



# TRITON

## flat roof mounting system



- ▶ Quick, easy and therefore cost-efficient installation (high degree of pre-assembly)
- ▶ No cutting or drilling work necessary
- ▶ Wind tunnel-tested and optimized structure with a low surface load
- ▶ Excellent rear ventilation enables an increase in yields
- ▶ Optional: certified, lightning current carrying structure when integrated into a lightning protection concept



## System design

A high degree of pre-assembly guarantees safe, simple and largely tool-free installation, as well as very short installation times and costs.



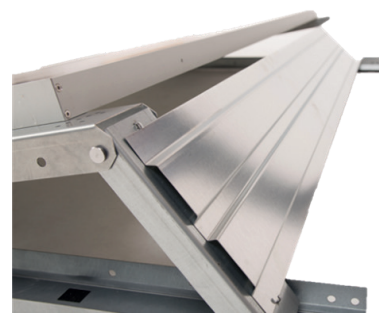
Elevation with protection mat with/without alu-triplexfoil



Connector sets with pin system



Module fixing: middle clamp-set + compensation profile  
Ballasting: ballast hub with stones



Rear wind deflector for southern

## Technical data

	TRITON eas/west 12°	TRITON south 12°	TRITON south 15°
Application	all flat roofs (foil-, bitumen-, gravel-, green-, or trapezoidal sheet roof) for $\geq 5^\circ$ with additional mechanical slippery down protection		
Attachment on the roof	ballasting without roof penetration		
Static	project-specific wind suction- and relocating-calculation according to a calculation tool based on investigations in the interface-wind tunnel created by the I.F.I.-institute in Aachen; load assumptions of Eurocode 1 DIN EN 1991-1)		
Variant	HZ (970 mm bis 1.060 mm module width); XL (ab 1.060 mm bis 1.150 mm module width)		
Length of the elevation	2.285 mm (HZ); 2.461 mm (XL)	1.373 mm (HZ); 1.473 mm (XL)	
Distance elevation & connector	2.357 mm (HZ); 2.533 mm (XL)	ab 1.397 mm (HZ); ab 1.497 mm (XL)	
Shading distance	–	arbitrary in a 24 mm grid	
Distance module-top roofing	approx. 102 mm		
Max. construction height	287 mm (HZ); 306 mm (XL)	287 mm (HZ); 306 mm (XL)	342 mm (HZ); 365 mm (XL)
Requirements for module fixing	(1.600 - 1.840) × (970 - 1.150) × (29 - 51) mm (special solutions possible) minimum setup: 2 × 2 OW-double modules; 2 × 3 / 3 × 2 south-modules module orientation: horizontal; module fastening: short side		
Weight without module/ballast	approx. 3,4 kg/m <sup>2</sup>	approx. 4,7 kg/m <sup>2</sup>	approx. 4,8 kg/m <sup>2</sup>
Standard load	up to 2,4 kN/m <sup>2</sup> ; optional up to 5,4 kN/m <sup>2</sup>		
Optional: lightning protection	Use according to DIN EN 62305-3 a natural part of the down conductor of a lightning protection system		
Materials	S280/350 GD + Z600; S280 MC galvanised according to ISO 1461; S280 GD galvanised and powder-coated; aluminium EN AW 6063 T66; stainless steel A2-70; protection mat: rubber granulate with/without alu-triplexfoil		

T.Werk GmbH

Greisbacherstraße 6 · 89331 Burgau · Tel. +49 8283 997 904-0 · Fax: +49 8283 997 904-299

info@t-werk.eu · www.t-werk.eu

