

## Green roofs “Latenstein”

Status	Implemented 2011 – 2012
Location	The Netherlands, Gelderland, Tiel, Tiel East / Latenstein
Spatial info	Urban quarter/street; Business / industrial park / schools
Measure type(s)	Green roofs; Water retention; Increase energy efficiency; Urban texture
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### Description and Aim

Realisation of 3000 m<sup>2</sup> green roof on business building. The aim was to motivate businesses with large flat roofs that are suitable for transformation into green roofs and thus contributing to water retention, increased energy efficiency, improved air quality and biodiversity.

### Adaptation to climate change

#### Problems addressed:

Heat wave, heavy precipitation/ flooding

#### Receptor(s):

Built environment

### Experiences

#### Functionality:

Reduction peak flows of rain water.

Green roofs reduce the inside temperature during hot days.

On a large scale contribution to reducing the Urban Heat Island effect.

#### Further synergies/benefits:

The green roofs will improve the liveability in Tiel East because of their effects on air quality, water retention (reduction of peak flows), reduction of urban heat island effects, etc.

They contribute to more biodiversity and better air quality.

Synergy with the aim to mitigate greenhouse gas emissions through improved insulations and less heating demand during winter and less cooling demand during summer.

#### Funding:

International and local: From the Future Cities-project and local sewerage fund.

#### Stakeholder involvement:

Owners of business buildings

#### Obstacles/restrictions:

Commitment of private owners is necessary.  
Construction of existing buildings is often not strong enough.