

- R1** BUILDING ENVELOP Broof(t1) R15 - HALL
- 1,5 mm mPVC FOIL, MECHANICALLY ANCHORED SEPARATION LAYER FROM POLYPROPYLENE FABRIC 120 g/m2
 - 120 mm THERMAL INSULATION, EPS 100 S $\lambda=0.037$
 - 60 mm THERMAL INSULATION, EPS 150 S STABIL $\lambda=0.035$
 - 60 mm THERMAL INSULATION MW, 2x30 mm $\lambda=0.049$
 - 0,2 mm DIFFUSION BLOCKING PE FOIL
 - 160 mm TR SHEET 160/250 - 1.25 CONCRETE STRUCTURE

- R2** BUILDING ENVELOP Broof(t1) - STAIRCASE
- 1,5 mm mPVC FOIL, MECHANICALLY ANCHORED SEPARATION LAYER FROM POLYPROPYLEN FABRIC 120 g/m2
 - 120 mm THERMAL INSULATION, EPS 150 S STABIL $\lambda=0.035$
 - 0,2 mm DIFFUSION BLOCKING PE FOIL
 - 100 mm TR SHEET STEEL STRUCTURE

- P1.1** FLOOR ON 1.NP, th. 200 mm, STEEL-FIBRE REINFORCED CONCRETE SLAB
- 200 mm STEEL-FIBRE REINFORCED CONCRETE SLAB WITH CONTRACTION JOINTS, SURFACE HARDENER C25/30-XC2 25Kg FIBERS/m2
 - SEPARATION LAYER
 - 1,6 mm WATERPROOFING AND RADONPROOFING PE-HD FOIL
 - SEPARATION LAYER
 - 50 mm LEVELLING GRAVEL, FR. 0-4 mm
 - 300 mm CRUSHED AGGREGATE, COMPACTED BY LAYER TO $E_{def2} = 80$ MPa, E_{def2} / E_{def1} MAX. 2,5
 - SUBSOIL STABILIZATION, E.G. BY LIME TO MIN. $E_{def2} = 100$ MPa

- P1.2** FLOOR ON 1.NP, th. 200 mm, CERAMIC TILING + WP
- 15 mm CERAMIC TILING
 - ADHESIVE
 - PENETRATION
 - 1 mm WATERPROOFING COATING
 - 84 mm CONCRETE SLAB, CONCRETE C25/30, WELDED REINFORCEMENT MESH KY 50
 - SEPARATION LAYER - PE FOIL
 - 100 mm THERMAL INSULATION XPS, LAYED IN TWO LAYER (2x50 mm) $\lambda=0.032$ WITH COVERING OF GAPS
 - 1,6 mm WATERPROOFING AND RADONPROOFING PE-HD FOIL
 - SEPARATION LAYER
 - 50 mm LEVELLING GRAVEL, FR. 0-4 mm
 - 300 mm CRUSHED AGGREGATE, COMPACTED BY LAYER TO $E_{def2} = 80$ MPa, E_{def2} / E_{def1} MAX. 2,5
 - SUBSOIL STABILIZATION, E.G. BY LIME TO MIN. $E_{def2} = 100$ MPa

- P1.3** FLOOR ON 1.NP, th. 200 mm, CERAMIC TILING
- 15 mm CERAMIC TILING
 - ADHESIVE
 - 85 mm CONCRETE SLAB, CONCRETE C25/30, WELDED REINFORCEMENT MESH KY 50
 - SEPARATION LAYER - PE FOIL
 - 100 mm THERMAL INSULATION XPS, LAYED IN TWO LAYER (2x50 mm) $\lambda=0.032$ WITH COVERING OF GAPS
 - 1,6 mm WATERPROOFING AND RADONPROOFING PE-HD FOIL
 - SEPARATION LAYER
 - 50 mm LEVELLING GRAVEL, FR. 0-4 mm
 - 300 mm CRUSHED AGGREGATE, COMPACTED BY LAYER TO $E_{def2} = 80$ MPa, E_{def2} / E_{def1} MAX. 2,5
 - SUBSOIL STABILIZATION, E.G. BY LIME TO MIN. $E_{def2} = 100$ MPa

- P2.1** FLOOR ON 2.NP, th. 110 mm, ANTISTATIC MARMOLEUM
- 5 mm ANTISTATIC MARMOLEUM WITH SYSTEM ADHESIVE
 - 8 mm SELF - LEVELLING SCREED
 - 67 mm CONCRETE SLAB, CONCRETE C25/30, REINFORCEMENT KY 50
 - SEPARATION LAYER - PE FOIL
 - 30 mm THERMAL INSULATION EPS $\lambda=0.037$
 - 250 mm RC PRESTRESSED CEILING SLAB
 - CONCETE STRUCTURE

- P2.2** FLOOR ON 2.NP, th. 110 mm, CERAMIC TILING
- 15 mm CERAMIC TILING
 - ADHESIVE
 - 65 mm ANHYDRIT SCREED C25-F5
 - SEPARATION - PE FOIL
 - 30 mm THERMAL INSULATION EPS $\lambda=0.037$
 - 250 mm RC PRESTRESSED CEILING SLAB
 - CONCETE STRUCTURE

- P2.3** FLOOR ON 2.NP, th. 110 mm, CERAMIC TILING + WF
- 15 mm CERAMIC TILING
 - ADHESIVE
 - PENETRATION
 - 1 mm WATERPROOFING COATING
 - 64 mm ANHYDRIT SCREED C25-F5
 - SEPARATION - PE FOIL
 - 30 mm THERMAL INSULATION EPS $\lambda=0.037$
 - 250 mm RC PRESTRESSED CEILING SLAB
 - CONCETE STRUCTURE

- P3.1** FLOOR ON 3.NP, th. 110 mm, CARPET
- 5 mm CARPET
 - 75 mm ANHYDRIT SCREED C25-F5
 - SEPARATION - PE FOIL
 - 30 mm THERMAL INSULATION EPS $\lambda=0.037$
 - 250 mm RC PRESTRESSED CEILING SLAB
 - CONCETE STRUCTURE

- P3.2** FLOOR ON 3.NP, th. 110 mm, CERAMIC TILING
- 15 mm CERAMIC TILING
 - ADHESIVE
 - 65 mm ANHYDRIT SCREED C25-F5
 - SEPARATION LAYER - PE FOIL
 - 30 mm THERMAL INSULATION EPS $\lambda=0.037$
 - 250 mm RC PRESTRESSED CEILING SLAB
 - CONCETE STRUCTURE

- P3.3** FLOOR ON 3.NP, th. 110 mm, CERAMIC TILING + WF
- 15 mm CERAMIC TILING
 - ADHESIVE
 - PENETRATION LAYER
 - 1 mm WATERPROOFING COATING
 - 64 mm ANHYDRIT SCREED C25-F5
 - SEPARATION LAYER - PE FOIL
 - 30 mm THERMAL INSULATION EPS $\lambda=0.037$
 - 250 mm RC PRESTRESSED CEILING SLAB
 - CONCETE STRUCTURE

- P3.4** FLOOR ON 3.NP, th. 110 mm, MARMOLEUM
- 5 mm ANTISTATIC MARMOLEUM WITH SYSTEM ADHESIVE
 - 8 mm SELF - LEVELING SCREED
 - 57 mm ANHYDRIT SCREED C25-F5
 - SEPARATION LAYER - PE FOIL
 - 30 mm THERMAL INSULATION EPS $\lambda=0.037$
 - 250 mm RC PRESTRESSED CEILING SLAB
 - CONCETE STRUCTURE

- P3.5** TERRACE
- 15 mm CERAMIC TILING - FROST - PROOF HYDROINSULATION FROM POLYPROPYLEN FABRIC 120 g/m2
 - 40/100 mm WELDEL MESH REINFORCED CONCRETE
 - 40 mm TR SHEET 40/160 STEEL STRUCTURE

- W1** HALL ENVELOPE CLADDING (EW30)
- 200 mm VERTICAL FACADE CLADDING MINERAL THERMAL INSULATION CONCRETE STRUCTURE

- W2** STAIRCASE ENVELOPE CLADDING (EW30)
- 80 mm VERTICAL FACADE CLADDING MINERAL THERMAL INSULATION STEEL STRUCTURE

- W3** SUB-BASE
- 8 mm PLASTER + PAINT
 - 100 mm FIBER GLASS MESH
 - 200 mm FROST BEAM

0.000 = 237.550 m H.a.s.l. B.H.S. / COORDINATE SYSTEM S-JTSK

TYPE OF WORK	MASTER'S THESES		<div><div>T</div><div>VYSOKÉ UČENÍ TECHNICKÉ V BRNĚ</div><div>FAKULTA STAVEBNÍ</div></div>	
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SUPERVISED BY	Ing. FRANTIŠEK VAJKAY, Ph.D.			
INVESTOR	Dům Řečkovice s.r.o., Běly Pažoutové 742/1, Komin, 624 00 Brno			
LOCATION	Řečkovice (611646)		<div>PAPER FORMAT</div> A3	
PROJECT TITLE	MULTIFUNCTIONAL BUILDING			
BUILDING OBJECT	SO 201 - HALL EXTENSION			
PART	D.1.1 ARCHITECTURAL PART		DATE	01/2020
DRAWING TITLE	STRUCTURES LAYERS		PROJ. PHASE	CONSTR. DOC.
			SCALE NOT IND.	DRAWING NO. A014