



SECTION S 1-1'

SECTION S 2-2'

GR GREEN ROOF

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
1	VEGETATION	EXTENSIVE SUBSTRATE vegetation carpet for succulents	-	
2	FILTRATION	GEOTEXTILE nonwoven geotextile, 300g/m, polyester	-	
3	DRAINAGE/ WATER ACCUMULATION	NOPIC FOIL/ DIMPLE MEMBRANE top height 20 mm	-	
4	SEPARATION	GEOTEXTILE nonwoven geotextile, 300g/m, polyester	-	
5	WATERPROOFING	modified SBS, self-adhesive, top and bottom layer homogeneous elastomer coating, core layer glass textile	metled	70
6	WATERPROOFING	BITUMEN SHEET modified SBS, self-adhesive, top layer foil, core layer glass textile, bottom layer	anchored	20
7	SEPARATION	GEOTEXTILE nonwoven geotextile, 300g/m, polyester	-	1.5
8	LEVELING	THERMAL INSULATION EPS 200 polystyrene, thermal resistance R 5.80 m²K/W, coefficient of thermal conductivity λ <sub>0</sub> 0.034W/m²K, fire reaction class E, compressive strength 250 MPa, diffusion resistance factor μ 100	-	3.5
9	THERMAL INSULATION	THERMAL INSULATION EPS 200 polystyrene, thermal resistance R 5.80 m²K/W, coefficient of thermal conductivity λ <sub>0</sub> 0.034W/m²K, fire reaction class E, compressive strength 250 MPa, diffusion resistance factor μ 100	-	3.5
10	VAPOUR BARRIER	BITUMEN SHEET modified SBS, top layer separation foil, core layer aluminium foil, bottom layer	metled in points	140 <
11	PENETRATION	ASPHALT COATING asphalt emulsion, cold processed, spurs, solvent free, frost resistant	roller, brush or spraying machine	
12	GROUTING	GROUTING CONCRETE concrete C20/25 XC1, consistency S1, with reinforcement mesh diameter 4/150	-	100
13	LOAD-BEARING	CEILING JOIST + CARTRIDGE reinforced concrete, fire reaction class A1, fire resistance REI 180 D1	-	3.5
14	CEILING	GYPSPUM BOARD + INSTALLATION GAP suspended ceiling, coefficient of thermal conductivity λ <sub>0</sub> 0.21W/m²K, fire reaction class A2-s1,d0, diffusion resistance factor μ >= 10, longitudinal expansion factor in case of humidity change S>910°, compressive strength 5.0 - 10.0 MPa	-	0.5

LEGEND OF MATERIALS

- EXTERNAL WALL, Heluz 50 2inl, 500 mm
- INTERNAL WALL, Heluz, load-bearing
- INTERNAL WALL, Heluz, non load-bearing
- THERMAL INSULATION, EPS polystyrene
- REINFORCED CONCRETE, C20/25 XC1, consistency S1, with reinforcement mesh diameter 4/150  
Additional reinforcement B500B - STATIC CALCULATION REQUIRE
- GRAVEL, fraction 32-63
- EXTENSIVE SUBSTRATE, vegetation for succulents
- WATERPROOFING, modified SBS, self-adhesive
- HELIZ FAMILY 25 2inl, 250 mm, load bearing

LEGEND OF ELEMENTS

- SAFETY OVERFLOW, PP, diameter 100 mm
- ROOF HOOK, stainless steel safety hook for flat roof, total height: 600 mm
- ROOF INLET, PP, diameter 100 mm, height 60 mm, integrated modified SBS sheet, self-adhesive
- INSPECTION LADDER, stainless steel inspection ladder, ground floor 4400 mm, first floor 3600 mm
- ATTIC FLASHING, galvanized steel, thickness 1.6 mm, expanded length 805, 210, 145 mm
- CANALIZATION SHAFT, ventilation shaft for sewerage, D100 mm

NOTES:

- EXACT FLAT ROOF'S KEYS IN SLOPE DRAINAGE PLAN DESIGNED BY COMPANY ISOVER
- COMPOSITIONS OF ROOFS AND TERRACE CAN BE SEEN IN THE ANNEX D.1.1.1
- TERRACE ROOFS COVERED BY TILES ON TARGETS
- ROOF HOOKS COMPLY NECESSARY DISTANCES:  
MIN. 2 m FROM ATTIC  
MAX. 7.5 m FROM EACH OTHER
- ALL ROOF INLETS AND SAFETY OVERFLOWS ARE DN 100
- ROOF INLETS:  
MIN 2 x EACH ROOF  
MAX 15 m FROM EACH OTHER  
MIN. 500 mm FROM ATTIC
- 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
- DETAIL E CAN BE SEEN IN THE ANNEX D.1.2.08

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

TYPE OF WORK	DIPLOMA THESIS		<div><div>T</div><div>FAMILIA STAVEBNÍ ÚSTAV pospešimho staviteľstvo</div></div>	
DRAWN BY	Bc. Richard Šaško			
SUPERVISOR BY	Ing. Karol Šimulda			
CUSTOMER	John Davidson, Severova 2888/9, 902 01 Petržalka-Slavičova			
SITE LOCATION	Severova 2888/9, 902 01 Petržalka-Slavičova			
PROJECT TITLE	HOTEL			
BUILDING OBJECT	H-1 HOTEL		PAPER FORMAT	16 " A4
PART	D.1.2 - Building Construction Solution		DATE	01/2019
DRAWING TITLE:	ROOF		SCALE	1:50
			DRAWING NO.	D.1.2.04