PLANTERS SYSTEM

NOPHADRAIN®
SMART GREEN ROOF SYSTEMS

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HIDROIZOLACIONI SISTEMI

IZONET D.O.O.
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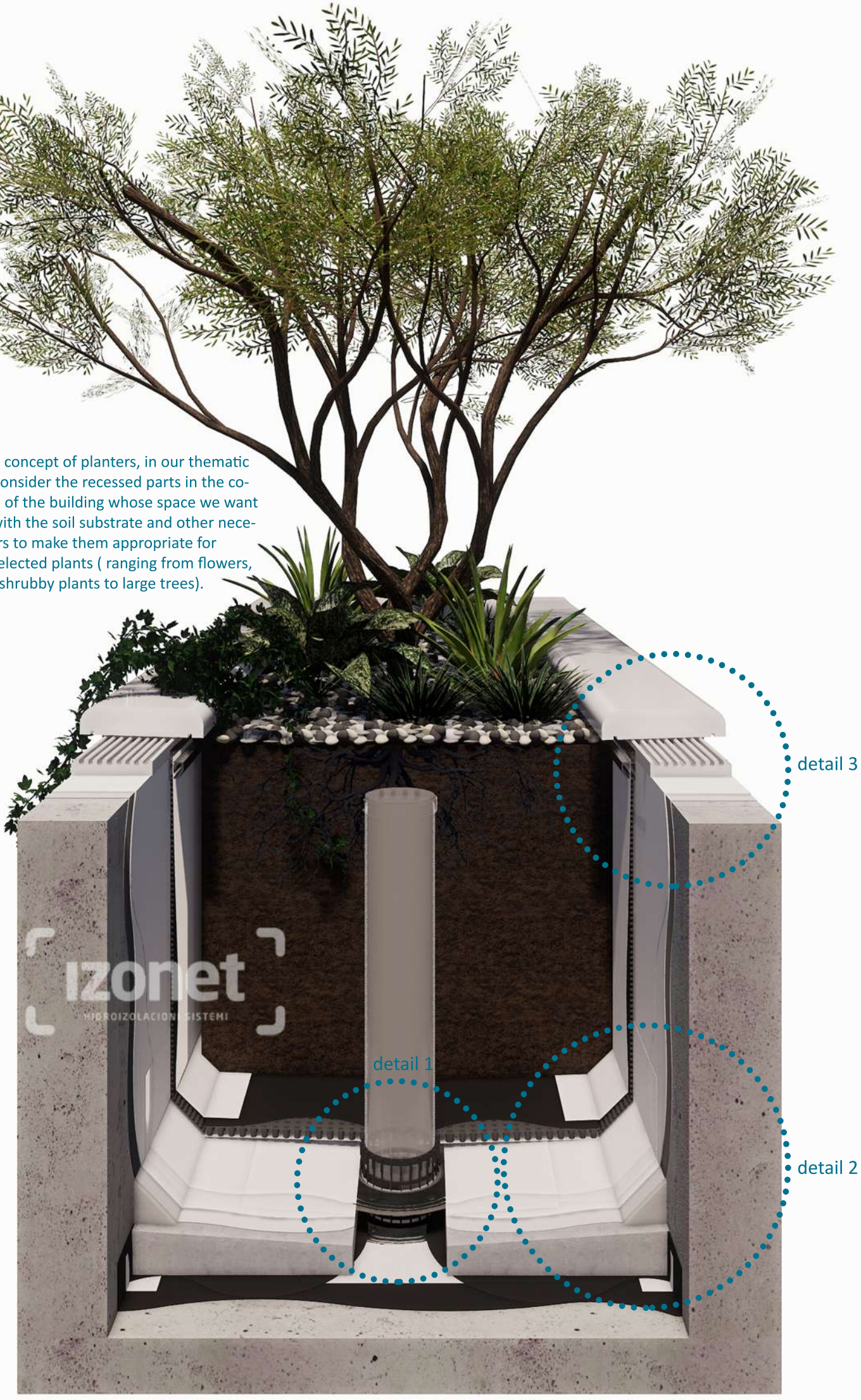
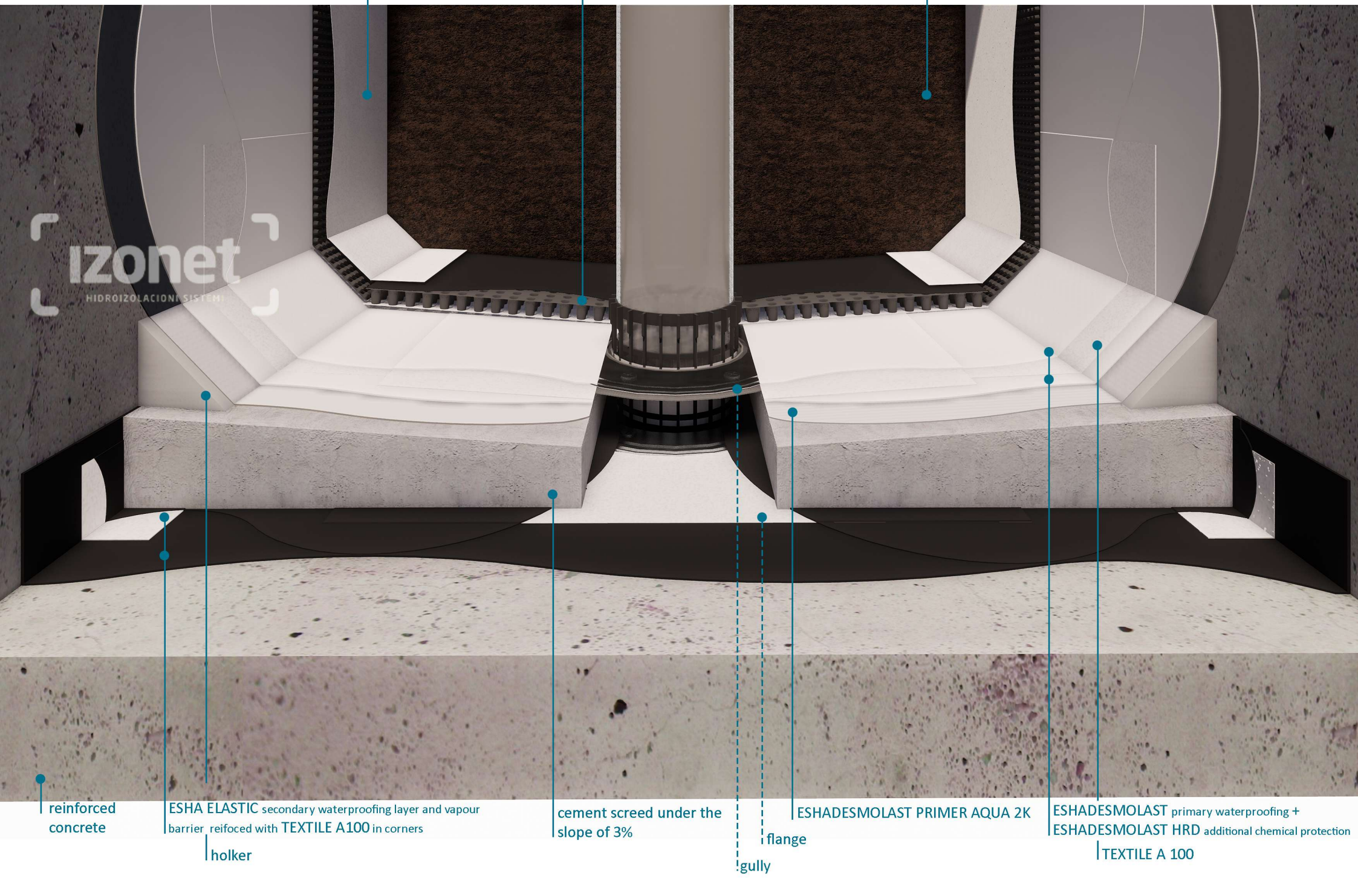
Under the concept of planters, in our thematic case, we consider the recessed parts in the co-nstruction of the building whose space we want to fill up with the soil substrate and other nece-ssary layers to make them appropriate for planting selected plants (ranging from flowers, grass and shrubby plants to large trees).



detail 1


ND 120 vertical drainage layer
ND 5+1 horizontal accumulation drainage layer (5.8 l/m²)
ND DGS-I earth substrate
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HIDROIZOLACIONI SISTEMI
reinforced concrete
ESHA ELASTIC secondary waterproofing layer and vapour barrier reifoced with TEXTILE A100 in corners
holker
cement screed under the slope of 3%
gully
flange
ESHADESMOLAST PRIMER AQUA 2K
ESHADESMOLAST primary waterproofing +
ESHADESMOLAST HRD additional chemical protection
TEXTILE A 100

detail 2

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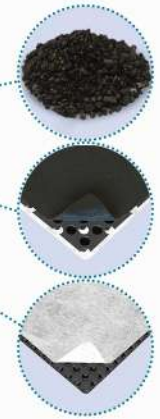
Supporting structure of intensive green roof – planters. Best supporting structure is reinforced concrete, however, in special cases it is possible to apply some other load-bearing structures such as steel, wood, etc.

Horizontal slope layers of intensive roofs – planters. horizontal slope of layers must be conspicuous, in the range of 2.5 - 4% depending on the size of intensive green roof.



ND DGS-I earth substrate

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

ND 120 vertical drainage layer

TEXTILE A 100

ESHADESMOLAST primary waterproofing +
ESHADESMOLAST HRD additional chemical protection

ESHADESMOLAST PRIMER AQUA 2K

holker

cement screed under the slope of 3%

ESHA ELASTIC secondary waterproofing layer and vapour barrier reifoced with TEXTILE A100 in corners

reinforced concrete

Horizontal expressed slope is very important for waterproofing layers, because rapid flow of water has beneficial effects on longevity and functionality of waterproofing layers, and all the other layers.

detail 3

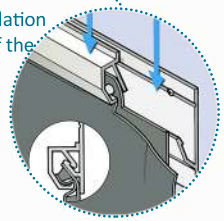
Waterproofing system of intensive green roof - planters.
This layer is the most important part of the overall system and the negative consequences of poorly executed and poorly constructed waterproofing systems in this case are considered to be one of the greatest errors in the construction with large negative consequences.

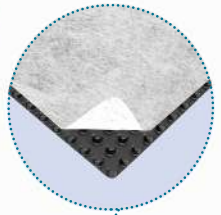
drip under the slope of 1%

PROFIL ND CLIC profile that should be fixed to the adhesive layer so it would not demage waterproofings

ARDEX FB 9 L adhesive for stone

ARDEX QUARZSAND granulation 0.3-09mm, for better gripping of the adhesive on the waterproofing layer





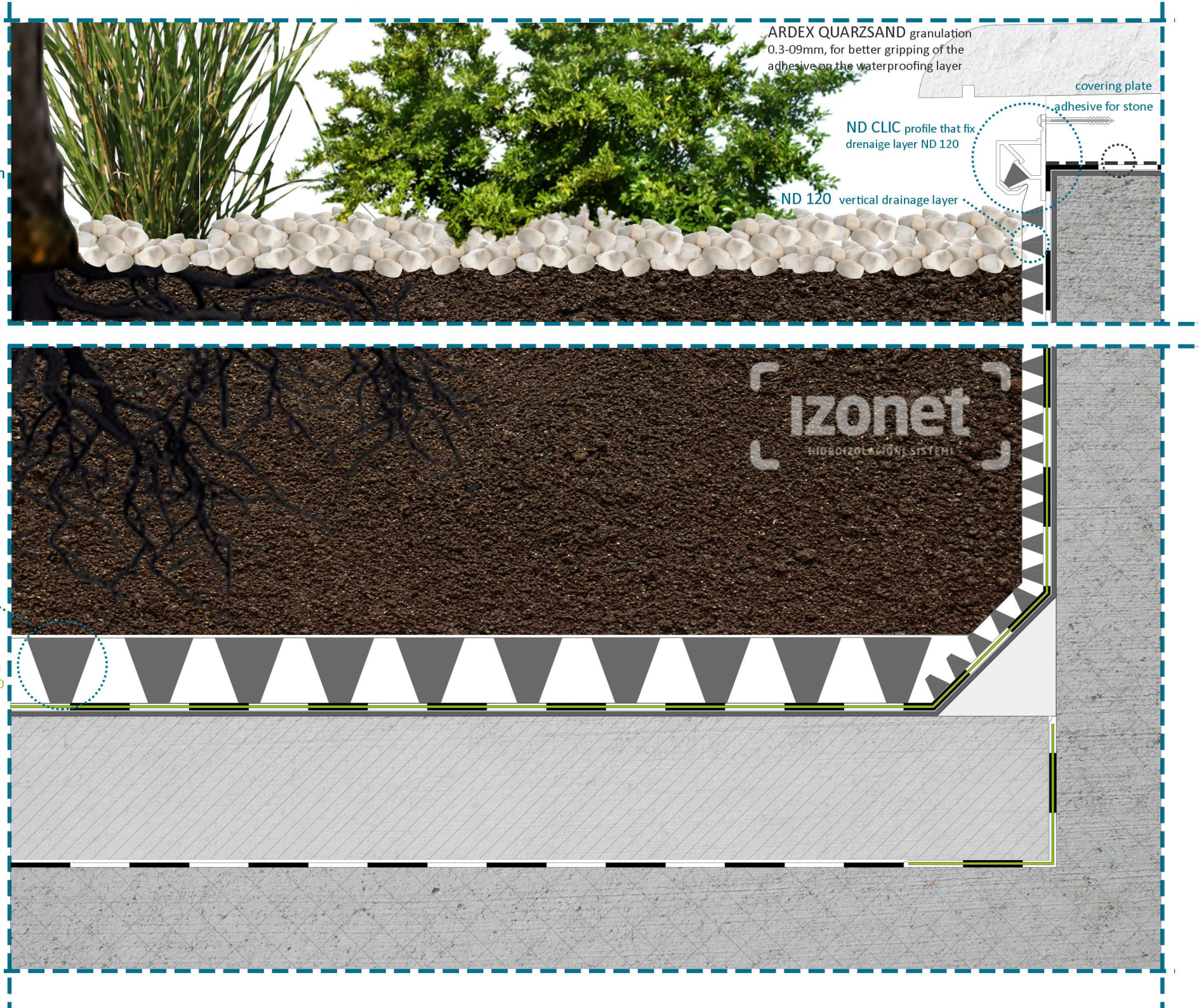
ND DGS-I earth substrate

ND 120 vertical drainage layer

ESHADESMOLAST primary waterproofing +
ESHADESMOLAST HRD additional chemical protection

ESHADESMOLAST PRIMER AQUA 2K

reiforced concrete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0.3-09mm, for better gripping of the
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covering plate
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ND 120 vertical drainage layer
vegetation
river gravel - pebble
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ESHADESMOLAST primary water-
proofing reinforced with TEXTILE A 100
+ ESHADESMOLAST HRD
additional chemical protection
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AQUA 2K
cement screed under the
slope of 3%
ESHA ELASTIC secondary water-
proofing layer and vapour barrier
reifoced with TEXTILE A100 in
corners
reinforced concrete

Photos of successfully realized project, Porto Montenegro, 2017.

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