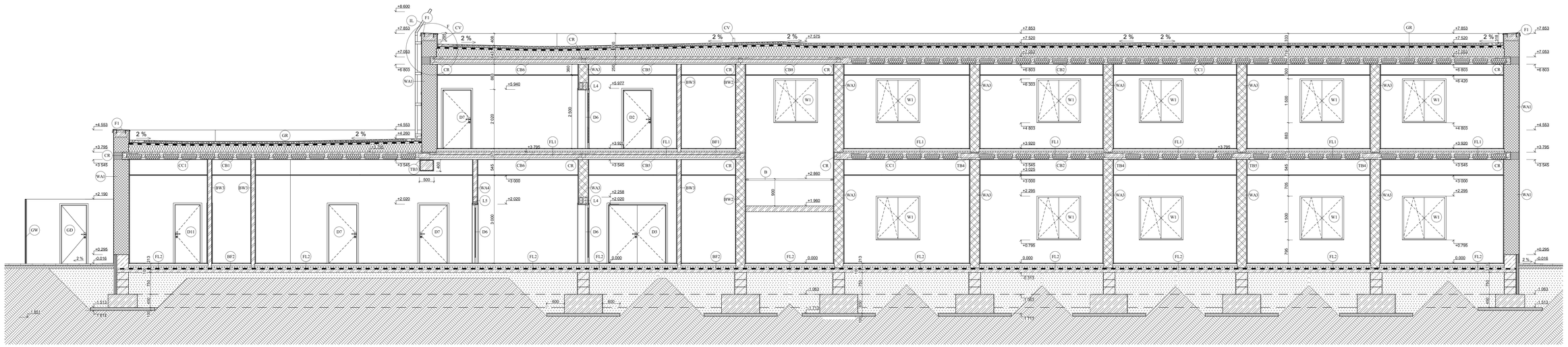
SECTION 2- 2'

SC 1:50



BATHROOM

BW3 BATHROOM WALL HELUZ 11.5

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
1	PAINT	ONE-COMPONENT, WATER-SOLUBLE PAINT DESIHNED FOR GYPSUM BOARDS internal dispersion paint with organic binders and limestone fillers, water vapour permeability 0.02 m	brush or spraying machine	-
2	FILLER	UNIVERSAL PASTE FILLER bending strength > 320N, fire reaction class A2-s1,d0	stainless steel trowel	-
3	GYPSUM BOARD	GYPSUM BOARD coefficient of thermal conductivity λ_d 0.21W/m*K, fire reaction class A2-s1,d0, diffusion resistance factor μ 6-10, longitudinal expansion factor in case of humidity change 5-8*10-6, compressive strength 5.0 - 10.0 MPa	mechanically anchored	12.5
4	ADHESIVE BINDER	GYPSUM ADHESIVE BINDER adhesion min. 0.24 MPa, fire reaction class A1, curing time min. 12 hours	stainless steel trowel	20
5	PENETRATION	CONCETRATED WATERDISPERSION concentrated aqueous dispersions of artificial resins based on acrylic resins with additives, consumption 100g/m², dilution ratio1:4, curing time circa 24 hours	roller, brush or spraying machine	-
6	PARTITION	PARTITION MASONRY BRICK monolayer, heat transfer coefficient U 1.42W/m²*K, coefficient of thermal conductivity λ_d 0.259W/m*K, fire reaction class A1, fire resistance EI 120 DP1, airborne noise Rw 45, diffusion resistance factor μ 5/10	-	115
7	PENETRATION	ACRYLIC PRIMER ready to use acrylic based primer, temperature range (+5°C)-(+35°C), minumum drying time 45-60 minutes, pot life 20 minutes, consumption 150 gr/m², 2 layers needed	roller, brush or spraying machine	-
8	WATERPROOFING	ACRYLIC EMULSION BASED, ONE COMPONENT ELASTIC WATERPROOFING curing time 4 hours, consumption 1.5 kg/m², 3 layers, tensile strength ≥ 0.8 N/mm², tensile adhesion strength ≥ 0.8 N/mm², water-vapour permeability class I, equivalent air thickness S_d < 5	brush or roller	1.0
9	TILE ADHESIVE	CEMENTITIOUS ADHESIVE WITH EXTENDED OPEN TIME AND REDUCED SLIP curing time 24 hours, consumption 3-5 kg/m², 4 mm in case of 30x30cm tiles, tensile adhesion strength ≥ 1.0 N/mm², fire reaction class A1, slip >0.5 N/mm²	stainless steel trowel	4.0
10	SURFACE FINISH	CERAMIC TILES dimentions 30 x 30 cm, coefficient of thermal conductivity λ_d 1.01W/m*K, diffusion resistance factor μ > 0.5, anti-slip R11	-	10
11	GROUTING MORTAR	FLEXIBLE GROUTING MORTAR curing time 24 hours, flexural strength ≥ 2.5 N/mm², compressive strength ≥ 15 N/mm²	rubber trowel	-

BF1 FLOOR IN 2nd ABOVE GROUND FLOOR

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
1	GROUTING MORTAR	FLEXIBLE GROUTING MORTAR curing time 24 hours, flexural strength ≥ 2.5 N/mm², compressive strength ≥ 15 N/mm²	rubber trowel	-
2	SURFACE FINISH	CERAMIC TILES dimentions 30 x 30 cm, coefficient of thermal conductivity λ_d 1.01W/m*K, diffusion resistance factor μ > 0.5, anti-slip R11	-	10
3	TILE ADHESIVE	CEMENT BASED ADHESIVE WITH EXTENDED OPEN TIME AND REDUCED SLIP curing time 24 hours, consumption 3-5 kg/m², 4 mm in case of 30x30cm tiles, tensile adhesion strength ≥ 1.0 N/mm², fire reaction class A1, slip >0.5 N/mm²	stainless steel trowel	4.0
4	WATERPROOFING	ACRYLIC EMULSION BASED, ONE COMPONENT ELASTIC WATERPROOFING curing time 4 hours, consumption 1.5 kg/m², 3 layers, tensile strength ≥ 0.8 N/mm², tensile adhesion strength ≥ 0.8 N/mm², water-vapour permeability class I, equivalent air thickness S_d < 5	brush or roller	1.0
5	PENETRATION	ACRYLIC PRIMER ready to use acrylic based primer, temperature range (+5°C)-(+35°C), minumum drying time 45-60 minutes, pot life 20 minutes, consumption 150 gr/m², 2 layers needed	roller, brush or spraying machine	-
6	LEVELING	SELF-LEVELING SCREED calcium sulfate base, thickness from 2.5 to 10 mm, compressive strength >35 N/mm², coefficient of thermal conductivity λ 1.4 W/m*K, density 2100 kg/m³ initial setting 15-30 minutes, final setting 60-90 minutes, curing 48 hours	smooting trowel or screeding rake	10
7	GROUTING	GROUTING CONCRETE SCREED concrete C20/25 XC1, consistancy S3, with reinforcement mesh diameter 4/150	-	60
8	SEPARATION	PLASTIC FOIL PE foil	-	-
9	INSULATION	STEP INSULATION elasticized polystyrene, thermal resistance R 0.40 m²*K/W, coefficient of thermal conductivity λ_d 0.037W/m*K, fire reaction class E, compressive strength 6.0 MPa	-	40
10	GROUTING	GROUTING CONCRETE concrete C20/25 XC1, consistancy S3, with reinforcement mesh diameter 4/150	-	60
11	LOAD-BEARING	CEILING JOIST + CARTRIDGE reinforced concrete, fire reaction class A1, fire resistance REI 180 D1	-	190
12	CEILING	GYPSUM BOARD + INSTALLATION GAP suspended ceiling, coefficient of thermal conductivity λ_d 0.21W/m*K, fire reaction class A2-s1,d0, diffusion resistance factor μ 6-10, longitudinal expansion factor in case of humidity change 5-8*10-6, compressive strength 5.0 - 10.0 MPa	-	2x12.5

BF2 FLOOR IN 1st ABOVE GROUND FLOOR

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
1	GROUTING MORTAR	FLEXIBLE GROUTING MORTAR curing time 24 hours, flexural strength ≥ 2.5 N/mm², compressive strength ≥ 15 N/mm²	rubber trowel	-
2	SURFACE FINISH	CERAMIC TILES dimentions 30 x 30 cm, coefficient of thermal conductivity λ_d 1.01W/m*K, diffusion resistance factor μ > 0.5, anti-slip R11	-	10
3	TILE ADHESIVE	CEMENT BASED ADHESIVE WITH EXTENDED OPEN TIME AND REDUCED SLIP curing time 24 hours, consumption 3-5 kg/m², 4 mm in case of 30x30cm tiles, tensile adhesion strength ≥ 1.0 N/mm², fire reaction class A1, slip >0.5 N/mm²	stainless steel trowel	4.0
4	WATERPROOFING	ACRYLIC EMULSION BASED, ONE COMPONENT ELASTIC WATERPROOFING curing time 4 hours, consumption 1.5 kg/m², 3 layers, tensile strength ≥ 0.8 N/mm², tensile adhesion strength ≥ 0.8 N/mm², water-vapour permeability class I, equivalent air thickness S_d < 5	brush or roller	1.0
5	PENETRATION	ACRYLIC PRIMER ready to use acrylic based primer, temperature range (+5°C)-(+35°C), minumum drying time 45-60 minutes, pot life 20 minutes, consumption 150 gr/m², 2 layers needed	roller, brush or spraying machine	-
6	LEVELING	SELF-LEVELING SCREED calcium sulfate base, thickness from 2.5 to 10 mm, compressive strength >35 N/mm², coefficient of thermal conductivity λ 1.4 W/m*K, density 2100 kg/m³ initial setting 15-30 minutes, final setting 60-90 minutes, curing 48 hours	smooting trowel or screeding rake	10
7	GROUTING	GROUTING CONCRETE SCREED concrete C20/25 XC1, consistancy S3, with reinforcement mesh diameter 4/150	-	60
8	SEPARATION	PLASTIC FOIL PE foil	-	-
9	INSULATION	ACOUSTIC INSULATION stone wool, thermal resistance R 1.10 m²*K/W, coefficient of thermal conductivity λ_d 0.035W/m*K, fire reaction class A1, diffusion resistance factor μ 1, density 40 kg/m³	-	40
10	THERMAL INSULATION	THERMAL INSULATION EPS polystyrene, thermal resistance R 5.80 m²*K/W, coefficient of thermal conductivity λ_d 0.034W/m*K, fire reaction class E, compressive strength 250 MPa, diffusion resistance factor μ 100	-	80
11	WATERPROOFING/ ANTI-RADON	BITUMEN SHEETS modified SBS, top layer separation spill, core layer glass textile, bottom layer PE foil, coefficient of thermal conductivity λ_d 0.21W/m*K	melted	2x4
12	FOUNDATION PLATE	CONCRETE PLATE + KARI WIRE MESH concrete C20/25 XC1, consistancy S3, with reinforcement mesh diameter 4/150	-	100
13	BASE	COMPRESSED SOIL class 6, Rdt 500 kPa	-	200

FLOORS

FL2 FLOOR IN 1st ABOVE GROUND FLOOR

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
1	SURFACE FINISH	LAMINATE FLOORING marmoleum 2 mm on top finish, load-bearing 7 mm, bottom 1 mm	lock connected	10
2	SEPARATION	PE FOAM LAYER mirelen layer	-	5
3	LEVELING	SELF-LEVELING SCREED calcium sulfate base, thickness from 2.5 to 10 mm, compressive strength >35 N/mm², coefficient of thermal conductivity λ 1.4 W/m*K, density 2100 kg/m³ initial setting 15-30 minutes, final setting 60-90 minutes, curing 48 hours	smooting trowel or screeding rake	10
4	GROUTING	GROUTING CONCRETE SCREED concrete C20/25 XC1, consistancy S3, with reinforcement mesh diameter 4/150	-	60
5	SEPARATION	PLASTIC FOIL PE foil	-	-
6	INSULATION	ACOUSTIC INSULATION stone wool, thermal resistance R 1.10 m²*K/W, coefficient of thermal conductivity λ_d 0.035W/m*K, fire reaction class A1, diffusion resistance factor μ 1, density 40 kg/m³	-	40
7	THERMAL INSULATION	THERMAL INSULATION EPS polystyrene, thermal resistance R 5.80 m²*K/W, coefficient of thermal conductivity λ_d 0.034W/m*K, fire reaction class E, compressive strength 250 MPa, diffusion resistance factor μ 100	-	80
8	WATERPROOFING/ ANTI-RADON	BITUMEN SHEETS modified SBS, top layer separation spill, core layer glass textile, bottom layer PE foil, coefficient of thermal conductivity λ_d 0.21W/m*K	melted	2x4
9	FOUNDATION PLATE	CONCRETE PLATE + KARI WIRE MESH concrete C20/25 XC1, consistancy S3, with reinforcement mesh diameter 4/150	-	100
10	BASE	COMPRESSED SOIL class 6, Rdt 500 kPa	-	200

FL1 FLOOR IN 2nd ABOVE GROUND FLOOR

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
1	SURFACE FINISH	LAMINATE FLOORING marmoleum 2 mm on top finish, load-bearing 7 mm, bottom 1 mm	lock connected	10
2	SEPARATION	PE FOAM LAYER mirelen layer	-	5
3	LEVELING	SELF-LEVELING SCREED calcium sulfate base, thickness from 2.5 to 10 mm, compressive strength >35 N/mm², coefficient of thermal conductivity λ 1.4 W/m*K, density 2100 kg/m³ initial setting 15-30 minutes, final setting 60-90 minutes, curing 48 hours	smooting trowel or screeding rake	10
4	GROUTING	GROUTING CONCRETE SCREED concrete C20/25 XC1, consistancy S3, with reinforcement mesh diameter 4/150	-	60
5	SEPARATION	PLASTIC FOIL PE foil	-	-
6	INSULATION	STEP INSULATION elasticized polystyrene, thermal resistance R 0.40 m²*K/W, coefficient of thermal conductivity λ_d 0.037W/m*K, fire reaction class E, compressive strength 6.0 MPa	-	40
7	GROUTING	GROUTING CONCRETE concrete C20/25 XC1, consistancy S3, with reinforcement mesh diameter 4/150	-	60
8	LOAD-BEARING	CEILING JOIST + CARTRIDGE reinforced concrete, fire reaction class A1, fire resistance REI 180 D1	-	190
9	CEILING	GYPSUM BOARD + INSTALLATION GAP suspended ceiling, coefficient of thermal conductivity λ_d 0.21W/m*K, fire reaction class A2-s1,d0, diffusion resistance factor μ 6-10, longitudinal expansion factor in case of humidity change 5-8*10-6, compressive strength 5.0 - 10.0 MPa	-	2x12.5

WALLS

WA1 EXTERNAL WALL HELUZ 50 2in1

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
1	SURFACE FINISH	THIN-FILM PASTE PLASTER silicate, water vapour permeability s_d<0.14m, water absorbtion w<0.1 and <0.5 kg/m²*h$^{0.5}$, cohesion 0.32 MPa, grain 1.5; 2.0; 3.0 mm, coefficient of thermal conductivity $\lambda_{10,dry}$ max 0.74W/m*K, fire reaction class A2- s1,d0	stainless steel trowel	2
2	PENETRATION	HIGH SHEAR PENETRATION UNDER SILICATE MATERIALS pH circa 11, solubility in water unlimited, drying time circa 12 hours	roller, brush or spraying machine	-
3	CEMENT SPRAYING	CEMENT MORTAR FOR BASE LAYER TREATMENT + GLASS FIBRE MESH compressive strength 6.0 MPa, adhesion min. 0.3 MPa, factor of diffusion resistance of water vapour max 35, coefficient of thermal conductivity λ max 0.82W/m*K, fire reaction class A1, grain 0-2 mm	stainless steel trowel or spraying machine	8
4	LOAD-BEARING/ INSULATION	LOAD-BEARING MASONRY BRICK WITH IMPLEMENTED INSULATION monolayer perimeter brick of zero, passive, low energy and energy-efficient buildings, heat transfer coefficient U 0.11W/m²K, thermal resistance R 9.16 m²K/W, coefficient of thermal conductivity λ_d 0.058W/m*K, fire reaction class B-s1,d0, fire resistance REI 30 DP1/90 DP3, airborne noise Rw 44(-1;-2), diffusion resistance factor μ 9.71	-	500
5	PENETRATION	CONCETRATED WATERDISPERSION concentrated aqueous dispersions of artificial resins based on acrylic resins with additives, consumption 100g/m², dilution ratio1:4, drying time circa 24 hours	roller, brush or spraying machine	-
6	ADHESIVE BINDER	GYPSUM ADHESIVE BINDER adhesion min. 0.24 MPa, fire reaction class A1, drying time min. 12 hours	stainless steel trowel	20
7	GYPSUM BOARD	GYPSUM BOARD coefficient of thermal conductivity λ_d 0.21W/m*K, fire reaction class A2-s1,d0, diffusion resistance factor μ 6-10, longitudinal expansion factor in case of humidity change 5-8*10-6, compressive strength 5.0 - 10.0 MPa	mechanically anchored	12.5
8	FILLER	UNIVERSAL PASTE FILLER bending strength > 320N, fire reaction class A2-s1,d0	stainless steel trowel	-
9	PAINT	ONE-COMPONENT, WATER-SOLUBLE PAINT DESIHNED FOR GYPSUM BOARDS internal dispersion paint with organic binders and limestone fillers, water vapour permeability 0.02 m	brush or spraying machine	-

WA3 INTERNAL WALL HELUZ AKU 30

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
1	PAINT	ONE-COMPONENT, WATER-SOLUBLE PAINT DESIHNED FOR GYPSUM BOARDS internal dispersion paint with organic binders and limestone fillers, water vapour permeability 0.02 m	brush or spraying machine	-
2	FILLER	UNIVERSAL PASTE FILLER bending strength > 320N, fire reaction class A2-s1,d0	stainless steel trowel	-
3	GYPSUM BOARD	GYPSUM BOARD coefficient of thermal conductivity λ_d 0.21W/m*K, fire reaction class A2-s1,d0, diffusion resistance factor μ 6-10, longitudinal expansion factor in case of humidity change 5-8*10-6, compressive strength 5.0 - 10.0 MPa	mechanically anchored	12.5
4	ADHESIVE BINDER	GYPSUM ADHESIVE BINDER adhesion min. 0.24 MPa, fire reaction class A1, dryng time min. 12 hours	stainless steel trowel	20
5	PENETRATION	CONCETRATED WATERDISPERSION concentrated aqueous dispersions of artificial resins based on acrylic resins with additives, consumption 100g/m², dilution ratio1:4, drying time circa 24 hours	roller, brush or spraying machine	-
6	LOAD-BEARING	LOAD-BEARING MASONRY BRICK monolayer, load-bearing , heat transfer coefficient U 1.0W/m²*K, coefficient of thermal conductivity λ_d 0.363W/m*K, fire reaction class A1, fire resistance REI 180 DP1, airborne noise Rw 56, diffusion resistance factor μ 5/10	-	300
7	PENETRATION	CONCETRATED WATERDISPERSION concentrated aqueous dispersions of artificial resins based on acrylic resins with additives, consumption 100g/m², dilution ratio1:4, drying time circa 24 hours	roller, brush or spraying machine	-
8	ADHESIVE BINDER	GYPSUM ADHESIVE BINDER adhesion min. 0.24 MPa, fire reaction class A1, dryng time min. 12 hours	stainless steel trowel	20
9	GYPSUM BOARD	GYPSUM BOARD coefficient of thermal conductivity λ_d 0.21W/m*K, fire reaction class A2-s1,d0, diffusion resistance factor μ 6-10, longitudinal expansion factor in case of humidity change 5-8*10-6, compressive strength 5.0 - 10.0 MPa	mechanically anchored	12.5
10	FILLER	UNIVERSAL PASTE FILLER bending strength > 320N, fire reaction class A2-s1,d0	stainless steel trowel	-
11	PAINT	ONE-COMPONENT, WATER-SOLUBLE PAINT DESIHNED FOR GYPSUM BOARDS internal dispersion paint with organic binders and limestone fillers, water vapour permeability 0.02 m	brush or spraying machine	-

WA4 INTERNAL WALL HELUZ 11.5

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
1	PAINT	ONE-COMPONENT, WATER-SOLUBLE PAINT DESIHNED FOR GYPSUM BOARDS internal dispersion paint with organic binders and limestone fillers, water vapour permeability 0.02 m	brush or spraying machine	-
2	FILLER	UNIVERSAL PASTE FILLER bending strength > 320N, fire reaction class A2-s1,d0	stainless steel trowel	-
3	GYPSUM BOARD	GYPSUM BOARD coefficient of thermal conductivity λ_d 0.21W/m*K, fire reaction class A2-s1,d0, diffusion resistance factor μ 6-10, longitudinal expansion factor in case of humidity change 5-8*10-6, compressive strength 5.0 - 10.0 MPa	mechanically anchored	12.5
4	ADHESIVE BINDER	GYPSUM ADHESIVE BINDER adhesion min. 0.24 MPa, fire reaction class A1, dryng time min. 12 hours	stainless steel trowel	20
5	PENETRATION	CONCETRATED WATERDISPERSION concentrated aqueous dispersions of artificial resins based on acrylic resins with additives, consumption 100g/m², dilution ratio1:4, drying time circa 24 hours	roller, brush or spraying machine	-
6	PARTITION	PARTITION MASONRY BRICK monolayer, heat transfer coefficient U 1.42W/m²*K, coefficient of thermal conductivity λ_d 0.259W/m*K, fire reaction class A1, fire resistance EI 120 DP1, airborne noise Rw 45, diffusion resistance factor μ 5/10	-	115
7	PENETRATION	CONCETRATED WATERDISPERSION concentrated aqueous dispersions of artificial resins based on acrylic resins with additives, consumption 100g/m², dilution ratio1:4, drying time circa 24 hours	roller, brush or spraying machine	-
8	ADHESIVE BINDER	GYPSUM ADHESIVE BINDER adhesion min. 0.24 MPa, fire reaction class A1, dryng time min. 12 hours	stainless steel trowel	20
9	GYPSUM BOARD	GYPSUM BOARD coefficient of thermal conductivity λ_d 0.21W/m*K, fire reaction class A2-s1,d0, diffusion resistance factor μ 6-10, longitudinal expansion factor in case of humidity change 5-8*10-6, compressive strength 5.0 - 10.0 MPa	mechanically anchored	12.5
10	FILLER	UNIVERSAL PASTE FILLER bending strength > 320N, fire reaction class A2-s1,d0	stainless steel trowel	-
11	PAINT	ONE-COMPONENT, WATER-SOLUBLE PAINT DESIHNED FOR GYPSUM BOARDS internal dispersion paint with organic binders and limestone fillers, water vapour permeability 0.02 m	brush or spraying machine	-

ROOFS

GR GREEN ROOF

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
1	VEGETATION	EXTENSIVE SUBSTRATE vegetation carpet for succulents	-	70
2	FILTRATION	GEOTEXTILE nonwoven geotextile, 300g/m, polyester	-	1.5
3	DRAINAGE/ WATER ACCUMULATION	NOPIC FOIL/ DIMPLE MEMBRANE nop height 20 mm	-	20
4	SEPARATION	GEOTEXTILE nonwoven geotextile, 300g/m, polyester	-	1.5
5	WATERPROOFING	BITUMEN SHEET modified SBS, self-adhesive, top and bottom layer homogeneous elastomer coating, core layer glass textile	melted	3.5
6	WATERPROOFING	BITUMEN SHEET modified SBS, self-adhesive, top layer foil, core layer glass textile, bottom layer PE foil	anchored	3.5
7	SEPARATION	GEOTEXTILE nonwoven geotextile, 300g/m, polyester	-	1.5
8	LEVELING	THERMAL INSULATION EPS 200 polystyrene, thermal resistance R 5.80 m²*K/W, coefficient of thermal conductivity λ_d 0.034W/m*K, fire reaction class E, compressive strength 250 MPa, diffusion resistance factor μ 100	-	140 <-
9	THERMAL INSULATION	THERMAL INSULATION EPS 200 polystyrene, thermal resistance R 5.80 m²*K/W, coefficient of thermal conductivity λ_d 0.034W/m*K, fire reaction class E, compressive strength 250 MPa, diffusion resistance factor μ 100	-	100
10	VAPOUR BARRIER	BITUMEN SHEET modified SBS, top layer separation foil, core layer aluminium foil, bottom layer PE foil	melted in points	3.5
11	PENETRATION	ASPHALT COATING asphalt emulsion, cold processed, sparse, solvent free, frost resistant	roller, brush or spraying machine	0.5
12	GROUTING	GROUTING CONCRETE concrete C20/25 XC1, consistancy S3, with reinforcement mesh diameter 4/150	-	60
13	LOAD-BEARING	CEILING JOIST + CARTRIDGE reinforced concrete, fire reaction class A1, fire resistance REI 180 D1	-	190
14	CEILING	GYPSUM BOARD + INSTALLATION GAP suspended ceiling, coefficient of thermal conductivity λ_d 0.21W/m*K, fire reaction class A2-s1,d0, diffusion resistance factor μ 6-10, longitudinal expansion factor in case of humidity change 5-8*10-6, compressive strength 5.0 - 10.0 MPa	-	2x12.5

LEGEND OF MATERIALS

- EXTERNAL WALL, Heluz 50 2in1, 500 mm
- INTERNAL WALL, Heluz, load-bearing
- INTERNAL WALL, Heluz, non load-bearing
- FOUNDATION BRICK, Heluz STI, load-bearing, 400 mm
- THERMAL INSULATION, EPS polystyrene
- THERMAL INSULATION, XPS, 100 mm
- REINFORCED CONCRETE, C20/25 XC1, consistancy S3, with reinforcement mesh diameter 4/150 Additional reinforcement B500B - STATIC CALCULATION REQUIRED
- CONCRETE SCREED, calcium sulfate base
- COMPRESSED SOIL, class 6, Rdt 500 kPa
- ORIGINAL SOIL, TYPE F4 CS, R_{dt} = 150 kPa
- GRAVEL, fraction 32-63
- EXTENSIVE SUBSTRATE, vegetation for succulents
- GRAVEL, fraction 8-16
- GRAVEL, fraction 4-8
- PAVEMENT, interlocking, Premac vega
- PAVEMENT, interlocking, Premac klasiko
- FOUNDATION FORMWORK, concrete blocks filled with C20/25 reinforced by reinforcement bars
- BASE LAYER, concrete C20/25, for securing of even reinforcement cover
- WATERPROOFING, modified SBS, self-adhesive
- HELUZ FAMILY 25 2in1, 250 mm, load bearing

LEGEND OF ELEMENTS

- W1 — FRAME spruce glue laminated wooden frame, tilting and opening inside, thickness 78 mm, U_W=0.90 W/m²*K, Sunlight factor 62 %, Sound dampening 35 dB, GLAZING double glazing,filled with argon, U_g = 0.5 W/m²*K, FITTINGS all-round fitting, safety points, safety against faulty handling, COLOUR black-brown RAL 8022, PARAPET External: galvanized steel sheet, thickness 1.6 mm, expanded length 320 mm, Internal: chipboard laminated oak with nose, thickness 20 mm, 1500x1000
- D2 — FRAME exterior door, spruce wooden frame, left, laminated timber system, U_d=1.15 W/m²*K, opening with translucent glass, type handle - handle, GLAZING double glazing,filled with argon, U_g= 0.5 W/m²*K, FITTINGS 3 safety point door fittings, 2 point safety lock, COLOUR black/brown RAL 8022, THRESHOLD alumion, 1000x2020
- D6 — FRAME interior door, spruce wooden frame, right, CASING spruce, FITTINGS 2 safety point door fittings, 1 point safety lock, COLOUR black/brown RAL 8022, THRESHOLD alumion, BEARING handle - handle, ACOUSTICS Rw = 32 dB, 1000x2020
- D7 — FRAME interior door, spruce wooden frame, left, CASING spruce, FITTINGS 2 safety point door fittings, 1 point safety lock, COLOUR black/brown RAL 8022, THRESHOLD alumion, BEARING handle - handle, ACOUSTICS Rw = 32 dB, 1000x2020
- D11 — FRAME interior door, spruce wooden frame, right, CASING spruce, FITTINGS 2 safety point door fittings, 1 point safety lock, COLOUR black/brown RAL 8022, THRESHOLD alumion, BEARING handle - handle, ACOUSTICS Rw = 32 dB, 900x2020
- F1 — ATTIC FLASHING, galvanized steel, thickness 1.6 mm, expanded length 805, 210, 145 mm
- IL — INSPECTION LADDER, stainless steel inspection ladder, ground floor 4400 mm, first floor 3600 mm
- GW — GARBAGE WALL, disposal area wall, fencing net
- GD — GARBAGE DOOR, disposal area wall, fencing net

NOTES:

- DROPPED PLASTERBOARD CEILING HEIGHT MODIFIED DURING THE CONSTRUCTION ACCORDING TO TECHNICAL NEEDS
- ALL LINTELS MUST BE PLACED ON LAYER OF MODIFIED SBS BITUMEN FELT, SEE DETAIL A
- COMPOSITIONS OF WALLS AND FLOORS CAN BE SEEN IN THE ANNEX D.1.1.1
- LIST OF WINDOWS CAN BE SEEN IN THE ANNEX D.1.2.10
- LIST OF EXTERNAL DOORS CAN BE SEEN IN THE ANNEX D.1.2.11
- LIST OF INTERNAL DOORS CAN BE SEEN IN THE ANNEX D.1.2.13 AND D.1.2.14
- LIST OF LOCKSMITH ELEMENTS CAN BE SEEN IN THE ANNEX D.1.2.15
- LIST OF TINSMITH ELEMENTS CAN BE SEEN IN THE ANNEX D.1.2.16
- LIST OF ADDITIONAL ELEMENTS CAN BE SEEN IN THE ANNEX D.1.2.17
- RING REINFORCEMENT DESIGNED ACCORDING TO HELUZ STANDARDS, BARS 4x10 mm
- REAL DIMENSION MUST COMPLY WITH STATIC DESIGN CALCULATION
- EXACT FLAT ROOF'S KEYS IN SLOPE DEWATERINGPLAN DESIGNED BY COMPANY ISOVER

0.000 = 162.00 m.n.s.l., B.H.S. / COORDINATE SYSTEM S-JTSK

LEGEND OF LINTELS 1st ABOVE GROUND FLOOR

SIGN	SKETCH	DESCRIPTION	DIMENSIONS	TOTAL AMOUNT	HEIGHT	NOTE
L1		4 x HELUZ 23.8b-250	2500/70/238	4 x 6 = 24	+2 020 / +2 258	thermally insulated by XPS
L2		4 x HELUZ 23.8b-125	1250/70/238	4 x 6 = 24	+2 020 / +2 258	thermally insulated by XPS
L3		3 x HELUZ 23.8b-250	2500/70/238	3 x 3 = 9	+2 020 / +2 258	
L4		3 x HELUZ 23.8b-125	1250/70/238	3 x 16 = 48	+2 020 / +2 258	
L5		1 x HELUZ 11.5-125	1250/115/71	1 x 25 = 25	+2 020 / +2 269	
L6		4 x HELUZ 23.8b-175	1750/70/238	4 x 26 = 104	+2 295 / +2 533	thermally insulated by XPS

LEGEND OF LINTELS 2nd ABOVE GROUND FLOOR

SIGN	SKETCH	DESCRIPTION	DIMENSIONS	TOTAL AMOUNT	HEIGHT	NOTE
L2		4 x HELUZ 23.8b-125	1250/70/238	4 x 4 = 16	+5 940 / +6 178	thermally insulated by XPS
L3		3 x HELUZ 23.8b-250	2500/70/238	3 x 1 = 3	+5 940 / +6 178	
L4		3 x HELUZ 23.8b-125	1250/70/238	3 x 15 = 45	+5 940 / +6 178	
L5		1 x HELUZ 11.5-125	1250/115/71	1 x 13 = 13	+5 940 / +6 189	
L6		4 x HELUZ 23.8b-175	1750/70/238	4 x 16 = 64	+6 303 / +6 541	thermally insulated by XPS

LEGEND OF MATERIALS

SIGN	DESCRIPTION	DIMENSIONS
CC1	CEILING CARTRIDGE	250 x 525 x 190
CR	CEILING REINF.	130 x 150
TB3	TIE BEAM	400 x 150
TB4	TIE BEAM	615 x 150
TB5	TIE BEAM	615 x 150

SIGN	DESCRIPTION	DIMENSIONS
CB1	CEILING BEAM	7 750 x 160 x 230
CB2	CEILING BEAM	7 500 x 160 x 230
CB5	CEILING BEAM	5 500 x 160 x 230
CB6	CEILING BEAM	5 250 x 160 x 230
CB8	CEILING BEAM	3 500 x 160 x 230

- ALL CEILINGS IN THE SAME HEIGHT: TOP +3 920, BOTTOM +3 545

TYPE OF WORK	DIPLOMA THESIS
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CUSTOMER	John Davidson, Suvorovova 2888/9, 902 01 Pezinok-Staré hora
SITE LOCATION	Suvorovova 2888/9, 902 01 Pezinok-Staré hora
PROJECT TITLE	HOTEL
BUILDING OBJECT	B-1 HOTEL
PART	D.1.1 - Architectonic Solution
DRAWING TITLE:	SECTION 2- 2'

FAKULTA STAVEBNÍ ČVUT pozemního stavitelství

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