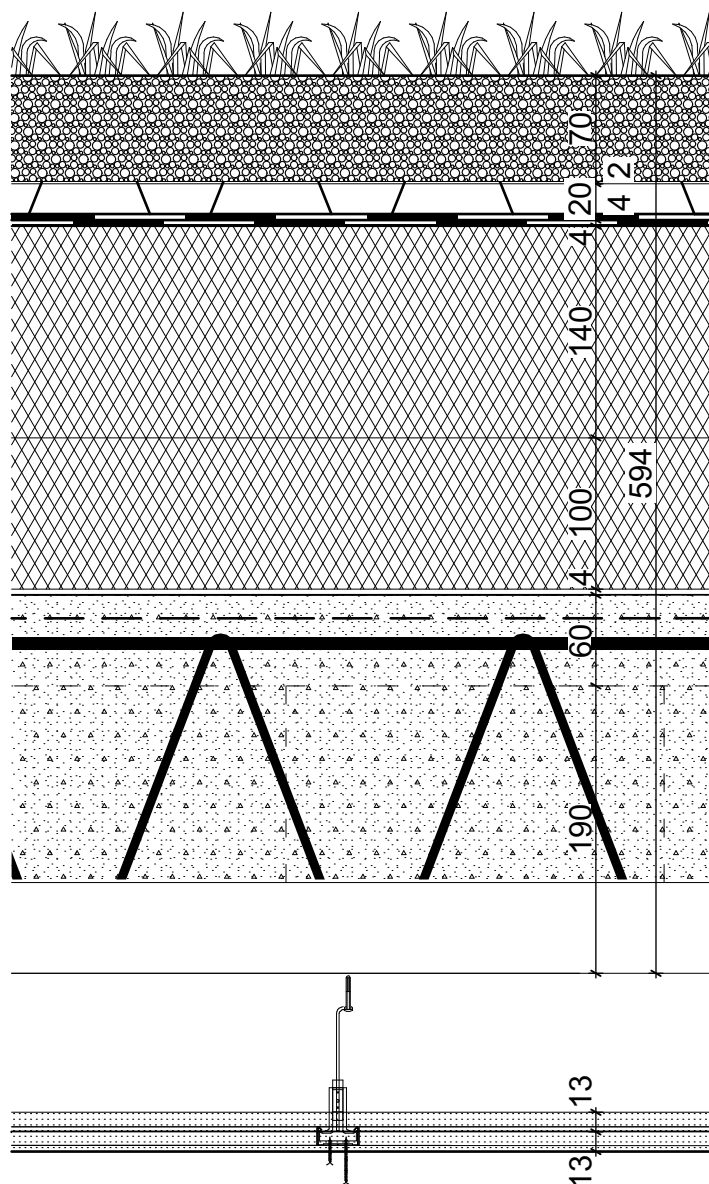


# GREEN ROOF GR II

SC 1:5



## COMPOSITION OF GREEN ROOF II

N	FUNCTION	MATERIAL SPECIFICATION	STABILIZATION	THICKNESS
9	THERMAL INSULATION	THERMAL INSULATION EPS 200 polystyrene, thermal resistance $R \ 5.80 \text{ m}^2\text{K/W}$ , coefficient of thermal conductivity $\lambda_u \ 0.034 \text{ W/m}^2\text{K}$ , fire reaction class E, compressive strength 250 MPa, diffusion resistance factor $\mu \ 100$	-	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 $\lambda_u \ 0.21 \text{ W/m}^2\text{K}$ , fire reaction class A2-s1,d0, diffusion resistance factor $\mu \ 6-10$ , longitudinal expansion factor in case of humidity change $5-8 \cdot 10^{-6}$ , compressive strength 5.0 - 10.0 MPa	-	2x12.5