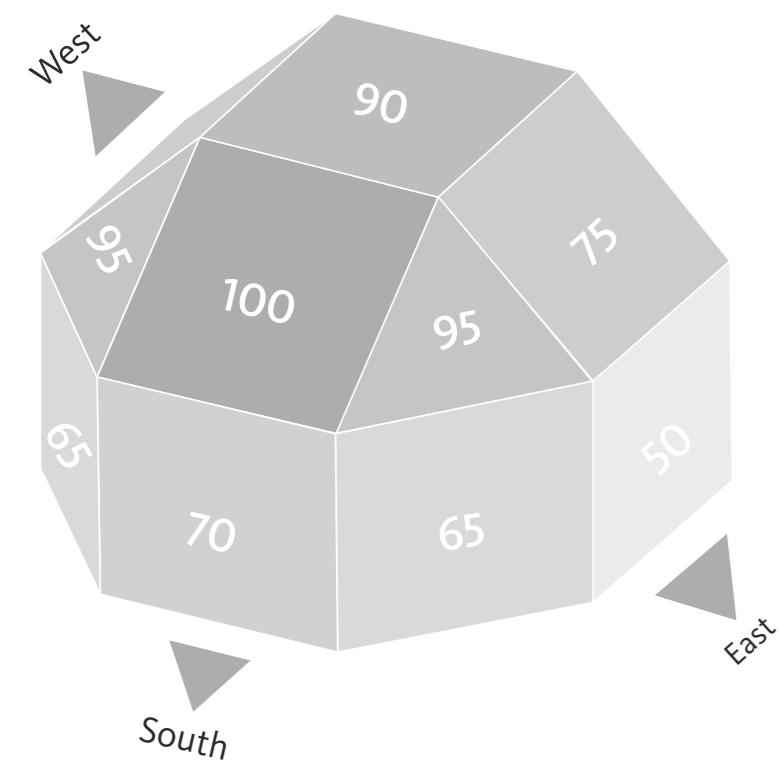


Possible yield relating to alignment of the photovoltaic system to the sun:



A significant factor of the electrical yield of a photovoltaic system is its alignment to the sun. The graphic shown above demonstrates the efficiency obtained with regard to directional orientation and tilt (valid for central Europe). Problems related to shading photovoltaic systems must be handled in advance.

We push
the limits of
feasibility!



ertex solar
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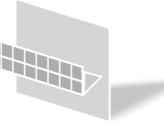



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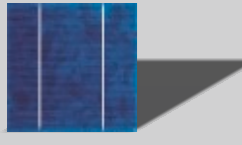
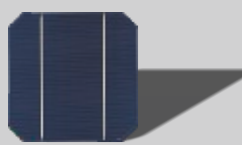

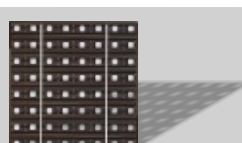

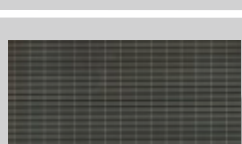
Possibilities of architectural
building integration
of photovoltaic modules.

ertex-solar photovoltaic modules can be universally integrated in buildings thanks to their variety. Exactly according to your architectural requirements:

-  Ventilated curtain wall **VSG**
Insulated curtain wall **VSG-ISO**
-  Balustrades and railings **VSG / VSG-ISO**
-  Sun screens and shading **VSG / VSG-ISO**
-  On-roof integration **VSG / VSG-ISO**
In-roof integration **VSG-EVO**
-  Shed roof integration **VSG / VSG-ISO**

VSG Laminated safety glass
VSG-ISO Laminated insulating safety glass
VSG-EVO Laminated safety thin glass

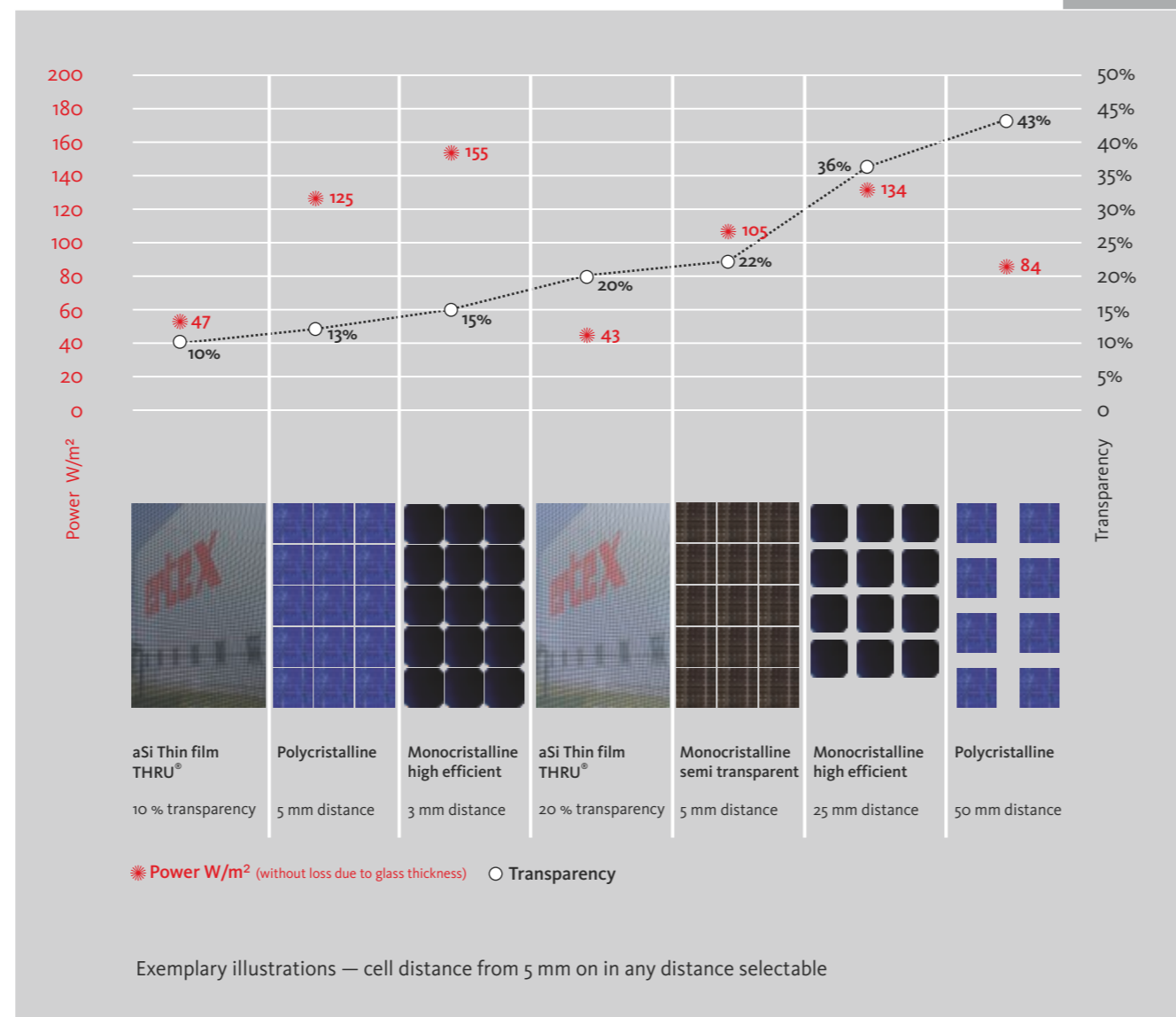
Various cell types for individual efficiency – transparency according to shading needed:

Cell type	Dimensions in mm	Efficiency	Area power W/m ²	Cell power W/cell
	156 x 156	16%	125	3,7 - 3,9
	156 x 156 125 x 125	18%	130	4,20
	125 x 125	22%	155	3,04 - 3,10
	125 x 125	17%	105	2,01
	576 x 976	5%	55	32
	576 x 976	4%	47 - 43	27

Various cell colours upon request and according to cell numbers ordered

Various cell types and colours can be integrated into individual **ertex-solar** modules. From our experience the cell types shown above offer the greatest efficiency.

Possible combinations of cell type & cell distances and their respective performance and shading:



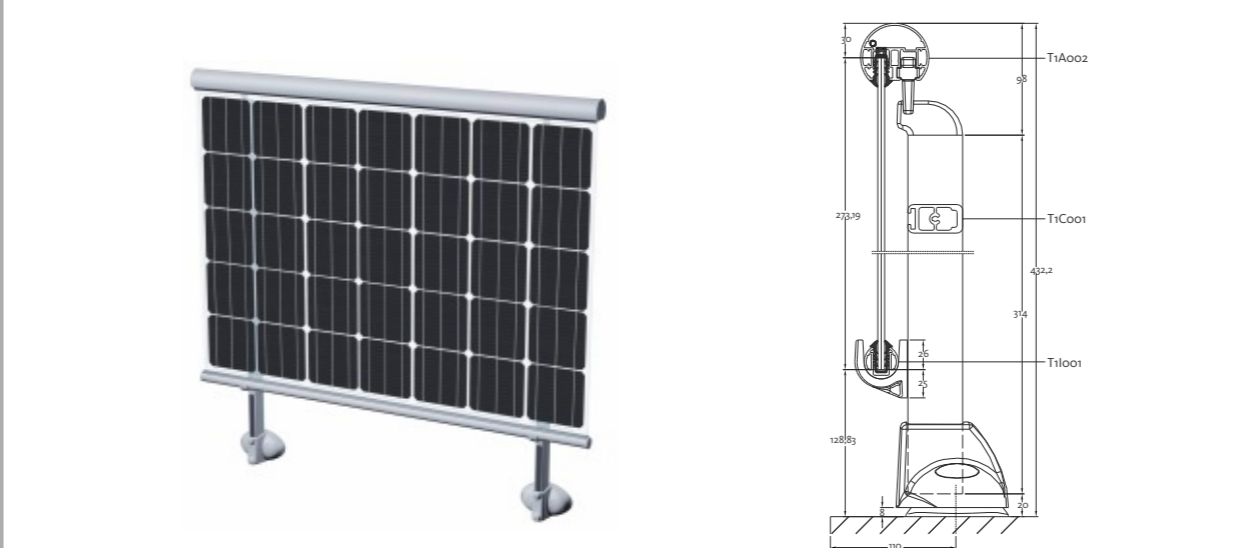
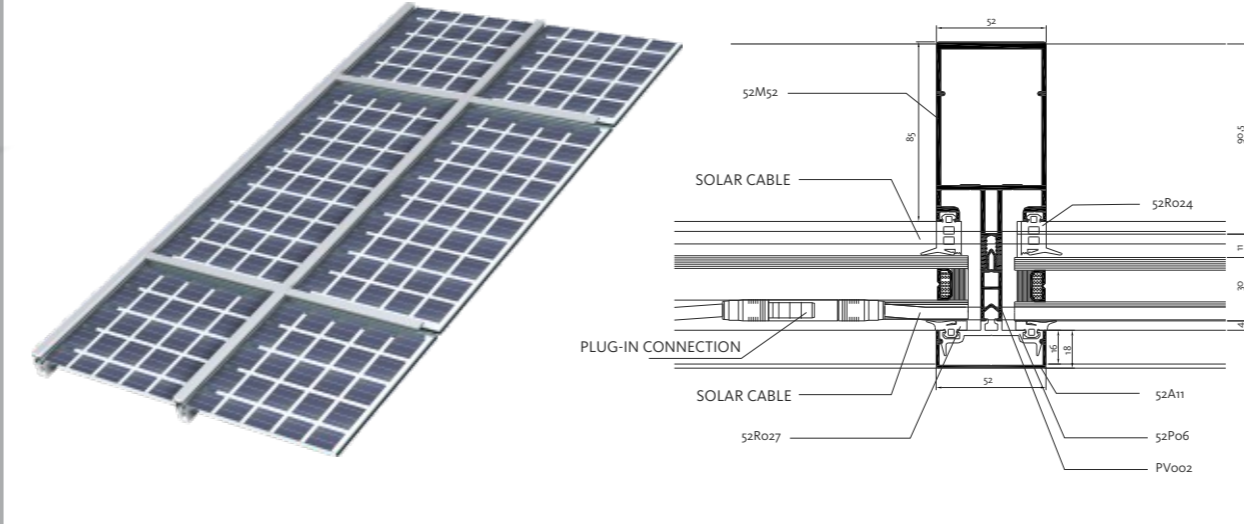
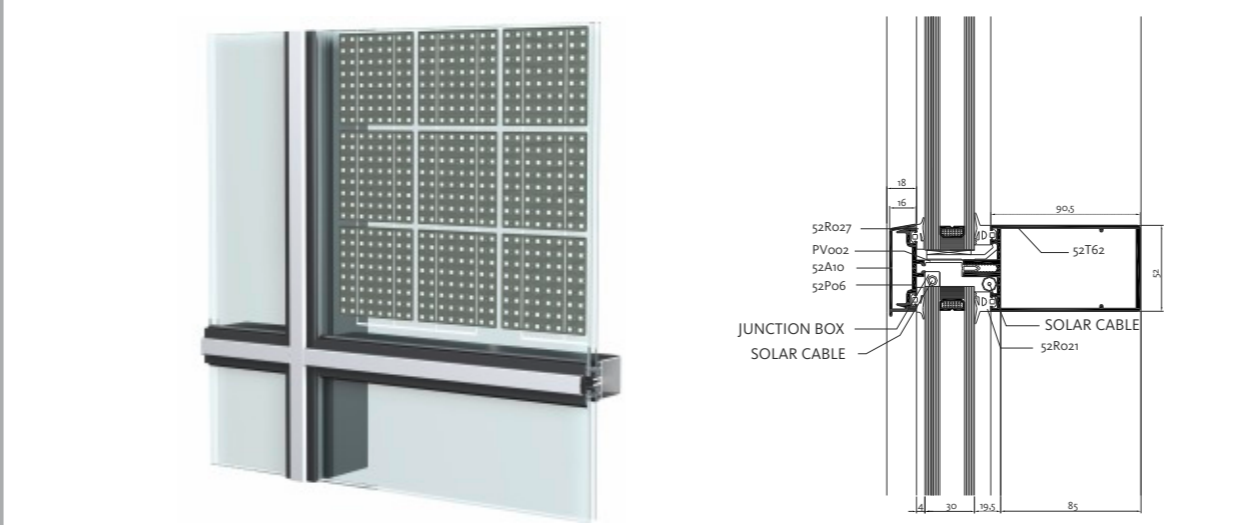
The electrical efficiency of the PV system can on one hand be affected or defined by cell type performance or on other hand, by cell distance (transparency, shading).

Representative samples of common installation requirements and their realisations:

Façade

Roof

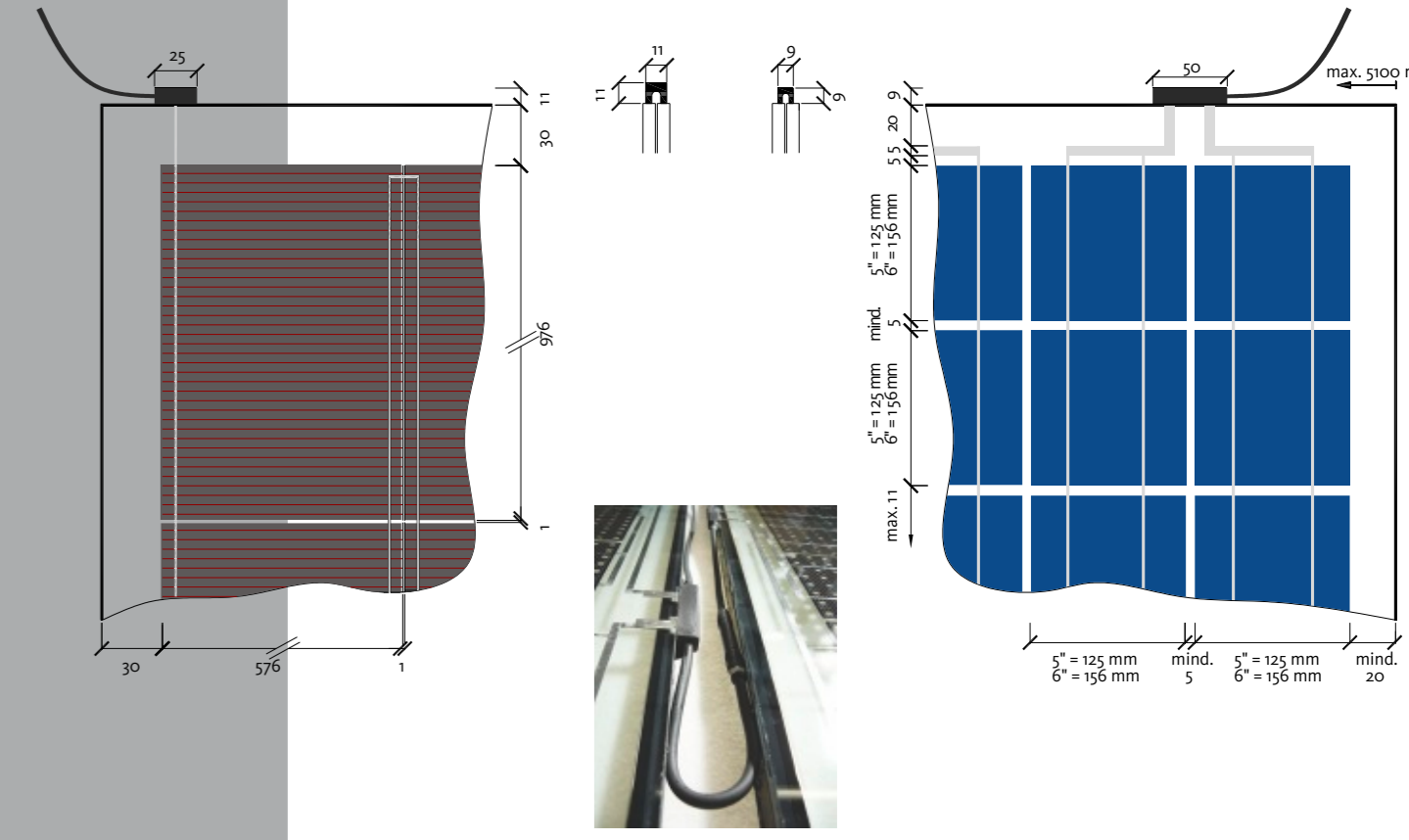
Balustrade



Design variations of photovoltaic modules – contact spacings and connecting options to be considered:

Thin film ASI®

Cristalline cells



>> Edge connector

>> Backside connector

