ARCHITEK ASSURED GREEN ROOFS

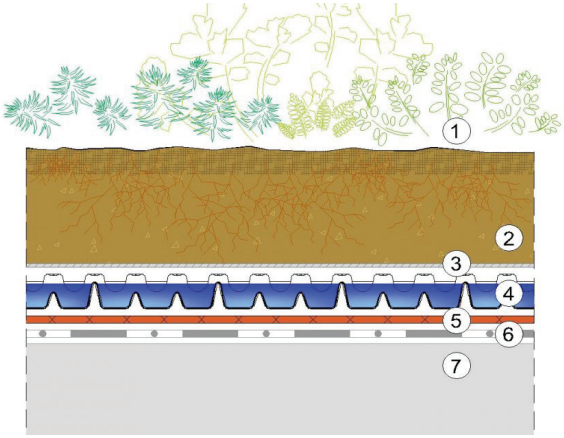
semi-intensive

Medium depth, green roofs that usually use more substantial grasses, perennials or smaller shrubs. The soil or grow media/substrate layer is usually 150mm to 300 mm or 6-12" and the entire system has a saturated weight of less than 40 lbs. per square foot, average being about 30 lbs. per square foot. In addition to the usual ecological benefits this type ot construction has the added value ot providing additional valuable space tor recreational use.

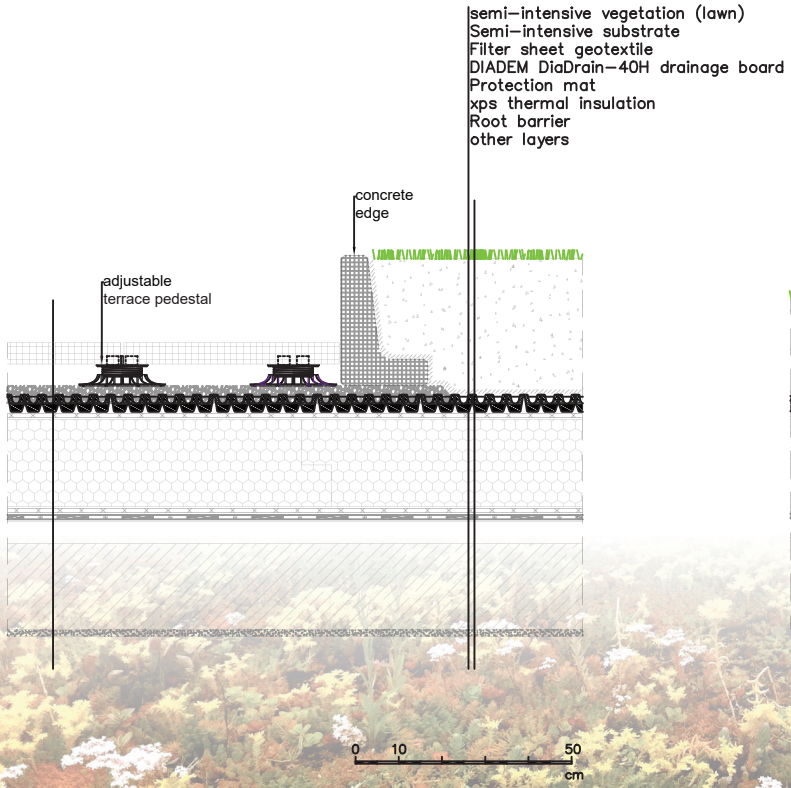
DIADRAIN-40H

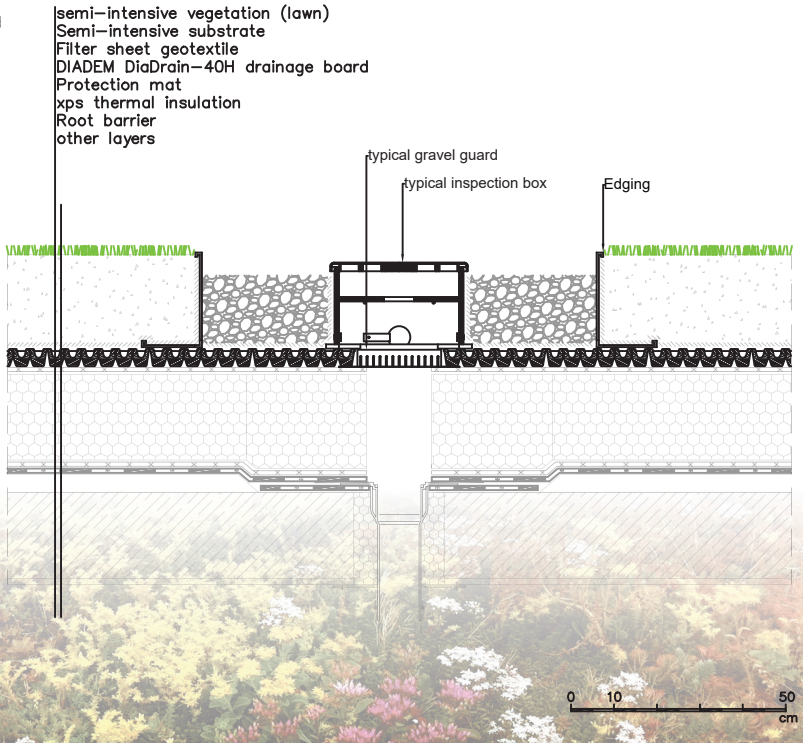
KEY FEATURES:

- **Suitable for everyday use;**
- **Increased property value;**
- **Better use of available space;**
- **Wide range of possible designs;**
- **Relatively low investment cost;**
- **Improved thermal efficiency;**
- **Technically sound;**



1. EXTENSIVE VEGETATION
2. GROWN MEDIA
3. DIADEM VLF 150;200 FILTER LAYER
4. DIADRAIN-40H
5. DIADEM VLU 300/500 MECHANICAL PROTECTION LAYER
6. ROOT RESISTANT WATERPROOFING MEMBRANE
7. ROOF STRUCTURE/CONSTRUCTION





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ARCHITEK

Engineered Solutions For Living Buildings

ARCHITEK ASSURED GREEN ROOFS - semi-intensive

Thickness of system (inch):	12.0″
Dry Weight (lbs/sqf):	27.57
Saturated Weight (lbs/sqf):	46.40
Vegetation (types):	Mix of Sedums / Plugs / Perennials (flowers and herbs)
Water Retention capacity (L/sqm):	94 +

COMPONENTS:

Special plants for semi intensive green roofs. Sedums, plugs and perennials.
Sedum size: 12″ x 24″ (different mixes). A coconut fiber base assures effective rooting of plants to the underlying growth medium and holds the tile together for easy installation.

Architek Semi-Intensive Mix. the proper blend of organic matter and aggregates to an FLL standard. The growing media ensures the nutrients needed for the growth of plants, serves as a support to the roots, thus providing the ground of the growth of the vegetation. It includes mostly minerals, mixtures with proper air content, and durable good water permeability and stable structure.

Available in bags and bulks.

Filter Layer. Geotextile is a filter layer with very low clogging indicator, allowing the water to flow away freely from the growing medium, preventing particles wash out thus assuring the flow of redundant water into the drainage system.

DiaDrain-40H Drainage Board. Made of recycled high-impact polystyrene, 40 mm high, stepped barrier form, with recessed evaporation vents and water channel system on the underside.

Board size (mm):	approx. 2040×1040×40 [ca. 2,12 m2/sheet]
Rainwater retention capacity (l/sqm)	19,59
Water flow capacity EN ISO 12958 (l/(m×s))	at 1%: 0,70 • at 2%: 1,01 • at 3%: 1,25 • at 5%: 1,63

Protection Mat. This product protects the roof insulation boards against damage during the installtion and future maintenance work serving as a protecting layer.

Root Barrier. Root resistant and vapour control layer made of 20-40 mm thick elastic polyethylene regenerate. Applicable as a vapour control layer and can be used as a root resistant layer on green roofs when lied down with a 1.0 m overlapping. Dimensions: 4×25 m (W×L);
Roll width: 1 m; wrapping: 100 m2/roll; colour: black.

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