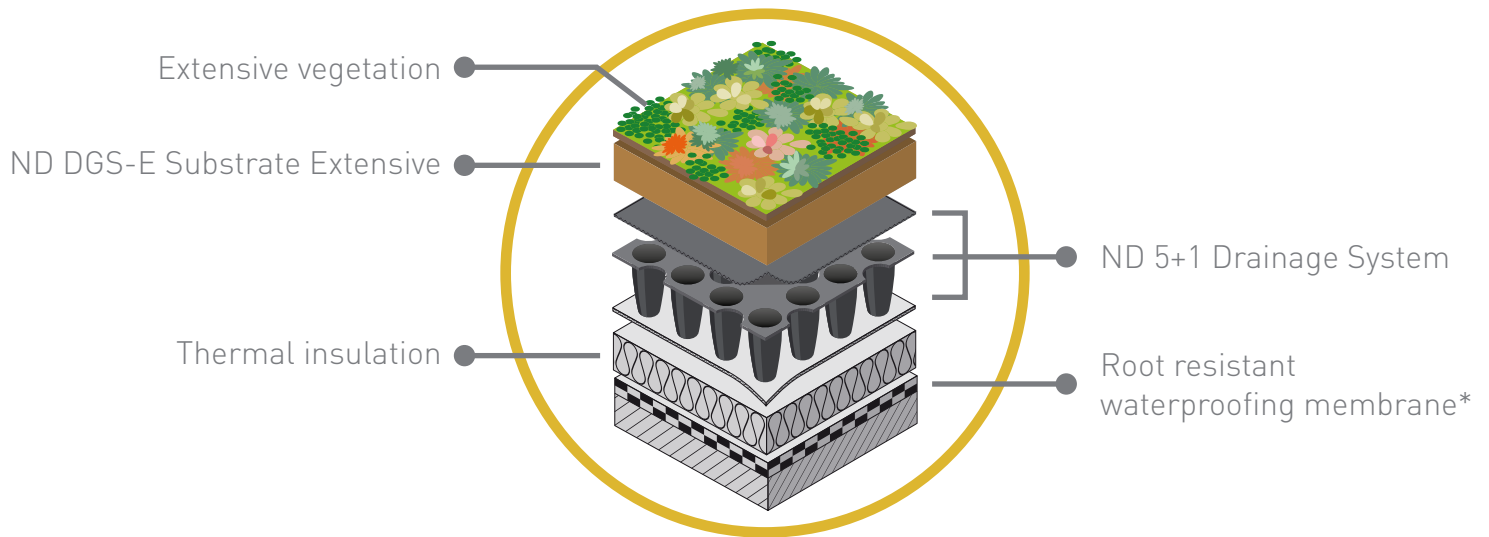


# Nophadrain Extensive Green Roof System

## Flat roof / exceptions



\*Optional ND WSB-50 Root Barrier: if the waterproofing membrane isn't root resistant.

### Explanation of build-up

#### Roofs with insufficient fall

Because the roof has insufficient fall, it is necessary to use the ND 5+1 Drainage System. This drainage system is suitable because of the high construction height of 27.5 mm. The higher construction height prevents puddles on roofs with insufficient fall. When puddles on the roof occur, the roots of the vegetation are constantly in the water, which can limit the growth of the vegetation or even cause the vegetation to die completely. In addition, we also want to prevent permanent water on the waterproofing membrane. This creates hydrostatic pressure that could damage the waterproofing membrane.

**Tested:** the ND 5+1 Drainage System is tested for suitability for roofs with insufficient fall by the "Hochschule für Technik (FH)" in Karlsruhe (Germany).

#### Exceptions: inverted roof constructions

The ND 5+1 Drainage System is also applicable for inverted roofs (as are all our ND +1 Drainage Systems). Every ND +1 Drainage System is equipped with a perforated core and separation geotextile (instead of a foil). In this way the water vapor can evaporate freely out of the inverted roof construction's XPS insulation.

More information about the ND 5+1 Drainage System? Visit [www.nophadrain.com/5plus1](http://www.nophadrain.com/5plus1).