

MS 5 PV

NELSKAMP Solar-Power Roofs

NEW!

Now also available with the patented
2Power-Function.



Dächer, die's drauf haben

NELSKAMP

The aesthetic power plant

NELSKAMP MS 5 PV

The **NELSKAMP MS 5 PV tile** has been specifically developed to hold the photovoltaic modules. It is a hard, extremely weather and frost resistant roofing tile and is known in the industry as an innovative tile for demanding roof architecture.

The MS 5 is produced in ceramic quality and has a water absorption rate of less than 3%, giving the tile a very long life expectancy.

Other than the hook and rail-mounted “on roof modules” the **NELSKAMP MS 5 PV photovoltaic system** settles itself harmonically into the roof. The therefore more homogeneous roof area offers more security in terms of storm and rain safety.

With the MS 5 PV system the clay roofing tile remains the dominating element of the roof design.



natural red

heritage black engobe

Dächer, die's drauf haben

NELSKAMP

Newly developed and patented

NELSKAMP MS 5 PV

NEW: Now also available with the patented **2Power-Function.**

HIGH ENERGY RETURN:

Already with diffuse light the mono-crystalline cells produce electricity and have a higher efficiency factor than other silicone cells. The efficiency factor of the cells is 18.3%. This means that the mono-crystalline cells produce more electricity based on the power rating in kW peak performance.

SOLID TECHNOLOGY:

The large format clay roofing tile MS 5 PV has been specifically developed to integrate and hold the solar modules. The cells are bedded in a UV-stable and highly transparent ethylene-vinyl-acetate. The photovoltaic laminate with a solar glass pane is framed by extruded anodized aluminium profiles. The top frame profile of the solar module is put into the ceramic groove of the MS 5 PV tile and the base frame profile is fastened to the tile with a powder coated aluminium bracket which is screwed into 2 predrilled holes in the tile.

NELSKAMP MS 5 PVM TECHNICAL DATA:

Type of cell	monokristallin 6"+
Electric output P_{max}	100 Wp +5%
Rated working current I_m	8,20 A
No-load working voltage V_{oc}	15,20 V
Short circuit current I_{sc}	8,80 A
Max. working voltage V_m	12,20 V
Max. system voltage	1000 V
Temperature coefficient P_m	- 0,430%/°C
Temperature coefficient V_{oc}	- 0,340%/°C

Temperature coefficient I_{sc}	0,050%/°C
Hail resistance according to	IEC 61215
Cell efficiency	18,3%
Weight of module	ca. 9,5 kg
1 kWp	10 modules
Module size	1965 x 399 mm
Connection plugs	MC4
Solar cable	2 x 4 mm ² 1200 mm long
Roof area	per 1 kWp ca. 10 m ²





The mono-crystalline glass-foil laminate modules combine a variety of advantages:

- Highly economic
- Rain tight installation
- Storm safe installation
- Conservation of the roof's aesthetics
- Integrated onto the tile
- Guarantee on power rating: 10 years 90% / 25 years 80%
- Product warranty 10 years

You do have a suitable roof area?
Please ask for further information!

Dächer, die's drauf haben

NELSKAMP

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