



MAXISTUD 20



## MAXISTUD 20 F

MAXISTUD 20 F is used for green roofs and terraces. Below all the advantages you can have using MAXISTUD 20 F on green roofs and terraces.

**High water retention**

- As the drainage flow rates from the roof are reduced (horizontal drainage over MAXISTUD 20 F) the dimension of gutter pipes, outlets and sewers can also be reduced. This, in turn, enables to minimise building costs. Furthermore, any overloading of the water drainage system is successfully prevented.

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**Successful reduction of dust and smog levels**

- Particles of smog and dust contained in the air settle on the green roof and from there to the ground when it rains. MAXISTUD 20 F helps reducing the concentration of dust and smog in the air.



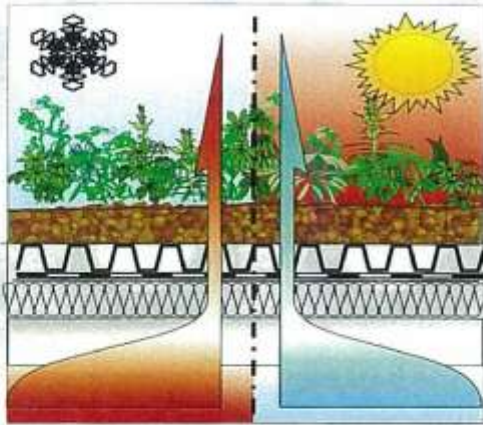
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**Noise reduction**

- Green roofs absorb the noise coming from airplanes, discos, cars, etc. This has positive impact on the owners of the green roof (the noise level inside the house is reduced by 8 db), as well as for their neighbours (the reflected sound is reduced by 3 db).



# MAXISTUD 20 F



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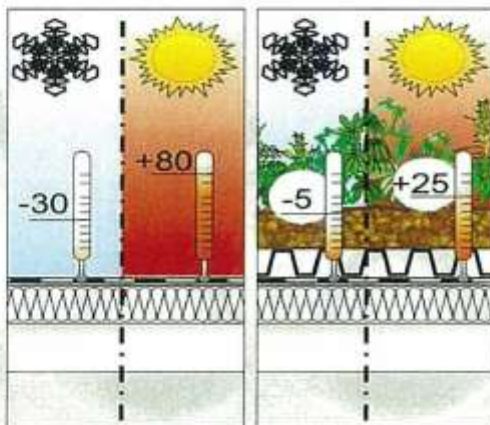
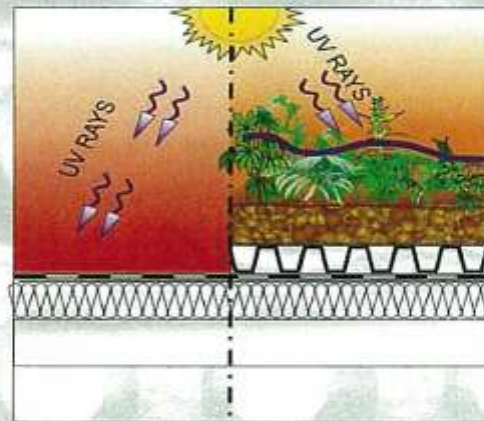
## Thermal insulation

- Green roofs contribute to maintain your home cool in summer and warm in winter. A 20/30 cm high green roof can reduce the outgoing heat by 65%. During summer the advantages of a green roof are maximised, because the green roof retains water for the plants and vegetation, which in turn cool and shade the deck. This features allow significant savings on heating and cooling energy expenses.

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## Efficient protection form UV rays

- MAXISTUD 20 F protects the waterproofing membrane from UV rays. As a consequence, a longer life of the waterproofing membrane and therefore of the roof is expected. Furthermore you are not obliged to use a high quality membrane (-30) but a cheaper one (-5) can offer the same results.

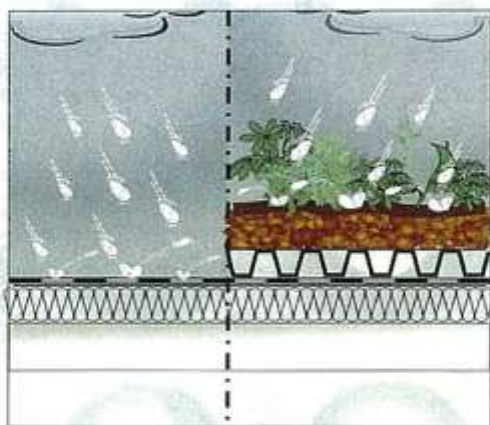


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## Protection from sudden temperature changes

- On conventional roofs the temperature difference between summer and winter is approx. 110° C. On green roofs the temperature difference is reduced to 30° C. This contributes to extend the life of the bituminous membranes.





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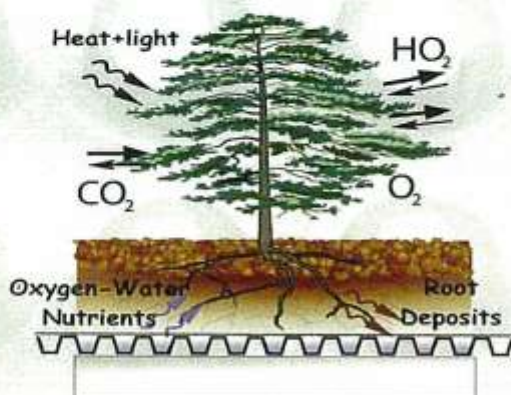
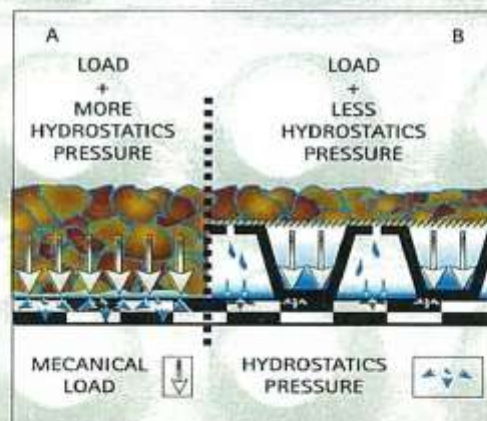
### Protection from mechanical stress: hail

- Vegetation plays an aesthetical as well as functional role: for example, it successfully protects the bituminous membrane from the effects of hail.

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### Less risks of infiltrations

- The reduction of any hydrostatic pressure on the waterproofing membranes dramatically minimises the risks of water infiltration. In case "B" there is also a reduction of the weight on the roof.



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### Improved quality of life

- The green roof is a small "green lung" that has beneficial effects on the area where you live.

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### A house "within a natural environment"

- Green roofs create pleasant microclimates where to live.

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### Increased value of buildings

- Built areas are expensive! The roof can be easily used as a living space (for example as a terrace or a sports area). This enables to make a better use of the built space, without spending a lot of money in order to buy additional land.



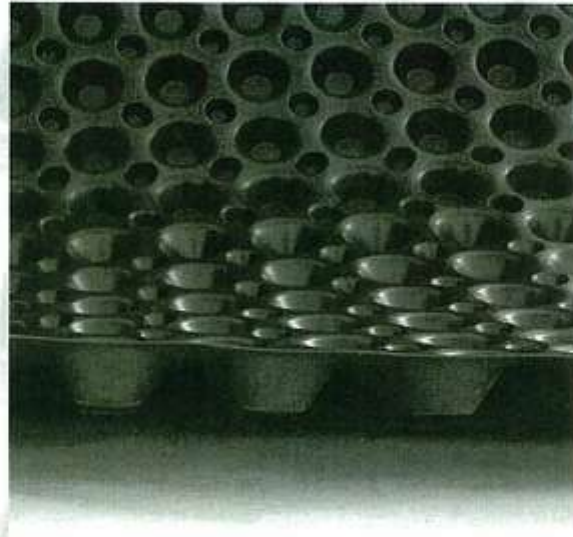
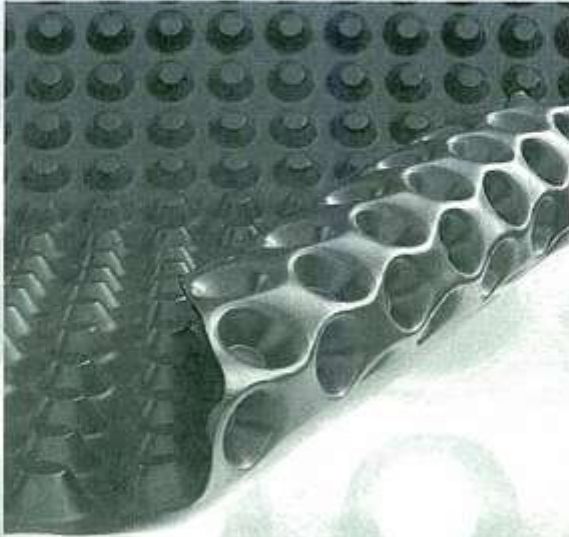
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### Water resources savings

- Water retention enables to make an optimal use of water resources which would otherwise be wasted. This is very important particularly nowadays.

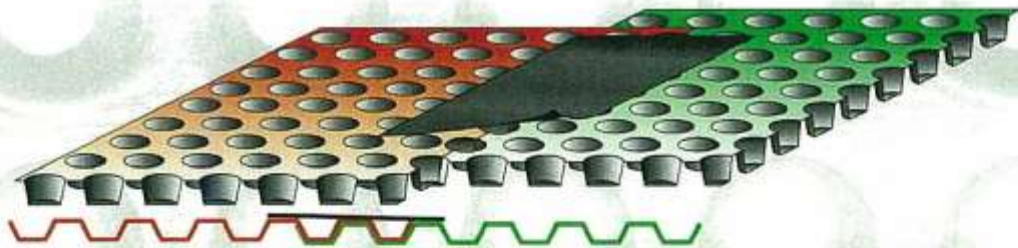


## MAXISTUD 20 · MAXISTUD 20 F



### Installation Instructions

JOIN



#### MAXISTUD 20

- Both the horizontal and the vertical installation techniques require that one row of studs is applied on top of two layers of MAXISTUD 20.

Where it is necessary to seal overlaps, apply the self-adhesive band between the two layers on the flat part (not on the studded part).

In case of vertical installations fix MAXISTUD 20 to the wall by using our plugs and nails (at a distance of 20 cm).

#### MAXISTUD 20 F

- Lay the bituminous membrane (that should be a root barrier) on the roof, then lay the thermal insulation on top of it (use extruded polystyrene because it is particularly water resistant).

Lay MAXISTUD 20 F in place, with the studs facing down.

Lay a row of studs on top. Before spreading out the soil, place a filter mat on top of MAXISTUD 20 F in order to prevent the soil from filling the studs, which would drastically reduce water retention.

Plant your favourite vegetation and enjoy your new garden.



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