



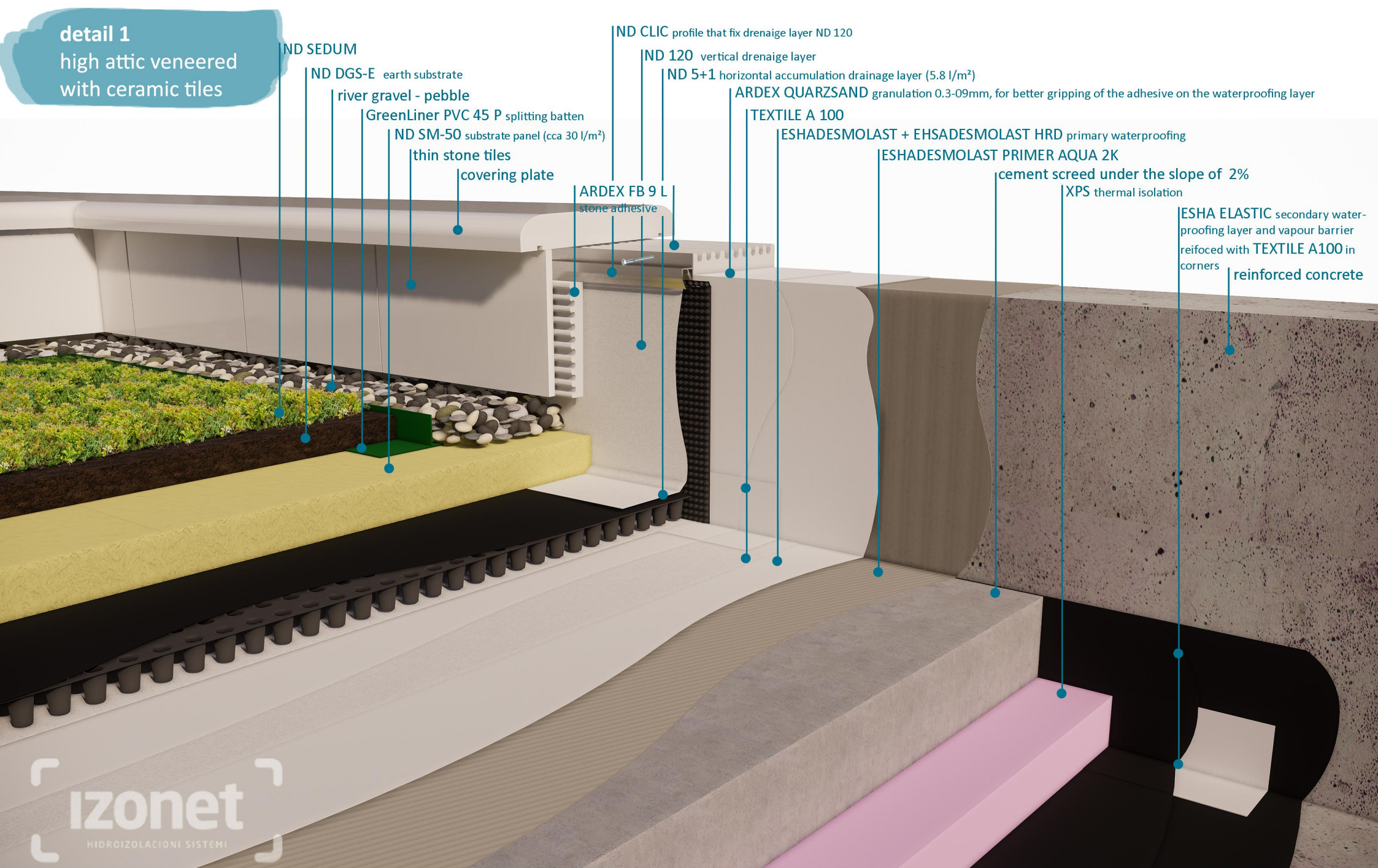
EXTENSIVE GREEN ROOFS

nophADRAIN[®]
SMART GREEN ROOF SYSTEMS

izonet
HIDROIZOLACIONI SISTEMI

IZONET D.O.O.
ADDRESS 1: Jovana Popovića - Lipovca b.b., blok IX
(ATC Top Plus), 81000, Podgorica
ADDRESS 2: Kovačko polje b.b., 85330, Kotor
E-MAIL: team@izonet.net
MOB 1: +382 68 17 88 44
MOB 2: +382 68 42 49 17
TEL/FAX: +382 32 32 66 96
www.izonet.net

detail 1
high attic veneered
with ceramic tiles



- ND SEDUM
- ND DGS-E earth substrate
- river gravel - pebble
- GreenLiner PVC 45 P splitting batten
- ND SM-50 substrate panel (cca 30 l/m²)
- thin stone tiles
- covering plate
- ARDEX FB 9 L stone adhesive
- ND CLIC profile that fix drainage layer ND 120
- ND 120 vertical drainage layer
- ND 5+1 horizontal accumulation drainage layer (5.8 l/m²)
- ARDEX QUARZSAND granulation 0.3-09mm, for better gripping of the adhesive on the waterproofing layer
- TEXTILE A 100
- ESHADESMOLAST + ESHADESMOLAST HRD primary waterproofing
- ESHADESMOLAST PRIMER AQUA 2K
- cement screed under the slope of 2%
- XPS thermal isolation
- ESHA ELASTIC secondary water-proofing layer and vapour barrier reinforced with TEXTILE A100 in corners
- reinforced concrete



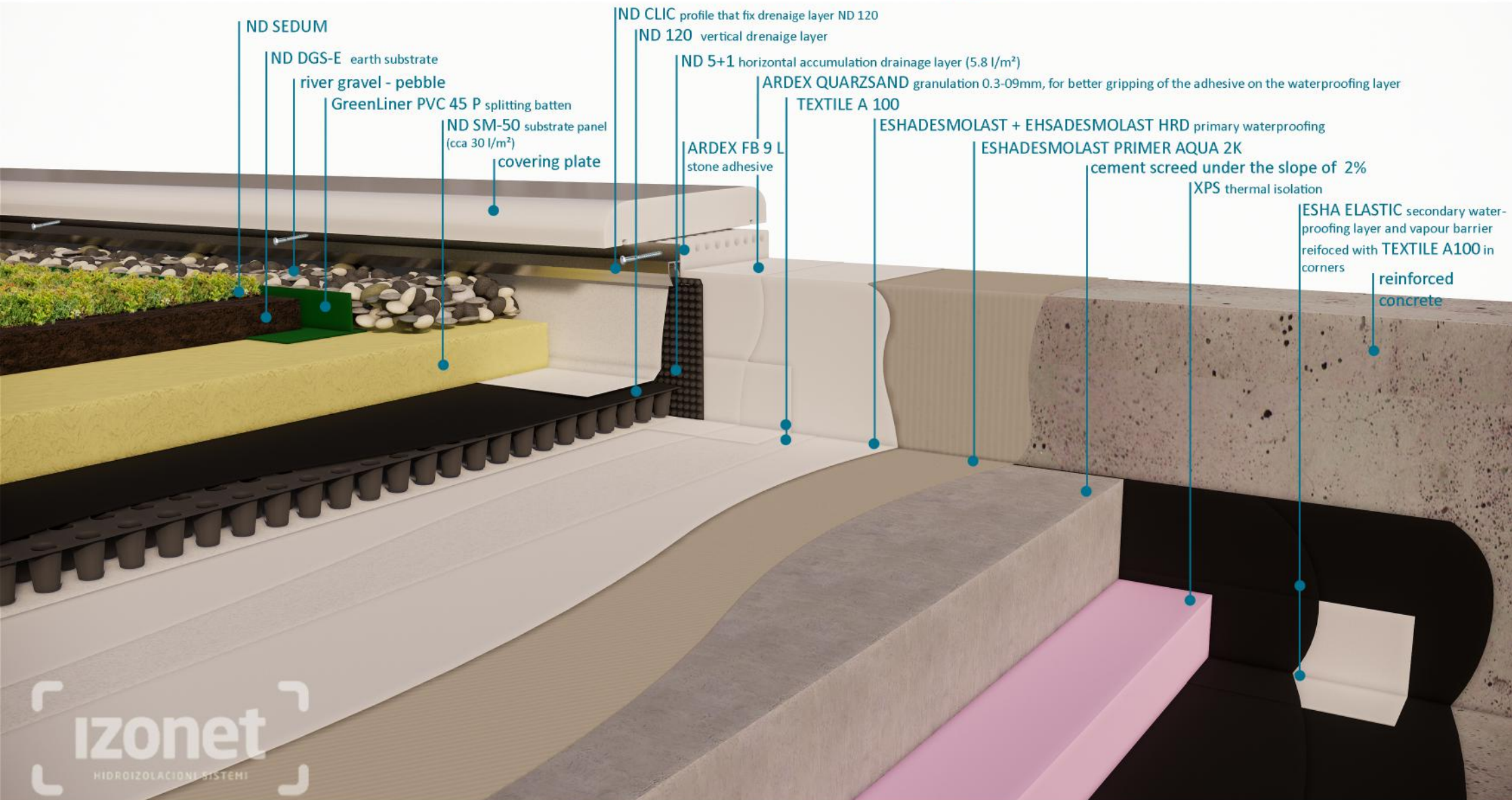
➤ **Extensive green roofs** are lightweight roofs (cca 55 kg/m²) covered with less demanding vegetation such as sedum, herbs, aromatic plants and herbs that are specially adapted to extreme weather conditions on the roofs.

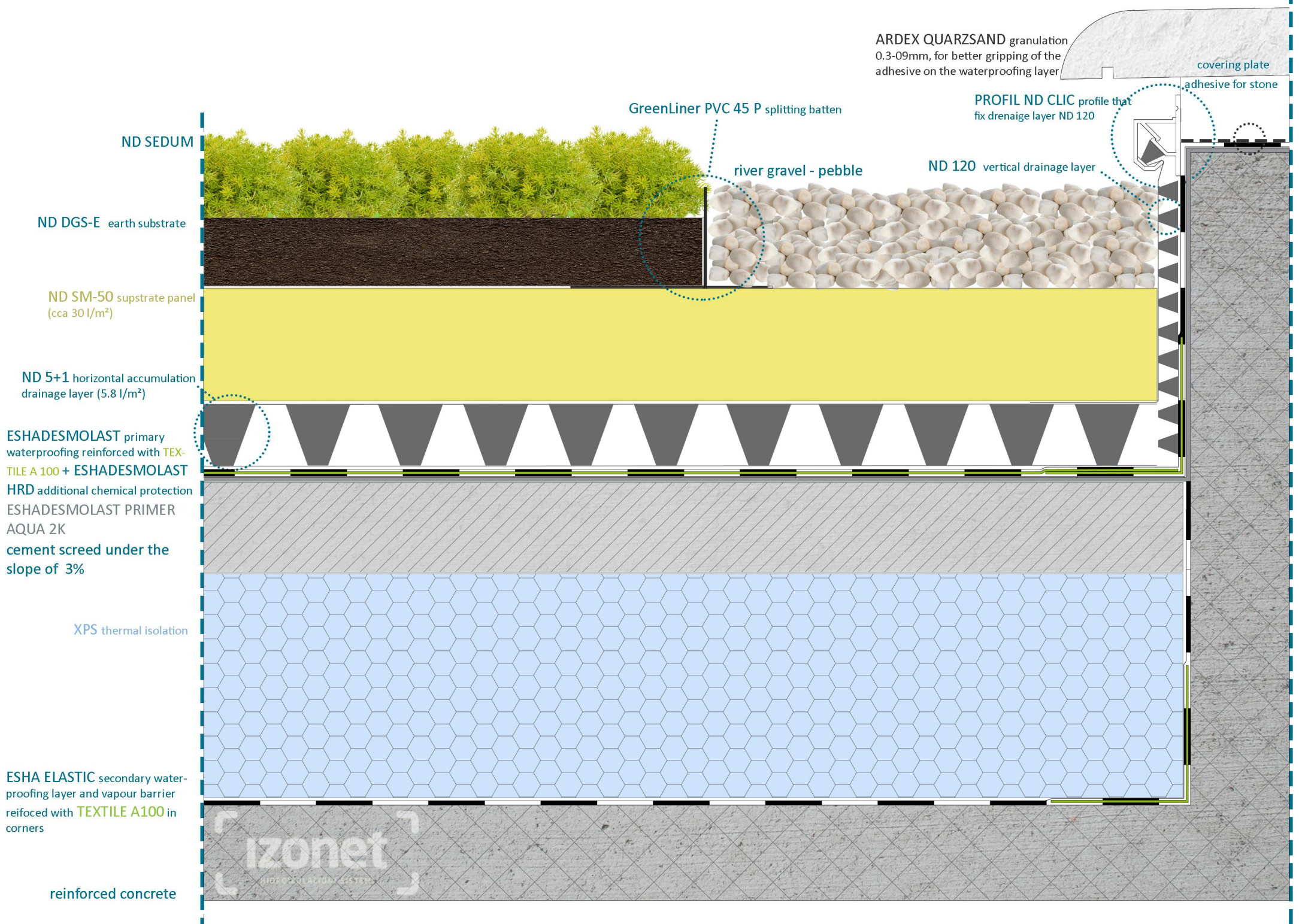
detail 2 low attic

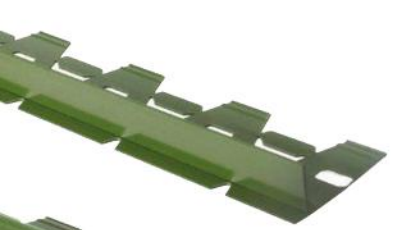
The benefits of an extensive green roof are:

- › **aesthetic value** - cheerful and fresh green appearance of the building, thus improving the living space,
- › **reduce the burden on the drainage system** - green roof slows runoff rainwater and reduce water pressure in drains during major downpours,
- › **noise protection** - vegetation extensive green roof helps to reduce noise and its negative impact on the living environment,

- › **suppression of occurrence of thermal bridge** - as opposed to concrete roofs, green roofs extensive account could not convert the sun's energy to heat completely, but creates the cooling effect of the environment due to the conversion of water into steam,
- › **protection of waterproofing systems** - vegetation extensive green roof helps protect the waterproofing from the negative effects of the sun and rain, and thus a positive effect on the lifespan of the waterproofing system.







GreenLiner 35 star



GreenLiner 45 star



GreenLiner 25P star



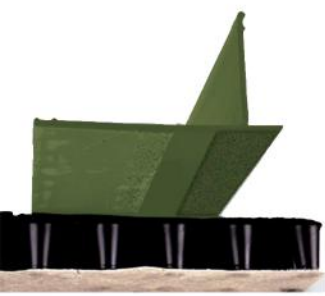
GreenLiner 35P star



GreenLiner 45P star



GreenLiner 45D



GreenLiner 25DK/45DK





multifunctional komplex "Ligne Sittard", Sittard, 2015



ND 5+1 horizontal accumulation drainage layer (5.8 l/m²)



ND SM-50 substrate panel



ND DGS-E earth substrate



ND SEDUM



For extensive roofs you can use **ND Vegetation Blanket-Sedum**, as well as **ND Sedum Cassette**. This sedum is already grown and has certain level of height. Both types can be easily implanted on the prepared substrate.





Photos from our construction site where we successfully made green roof.

