Our references

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A green cover is always the best.

DIAWOOL®

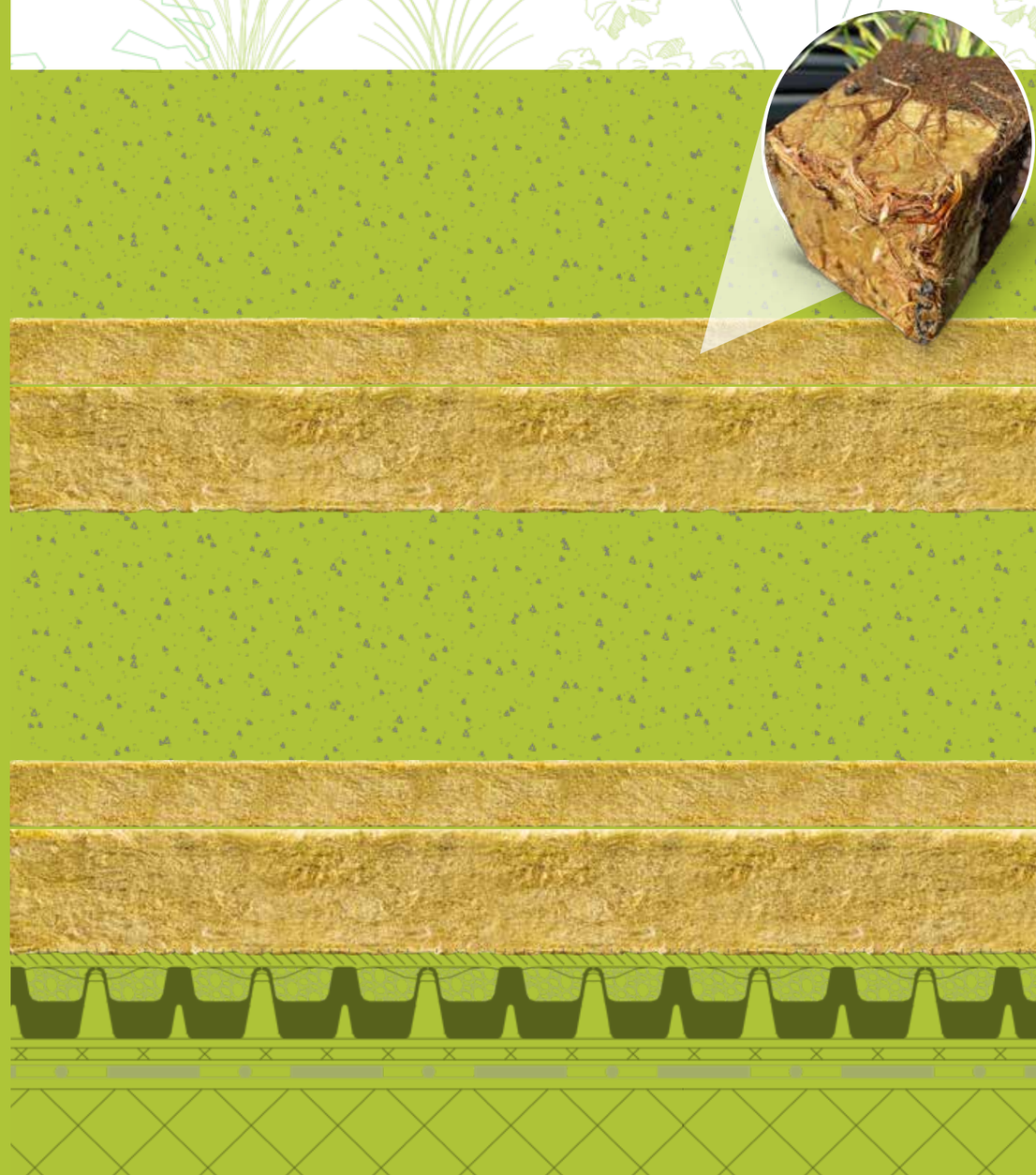
WATER RETENTION SYSTEMS

Vegetation

Growing medium

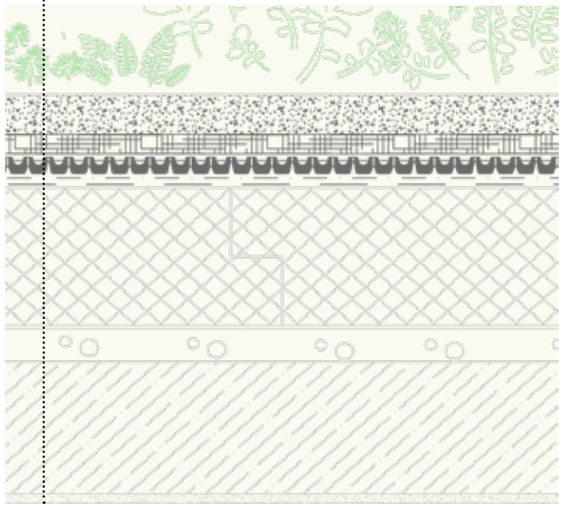
DiaWool®

NATURAL HARMONY



EXTENSIVE VEGETATION ON FLAT ROOFS

extensive vegetation
DIADEM® SEM extensive growing media
DiaWool® E30 mineral wool
DIADEM® VLF-150 filter layer (optional)
DIADEM® DiaDrain-25H drainage board
DIADEM® VLU-300 mechanical protection layer
root resistant waterproofing membrane
thermal insulation
other layers

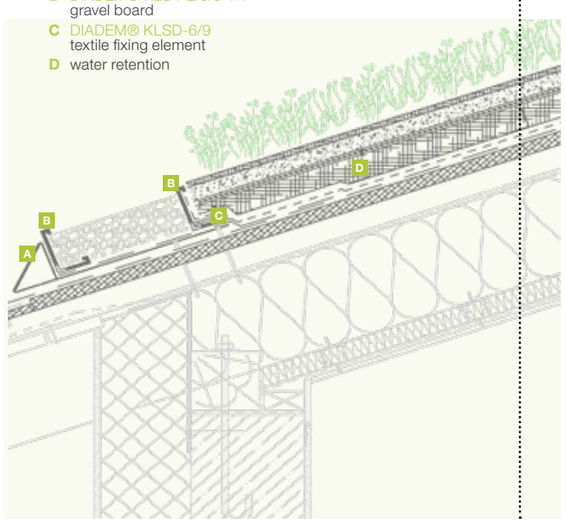


Extensive layer build-up thickness: 12 cm
Water retention capacity of extensive layer build-up: 55 l/m²
System dry weight: 49 kg/m²
System weight saturated with water: 108 kg/m²

EXTENSIVE VEGETATION ON PITCHED ROOFS

DIADEM® MAT-25 sedum mat
DIADEM® SEM extensive vegetation
DIADEM® geonet
DiaWool® E50 mineral wool
DIADEM® VLS-500 technical protection and moisture retention fleece
root resistant waterproofing membrane
other layers

A DIADEM® KLH-80
gravel board support (per 50 cm)
B DIADEM® KLS-AL-6/9-TK
gravel board
C DIADEM® KLSD-6/9
textile fixing element
D water retention

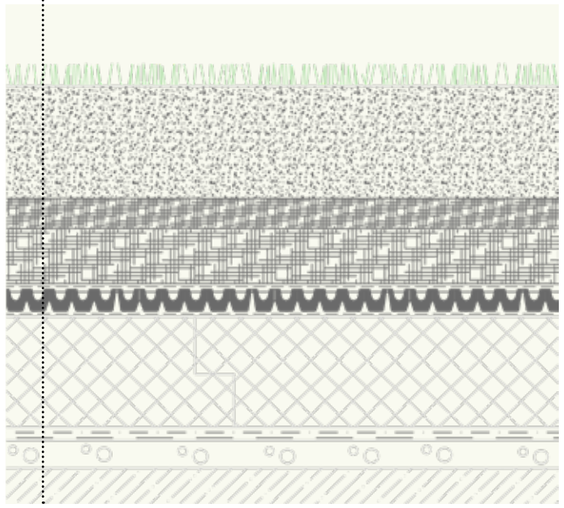


Extensive layer build-up thickness: 10 cm
Water retention capacity of extensive layer build-up: 20-25 l/m²
System dry weight: 52 kg/m²
System weight saturated with water: 118 kg/m²

DIAWOOL®
WATER RETENTION SYSTEMS

SEMI-INTENSIVE VEGETATION

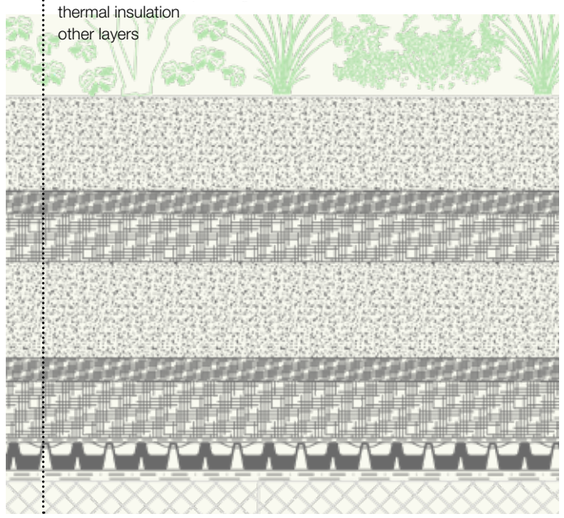
semi-intensive vegetation
DIADEM® SIM intensive growing media
DiaWool® I50 mineral wool
DiaWool® I100 mineral wool
DIADEM® VLF-200 filter layer
DIADEM® DiaDrain-40H drainage board
DIADEM® VLF-110 separation layer
xps thermal insulation
DIADEM® VLU-300 mechanical protection layer
root resistant waterproofing membrane
other layers



Semi-intensive layer build-up thickness: 40 cm
Water retention capacity of semi-intensive layer build-up: 135 l/m²
System dry weight: 206 kg/m² (incl. weight of lawn mat)
System weight saturated with water: 408 kg/m² (incl. weight of lawn mat)

INTENSIVE VEGETATION

intensive vegetation
DIADEM® SIM intensive growing media
DiaWool® E50 mineral wool
DiaWool® I100 mineral wool
DIADEM® SIM intensive growing media
DiaWool® E50 mineral wool
DiaWool® I100 mineral wool
DIADEM® VLF-200 filter layer
DIADEM® DiaDrain-60H drainage board filled
DIADEM® VLU-500 mechanical protection layer
root resistant waterproofing membrane
thermal insulation
other layers



Intensive layer build-up thickness: 80 cm
Water retention capacity of intensive layer build-up: 250 l/m²
System dry weight: 355 kg/m² (not incl. weight of lawn mat)
System weight saturated with water: 718 kg/m² (not incl. weight of lawn mat)

APPLICATION

DiaWool® is a lightweight, hydrophilic product made of volcanic rock. It is capable of absorbing and retaining large amounts of water and its unique structural composition guarantees the slow discharge of water from rock wool into the vegetation.

DiaWool® when used in combination with mineral-based growing medium (SIM, SEM), it can act as partial substrate replacement, reducing the overall load bearing capacity on the roof.

Areas of application: Green/Blue roofs, flower planters, green area between railway tracks

Advantages over conventional layer build-up:
- Economical transportation and material handling
- Fast, simple, cost-effective implementation
- Multiple water retention capacity (accumulation)
- Advanced noise absorption

DiaWool®´s growing international reputation and expansion, is based on a 25-year experimental research combined with a green roof, utilising rock wool and a growing medium (substrate). The material should not be confused with rock wool generally used in the construction industry for thermal insulation, since the chemical purity of DiaWool® is so good that it is also used for vegetation cultivation as a growing medium.

In solving the problems caused by global warming, the materials of the DiaWool® product family are of increasing strategic importance:

- Water management on roofs
- Water retention
- Water runoff deceleration
- Reduction of urban heat islands

DiaWool® with its advanced research, our main objective is to continuously support the layer build-ups of Green/Blue roof systems globally, as well as persistently developing our products further.