



Underground garage with additional benefit: As space is limited in urban areas, cars park on several levels.

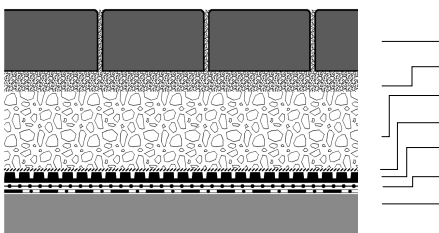
## Conception

Lidl is an international discount supermarket chain operating more than 12,000 stores in Europe and the United States. This store was built in 2019 in close proximity to the Dutch Lidl headquarters in Huizen.

Due to the limited space in the greater Amsterdam area, the car parks were built on several levels. The outdoor parking area is situated on top of the concrete deck of the underground garage. It had to be designed stable enough to stand the occasional traffic of

heavy weight fire trucks in cases of an emergency, in addition to the regular car traffic. With very little slope towards the edges and a limited build-up height, the system build-up "Driveway for Lorries" with Elastodrain® EL 202 was chosen. Also the store building was equipped with a green roof, combined with photovoltaic modules. The green roof supports the local biodiversity and contributes to a cooling of the environment as well as an increased output of the photovoltaic system.

## System Build-up



- Concrete pavers / Asphalt
- Bedding layer, 30–50 mm
- Gravel base layer, min. 150 mm
- Filter Sheet PV
- Elastodrain® EL 202
- Slip Sheet TGF 20, 2 layers
- Roof construction with root resistant waterproofing

## Development



This photo shows the sequence of all layers from the waterproofing to the base layer.



The parking lots are covered with concrete pavers.



Heavy vehicles can drive on Elastodrain® EL 202 to asphalt the driveway.

## Project Data

Area:  
Car Park ca. 1.200 m<sup>2</sup>, Sedum Roof with Solar Panels ca. 2.150 m<sup>2</sup>

Construction Year: 2019

Installation:  
Kroeze hoveniers, Beesd

System Build-up:  
"Driveway for Lorries" with Elastodrain® EL 202  
"Sedum Carpet" with Fixodrain® XD 20

Coordinates:  
52°18'18.7"N 5°14'12.8"E



The Sedum plug plants are planted on the roof.



The view from the roof of the Lidl market shows the size of the building site.

