



De heer M. Galavazi  
Bilderdijkstraat 18  
2313 XE Leiden

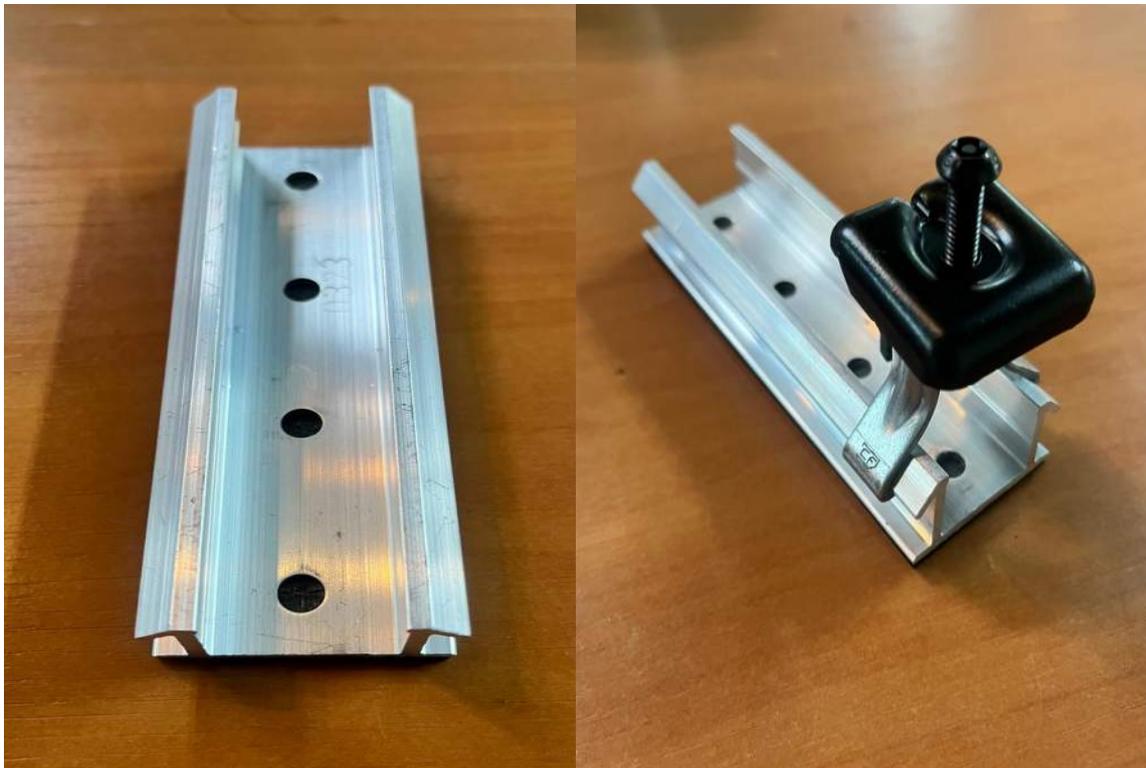
15 mei 2023

Betreft: aanvragen omgevingsvergunning

Geachte heer Galavazi,

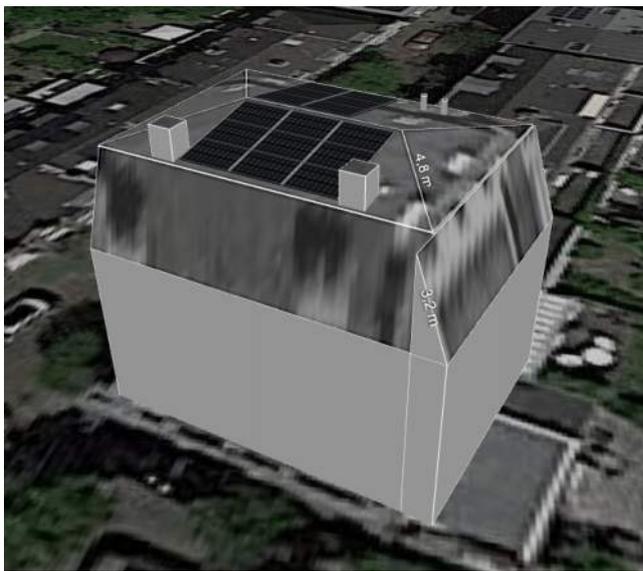
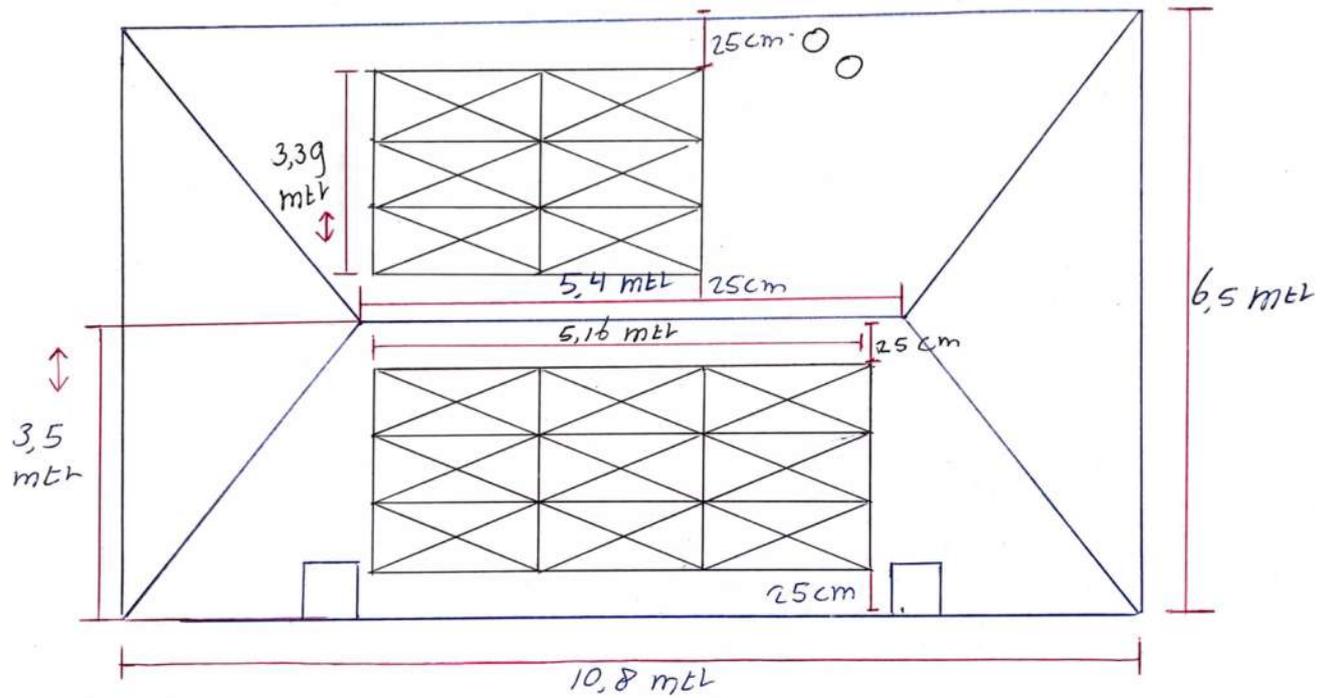
Bijgaand treft u de aanvullende gegevens aan met betrekking tot het aanvragen van een omgevingsvergunning, t.b.v. het plaatsen van zonnepanelen op het dak van de woning aan de Bilderdijkstraat 18 te Leiden.

Het mansardedak kent een hoek 102graden. Hier worden aan de Noord-Oost en de Zuid-West zijde de panelen geplaatst. De panelen worden geplaatst op montage materiaal van ESDEC Solar met klemmen, zie foto's.



Afmetingen:

Zie bijlagen hieronder. Panelen zijn niet zichtbaar vanuit openbare ruimte.





390 - 405 Wp

**AXITEC**  
high quality german solar brand

## AXIworldblackpremium XXL HC

High performance solar module  
108 halfcell, monocrystalline

### The advantages:

- 15** Years 15 years Manufacturer's warranty
- HC** High module performance through Half-Cut-technology and selected materials
- +** Wp Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100 % visual electroluminescence inspection in production
- IP 68** High quality junction box and connector systems

**25**  
YEARS

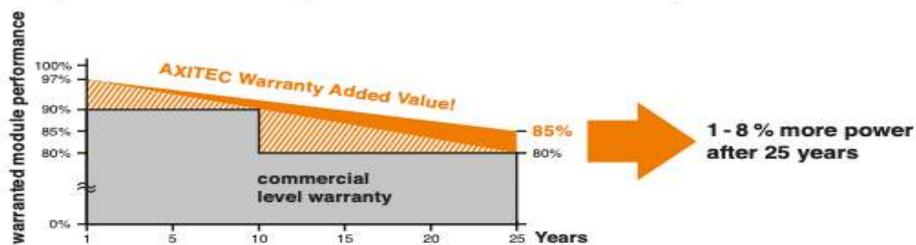
Zoek in documenten en bestandsnamen naar tekst



GERMAN BRAND

### Exclusive linear AXITEC high performance guarantee!

- 15 years manufacturer's guarantee on 90% of the nominal performance
- 25 years manufacturer's guarantee on 85% of the nominal performance



## AXIworldblackpremium XXL HC 390 - 405 Wp



**Electrical data** (at standard conditions (STC) irradiance 1000 watt/m<sup>2</sup>, spectrum AM 1.5 at a cell temperature of 25°C)

Type	Nominal output P <sub>mpp</sub>	Nominal voltage U <sub>mpp</sub>	Nominal current I <sub>mpp</sub>	Short circuit current I <sub>sc</sub>	Open circuit voltage U <sub>oc</sub>	Module conversion efficiency
AC-390MH/108V	390 Wp	30.80 V	12.67 A	13.56 A	36.70 V	19.95 %
AC-395MH/108V	395 Wp	31.00 V	12.75 A	13.65 A	36.90 V	20.25 %
AC-400MH/108V	400 Wp	31.20 V	12.83 A	13.73 A	37.10 V	20.50 %
AC-405MH/108V	405 Wp	31.40 V	12.90 A	13.81 A	37.30 V	20.76 %

### Design

Frontside	3.2 mm hardened, low-reflection white glass
Cells	108 monocrystalline high efficiency cells
Backside	Composite film
Frame	35 mm black aluminium frame

### Mechanical data

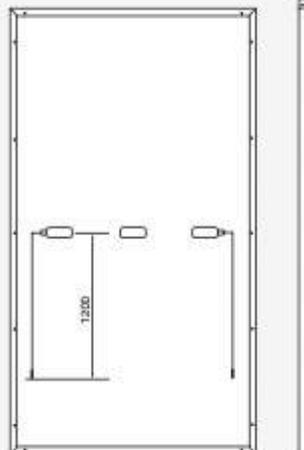
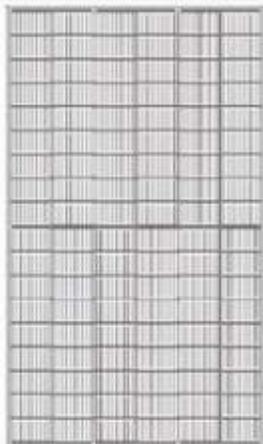
L x W x H	1722 x 1133 x 35 mm
Weight	21.0 kg with frame

### Mechanical load

Design load (pressure/suction)	3600 Pa / 1600 Pa
Test load (pressure/suction)	5400 Pa / 2400 Pa

### Power connection

Socket	Protection Class IP68
Wire	approx. 1.2 m, 4 mm <sup>2</sup>
Plug-in system	Plug/socket IP68, Stäubli EVO2



All dimensions in mm

### Limit values

System voltage	1500 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Reverse current feed IR	25.0 A

Permissible operating temperature -40°C to 85°C / -40F to 185F

(No external voltages greater than U<sub>oc</sub> may be applied to the module)

\* NOCT, irradiance 800 W/m<sup>2</sup>; AM 1.5; wind speed 1 m/s; Temperature 20°C

### Temperature coefficients

Voltage U <sub>oc</sub>	-0.28 %/K
Current I <sub>sc</sub>	0.045 %/K
Output P <sub>mpp</sub>	-0.35 %/K

### Low-light performance (Example for AC-405MH/108V)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2.64 A	30.22 V
400 W/m <sup>2</sup>	5.32 A	30.57 V
600 W/m <sup>2</sup>	7.95 A	30.81 V
800 W/m <sup>2</sup>	10.51 A	31.07 V
1000 W/m <sup>2</sup>	12.90 A	31.40 V

