



BRNO UNIVERSITY OF TECHNOLOGY

VYSOKÉ UČENÍ TECHNICKÉ V BRNĚ

FACULTY OF CIVIL ENGINEERING

FAKULTA STAVEBNÍ

INSTITUTE OF BUILDING STRUCTURES

ÚSTAV POZEMNÍHO STAVITELSTVÍ

MUNICIPAL CENTRE IN NIVNICE

MUNICIPAL CENTRE IN NIVNICE

COMPOSITIONS

MASTER'S THESIS

DIPLOMOVÁ PRÁCE

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BRNO 2025

NOTES

COMPOSITION MARKINGS:

W	WALL COMPOSITION
F	FLOOR COMPOSITION
C	CEILING COMPOSITION
R	ROOF COMPOSITION
E	COMPOSITION OF EXTERIORS

THE PRODUCTS/MATERIALS LISTED ARE JUST RECOMMENDED. WHEN USING ALTERNATIVE PRODUCTS/MATERIALS SPECIFIED TECHNICAL CHARACTERISTICS MUST BE PRESERVED (ESPECIALLY STRUCTURAL, THERMAL, ACOUSTIC AND FIRE PROPERTIES). DURING IMPLEMENTATION, ALL REQUIREMENTS, CONDITIONS, AND INSTRUCTIONS SPECIFIED IN THE TECHNICAL DATA SHEETS OF THE INDIVIDUAL PRODUCTS MUST BE FOLLOWED!

REINFORCED CONCRETE ELEMENTS AND THEIR REINFORCEMENT ARE SUBJECT OF STRUCTURAL CALCULATIONS, WHICH ARE NOT INCLUDED IN THIS PROJECT DOCUMENTATION.

W01 - UNDERGROUND PERIPHERAL WALL

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m ²
2	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m ²
3	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_d=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
4	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_d=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15 mm
5	LOAD-BEARING LAYER	FORMWORK BLOCKS	FORMWORK BLOCKS BTB 50/30/25 (P+D), LxWxH 500x300x250mm, STRENGTH IN COMPRESSION 25 MPa, WEIGHT 28kg/PC, CONSUMPTION 8PCS/m ² , FILLED WITH REINFORCED CONCRETE C20/25, STEEL B500B, CONCRETE CONSUMPTION 0,02628/PCS, VOLUME DENSITY WHEN DRY 2100kg/m ³ , FIRE GRADE A1	LAI IN BOND DRY, THEN RF INSERTED AND CONCRETED	300 mm
6	PENETRATION	PRIMER	ASPHALT EMULSION WITHOUT DISSOLVERS, HARDENING TIME < 2h, WORKABLE COLD	APPLIED BY ROLLER OR SPRAY GUN ON CLEAN SURFACE	0,1-0,4 kg/m ²
7	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,5 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=29$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 116$ (±6) m, FIRE GRADE E	MELTED IN POINTS	4 mm
8	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH POLYESTER MAT, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,4 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=28$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 112$ (±6) m, FIRE GRADE E	WHOLE SURFACE MELTING	4 mm
9	ADHESION LAYER	ADHESIVE	BITUMEN WATERPROOFING ADHESIVE COMPOUND FOR XPS ADHESION, FIRE GRADE E	APPLIED BY NOTCHED TROWEL TO SURFACE AND TO XPS BLOCK	3 mm
10	THERMAL INSULATION	XPS	EXTRUDED POLYSTYRENE BLOCKS, 1250x600mm, XPS 300 L, COMPRESSIVE STRENGTH AT 10% DEFORMATION 300 kPa, VOLUME DENSITY 32kg/m ³ , HEAT TRANSFER COEFF. $\lambda_d=0,039$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=50$, EQUIVALENT DIFFUSION THICKNESS $S_d = 8m$, FIRE GRADE E	WHOLE SURFACE ADHESION	160 mm
11	DRAINAGE, FILTRATION, SEPARATION LAYER	NOP FOIL	PROFIED NOP FOIL FROM HDPE (HIGH-DENSITY PE) HEIGHT OF 1 NOP 8 mm, SURFACE DENSITY 450g/m ² COMPRESSIVE STRENGTH 150 kPa, IFFUSION RESISTANCE COEFF. $\mu= 200$ 000	FREELY PLACED WITH NOPS ORIENTED TO THE SOIL, OVERLAP MIN 2 ROWS OF NOPS	8 mm
12	INFILL LAYER	SOIL	ORIGINAL EXCAVATED SOIL, COMPACTED	-	-

W02 - UNDERGROUND PERIPHERAL WALL WITH DILATATION

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m2
2	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m2
3	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m3, HEAT TRANSFER COEFF. $\lambda_0=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
4	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m3, HEAT TRANSFER COEFF. $\lambda_0=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
5	LOAD-BEARING LAYER	FORMWORK BLOCKS	FORMWORK BLOCKS BTB 50/30/25 (P+D), LxWxH 500x300x250mm, STRENGTH IN COMPRESSION 25 MPa, WEIGHT 28kg/PC, CONSUMPTION 8PCS/m ² , FILLED WITH REINFORCED CONCRETE C20/25, STEEL B500B, CONCRETE CONSUMPTION 0,02628kg/PCS, VOLUME DENSITY WHEN DRY 2100kg/m ³ , FIRE GRADE A1	LAI IN BOND DRY, THEN RF INSERTED AND CONCRETED	300mm
6	THERMAL INSULATION & DILATATION LAYER	XPS	EXTRUDED POLYSTYRENE BLOCKS, 1250x600mm, XPS 300 L, COMPRESSIVE STRENGTH AT 10% DEFORMATION 300 kPa, VOLUME DENSITY 32kg/m3, HEAT TRANSFER COEFF. $\lambda_0=0,035$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=50$, EQUIVALENT DIFFUSION THICKNESS $S_d = 4m$, FIRE GRADE E	FREELY PLACED	80mm
7	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH POLYESTER MAT, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,4 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=28$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 112 (\pm 6)$ m, FIRE GRADE E	WHOLE SURFACE MELTING	4mm
8	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,5 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=29$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 116 (\pm 6)$ m, FIRE GRADE E	MELTED IN POINTS	4mm
9	PENETRATION	PRIMER	ASPHALT EMULSION WITHOUT DISSOLVERS, HARDENING TIME < 2h, WORKABLE COLD	APPLIED BY ROLLER OR SPRAY GUN ON CLEAN SURFACE	0,1-0,4 kg/m2
10	LOAD-BEARING LAYER	FORMWORK BLOCKS	FORMWORK BLOCKS BTB 50/15/25 (P+D), LxWxH 500x150x250mm, STRENGTH IN COMPRESSION 25 MPa, WEIGHT 22 kg/PC, CONSUMPTION 8PCS/m ² , FILLED WITH REINFORCED CONCRETE C20/25, STEEL B500B, CONCRETE CONSUMPTION 0,0098kg/PCS, VOLUME DENSITY WHEN DRY 2100kg/m ³ , FIRE GRADE A1	LAI IN BOND DRY, THEN RF INSERTED AND CONCRETED	300mm
11	INFILL LAYER	SOIL	ORIGINAL EXCAVATED SOIL, COMPACTED	-	-

W03 - INTERIOR LOAD-BEARING WALL - a) PAINT b) TILES

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m ²
2	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m ²
3	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_r=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
4	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_r=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
5	LOAD-BEARING LAYER	CERAMIC BLOCKS	CERAMIC BLOCKS POROTHERM 30 PROFI, LxWxH 247x300x249mm, LAID ON THIN MORTAR JOINT, VOLUME DENSITY 750 kg/m ³ , WEIGHT 14,8 kg/PCS, HEAT TRANSFER COEFF. $\lambda_r=0,155$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=5/10$, LABORATORY SOUND RESISTANCE $R_w = 48$ dB, FIRE RESISTANCE REI 180 DP1, STRENGTH P15	LAID ON THIN MORTAR JOINTS	300mm
6	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_r=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
7a	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_r=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
8a	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m ²
9a	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m ²
7b	PENETRATION	PRIMER	PRIMER FOR TILES APPLICATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,15-0,25kg/m ²
8b	WATERPROOFING	PAINT	ONE-LAYERED DISPERSION QUICK-DRYING MATERIAL	APPLIED IN 2 PERPENDICULAR LAYERS BY ROLLER/BRUSH	0,15-0,25kg/m ²
9b	ADHESIVE LAYER	CEMENT GLUE	FLEXIBLE CEMENT BASED GLUE GRADE C2TES1, ANTI-FREEZING, GRAIN SIZE 0-0,3mm, CONSUMPTION 4,0-6,0 kg/m ²	APPLIED BY NOTCHED TROWEL	2-3mm
10b	GROUTING LAYER	GROUT	CEMENT GROUT FOR 2-10mm JOINTS, HYDROFOBIC, NON-ABSORBENT, HIGH WEAR RESISTANCE, GRAIN SIZE 0-0,3mm	APPLIED IN BETWEEN TILE GAPS BY TROWEL	0,3 kg/m ²
11b	SURFACE FINISH	TILES	CERAMIC TILES, 598x598x8mm, MATTE SURFACE, LIGHT GREY COLOUR	INSERTED INTO GLUE, GAP THICKNESS 5mm	8mm

NOTE: 7b - WATERPROOFING USED ONLY IN BATHROOMS AND TOILETS
 - CORNERS - VERTICAL+HORIZONTAL CONNECTIONS - SEALED WITH FLEXIBLE SEALING TAPE

W04 - PARTITION th. 115mm - a) PAINT b) TILES

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m2
2	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m2
3	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m3, HEAT TRANSFER COEFF. $\lambda_r=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
4	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m3, HEAT TRANSFER COEFF. $\lambda_r=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
5	LOAD-BEARING LAYER	CERAMIC BLOCKS	CERAMIC BLOCKS POROTHERM 11,5 PROFI, LxWxH 497x115x249mm, LAID ON THIN MORTAR JOINT, VOLUME DENSITY 750 kg/m ³ , WEIGHT 11,0 kg/PCS, HEAT TRANSFER COEFF. $\lambda_r=0,20$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=5/10$, LABORATORY SOUND RESISTANCE $R_w = 43$ dB, FIRE RESISTANCE EI 120 DP1	LAID ON THIN MORTAR JOINTS	300mm
6	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m3, HEAT TRANSFER COEFF. $\lambda_r=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
7a	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m3, HEAT TRANSFER COEFF. $\lambda_r=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
8a	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m2
9a	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m2
7b	PENETRATION	PRIMER	PRIMER FOR TILES APPLICATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,15-0,25kg/m2
8b	WATERPROOFING	PAINT	ONE-LAYERED DISPERSION QUICK-DRYING MATERIAL	APPLIED IN 2 PERPENDICULAR LAYERS BY ROLLER/BRUSH	0,15-0,25kg/m2
9b	ADHESIVE LAYER	CEMENT GLUE	FLEXIBLE CEMENT BASED GLUE GRADE C2TES1, ANTI-FREEZING, GRAIN SIZE 0-0,3mm, CONSUMPTION 4,0-6,0 kg/m ²	APPLIED BY NOTCHED TROWEL	2-3mm
10b	GROUTING LAYER	GROUT	CEMENT GROUT FOR 2-10mm JOINTS, HYDROFOBIC, NON-ABSORBENT,HIGH WEAR RESISTANCE, GRAIN SIZE 0-0,3mm	APPLIED IN BETWEEN TILE GAPS BY TROWEL	0,3 kg/m2
11b	SURFACE FINISH	TILES	CERAMIC TILES, 598x598x8mm, MATTE SURFACE, LIGHT GREY COLOUR	INSERTED INTO GLUE, GAP THICKNESS 5mm	8mm

NOTE: 7b - WATERPROOFING USED ONLY IN BATHROOMS AND TOILETS

- CORNERS - VERTICAL+HORIZONTAL CONNECTIONS - SEALED WITH FLEXIBLE SEALING TAPE

W05 - PARTITION th. 80 mm - a) PAINT b) TILES

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m2
2	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m2
3	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m3, HEAT TRANSFER COEFF. $\lambda_r=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
4	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m3, HEAT TRANSFER COEFF. $\lambda_r=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
5	LOAD-BEARING LAYER	CERAMIC BLOCKS	CERAMIC BLOCKS POROTHERM 8 PROFI, LxWxH 497x80x249mm, LAID ON THIN MORTAR JOINT, VOLUME DENSITY 900 kg/m ³ , WEIGHT 8,8 kg/PCS, HEAT TRANSFER COEFF. $\lambda_r=0,21$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=5/10$, LABORATORY SOUND RESISTANCE $R_w = 38$ dB, FIRE RESISTANCE EI 90 DP1	LAID ON THIN MORTAR JOINTS	300mm
6	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m3, HEAT TRANSFER COEFF. $\lambda_r=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
7a	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m3, HEAT TRANSFER COEFF. $\lambda_r=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
8a	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m2
9a	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m2
7b	PENETRATION	PRIMER	PRIMER FOR TILES APPLICATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,15-0,25kg/m2
8b	WATERPROOFING	PAINT	ONE-LAYERED DISPERSION QUICK-DRYING MATERIAL	APPLIED IN 2 PERPENDICULAR LAYERS BY ROLLER/BRUSH	0,15-0,25kg/m2
9b	ADHESIVE LAYER	CEMENT GLUE	FLEXIBLE CEMENT BASED GLUE GRADE C2TES1, ANTI-FREEZING, GRAIN SIZE 0-0,3mm, CONSUMPTION 4,0-6,0 kg/m ²	APPLIED BY NOTCHED TROWEL	2-3mm
10b	GROUTING LAYER	GROUT	CEMENT GROUT FOR 2-10mm JOINTS, HYDROFOBIC, NON-ABSORBENT, HIGH WEAR RESISTANCE, GRAIN SIZE 0-0,3mm	APPLIED IN BETWEEN TILE GAPS BY TROWEL	0,3 kg/m2
11b	SURFACE FINISH	TILES	CERAMIC TILES, 598x598x8mm, MATTE SURFACE, LIGHT GREY COLOUR	INSERTED INTO GLUE, GAP THICKNESS 5mm	8mm

NOTE: 7b - WATERPROOFING USED ONLY IN BATHROOMS AND TOILETS

- CORNERS - VERTICAL+HORIZONTAL CONNECTIONS - SEALED WITH FLEXIBLE SEALING TAPE

W06 - EXTERIOR PERIPHERAL WALL

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m ²
2	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m ²
3	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_d=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
4	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_d=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
5	LOAD-BEARING LAYER	CERAMIC BLOCKS	CERAMIC BLOCKS POROTHERM 30 PROFI, LxWxH 247x300x249mm, LAID ON THIN MORTAR JOINT, VOLUME DENSITY 750 kg/m ³ , WEIGHT 14,8 kg/PCS, HEAT TRANSFER COEFF. $\lambda_d=0,155$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=5/10$, LABORATORY SOUND RESISTANCE $R_w = 48$ dB, FIRE RESISTANCE REI 180 DP1, STRENGTH P15	LAID ON THIN MORTAR JOINTS	300mm
6	PENETRATION	PRIMER	PRIMER FOR APPLICATION OF THERMAL INSULATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,04_0,08 kg/m ²
7	ADHESIVE LAYER	CEMENT GLUE	CEMENT BASED GLUE FOR ADHESION AND STRENGTHENING OF TI IN ETICS SYSTEMS, GRAIN SIZE 0,7mm, HEAT TRANSFER COEFF. $\lambda_d=0,51$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=18$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,18m$, FIRE GRADE A1, CONSUMPTION 4,0-6,0 kg/m ²	APPLIED ON TI BOARDS AROUND PERIMETER AND min. ON 3 POINTS ON SURFACE	5-15mm
8	THERMAL INSULATION	MINERAL WOOL	MINERAL WOOL BLOCKS, 1000x600mm, FKS THERMAL, COMPRESSIVE STRENGTH AT 10% DEFORMATION 30 kPa, VOLUME DENSITY 120kg/m ³ , HEAT TRANSFER COEFF. $\lambda_d=0,034$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=1$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,16m$, FIRE GRADE A1	GLUED BY CEMENT GLUE AND THEN SECURED BY CLAMPING PLATE PEG WITH METAL SHANK AND POLYSTYRENE PLUG	200mm
9	LEVELING LAYER	CEMENT GLUE & MESH	CEMENT BASED GLUE FOR ADHESION AND STRENGTHENING OF TI IN ETICS SYSTEMS, GRAIN SIZE 0,7mm, HEAT TRANSFER COEFF. $\lambda_d=0,51$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=18$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,18m$, FIRE GRADE A1, CONSUMPTION 4,0-6,0 kg/m ² GLASS FIBRE MESH FOR STRENGTHENING OF BASE LAYER, DIMENSIONS 3,5x3,8mm, SURFACE VOLUME 160g/m ²	APPLIED ON TI BOARDS AROUND PERIMETER AND min. ON 3 POINTS ON SURFACE	3 mm
10	PENETRATION	PRIMER	PRIMER FOR SILICONE EXTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m ²
11	SURFACE FINISH	PLASTER	THIN-LAYERED PASTY FACADE SILICONE PLASTER, LOW WATER ABSORPTION, GRAIN SIZE 2,0mm, HEAT TRANSFER COEFF. $\lambda_d=0,62$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=25$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,05 m$, FIRE GRADE A2, CONSUMPTION 2,8 kg/m ²	EVENLY APPLIED BY TROWEL	2 mm

W07 - ACOUSTIC PARTITION th. 115mm

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m ²
2	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m ²
3	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_v=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
4	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_v=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
5	LOAD-BEARING LAYER	CERAMIC BLOCKS	CERAMIC BLOCKS POROTHERM 11,5 AKU, LxWxH 497x115x249mm, LAID ON THIN MORTAR JOINT, VOLUME DENSITY 1050 kg/m ³ , WEIGHT 14,4 kg/PCS, HEAT TRANSFER COEFF. $\lambda_v=0,34$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=5/10$, LABORATORY SOUND RESISTANCE $R_w = 47$ dB, FIRE RESISTANCE REI 120 DP1	LAID ON THIN MORTAR JOINTS	300mm
6a	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_v=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
7a	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_v=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
8a	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m ²
9a	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m ²

W08 - PARAPET WALL

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH POLYESTER MAT, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,4 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=28\ 000$, EQUIVALENT DIFFUSION THICKNESS $S_d = 112 (\pm 6)$ m, FIRE GRADE E	WHOLE SURFACE MELTING	4mm
2	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,5 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=29\ 000$, EQUIVALENT DIFFUSION THICKNESS $S_d = 116 (\pm 6)$ m, FIRE GRADE E	SLEF-ADHESIVE	4mm
3	THERMAL INSULATION	EPS	FACADE EXPANDED POLYSTYRENE BLOCKS, EPS 70F, 1000x500mm, COMPRESSIVE STRENGTH AT 10% DEFORMATION 70 kPa, VOLUME DENSITY 15kg/m ³ , HEAT TRANSFER COEFF. $\lambda_D=0,038$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20-40$, EQUIVALENT DIFFUSION THICKNESS $S_d = 6,4$ m, FIRE GRADE E	GLUED	160mm
4	ADHESION LAYER	ADHESIVE	BITUMEN WATERPROOFING ADHESIVE COMPOUND FOR EPS ADHESION, FIRE GRADE E	APPLIED BY NOTCHED TROWEL TO SURFACE AND TO EPS BLOCK	6,0l/m2
5	WATER VAPOR BARRIER	ASPHALT FELT	OXIDISED ASPHALT FELT TYPE S WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,8 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=40\ 000$, EQUIVALENT DIFFUSION THICKNESS $S_d = 160$ m, FIRE GRADE E	WHOLE SURFACE MELTING	4mm
6	PENETRATION	PRIMER	ASPHALT EMULSION WITHOUT DISSOLVERS, HARDENING TIME < 2h, WORKABLE COLD	APPLIED BY ROLLER OR SPRAY GUN ON CLEAN SURFACE	0,1-0,4 kg/m2
7	LOAD-BEARING LAYER	CERAMIC BLOCKS	CERAMIC BLOCKS POROTHERM 20 PROFI, LxWxH 500x200x249mm, LAID ON THIN MORTAR JOINT, VOLUME DENSITY 750 kg/m ³ , WEIGHT 18,7 kg/PCS, HEAT TRANSFER COEFF. $\lambda_D=0,285$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=5/10$, LABORATORY SOUND RESISTANCE $R_w = 44$ dB, FIRE RESISTANCE REI 120 DP1	LAID ON THIN MORTAR JOINTS	200mm
8	PENETRATION	PRIMER	PRIMER FOR APPLICATION OF THERMAL INSULATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,04_0,08 kg/m2
9	ADHESIVE LAYER	CEMENT GLUE	CEMENT BASED GLUE FOR ADHESION AND STRENGTHENING OF TI IN ETICS SYSTEMS, GRAIN SIZE 0,7mm, HEAT TRANSFER COEFF. $\lambda_D=0,51$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=18$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,18$ m, FIRE GRADE A1, CONSUMPTION 4,0-6,0 kg/m ²	APPLIED ON TI BOARDS AROUND PERIMETER AND min. ON 3 POINTS ON SURFACE	5-15mm
10	THERMAL INSULATION	MINERAL WOOL	MINERAL WOOL BLOCKS, 1000x600mm, FKD S THERMAL, COMPRESSIVE STRENGTH AT 10% DEFORMATION 30 kPa, VOLUME DENSITY 120kg/m3, HEAT TRANSFER COEFF. $\lambda_D=0,034$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=1$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,16$ m, FIRE GRADE A1	GLUED BY CEMENT GLUE AND THEN SECURED BY CLAMPING PLATE PEG WITH METAL SHANK AND POLYSTYRENE PLUG	200mm
11	LEVELING LAYER	CEMENT GLUE & MESH	CEMENT BASED GLUE FOR ADHESION AND STRENGTHENING OF TI IN ETICS SYSTEMS, GRAIN SIZE 0,7mm, HEAT TRANSFER COEFF. $\lambda_D=0,51$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=18$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,18$ m, FIRE GRADE A1, CONSUMPTION 4,0-6,0 kg/m ² GLASS FIBRE MESH FOR STRENGTHENING OF BASE LAYER, DIMENSIONS 3,5x3,8mm, SURFACE VOLUME 160g/m ²	APPLIED ON TI BOARDS AROUND PERIMETER AND min. ON 3 POINTS ON SURFACE	3 mm
12	PENETRATION	PRIMER	PRIMER FOR SILICONE EXTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m2
13	SURFACE FINISH	PLASTER	THIN-LAYERED PASTY FACADE SILICONE PLASTER, LOW WATER ABSORPTION, GRAIN SIZE 2,0mm, HEAT TRANSFER COEFF. $\lambda_D=0,62$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=25$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,05$ m, FIRE GRADE A2, CONSUMPTION 2,8 kg/m ²	EVENLY APPLIED BY TROWEL	2 mm

W09 - PLINTH

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m ²
2	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m ²
3	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_d=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
4	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_d=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15 mm
5	LOAD-BEARING LAYER	FORMWORK BLOCKS	FORMWORK BLOCKS BTB 50/30/25 (P+D), LxWxH 500x300x250mm, STRENGTH IN COMPRESSION 25 MPa, WEIGHT 28kg/PC, CONSUMPTION 8PCS/m ² , FILLED WITH REINFORCED CONCRETE C20/25, STEEL B500B, CONCRETE CONSUMPTION 0,02628/PCS, VOLUME DENSITY WHEN DRY 2100kg/m ³ , FIRE GRADE A1	LAID IN BOND DRY, THEN RF INSERTED AND CONCRETED	300 mm
6	PENETRATION	PRIMER	ASPHALT EMULSION WITHOUT DISSOLVERS, HARDENING TIME < 2h, WORKABLE COLD	APPLIED BY ROLLER OR SPRAY GUN ON CLEAN SURFACE	0,1-0,4 kg/m ²
7	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,5 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=29$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 116$ (± 6) m, FIRE GRADE E	MELTED IN POINTS	4 mm
8	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH POLYESTER MAT, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,4 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=28$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 112$ (± 6) m, FIRE GRADE E	WHOLE SURFACE MELTING WHOLE SURFACE ADHESION	4 mm
9	ADHESION LAYER	ADHESIVE	BITUMEN WATERPROOFING ADHESIVE COMPOUND FOR XPS ADHESION, FIRE GRADE E	APPLIED BY NOTCHED TROWEL TO SURFACE AND TO XPS BLOCK	3 mm
10	THERMAL INSULATION	XPS	EXTRUDED POLYSTYRENE BLOCKS, 1250x600mm, XPS 300 L, COMPRESSIVE STRENGTH AT 10% DEFORMATION 300 kPa, VOLUME DENSITY 32kg/m ³ , HEAT TRANSFER COEFF. $\lambda_d=0,039$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=50$, EQUIVALENT DIFFUSION THICKNESS $S_d = 8m$, FIRE GRADE E	WHOLE SURFACE ADHESION	160 mm
11	LEVELING LAYER	CEMENT GLUE & MESH	CEMENT BASED GLUE FOR ADHESION AND STRENGTHENING OF TI IN ETICS SYSTEMS, GRAIN SIZE 0,7mm, HEAT TRANSFER COEFF. $\lambda_d=0,51$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=18$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,18m$, FIRE GRADE A1, CONSUMPTION 4,0-6,0 kg/m ² GLASS FIBRE MESH FOR STRENGTHENING OF BASE LAYER, DIMENSIONS 3,5x3,8mm, SURFACE VOLUME 160g/m ²	APPLIED ON TI BOARDS AROUND PERIMETER AND min. ON 3 POINTS ON SURFACE	3 mm
12	PENETRATION	PRIMER	PRIMER FOR MOSAIC PLASTERS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,4 kg/m ²
13	SURFACE FINISH	PLASTER	PLINTH THIN-LAYERED FACADE MOSAIC PLASTER, MARMOLIT, LOW WATER ABSORPTION, GRAIN SIZE 1,6mm, HEAT TRANSFER COEFF. $\lambda_d=0,28$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=204$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,408$ m, FIRE GRADE A2, CONSUMPTION 6,5 kg/m ² , VESUVIUS COLOUR - GREY	EVENLY APPLIED BY TROWEL	2 mm

F01 - FLOOR IN BASEMENT - EPOXY

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	EPOXY	FINAL UNDILUTED EPOXY LAYER, FOR INDUSTRIAL STRESSED FLOORINGS, RESISTANT AGAINST MECHANICAL DAMAGE, ANTISLIP SURFACE, MATTE COLOUR, DENSITY 1300g/m ³ , CONSUMPTION 0,45 kg/m ²	EVENLY APPLIED BY ROLLER WITH LOW HAIR PILE	2 mm
2	BASE LAYER	EPOXY	BASE LAYER FROM 5-10% DILUTED EPOXY COATING, DILUTED WITH EPOXY COATING THINNER, CONSUMPTION 0,2 kg/m ²	EVENLY APPLIED BY ROLLER WITH LOW HAIR PILE	1 mm
3	PENETRATION	PRIMER	20-30% DILUTED EPOXY COATING, DILUTED WITH EPOXY COATING THINNER	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. 1,5 MPa	0,1 kg/m ²
4	LEVELING LAYER	CEMENT SCREED	SELF-LEVELING CEMENT SCREED, MEDIUM LOADING, STRENGTH GRADE C30, DENSITY 1850kg/m ³ , HEAT TRANSFER COEFF. $\lambda=1,2$ W/mK, FIRE GRADE A1, CONSUMPTION 0,17 kg/m ²	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. 1,5 MPa	50 mm
5	SEPARATION LAYER	PE FOIL	SEPARATION PE FOIL WITHOUT STRENGTHENING LINEN, DIFFUSION RESISTANCE COEFF. $\mu=345\ 000$, EQUIVALENT DIFFUSION THICKNESS $S_d = 110$ ($\pm 7,5$) m, FIRE GRADE E	FREELY PLACED, MIN OVERLAPS 100 mm CONNECTED BY ADHESIVE BUTYL RUBBER TAPE	0,185 kg/m ²
6	THERMAL INSULATION	EPS	BOARDS FROM GREY EPS 150 POLYSTYRENE, 1000x500mm, COMPRESSIVE STRENGTH AT 10% DEFORMATION 150 kPa, VOLUME DENSITY 23-25 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_0=0,032$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=30-70$, EQUIVALENT DIFFUSION THICKNESS $S_d = 3-7$ m, FIRE GRADE E	FREELY PLACED	2x50 mm
7	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH POLYESTER MAT, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,4 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=28\ 000$, EQUIVALENT DIFFUSION THICKNESS $S_d = 112$ (± 6) m, FIRE GRADE E	WHOLE SURFACE MELTING	4mm
8	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,5 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=29\ 000$, EQUIVALENT DIFFUSION THICKNESS $S_d = 116$ (± 6) m, FIRE GRADE E	MELTED IN POINTS	4mm
9	PENETRATION	PRIMER	ASPHALT EMULSION WITHOUT DISSOLVERS, HARDENING TIME < 2h, WORKABLE COLD	APPLIED BY ROLLER OR SPRAY GUN ON CLEAN SURFACE	0,1-0,4 kg/m ²
10	LOAD-BEARING LAYER	OVERSITE CONCRETE	PLAIN CONCRETE SLAB, C20/25, REINFORCED WITH 2xKARI MESH KH20, 6x150x150mm, OVERLAP 450mm, CONNECTED BY BINDING WIRE	CONCRETED INTO FORMWORK BY CONCRETE MIXER TRUCK WITH PUMP, SMOOTHENED AND COMPACTED	150mm
11	BEDDING	GRAVEL	GRAVEL FRACTION 16/32mm	COMPACTED	100
12	SEPARATION LAYER	GEOTEXTILE	NON WOVEN GEOTEXTILE, 100% POLYPROPYLENE, SIZE OF HOLES 95 μ m, WATER PERMEABILITY PERPENDICULAR TO THE PLANE $5,2 \cdot 10^{-2}$ m/s	FREELY PLACED	300 g/m ²
13	TERRAIN	SOIL	ORIGINAL SOIL, COMPACTED	-	-

TOTAL FLOORING THICKNESS: 160mm

F02 - FLOOR IN 1NP ABOVE BASEMENT - TILES

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	TILES	CERAMIC TILES, 598x598x8mm, MATTE SURFACE, LIGHT GREY COLOUR	INSERTED INTO GLUE, GAP THICKNESS 5mm	8mm
2	GROUTING LAYER	GROUT	CEMENT GROUT FOR 2-10mm JOINTS, HYDROFOBIC, NON-ABSORBENT, HIGH WEAR RESISTANCE, GRAIN SIZE 0-0,3mm	APPLIED IN BETWEEN TILE GAPS BY TROWEL	0,3 kg/m2
3	ADHESIVE LAYER	CEMENT GLUE	FLEXIBLE CEMENT BASED GLUE GRADE C2TES1, ANTI-FREEZING, GRAIN SIZE 0-0,3mm, CONSUMPTION 4,0-6,0 kg/m ²	APPLIED BY NOTCHED TROWEL	2-3mm
3b	WATERPROOFING	PAINT	ONE-LAYERED DISPERSION QUICK-DRYING MATERIAL	APPLIED IN 2 PERPENDICULAR LAYERS BY ROLLER/BRUSH	1,2-1,6 kg/m2
4	PENETRATION	PRIMER	PRIMER FOR TILES APPLICATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,15-0,25kg/m2
5	LEVELING LAYER	CEMENT SCREED	SELF-LEVELING CEMENT SCREED, MEDIUM LOADING, STRENGTH GRADE C30, DENSITY 1850kg/m3, HEAT TRANSFER COEFF. $\lambda=1,2$ W/mK, FIRE GRADE A1, CONSUMPTION 0,17 kg/m2	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. 1,5 MPa	50 mm
6	SEPARATION LAYER	PE FOIL	SEPARATION PE FOIL WITHOUT STRENGTHENING LINEN, DIFFUSION RESISTANCE COEFF. $\mu=345$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 110$ ($\pm 7,5$) m, FIRE GRADE E	FREELY PLACED, MIN OVERLAPS 100 mm CONNECTED BY ADHESIVE BUTYL RUBBER TAPE	0,185 kg/m2
7	THERMAL & ACOUSTIC INSULATION	EPS	BOARDS FROM GREY EPS 150 POLYSTYRENE, 1000x500mm, COMPRESSIVE STRENGTH AT 10% DEFORMATION 150 kPa, VOLUME DENSITY 23-25 kg/m3, HEAT TRANSFER COEFF. $\lambda_d=0,032$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=30-70$, EQUIVALENT DIFFUSION THICKNESS $S_d = 3-7$ m, FIRE GRADE E	FREELY PLACED	2x50 mm
8	LOAD-BEARING LAYER	SPIROLL PANEL	PREFABRICATED SPIROLL PANEL, WEIGHT 296kg/m, PERMANENT LOADING 1,5 kN/m2, COVER 29mm, C45/55XC1, STRENGTH 45 MPa, THERMAL RESISTANCE $R=0,19$ m2K/W, SOUND RESISTANCE $R_w = 50$ dB, FIRE RESISTANCE REI 45 DP1		200mm

NOTE: 3b - WATERPROOFING USED ONLY IN BATHROOMS AND TOILETS

- CORNERS - VERTICAL+HORIZONTAL CONNECTIONS - SEALED WITH FLEXIBLE SEALING TAPE

TOTAL FLOORING THICKNESS: 160mm

F03 - FLOOR IN 1NP ABOVE BASEMENT - VINYL FLOORING

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	VINYL FLOOR	100% POLYVINYLCHLORIDE ROLL, SURFACE VOLUME 2200g/m2, THERMAL RESISTANCE $R=0,016$ m2K/W, ATISLIP SURFACE R10, SOUND RESISTANCE $R_w=18$ dB, FIRE GRADE B, WHITE OAK COLOUR	GLUED	4 mm
2	ADHESIVE LAYER	GLUE	POLYURETHANE FLEXIBLE GLUE, CONSUMPTION 180-380 g/m2	APPLIED BY TROWEL	2 mm
3	PENETRATION	PRIMER	PRIMER FOR VINYL FLOORING PREPARATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH ON CLEAN SURFACE	0,15-0,35 kg/m2
4	LEVELING LAYER	CEMENT SCREED	SELF-LEVELING CEMENT SCREED, MEDIUM LOADING, STRENGTH GRADE C30, DENSITY 1850kg/m3, HEAT TRANSFER COEFF. $\lambda=1,2$ W/mK, FIRE GRADE A1, CONSUMPTION 0,17 kg/m2	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. 1,5 MPa	54 mm
5	SEPARATION LAYER	PE FOIL	SEPARATION PE FOIL WITHOUT STRENGTHENING LINEN, DIFFUSION RESISTANCE COEFF. $\mu=345$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 110$ ($\pm 7,5$) m, FIRE GRADE E	FREELY PLACED, MIN OVERLAPS 100 mm CONNECTED BY ADHESIVE BUTYL RUBBER TAPE	0,185 kg/m2
6	THERMAL & ACOUSTIC INSULATION	EPS	BOARDS FROM GREY EPS 150 POLYSTYRENE, 1000x500mm, COMPRESSIVE STRENGTH AT 10% DEFORMATION 150 kPa, VOLUME DENSITY 23-25 kg/m3, HEAT TRANSFER COEFF. $\lambda_d=0,032$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=30-70$, EQUIVALENT DIFFUSION THICKNESS $S_d = 3-7$ m, FIRE GRADE E	FREELY PLACED	2x50 mm
7	LOAD-BEARING LAYER	SPIROLL PANEL	PREFABRICATED SPIROLL PANEL, WEIGHT 296kg/m, PERMANENT LOADING 1,5 kN/m2, COVER 29mm, C45/55XC1, STRENGTH 45 MPa, THERMAL RESISTANCE $R=0,19$ m2K/W, SOUND RESISTANCE $R_w = 50$ dB, FIRE RESISTANCE REI 45 DP1		200mm

TOTAL FLOORING THICKNESS: 160mm

F04 - FLOOR ON 1S STAIRCASE

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	PAINT	ONE-LAYERED WATER DILUTED FLEXIBLE PAINT FOR CONCRETE, BASED ON ACRYLIC DISPERSION, ANTISLIP SURFACE, RESISTANT AGAINST MECHANICAL DEMAGE, GREY COLOUR, FIRE GRADE E	APPLIED BY ROLLER	6-7,5 kg/m2
2	PENETRATION	PRIMER	DILUTED PAINT IN RATIO 1:5 /1:10	EVENLY APPLIED BY ROLLER OR PAINT BRUSH ON CLEAN SURFACE	6-7,5 kg/m2
3	LOAD-BEARING LAYER	PREFAB. STIARCASE	PREFABRICATED STAIRCASE, RIBBED SURFACE, C30/37, FIRE RESISTANCE REI 120 DP1	SECURED BY L PROFILES	150mm

NOTE: FISRT AND LAST STEP ARE DISTINGUISHEDBY COLOUR STRIP

F05 - FLOOR ON 1NP STAIRCASE

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	TILES	CERAMIC TILES, 598x598x8mm, MATTE SURFACE, LIGHT GREY COLOUR	INSERTED INTO GLUE, GAP THICKNESS 5mm	8mm
2	GROUTING LAYER	GROUT	CEMENT GROUT FOR 2-10mm JOINTS, HYDROFOBIC, NON-ABSORBENT,HIGH WEAR RESISTANCE, GRAIN SIZE 0-0,3mm	APPLIED IN BETWEEN TILE GAPS BY TROWEL	0,3 kg/m2
3	ADHESIVE LAYER	CEMENT GLUE	FLEXIBLE CEMENT BASED GLUE GRADE C2TES1, ANTI-FREEZING, GRAIN SIZE 0-0,3mm, CONSUMPTION 4,0-6,0 kg/m ²	APPLIED BY NOTCHED TROWEL	2-3mm
4	PENETRATION	PRIMER	PRIMER FOR TILES APPLICATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,15-0,25kg/m2
5	LOAD-BEARING LAYER	PREFAB. STIARCASE	PREFABRICATED STAIRCASE, RIBBED SURFACE, C30/37, FIRE RESISTANCE REI 120 DP1	SECURED BY L PROFILES	150mm

NOTE: FISRT AND LAST STEP ARE DISTINGUISHEDBY COLOUR STRIP

F06 - FLOOR IN CEREMONY HALL - WOODEN

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	WOODEN FLOOR	OAK WOODEN PARQUETS, 13x155x1500mm, 2-LAYERED, THERMAL RESISTANCE $R=0,08 \text{ m}^2\text{K/W}$, TOP LAYER PROTECTED BY WAX OIL, WHITE OAK COLOUR	LOCK AND KEY CONNECTION OF PARQUETS	18 mm
2	UNDERLAY LAYER	PE FOIL	PE FOIL UNDER WOODEN FLOORS WITH ALU VAPOUR BARRIER, SOUND REDUCTION $R_w = 17 \text{ dB}$, THERMAL RESISTANCE $R = 0,039 \text{ m}^2\text{K/W}$, EQUIVALENT DIFFUSION THICKNESS $S_d = 820 \text{ m}$, FIRE GRADE E	FREELY PLACED	2 mm
3	LEVELING LAYER	CEMENT SCREED	SELF-LEVELING CEMENT SCREED, MEDIUM LOADING, STRENGTH GRADE C30, DENSITY 1850 kg/m^3 , HEAT TRANSFER COEFF. $\lambda=1,2 \text{ W/mK}$, FIRE GRADE A1, CONSUMPTION $0,17 \text{ kg/m}^2$	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. $1,5 \text{ MPa}$	50 mm
4	SEPARATION LAYER	PE FOIL	SEPARATION PE FOIL WITHOUT STRENGTHENING LINEN, DIFFUSION RESISTANCE COEFF. $\mu=345 \text{ 000}$, EQUIVALENT DIFFUSION THICKNESS $S_d = 110 (\pm 7,5) \text{ m}$, FIRE GRADE E	FREELY PLACED, MIN OVERLAPS 100 mm CONNECTED BY ADHESIVE BUTYL RUBBER TAPE	0,185 kg/m2
5	THERMAL INSULATION	EPS	BOARDS FROM GREY EPS 150 POLYSTYRENE, $1000 \times 500 \text{ mm}$, COMPRESSIVE STRENGTH AT 10% DEFORMATION 150 kPa , VOLUME DENSITY $23\text{-}25 \text{ kg/m}^3$, HEAT TRANSFER COEFF. $\lambda_i=0,032 \text{ W/mK}$, DIFFUSION RESISTANCE COEFF. $\mu=30\text{-}70$, EQUIVALENT DIFFUSION THICKNESS $S_d = 3\text{-}7 \text{ m}$, FIRE GRADE E	FREELY PLACED	2x50 mm
6	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH POLYESTER MAT, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY $4,4 \text{ kg/m}^2$, DIFFUSION RESISTANCE COEFF. $\mu=28 \text{ 000}$, EQUIVALENT DIFFUSION THICKNESS $S_d = 112 (\pm 6) \text{ m}$, FIRE GRADE E	WHOLE SURFACE MELTING	4mm
7	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY $4,5 \text{ kg/m}^2$, DIFFUSION RESISTANCE COEFF. $\mu=29 \text{ 000}$, EQUIVALENT DIFFUSION THICKNESS $S_d = 116 (\pm 6) \text{ m}$, FIRE GRADE E	MELTED IN POINTS	4mm
8	PENETRATION	PRIMER	ASPHALT EMULSION WITHOUT DISSOLVERS, HARDENING TIME $< 2 \text{ h}$, WORKABLE COLD	APPLIED BY ROLLER OR SPRAY GUN ON CLEAN SURFACE	0,1-0,4 kg/m2
9	LOAD-BEARING LAYER	OVERSITE CONCRETE	PLAIN CONCRETE SLAB, C20/25, REINFORCED EITH 2xKARI MESH KH20, $6 \times 150 \times 150 \text{ mm}$, OVERLAP 450 mm , CONNECTED BY BINDING WIRE	CONCRETED INTO FORMWORK BY CONCRETE MIXER TRUCK WITH PUMP, SMOOTHENED AND COMPACTED	150mm
10	BEDDING	GRAVEL	GRAVEL FRACTION 16/32mm	COMPACTED	100
11	SEPARATION LAYER	GEOTEXTILE	NON WOVEN GEOTEXTILE, 100% POLYPROPYLENE, SIZE OF HOLES $95 \mu\text{m}$, WATER PERMEABILITY PERPENDICULAR TO THE PLANE $5,2 \times 10^{-2} \text{ m/s}$	FREELY PLACED	300 g/m2
12	TERRAIN	SOIL	ORIGINAL SOIL, COMPACTED	-	-

TOTAL FLOORING THICKNESS: 170mm

F07 - FLOOR IN 2NP - VINYL FLOORING

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	VINYL FLOOR	100% POLYVINYLCHLORIDE ROLL, SURFACE VOLUME 2200g/m ² , THERMAL RESISTANCE R=0,016m ² K/W, ATISLIP SURFACE R10, SOUND RESISTANCE R _w =18dB, FIRE GRADE B, WHITE OAK COLOUR	GLUED	4 mm
2	ADHESIVE LAYER	GLUE	POLYURETHANE FLEXIBLE GLUE, CONSUMPTION 180-380 g/m ²	APPLIED BY TROWEL	2 mm
3	PENETRATION	PRIMER	PRIMER FOR VINYL FLOORING PREPARATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH ON CLEAN SURFACE	0,15-0,35 kg/m ²
4	LEVELING LAYER	CEMENT SCREED	SELF-LEVELING CEMENT SCREED, MEDIUM LOADING, STRENGTH GRADE C30, DENSITY 1850kg/m ³ , HEAT TRANSFER COEFF. λ=1,2 W/mK, FIRE GRADE A1, CONSUMPTION 0,17 kg/m ²	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. 1,5 MPa	44 mm
5	SEPARATION LAYER	PE FOIL	SEPARATION PE FOIL WITHOUT STRENGTHENING LINEN, DIFFUSION RESISTANCE COEFF. μ=345 000, EQUIVALENT DIFFUSION THICKNESS S _d = 110 (±7,5) m, FIRE GRADE E	FREELY PLACED, MIN OVERLAPS 100 mm CONNECTED BY ADHESIVE BUTYL RUBBER TAPE	0,185 kg/m ²
6	THERMAL & ACOUSTIC INSULATION	EPS	BOARDS FROM GREY EPS 150 POLYSTYRENE, 1000x500mm, COMPRESSIVE STRENGTH AT 10% DEFORMATION 150 kPa, VOLUME DENSITY 23-25 kg/m ³ , HEAT TRANSFER COEFF. λ ₀ =0,032 W/mK, DIFFUSION RESISTANCE COEFF. μ=30-70, EQUIVALENT DIFFUSION THICKNESS S _d = 1,5 -3,5m, FIRE GRADE E	FREELY PLACED	50 mm
7	LOAD-BEARING LAYER	SPIROLL PANEL	PREFABRICATED SPIROLL PANEL, WEIGHT 296kg/m, PERMANENT LOADING 1,5 kN/m ² , COVER 29mm, C45/55XC1, STRENGTH 45 MPa, THERMAL RESISTANCE R=0,19 m ² K/W, SOUND RESISTANCE R _w = 50 dB, FIRE RESISTANCE REI 45 DP1	LAI ON LOAD-BEARING WALLS, ACC TO CEILING PLANS	200mm

TOTAL FLOORING THICKNESS: 100mm

F08 - FLOOR IN 2NP - TILES

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	TILES	CERAMIC TILES, 598x598x8mm, MATTE SURFACE, LIGHT GREY COLOUR	INSERTED INTO GLUE, GAP THICKNESS 5mm	8mm
2	GROUTING LAYER	GROUT	CEMENT GROUT FOR 2-10mm JOINTS, HYDROFOBIC, NON-ABSORBENT, HIGH WEAR RESISTANCE, GRAIN SIZE 0-0,3mm	APPLIED IN BETWEEN TILE GAPS BY TROWEL	0,3 kg/m ²
3	ADHESIVE LAYER	CEMENT GLUE	FLEXIBLE CEMENT BASED GLUE GRADE C2TES1, ANTI-FREEZING, GRAIN SIZE 0-0,3mm, CONSUMPTION 4,0-6,0 kg/m ²	APPLIED BY NOTCHED TROWEL	2-3mm
3b	WATERPROOFING	PAINT	ONE-LAYERED DISPERSION QUICK-DRYING MATERIAL	APPLIED IN 2 PERPENDICULAR LAYERS BY ROLLER/BRUSH	1,2-1,6 kg/m ²
4	PENETRATION	PRIMER	PRIMER FOR TILES APPLICATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,15-0,25kg/m ²
5	LEVELING LAYER	CEMENT SCREED	SELF-LEVELING CEMENT SCREED, MEDIUM LOADING, STRENGTH GRADE C30, DENSITY 1850kg/m ³ , HEAT TRANSFER COEFF. λ=1,2 W/mK, FIRE GRADE A1, CONSUMPTION 0,17 kg/m ²	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. 1,5 MPa	40 mm
6	SEPARATION LAYER	PE FOIL	SEPARATION PE FOIL WITHOUT STRENGTHENING LINEN, DIFFUSION RESISTANCE COEFF. μ=345 000, EQUIVALENT DIFFUSION THICKNESS S _d = 110 (±7,5) m, FIRE GRADE E	FREELY PLACED, MIN OVERLAPS 100 mm CONNECTED BY ADHESIVE BUTYL RUBBER TAPE	0,185 kg/m ²
7	THERMAL & ACOUSTIC INSULATION	EPS	BOARDS FROM GREY EPS 150 POLYSTYRENE, 1000x500mm, COMPRESSIVE STRENGTH AT 10% DEFORMATION 150 kPa, VOLUME DENSITY 23-25 kg/m ³ , HEAT TRANSFER COEFF. λ ₀ =0,032 W/mK, DIFFUSION RESISTANCE COEFF. μ=30-70, EQUIVALENT DIFFUSION THICKNESS S _d = 1,5 -3,5m, FIRE GRADE E	FREELY PLACED	50 mm
8	LOAD-BEARING LAYER	SPIROLL PANEL	PREFABRICATED SPIROLL PANEL, WEIGHT 296kg/m, PERMANENT LOADING 1,5 kN/m ² , COVER 29mm, C45/55XC1, STRENGTH 45 MPa, THERMAL RESISTANCE R=0,19 m ² K/W, SOUND RESISTANCE R _w = 50 dB, FIRE RESISTANCE REI 45 DP1	LAI ON LOAD-BEARING WALLS, ACC TO CEILING PLANS	200mm

NOTE: 3b - WATERPROOFING USED ONLY IN BATHROOMS AND TOILETS

- CORNERS - VERTICAL+HORIZONTAL CONNECTIONS - SEALED WITH FLEXIBLE SEALING TAPE

TOTAL FLOORING THICKNESS: 100mm

F09 - FLOOR IN GARAGE - EPOXY

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	EPOXY	FINAL UNDILUTED EPOXY LAYER, FOR INDUSTRIAL STRESSED FLOORINGS, RESISTANT AGAINST MECHANICAL DAMAGE, ANTISLIP SURFACE, MATTE COLOUR, DENSITY 1300g/m ³ , CONSUMPTION 0,45 kg/m ²	EVENLY APPLIED BY ROLLER WITH LOW HAIR PILE	2 mm
2	BASE LAYER	EPOXY	BASE LAYER FROM 5-10% DILUTED EPOXY COATING, DILUTED WITH EPOXY COATING THINNER, CONSUMPTION 0,2 kg/m ²	EVENLY APPLIED BY ROLLER WITH LOW HAIR PILE	1 mm
3	PENETRATION	PRIMER	20-30% DILUTED EPOXY COATING, DILUTED WITH EPOXY COATING THINNER	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. 1,5 MPa	0,1 kg/m ²
4	LEVELING LAYER	CEMENT SCREED	SELF-LEVELING CEMENT SCREED, MEDIUM LOADING, STRENGTH GRADE C30, DENSITY 1850kg/m ³ , HEAT TRANSFER COEFF. $\lambda=1,2$ W/mK, FIRE GRADE A1, CONSUMPTION 0,17 kg/m ²	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. 1,5 MPa	107 mm
5	SEPARATION LAYER	PE FOIL	SEPARATION PE FOIL WITHOUT STRENGTHENING LINEN, DIFFUSION RESISTANCE COEFF. $\mu=345\ 000$, EQUIVALENT DIFFUSION THICKNESS $S_d = 110$ ($\pm 7,5$) m, FIRE GRADE E	FREELY PLACED, MIN OVERLAPS 100 mm CONNECTED BY ADHESIVE BUTYL RUBBER TAPE	0,185 kg/m ²
6	THERMAL INSULATION	EPS	BOARDS FROM GREY EPS 150 POLYSTYRENE, 1000x500mm, COMPRESSIVE STRENGTH AT 10% DEFORMATION 150 kPa, VOLUME DENSITY 23-25 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_v=0,032$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=30-70$, EQUIVALENT DIFFUSION THICKNESS $S_d = 1,5-3,5$ m, FIRE GRADE E	FREELY PLACED	50 mm
7	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH POLYESTER MAT, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,4 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=28\ 000$, EQUIVALENT DIFFUSION THICKNESS $S_d = 112$ (± 6) m, FIRE GRADE E	WHOLE SURFACE MELTING	4mm
8	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,5 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=29\ 000$, EQUIVALENT DIFFUSION THICKNESS $S_d = 116$ (± 6) m, FIRE GRADE E	MELTED IN POINTS	4mm
9	PENETRATION	PRIMER	ASPHALT EMULSION WITHOUT DISSOLVERS, HARDENING TIME < 2h, WORKABLE COLD	APPLIED BY ROLLER OR SPRAY GUN ON CLEAN SURFACE	0,1-0,4 kg/m ²
10	LOAD-BEARING LAYER	OVERSITE CONCRETE	PLAIN CONCRETE SLAB, C20/25, REINFORCED WITH 2xKARI MESH KH20, 6x150x150mm, OVERLAP 450mm, CONNECTED BY BINDING WIRE	CONCRETED INTO FORMWORK BY CONCRETE MIXER TRUCK WITH PUMP, SMOOTHENED AND COMPACTED	150mm
11	BEDDING	GRAVEL	GRAVEL FRACTION 16/32mm	COMPACTED	100
12	SEPARATION LAYER	GEOTEXTILE	NON WOVEN GEOTEXTILE, 100% POLYPROPYLENE, SIZE OF HOLES 95 μ m, WATER PERMEABILITY PERPENDICULAR TO THE PLANE $5,2 \cdot 10^{-2}$ m/s	FREELY PLACED	300 g/m ²
13	TERRAIN	SOIL	ORIGINAL SOIL, COMPACTED	-	-

TOTAL FLOORING THICKNESS: 160mm

F10 - FLOOR IN 1NP POST OFFICE - TILES

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	TILES	CERAMIC TILES, 598x598x8mm, MATTE SURFACE, LIGHT GREY COLOUR	INSERTED INTO GLUE, GAP THICKNESS 5mm	8mm
2	GROUTING LAYER	GROUT	CEMENT GROUT FOR 2-10mm JOINTS, HYDROFOBIC, NON-ABSORBENT,HIGH WEAR RESISTANCE, GRAIN SIZE 0-0,3mm	APPLIED IN BETWEEN TILE GAPS BY TROWEL	0,3 kg/m2
3	ADHESIVE LAYER	CEMENT GLUE	FLEXIBLE CEMENT BASED GLUE GRADE C2TES1, ANTI-FREEZING, GRAIN SIZE 0-0,3mm, CONSUMPTION 4,0-6,0 kg/m ²	APPLIED BY NOTCHED TROWEL	2-3mm
3b	WATERPROOFING	PAINT	ONE-LAYERED DISPERSION QUICK-DRYING MATERIAL	APPLIED IN 2 PERPENDICULAR LAYERS BY ROLLER/BRUSH	1,2-1,6 kg/m2
4	PENETRATION	PRIMER	PRIMER FOR TILES APPLICATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,15-0,25kg/m2
5	LEVELING LAYER	CEMENT SCREED	SELF-LEVELING CEMENT SCREED, MEDIUM LOADING, STRENGTH GRADE C30, DENSITY 1850kg/m3, HEAT TRANSFER COEFF. $\lambda=1,2$ W/mK, FIRE GRADE A1, CONSUMPTION 0,17 kg/m2	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. 1,5 MPa	50 mm
6	SEPARATION LAYER	PE FOIL	SEPARATION PE FOIL WITHOUT STRENGTHENING LINEN, DIFFUSION RESISTANCE COEFF. $\mu=345$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 110$ ($\pm 7,5$) m, FIRE GRADE E	FREELY PLACED, MIN OVERLAPS 100 mm CONNECTED BY ADHESIVE BUTYL RUBBER TAPE	0,185 kg/m2
7	THERMAL & ACOUSTIC INSULATION	EPS	BOARDS FROM GREY EPS 150 POLYSTYRENE, 1000x500mm, COMPRESSIVE STRENGTH AT 10% DEFORMATION 150 kPa, VOLUME DENSITY 23-25 kg/m3, HEAT TRANSFER COEFF. $\lambda_0=0,032$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=30$ -70, EQUIVALENT DIFFUSION THICKNESS $S_d = 3$ -7m, FIRE GRADE E	FREELY PLACED	2x50 mm
8	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH POLYESTER MAT, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,4 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=28$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 112$ (± 6) m, FIRE GRADE E	WHOLE SURFACE MELTING	4mm
9	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,5 kg/m ² , DIFFUSION RESISTANCE COEFF. $\mu=29$ 000, EQUIVALENT DIFFUSION THICKNESS $S_d = 116$ (± 6) m, FIRE GRADE E	MELTED IN POINTS	4mm
10	PENETRATION	PRIMER	ASPHALT EMULSION WITHOUT DISSOLVERS, HARDENING TIME < 2h, WORKABLE COLD	APPLIED BY ROLLER OR SPRAY GUN ON CLEAN SURFACE	0,1-0,4 kg/m2
11	LOAD-BEARING LAYER	OVERSITE CONCRETE	PLAIN CONCRETE SLAB, C20/25, REINFORCED EITH 2xKARI MESH KH20, 6x150x150mm, OVERLAP 450mm, CONNECTED BY BINDING WIRE	CONCRETED INTO FORMWORK BY CONCRETE MIXER TRUCK WITH PUMP, SMOOTHENED AND COMPACTED	150mm
12	BEDDING	GRAVEL	GRAVEL FRACTION 16/32mm	COMPACTED	100
13	SEPARATION LAYER	GEOTEXTILE	NON WOVEN GEOTEXTILE, 100% POLYPROPYLENE, SIZE OF HOLES 95 μ m, WATER PERMEABILITY PERPENDICULAR TO THE PLANE 5,2*10 ⁻² m/s	FREELY PLACED	300 g/m2
14	TERRAIN	SOIL	ORIGINAL SOIL, COMPACTED	-	-

NOTE: 3b - WATERPROOFING USED ONLY IN BATHROOMS AND TOILETS

- CORNERS - VERTICAL+HORIZONTAL CONNECTIONS - SEALED WITH FLEXIBLE SEALING TAPE

TOTAL FLOORING THICKNESS: 160mm

F11 - FLOOR IN 1NP POST OFFICE - VINYL FLOORING

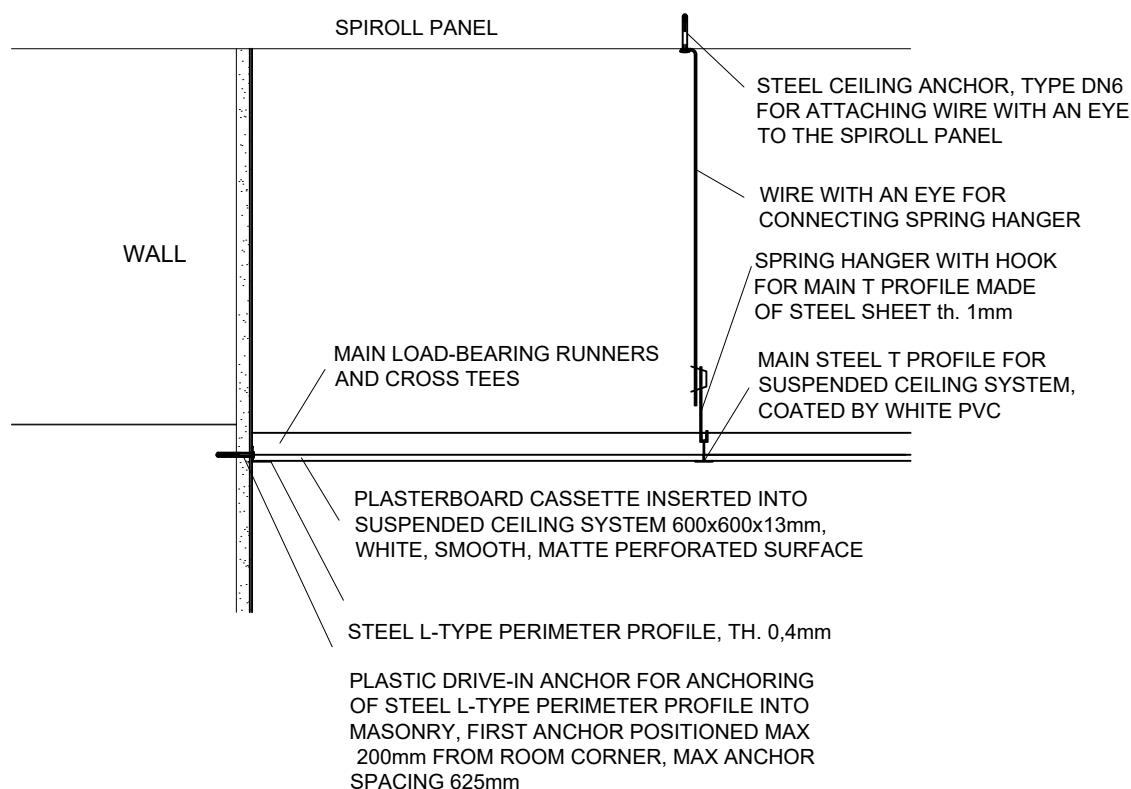
No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	VINYL FLOOR	100% POLYVINYLCHLORIDE ROLL, SURFACE VOLUME 2200g/m ² , THERMAL RESISTANCE R=0,016m ² K/W, ATISLIP SURFACE R10, SOUND RESISTANCE R _w =18dB, FIRE GRADE B, WHITE OAK COLOUR	GLUED	4 mm
2	ADHESIVE LAYER	GLUE	POLYURETHANE FLEXIBLE GLUE, CONSUMPTION 180-380 g/m ²	APPLIED BY TROWEL	2 mm
3	PENETRATION	PRIMER	PRIMER FOR VINYL FLOORING PREPARATION	EVENLY APPLIED BY ROLLER OR PAINT BRUSH ON CLEAN SURFACE	0,15-0,35 kg/m ²
4	LEVELING LAYER	CEMENT SCREED	SELF-LEVELING CEMENT SCREED, MEDIUM LOADING, STRENGTH GRADE C30, DENSITY 1850kg/m ³ , HEAT TRANSFER COEFF. λ=1,2 W/mK, FIRE GRADE A1, CONSUMPTION 0,17 kg/m ²	APPLIED BY ROLLER OR BRUSH ON CLEAN HARDENED SURFACE, STRENGTH OF SURFACE min. 1,5 MPa	54 mm
5	SEPARATION LAYER	PE FOIL	SEPARATION PE FOIL WITHOUT STRENGTHENING LINEN, DIFFUSION RESISTANCE COEFF. μ=345 000, EQUIVALENT DIFFUSION THICKNESS S _d = 110 (±7,5) m, FIRE GRADE E	FREELY PLACED, MIN OVERLAPS 100 mm CONNECTED BY ADHESIVE BUTYL RUBBER TAPE	0,185 kg/m ²
6	THERMAL & ACOUSTIC INSULATION	EPS	BOARDS FROM GREY EPS 150 POLYSTYRENE, 1000x500mm, COMPRESSIVE STRENGTH AT 10% DEFORMATION 150 kPa, VOLUME DENSITY 23-25 kg/m ³ , HEAT TRANSFER COEFF. λ ₀ =0,032 W/mK, DIFFUSION RESISTANCE COEFF. μ=30-70, EQUIVALENT DIFFUSION THICKNESS S _d = 3-7m, FIRE GRADE E	FREELY PLACED	2x50 mm
7	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH POLYESTER MAT, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,4 kg/m ² , DIFFUSION RESISTANCE COEFF. μ=28 000, EQUIVALENT DIFFUSION THICKNESS S _d = 112 (±6) m, FIRE GRADE E	WHOLE SURFACE MELTING	4mm
8	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,5 kg/m ² , DIFFUSION RESISTANCE COEFF. μ=29 000, EQUIVALENT DIFFUSION THICKNESS S _d = 116 (±6) m, FIRE GRADE E	MELTED IN POINTS	4mm
9	PENETRATION	PRIMER	ASPHALT EMULSION WITHOUT DISSOLVERS, HARDENING TIME < 2h, WORKABLE COLD	APPLIED BY ROLLER OR SPRAY GUN ON CLEAN SURFACE	0,1-0,4 kg/m ²
10	LOAD-BEARING LAYER	OVERSITE CONCRETE	PLAIN CONCRETE SLAB, C20/25, REINFORCED WITH 2xKARI MESH KH20, 6x150x150mm, OVERLAP 450mm, CONNECTED BY BINDING WIRE	CONCRETED INTO FORMWORK BY CONCRETE MIXER TRUCK WITH PUMP, SMOOTHENED AND COMPACTED	150mm
11	BEDDING	GRAVEL	GRAVEL FRACTION 16/32mm	COMPACTED	100
12	SEPARATION LAYER	GEOTEXTILE	NON WOVEN GEOTEXTILE, 100% POLYPROPYLENE, SIZE OF HOLES 95μm, WATER PERMEABILITY PERPENDICULAR TO THE PLANE 5,2*10 ⁻² m/s	FREELY PLACED	300 g/m ²
13	TERRAIN	SOIL	ORIGINAL SOIL, COMPACTED	-	-

TOTAL FLOORING THICKNESS: 160mm

C01 - CASSETTE CEILING

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	LOAD-BEARING LAYER	SPIROLL PANEL	PREFABRICATED SPIROLL PANEL, WEIGHT 296kg/m, PERMANENT LOADING 1,5 kN/m ² , COVER 29mm, C45/55XC1, STRENGTH 45 MPa, THERMAL RESISTANCE R=0,19 m ² K/W, SOUND RESISTANCE R _w = 50 dB, FIRE RESISTANCE REI 45 DP1	LAI ON LOAD-BEARING WALLS, ACC TO CEILING PLANS	200mm
2	INSTALLATION GAP	UNVENTILATED GAP	UNVENTILATED AIR GAP FOR INSTALLATON ROUTING	-	DIFFERS
3	LOAD-BEARING PROFILE	L PROFILE	GALVANIZED PERIMETER METAL L PROFILE th. 0,6mm	ANCHORED BY SCREWS & FASTENERS TO THE WALL	-
4	SUPPORTING GRID	T PROFILE	GALVANIZED METAL T PROFILE th. 0,6mm, COATED BY WHITE PVC	ANCHORED BY SPRING HANGER, WIRE WITH AN EYE AND CEILING ANCHOR TO THE CEILING	-
5	SURFACE FINISH	CASSETTE	PLASTERBOARD CASSETTE INSERTED INTO SUSPENDED CEILING SYSTEM 600x600x13mm, FIRE GRADE A2-s1, d0, HEAT TRANSFER COEFF. $\lambda = 0.060$ W/mk, WEIGHT 2,9-3.1kg/m ² , SOUND ABSORPTION $\alpha_w = 0.55$, STRAIGHT EDGE, WHITE, SMOOTH, MATTE PERFORATED SURFACE	INSERTED INTO T GRID	13 mm

NOTE: - HANGERS ANCHORED USING DRIVE-IN DOWELS AT A MAXIMUM DISTANCE OF 400 mm FROM THE WALL AND A MAXIMUM OF 1200 mm BETWEEN EACH OTHER, THE MAIN AND CROSS T-PROFILES FORM A GRID OF 600X600 mm



C02 - PAINTED CEILING

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	EVENLY APPLIED IN 2-3 LAYERS BY ROLLER OR PAINT BRUSH	0,3-0,45 kg/m ²
2	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m ²
3	SURFACE LAYER	FINISHING PLASTER	INTERIOR STUCCO PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 0,7mm, VOLUME DENSITY 1250-1550 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_v=0,47$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=20$, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,06m$, ADHESION $\geq 0,1$ MPa, FIRE GRADE A1	APPLIED BY TROWEL FOR PLASTERS, SMOOTHENED	3 mm
4	BASE LAYER	CORE PLASTER	INTERIOR LIME-CEMENT PLASTER, DIFFUSION-OPEN, GRAIN SIZE MAX 1,2 mm, VOLUME DENSITY 1200-1500 kg/m ³ , HEAT TRANSFER COEFF. $\lambda_v=0,44$ W/mK, DIFFUSION RESISTANCE COEFF. $\mu=15$, EQUIVALENT DIFFUSION THICKNESS $S_d = 0,225m$, ADHESION $\geq 0,2$ MPa, FIRE GRADE A1	SPRAYED BY MACHINE, SMOOTHENED	15mm
7	LOAD-BEARING LAYER	SPIROLL PANEL	PREFABRICATED SPIROLL PANEL, WEIGHT 296kg/m, PERMANENT LOADING 1,5 kN/m ² , COVER 29mm, C45/55XC1, STRENGTH 45 MPa, THERMAL RESISTANCE $R=0,19$ m ² K/W, SOUND RESISTANCE $R_w = 85$ dB, FIRE RESISTANCE REI 45 DP1	LAI ON LOAD-BEARING WALLS, ACC TO CEILING PLANS	200mm

C03 - STAIRCASE

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	LOAD-BEARING LAYER	PREFAB. STIARCASE	PREFABRICATED STAIRCASE, RIBBED SURFACE, C30/37, FIRE RESISTANCE REI 120 DP1	SECURED BY L PROFILES	150mm
2	PENETRATION	PRIMER	PRIMER FOR SILICATE INTERIOR PAINTS	EVENLY APPLIED BY ROLLER OR PAINT BRUSH	0,25 kg/m ²
3	SURFACE FINISH	PAINT	SILICATE INTERIOR PAINT, DIFFUSION-OPEN, EQUIVALENT DIFFUSION THICKNESS $S_d < 0,2m$, ADHESION $\geq 2,0$ MPa, WHITE COLOUR	APPLIED BY ROLLER	0,3-0,45 kg/m ²

E01 - PAVED ARES - WALKABLE

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	TILES	INTERLOCKING CONCRETE TILES, ANTI-FREEZING, WEIGHT 126 kg/m ² , SMOOTH SURFACE, GREY COLOUR	PLACED INTO SUBBASE LAYER, GAPS FILLED WITH SAND	60 mm
2	SUBBASE LAYER	GRAVEL	GRAVEL WITH FRACTION 4-8 mm	SPREAD ON THE BASE, LEVELED WITH A SHOVEL, EVENED USING A WOODEN BATON	40 mm
3	BASE LAYER	GRAVEL	GRAVEL WITH FRACTION 8-16 mm	SPREAD ON THE BASE, LEVELED WITH A SHOVEL, VIBRATED WITH A VIBRATING PLATE	40 mm
4	TERRAIN	SOIL	ORIGINAL SOIL, COMPACTED, R _{qt} =250 KPa	-	-

E02 - PAVED ARES - DRIVEABLE

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	SURFACE FINISH	TILES	INTERLOCKING CONCRETE TILES, ANTI-FREEZING, WEIGHT 184 kg/m ² , SMOOTH SURFACE, GREY COLOUR	PLACED INTO SUBBASE LAYER, GAPS FILLED WITH SAND	80 mm
2	SUBBASE LAYER	GRAVEL	GRAVEL WITH FRACTION 4-8 mm	SPREAD ON THE BASE, LEVELED WITH A SHOVEL, EVENED USING A WOODEN BATON	40 mm
3	BASE LAYER	GRAVEL	GRAVEL WITH FRACTION 8-16 mm	SPREAD ON THE BASE, LEVELED WITH A SHOVEL, VIBRATED WITH A VIBRATING PLATE	100 mm
4	LOAD-BEARING LAYER	GRAVEL	GRAVEL WITH FRACTION 16-32 mm	SPREAD ON THE BASE, LEVELED WITH A SHOVEL, VIBRATED WITH A VIBRATING PLATE	200 mm
5	BASE LAYER	GRAVEL	SANDY GRAVEL WITH FRACTION 0-8 mm	SPREAD ON THE BASE, LEVELED WITH A SHOVEL, EVENED USING A WOODEN BATON	100 mm
6	TERRAIN	SOIL	ORIGINAL SOIL, COMPACTED, R _{qt} =250 KPa	-	-

E03 - DRAINAGE STRIP

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	DRAINAGE LAYER	GRAVEL	DARK DECORATIVE GRAVEL, FRACTION 16-32 mm, COLOUR GREY	PLACED INTO SUBBASE LAYER, GAPS FILLED WITH SAND	50 mm
2	BASE LAYER	GRAVEL	GRAVEL WITH FRACTION 8-16 mm	SPREAD ON THE BASE, LEVELED WITH A SHOVEL, VIBRATED WITH A VIBRATING PLATE	150 mm
3	SEPARATION LAYER	GEOTEXTILE	NON WOVEN GEOTEXTILE, 100% POLYPROPYLENE, SIZE OF HOLES 95µm, WATER PERMEABILITY PERPENDICULAR TO THE PLANE 5,2*10 ⁻² m/s	FREELY PLACED	300 g/m ²
4	TERRAIN	SOIL	ORIGINAL SOIL, COMPACTED, R _{qt} =250 KPa	-	-

R01 - ROOF

No.	LAYER FUNCTION	LAYER NAME	SPECIFICATIONS	ASSEMBLY	THICKNESS
1	VEGETATION LAYER	PLANTS	GRASSES, HERBS, SMALL SHRUBS	FREELY PLANTED	15-30 mm
2	SUBSTRATE LAYER	SUBSTRATE	SAND AND TARF SUBSTRATE FOR SIMPLE INTENSIVE ROOFS, WEIGHT WHEN SATURATED 1300-1480 kg/m ³ ,	FREELY PLACED	60 mm
3	FILTRATION LAYER	GEOTEXTILE	NON WOVEN GEOTEXTILE, 100% POLYPROPYLENE, SIZE OF HOLES 95µm, WATER PERMEABILITY PERPENDICULAR TO THE PLANE 5,2*10 ⁻² m/s	FREELY PLACED, OVERLOADED	300 g/m ²
4	DRAINAGE & WATER ACCUMULATION LAYER	NOP FOIL	PROFIED NOP FOIL FROM HDPE (HIGH-DENSITY PE) HEIGHT OF 1 NOP 30 mm, SURFACE DENSITY 1,35kg/m ² COMPRESSIVE STRENGTH 175 kPa	FREELY PLACED WITH NOPS ORIENTED TO THE SOIL, OVERLAP MIN 2 ROWS OF NOPS	30 mm
5	SEPARATION LAYER	FOIL	FOIL WITH FLL TEST (AGAINST ROOT GROWTH) FROM HIGH ELASTIC PELD (POLYETHYLENE LOW DENSITY)	FREELY PLACED	470 g/m ²
6	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH POLYESTER MAT, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,4 kg/m ² , DIFFUSION RESISTANCE COEFF. µ=28 000, EQUIVALENT DIFFUSION THICKNESS S _d = 112 (±6) m, FIRE GRADE E	WHOLE SURFACE MELTING	4mm
7	WATERPROOFING	ASPHALT FELT	SBS MODIFIED ASPHALT FELT WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,5 kg/m ² , DIFFUSION RESISTANCE COEFF. µ=29 000, EQUIVALENT DIFFUSION THICKNESS S _d = 116 (±6) m, FIRE GRADE E	SLEF-ADHESIVE	4mm
8	SLOPING LAYER	EPS	SLOPED KEYS FROM EPS 100 S, 1000x500mm, VOLUME DENSITY 18-19 kg/m ³ , COMPRESSIVE STRENGTH AT 10% DEFORMATION 100 kPa, HEAT TRANSFER COEFF. λ ₀ =0,036 W/mK, DIFFUSION RESISTANCE COEFF. µ=30-70, EQUIVALENT DIFFUSION THICKNESS S _d = 1,5-3,5m, FIRE GRADE E	GLUED TO THE BASE BY PUR FOAM, CONSUMPTION 120g/m ³	min. 50 mm
9	THERMAL INSULATION LAYER	EPS	BOARDS FROM EPS 150 S, 1000x500mm, VOLUME DENSITY 23-25 kg/m ³ , COMPRESSIVE STRENGTH AT 10% DEFORMATION 150 kPa, HEAT TRANSFER COEFF. λ ₀ =0,036 W/mK, DIFFUSION RESISTANCE COEFF. µ=30-70, EQUIVALENT DIFFUSION THICKNESS S _d = 6-14m, FIRE GRADE E	GLUED TO THE BASE BY PUR FOAM, CONSUMPTION 120g/m ³	2x100mm
10	WATER VAPOUR BARRIER	ASPHALT FELT	OXIDISED ASPHALT FELT TYPE S WITH GLASS FIBRE, TOP SURFACE - FINE SEPARATION COATING, BOTTOM SURFACE - SEPARATION FLAMABLE PE FOIL, SURFACE DENSITY 4,8 kg/m ² , DIFFUSION RESISTANCE COEFF. µ=40 000, EQUIVALENT DIFFUSION THICKNESS S _d = 160 m, FIRE GRADE E	WHOLE SURFACE MELTING	4mm
11	PENETRATION	PRIMER	ASPHALT EMULSION WITHOUT DISSOLVERS, HARDENING TIME < 2h, WORKABLE COLD	APPLIED BY ROLLER OR SPRAY GUN ON CLEAN SURFACE	0,1-0,4 kg/m ²
12	LOAD-BEARING LAYER	SPIROLL PANEL	PREFABRICATED SPIROLL PANEL, WEIGHT 296kg/m, PERMANENT LOADING 1,5 kN/m ² , COVER 29mm, C45/55XC1, STRENGTH 45 MPa, THERMAL RESISTANCE R=0,19 m ² K/W, SOUND RESISTANCE R _w = 50 dB, FIRE RESISTANCE REI 45 DP1	LAI ON LOAD-BEARING WALLS, ACC TO CEILING PLANS	200mm