK)
timber frame	(ρ=500kg/m³, λ=0,13W/mK)
fiber wood insulation	(ρ=50kg/m³, λ=0,038W/mK)
reinforcing panel	(ρ=1500kg/m³, λ=0,16W/mK)
vapor barrier	
plasterboard	(ρ=1500kg/m³, λ=0,16W/mK)
painting	



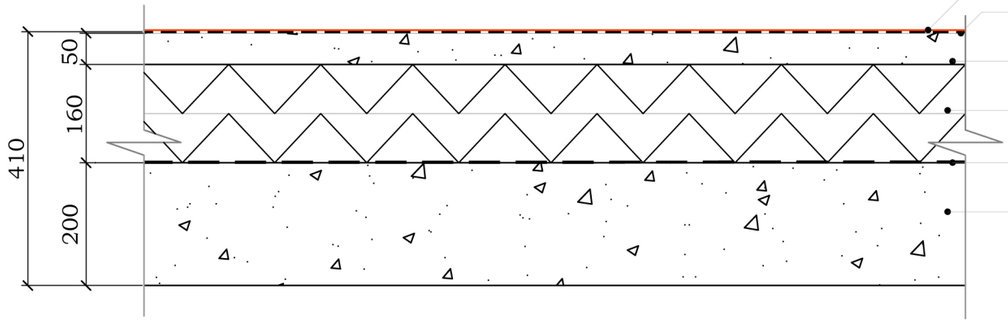
terracotta tiles	(ρ=2000kg/m³, λ=0,52W/mK)
extruded aluminum profile	
TYVEK wind barrier	
polyurethane	(ρ=50kg/m³, λ=0,030W/mK)
plasterboard	(ρ=1500kg/m³, λ=0,16W/mK)
cork	(ρ=110kg/m³, λ=0,038W/mK)
plasterboard	(ρ=1500kg/m³, λ=0,16W/mK)
timber frame	(ρ=500kg/m³, λ=0,13W/mK)
fiber wood insulation	(ρ=50kg/m³, λ=0,038W/mK)
reinforcing panel	(ρ=1500kg/m³, λ=0,16W/mK)
vapor barrier	
plasterboard	(ρ=1500kg/m³, λ=0,16W/mK)
painting	

Course name: Architectural engineering	Timber in the city	Wall details	
Galina Ivanova 781019 Yanina Morozova 782942 Tatjana Somova 780521		Date: 25/11/13	ID. no. : SD 01 Scale: 1 : 10

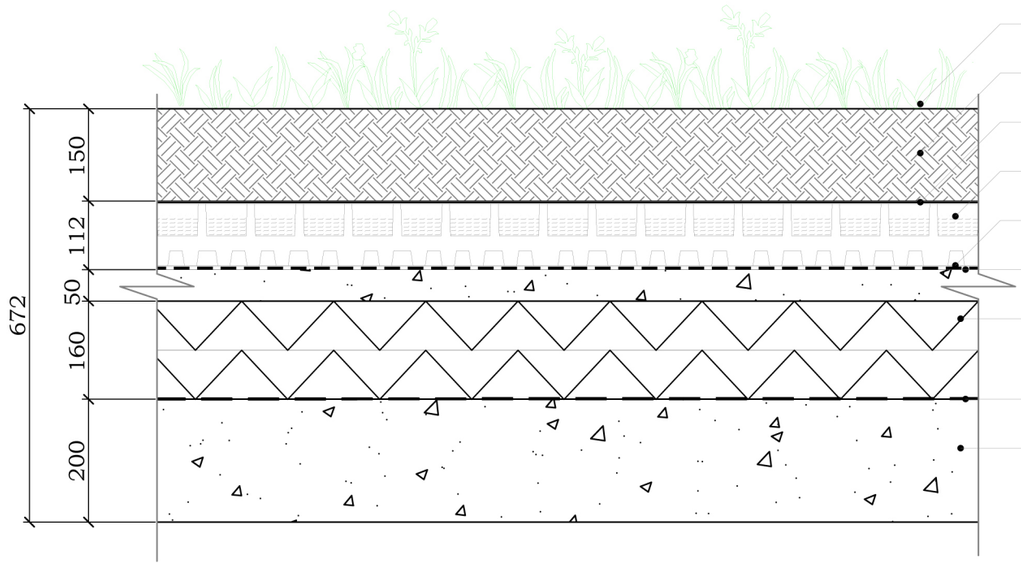
A3



adjustable paving support
timber decking tiles (ρ=1000kg/m³, λ=0,24W/mK)
waterproof membrane
expanded polystyrene (ρ=10kg/m³, λ=0,034W/mK)
waterproof membrane
concrete slab



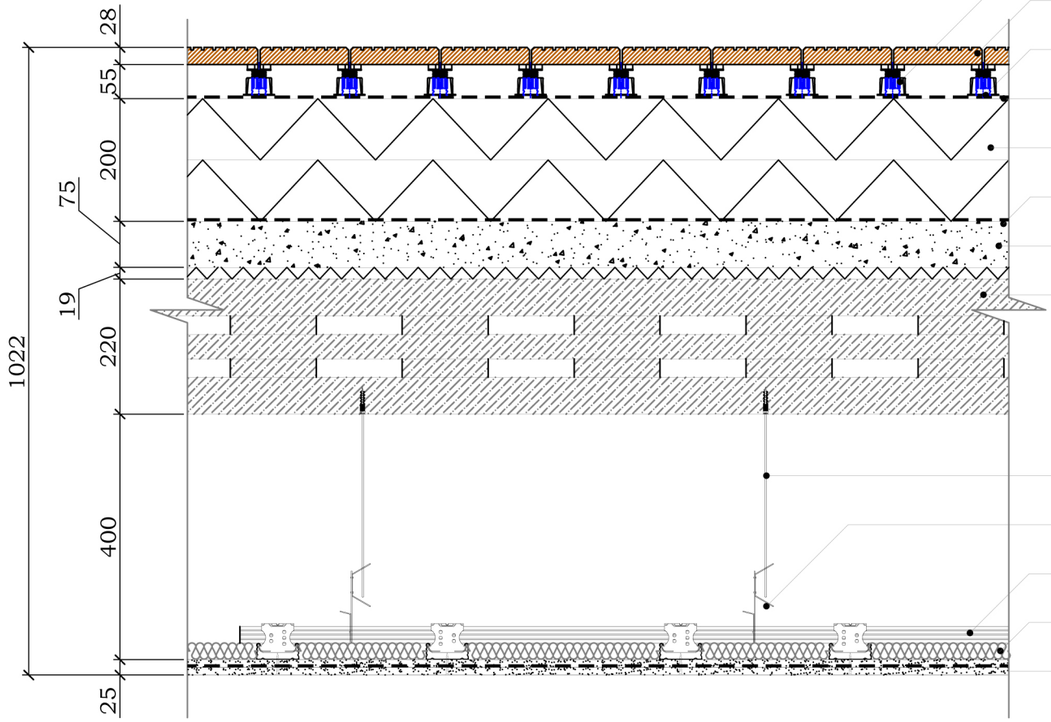
chemical resistant urethane topcoat
proprietary epoxy basecoat
concrete topping (ρ=2500kg/m³, λ=2,00W/mK)
expanded polystyrene (ρ=10kg/m³, λ=0,034W/mK)
waterproof membrane
concrete slab



sedum and other plants
soil (ρ=200kg/m³)
filter fabrics
rainwater storage
separating mat
waterproof membrane
expanded polystyrene (ρ=10kg/m³, λ=0,034W/mK)
waterproof membrane
concrete slab

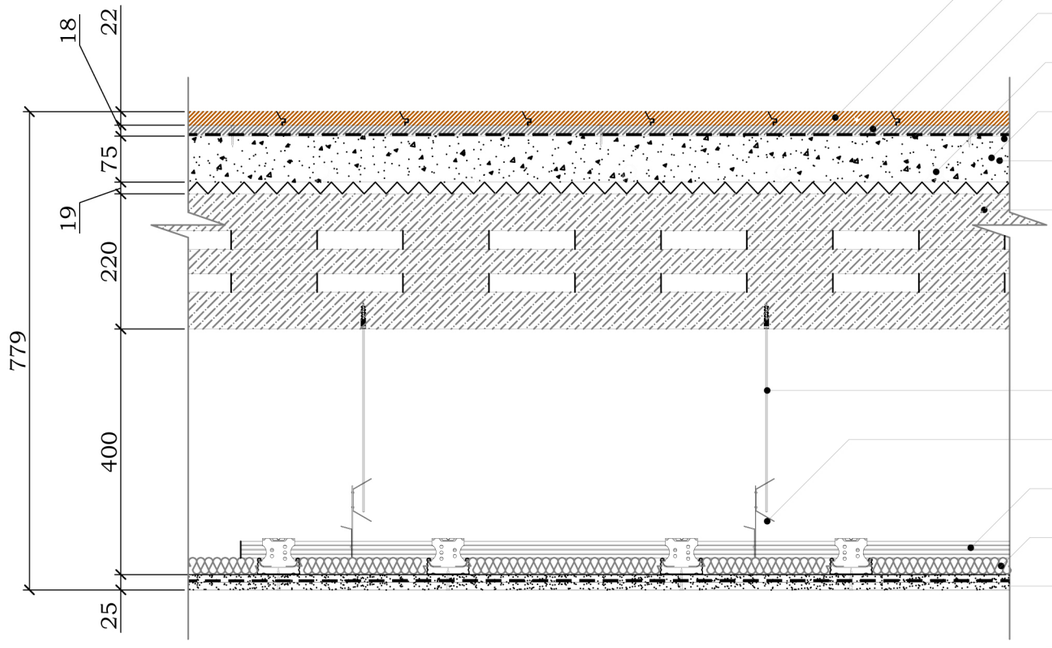
Course name: Architectural engineering	Timber in the city	Concrete slabs
Galina Ivanova 781019 Yanina Morozova 782942 Tatjana Somova 780521		Date: 25/11/13 — ID. no. : SD 02 Scale: 1 : 10

A3



adjustable paving support
timber decking tiles (ρ=1000kg/m³, λ=0,24W/mK)
waterproof membrane
underlayer
expanded polystyrene (ρ=10kg/m³, λ=0,034W/mK)
concrete topping (ρ=2500kg/m³, λ=2,00W/mK)
rigid insulation (ρ=20kg/m³, λ=0,034W/mK)
CLT panel (3 layers) (ρ=520kg/m³, λ=0,18W/mK)

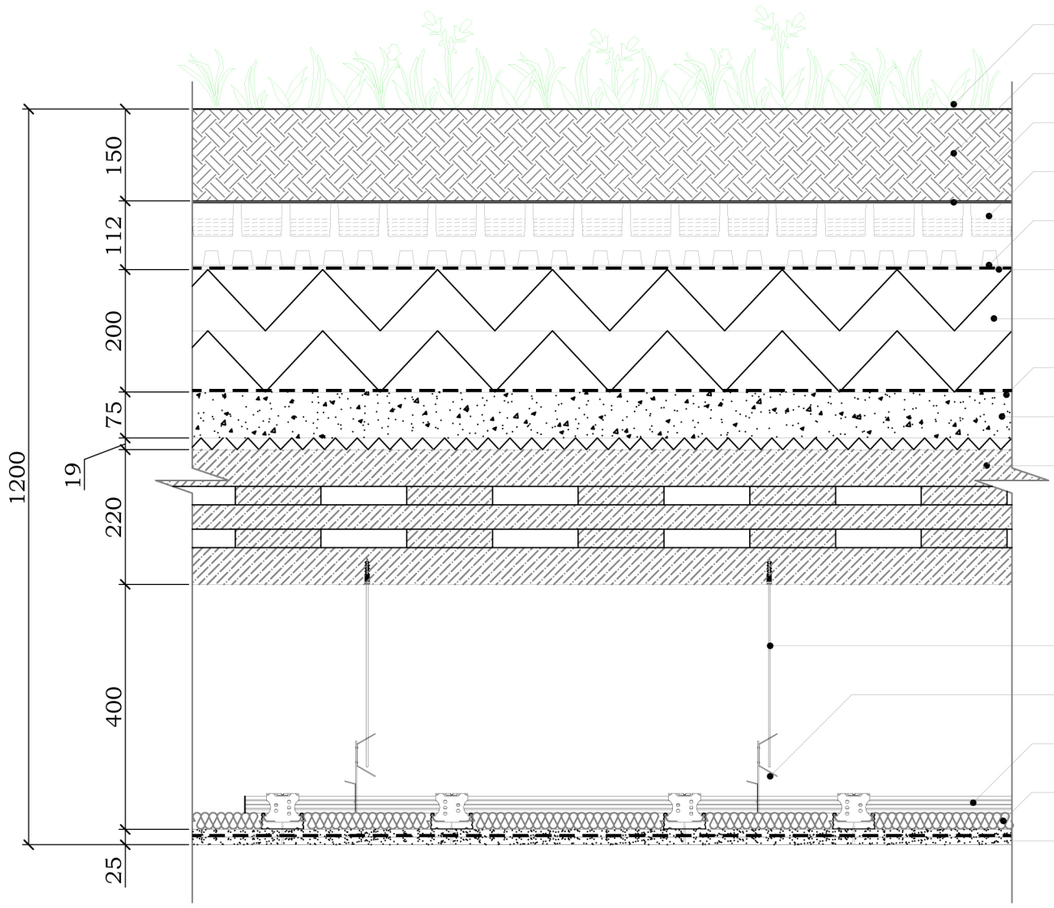
wire
anchor
C channel
mineral wool (ρ=30kg/m³, λ=0,035W/mK)
plasterboard (ρ=1500kg/m³, λ=0,16W/mK)
wooden flooring (ρ=300kg/m³, λ=0,10W/mK)
plywood (ρ=300kg/m³, λ=0,10W/mK)
plastic barrier
PEX heating pipes
concrete topping (ρ=2500kg/m³, λ=2,00W/mK)
rigid insulation (ρ=20kg/m³, λ=0,034W/mK)
CLT panel (3 layers) (ρ=520kg/m³, λ=0,18W/mK)



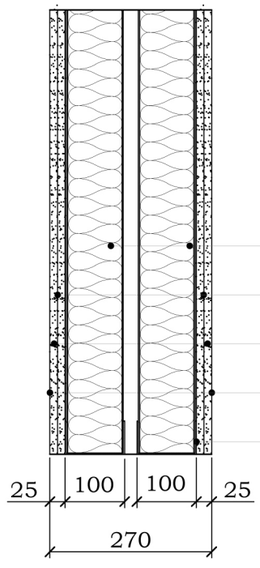
wire
anchor
C channel
mineral wool (ρ=30kg/m³, λ=0,035W/mK)
plasterboard (ρ=1500kg/m³, λ=0,16W/mK)

Course name: Architectural engineering	Timber in the city	CLT slabs
Galina Ivanova 781019 Yanina Morozova 782942 Tatjana Somova 780521		Date: 25/11/13 ID. no. : SD 03 Scale: 1 : 10

A3



sedum and other plants
soil (ρ=200kg/m³)
filter fabrics
rainwater storage
separating mat
waterproof membrane
expanded polystyrene (ρ=10kg/m³, λ=0,034W/mK)
concrete topping (ρ=2500kg/m³, λ=2,00W/mK)
rigid insulation (ρ=20kg/m³, λ=0,034W/mK)
CLT panel (3 layers) (ρ=520kg/m³, λ=0,18W/mK)
wire
anchor
C channel
mineral wool (ρ=30kg/m³, λ=0,035W/mK)
plasterboard (ρ=1500kg/m³, λ=0,16W/mK)

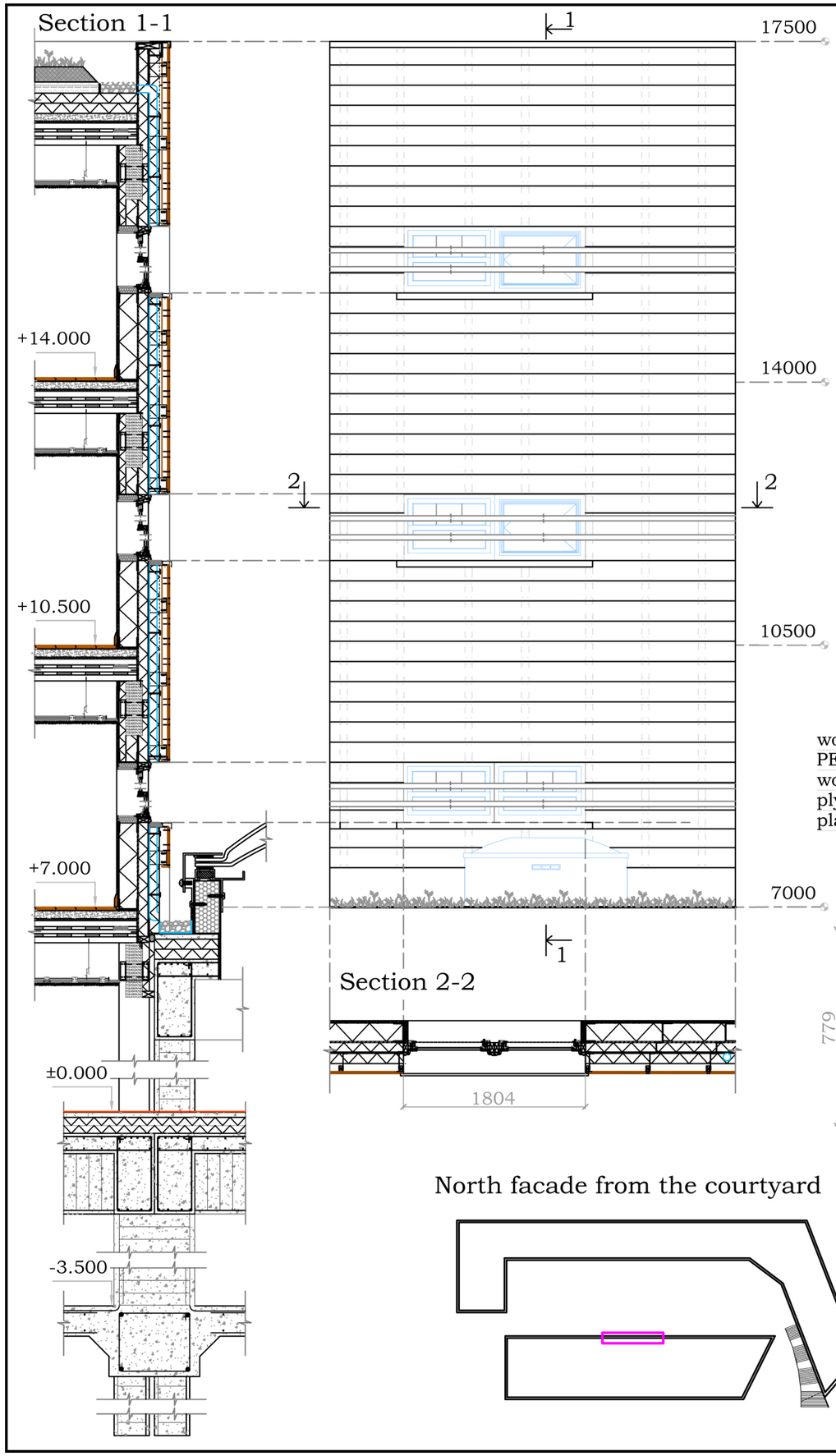


mineral wool
vapor barrier
plasterboard
painting
Knauf CW100x50x0,6 profile

Course name: Architectural engineering	Timber in the city	CLT slab, partition
Galina Ivanova 781019 Yanina Morozova 782942 Tatjana Somova 780521		Date: 25/11/13 ID. no. : SD 04 Scale: 1 : 50

A3

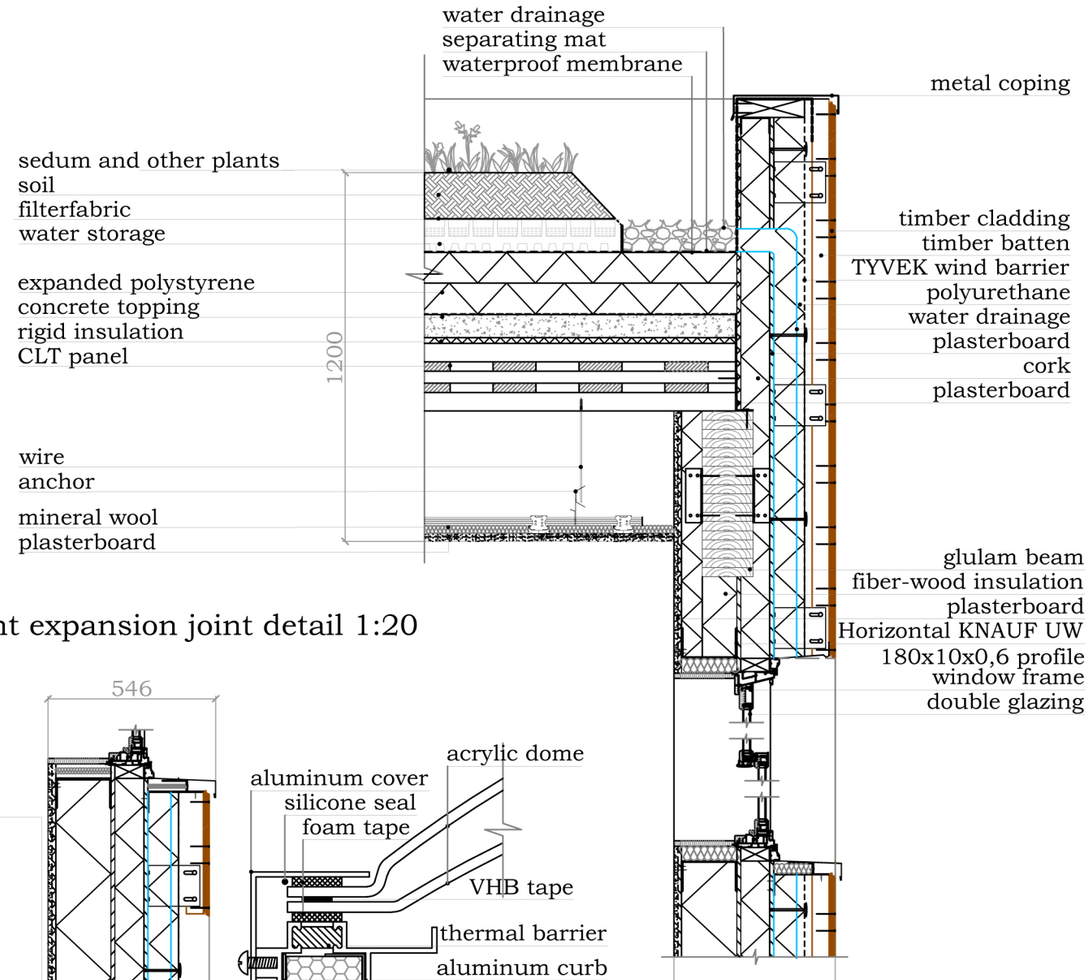
Section 1-1



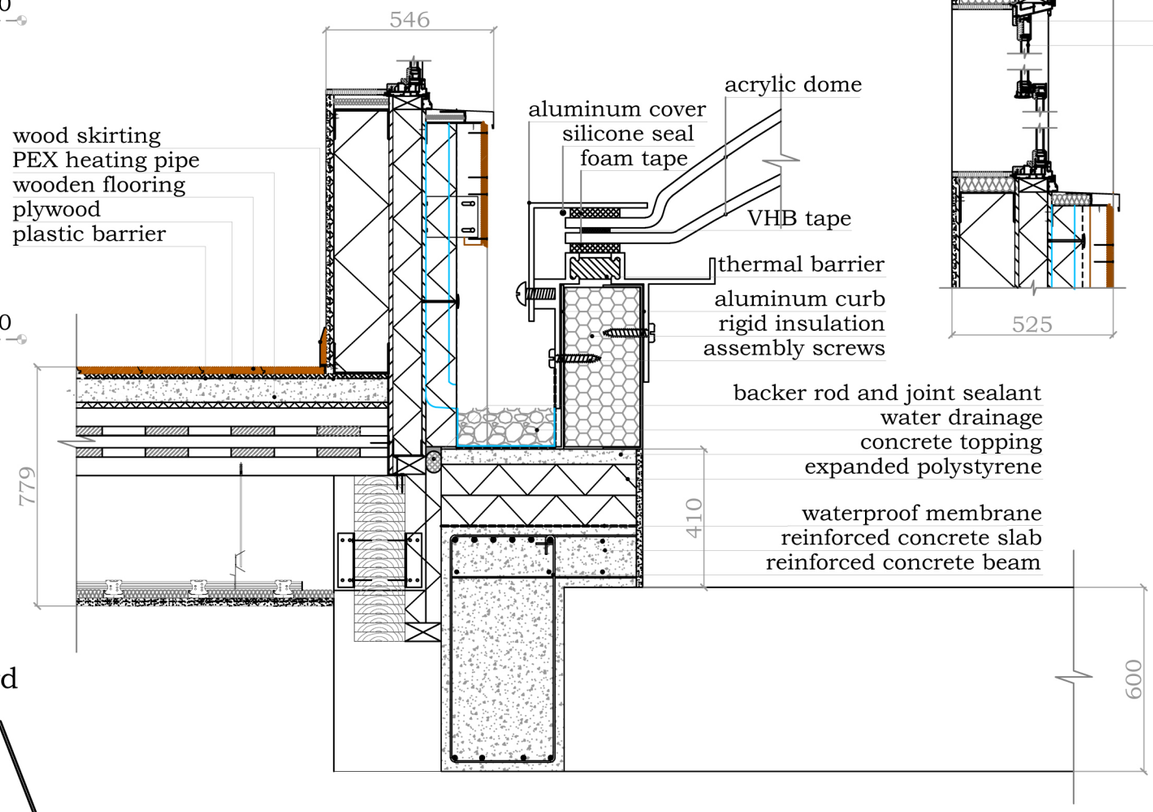
Section 2-2

North facade from the courtyard

Roof and window detail 1:20



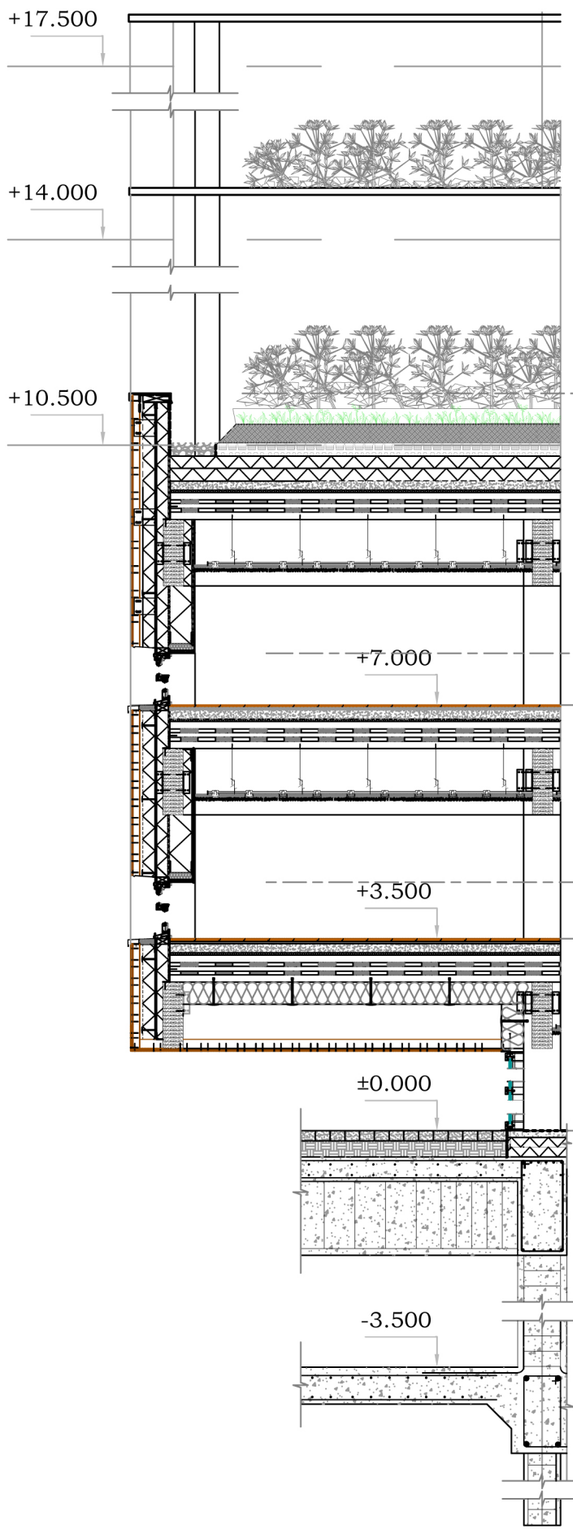
Skylight expansion joint detail 1:20

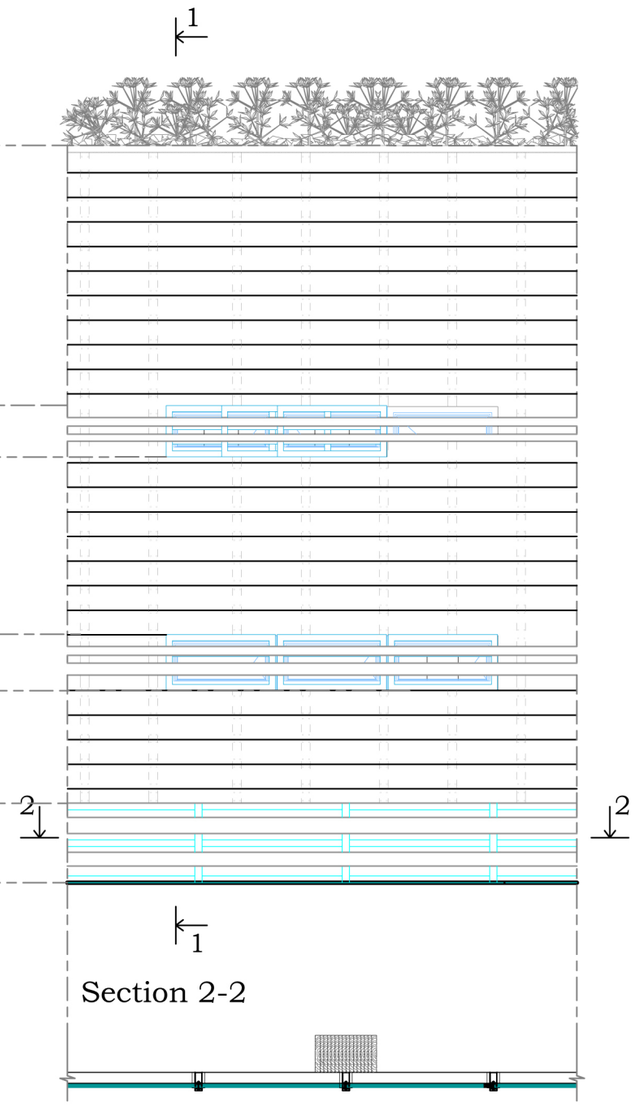


Course name: Architectural engineering	Timber in the city	Connection of concrete and timber parts of the building
Galina Ivanova 781019 Yanina Morozova 782942 Tatjana Somova 780521		Date: 25/11/13 — ID. no. : BU 01 Scale: 1 : 50

A3

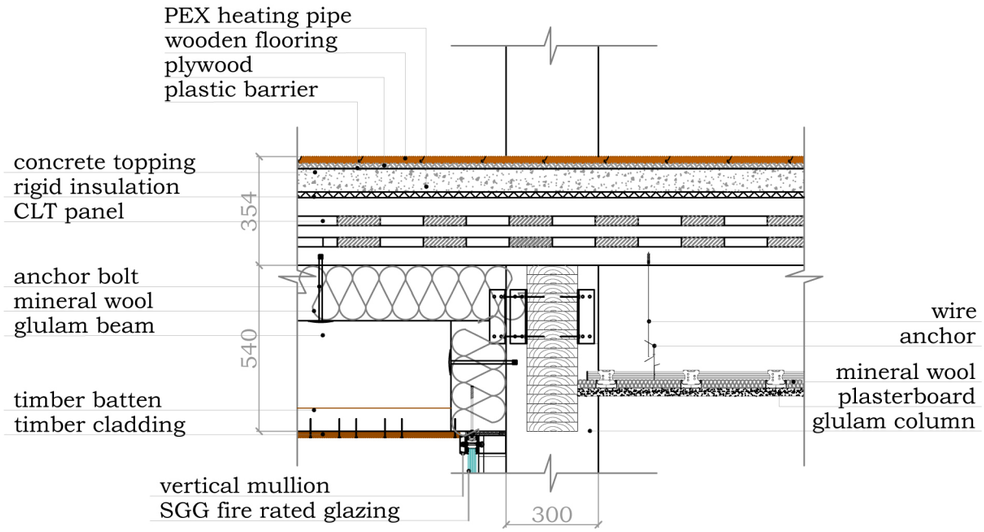
Section 1-1



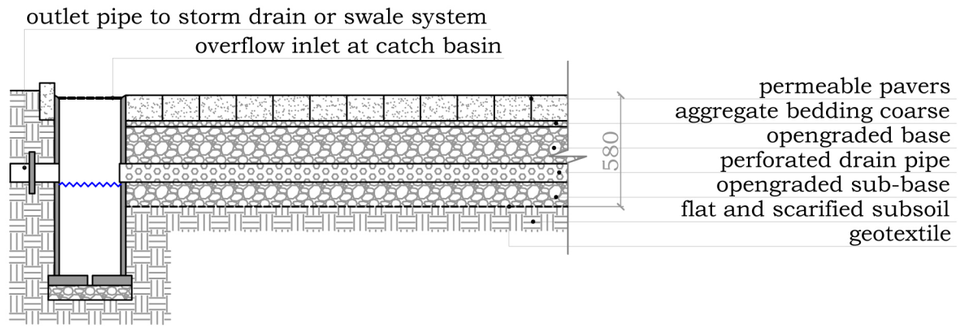


Section 2-2

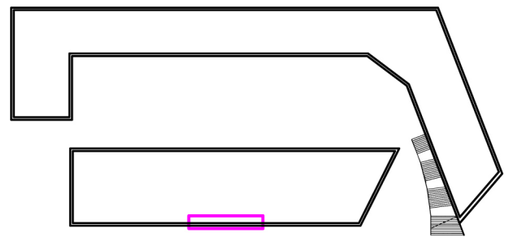
Cantilever detail 1:20



Permeable pavement detail 1:20



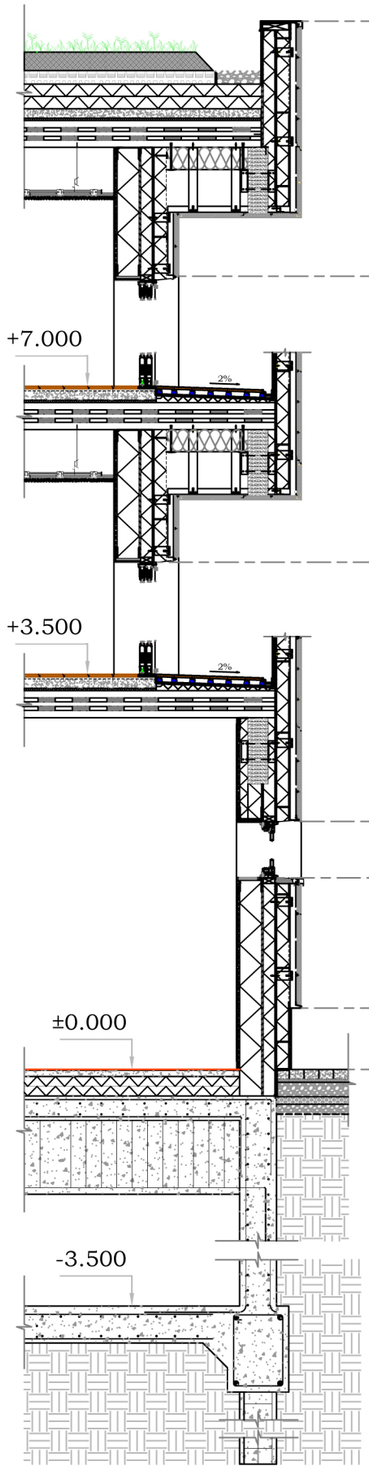
South facade

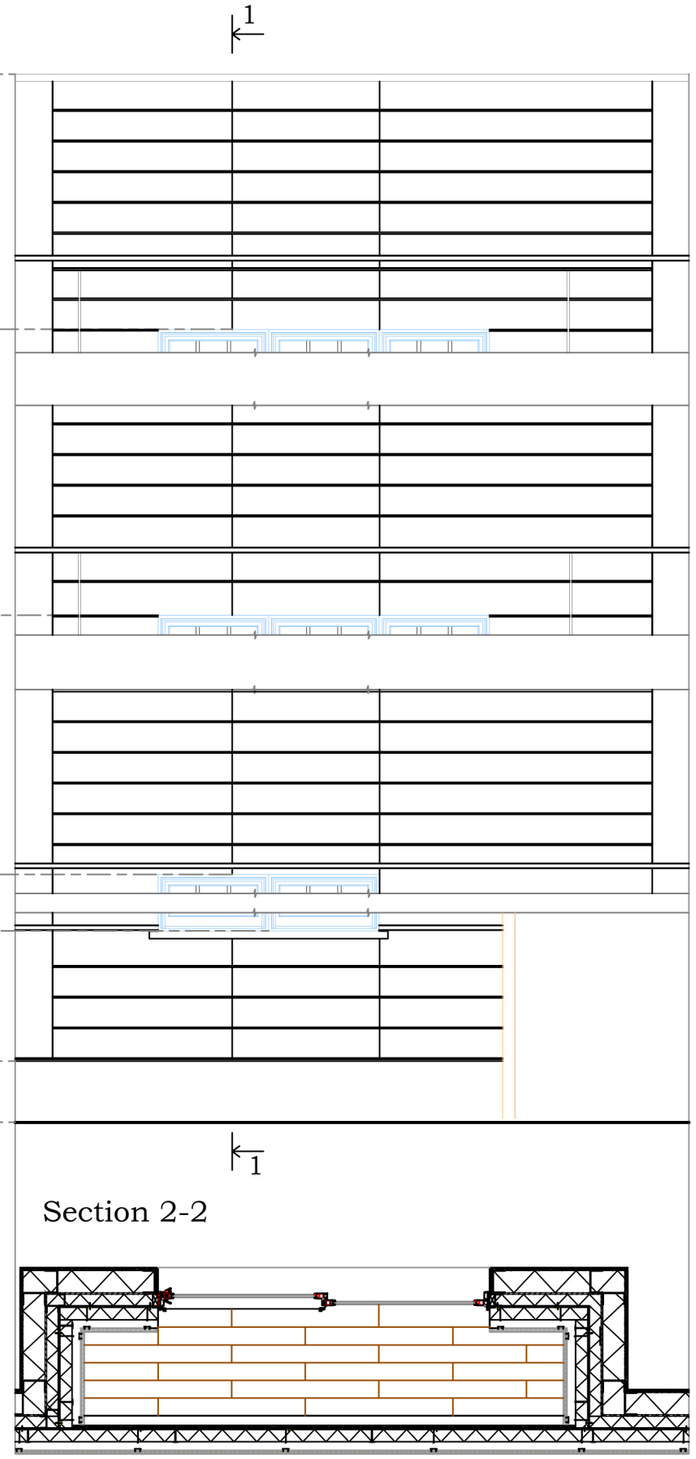


Course name: Architectural engineering	Timber in the city	Cantilever and curtain wall	
Galina Ivanova 781019 Yanina Morozova 782942 Tatjana Somova 780521		Date: 25/11/13	ID. no. : BU 02 Scale: 1 : 50

A3

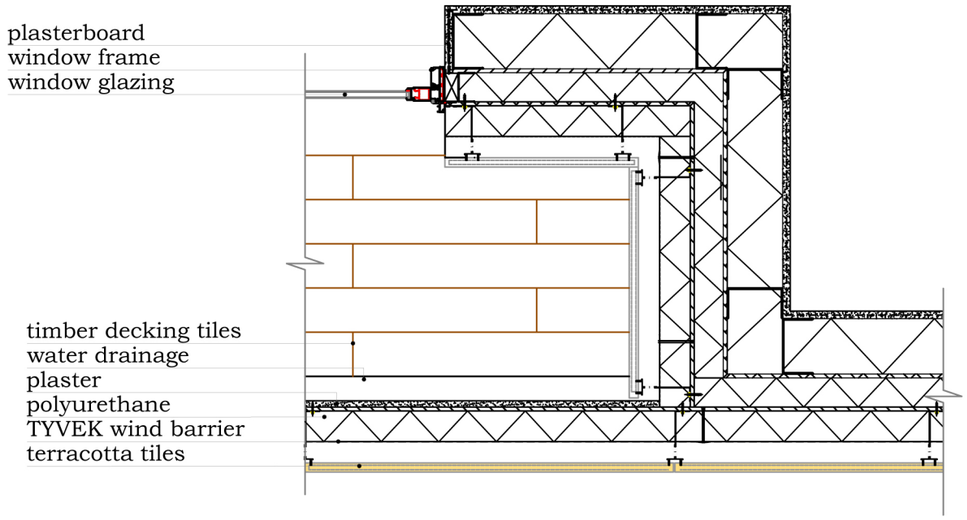
Section 1-1



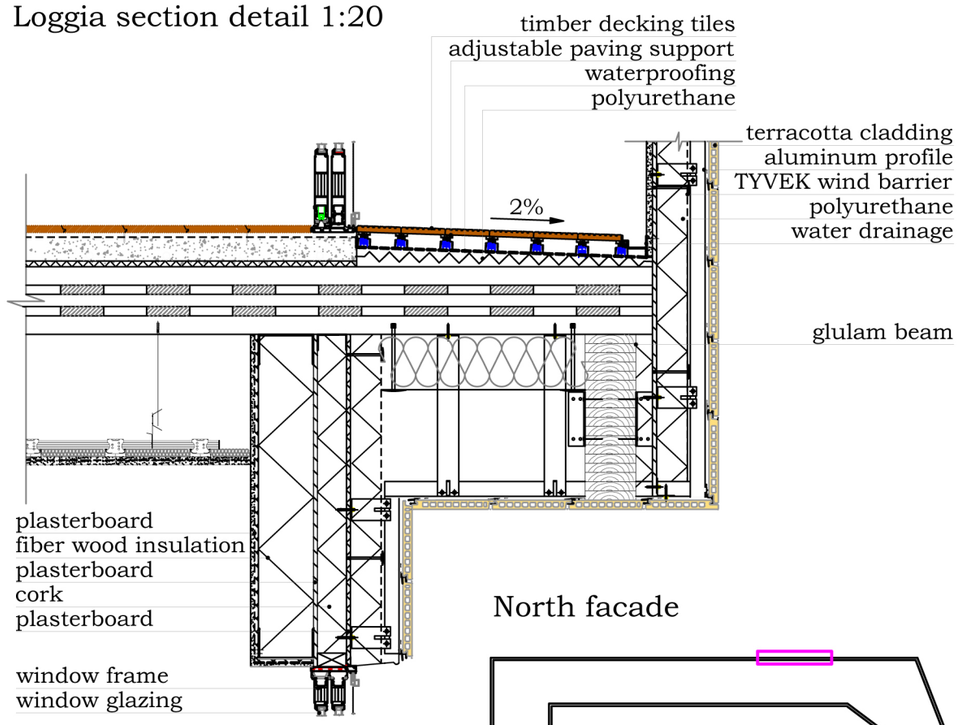


Section 2-2

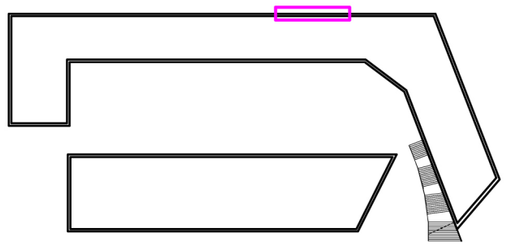
Loggia plan detail 1:20



Loggia section detail 1:20



North facade



Course name: Architectural engineering	Timber in the city	Loggias connection details	
Galina Ivanova 781019 Yanina Morozova 782942 Tatjana Somova 780521		Date: 25/11/13	ID. no. : BU 03 Scale: 1 : 50

A3