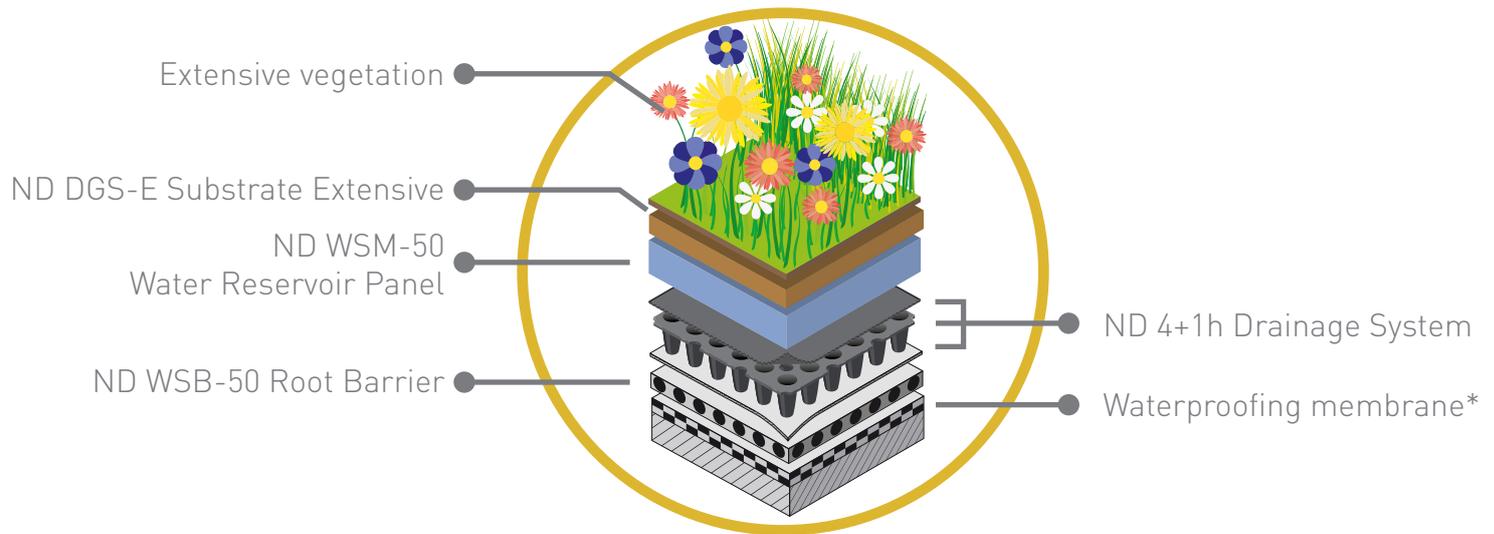


# Nophadrain Extensive Green Roof System

## Extra waterbuffer



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

### Explanation of build-up

To make even more water available for the vegetation, Nophadrain recommends to combine all green roofs with either our ND WSM Water Reservoir Panels or ND SM Substrate Panels. Both are made of hydrophilic (water absorbing) mineral wool and differ in water storage capacity and density. Whereas the ND SM Substrate Panels (available in 25 mm and 50 mm) offers a water **storage capacity of 15 or 30 l/m<sup>2</sup>**. In this build-up the ND WSM Water Reservoir Panel is applied and it has a **water storage capacity of 40 l/m<sup>2</sup>**.

Both products are installed above the ND Drainage System and buffer water up to their saturation point. By this:

- more water is made available for the vegetation,
- the important evapotranspiration and subsequent water cycles are being fostered and
- only excess water will be discharged into the storm water systems.

### Different densities for different applications

Air volume content and compression strength can be determined with the differentiation in density. ND SM Substrate Panels have a density of 80 kg/m<sup>3</sup> and a limited compression. Therefore, the ND SM Substrate Panels can be classified as substrate substitute and their composition height can be deducted from the overall substrate height. These features make the ND SM Substrate Panels particularly suitable for extensive green roof applications. ND WSM Water Reservoir Panels have a density of 120 kg/m<sup>3</sup>. This improves the compression strength even further and limits the compressibility even more. This makes ND WSM Water Reservoir Panels especially suitable for any application where higher substrate thicknesses, e.g. biodiverse, semi-intensive, intensive green roofs, are used.

### Extra filter functions - why choose WSM?

Due to their specific structure, the ND WSM-50 Water Reservoir Panels also function as extra "filter layer". This allows the use of substrates with higher organic content, enabling an even more biodiverse vegetation with increased transpiration and evaporation. True to our motto "Catch it,, Keep it, Re-use it".

Want to learn more about the many advantages of our mineral wool products? Visit [www.nophadrain.com/wsm](http://www.nophadrain.com/wsm) or [www.nophadrain.com/sm](http://www.nophadrain.com/sm).