



Solar cyclepathmodules in collaboration with Hanergy/Solibro

Our solar module for cyclepaths has been developed by Sirius Solar in collaboration with several parties including Hanergy.

The starting-points were/are:

1. Scratch resistant and durable
2. Anti slip surface
3. To be able to match with high pressure
4. Sufficient light admittance for generating electricity
5. Sufficient stability
6. Optical attractive

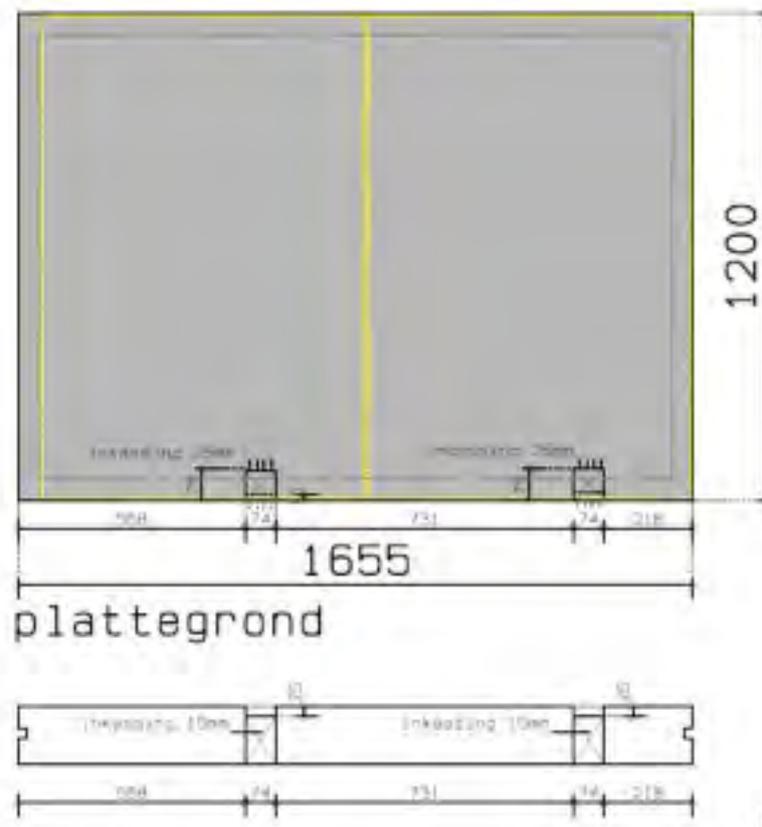
At the start of the First pilot systems which are placed, there has been used modular concrete elements which are connected to each other.

The PV module is a fusion of a Solibro Thin Film panel combined with a top-glass element with the same measurements.



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Drawing of the concrete element such as this has been implemented and applied at several pilots.

Top Glass

The top glass element has been adjusted in terms of measurement to the PV module.

Specs Top Glass:

1. Thickness 6mm
2. Facet grinded
3. Low E glas
4. Thermal hardend
5. Pattern ceramic branded
6. Anti slip with factor R12
7. Pattern within boundaries adjustable to the wishes of the customer
8. Weight approximately 15.4 kg

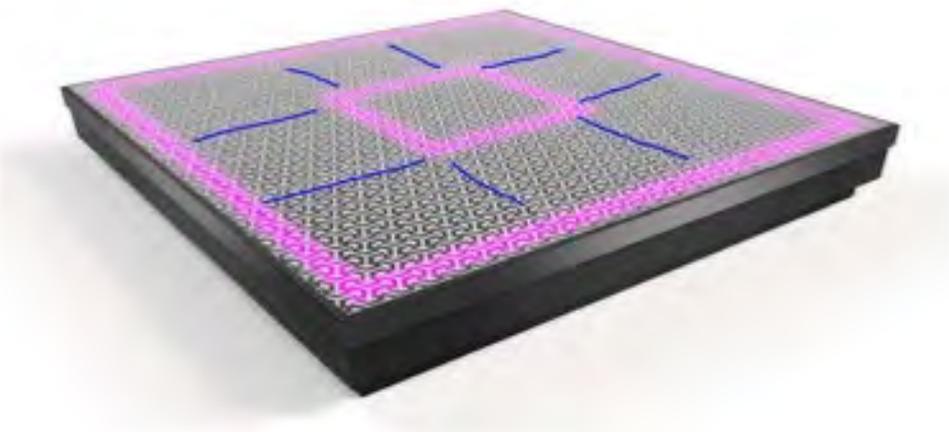
Mounting options

The cyclepathmodules have a width of approximately 80cm. These are per two PV modules worked on one concrete module. The concrete module has therefore a measurement of approximately 160x120cm (WxH)

They can be placed as an single module thus approximately 160cm width or as double approximately 320cm width.

The last application seams to us to be chosen the most, because the cyclepaths in the Netherlands usely have a width of 300cm. But at reasonable numbers more is possible,for instance concreetmodules which accist of three PV modules in the width and therefore are 240cm width.

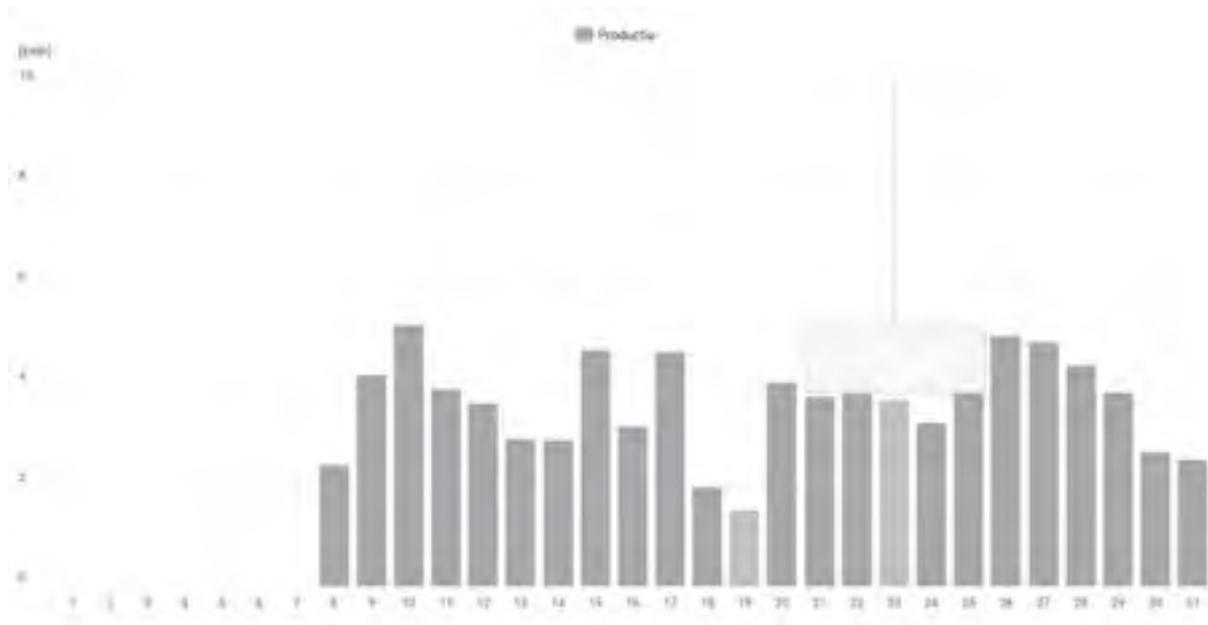
An alternative is the paving stone, of which following an impression:



Ofcourse we have left the monitoring behind at the pilot and at first came out for satisfactory results. Calculations about this show thar approximately 2/3 till 70% of installed power keeps standing.

That is what we call satisfactory because taken into account with a flat mounting and addition of 6mm low-e glass.

Below a histogram of the revenu:



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