Budmat.
PV Systems

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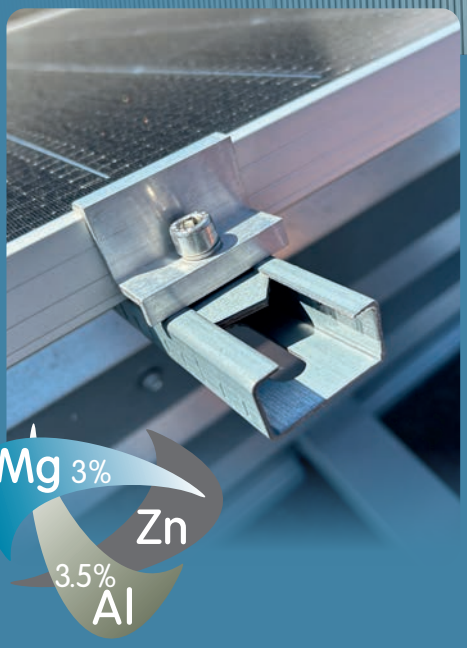

Magnelis® durable coating

Budmat roof structures are manufactured from the highest quality steel with a Magnelis® metallic coating – the best in terms of corrosion protection:

- excellent corrosion resistance: three times better than galvanised steel*
- self-healing effect provides excellent edge protection
- best and most cost-effective alternative to hot-dip galvanised steel
- does not cause electrochemical corrosion between elements of roofing made of galvanised sheet metal and galvanised sheet metal coated with an organic coating.

*based on exposure test results

PV Budmat roof structures for commercial and industrial facilities

Budmat photovoltaic roof structures are a system designed in cooperation between designers and contractors. The design assumptions were adopted based on applicable standards, ensuring quick installation that complies with module manufacturers' recommendations to meet the highest requirements of the C&I sector.

The system components provide:

- an innovative approach enabling the collection of loads on the structure of a given facility
- the option of an individual solution dedicated to the project
- flexibility in the layout of the structure's rows
- the possibility of preparing a ballast distribution report in the form of a design prepared by a Budmat designer
- high resistance class - up to C5
- technical documentation.

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Flat roof systems

	small (optional)	medium	large
Module size	X-1960x1134* mm	1960-2278x1134 mm	2278-2465x1134 mm
Module layout		horizontal	
Module orientation S	●	●	●
Module layout S		1x1; 1x2	
Wind brace for S structure	●	●	●
Module orientation E-W	●	●	●
Module layout E-W		2x1; 2x2	
Angle of inclination		10°, 15°, 20°	
Installation method		ballast, bonding, anchoring	
PV module installation system		aluminium clamp screwed to the rafter perpendicular to the longer side of the PV module	
Distance between module and roof		min. 100 mm	
Distance from the edge of the roof for buildings with a height of		* up to 10 m: min. 2 m * 10 m - 20 m: min. 10 m	
Building height		max 30 m	
Snow load		SK=1,2 kN/m²	
Wind load		Vb,o=24,00 m/s	
Roof pitch		up to 5°	
Average roof load for the system		* ballasted: 24 kg/m² * unballasted: 15 kg/m²	
Roof covering		foil, membrane, roofing felt, sheet metal, board	
Material		S350+ZM310, TZN, A2, Al	
Protective mats/cable trays /inverters mounting		optionally	
Warranty		10 years	
Requirements		the roof on which the installation is to be carried out must meet the load-bearing requirements, taking into account the additional load resulting from the structure used	

* custom projects

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