

TRITON flat roof mounting system

product data sheet



- + time-efficient simple assembly due to a high degree of pre-assembly
- + protective for roofing (no cutting and drilling)
- + aerodynamic optimization guarantees low ballast/ballast-free mounting system
- + excellent rear ventilation for achievement of high yields
- + optional: use as natural part of the down conductor of a lightning protection system

System design

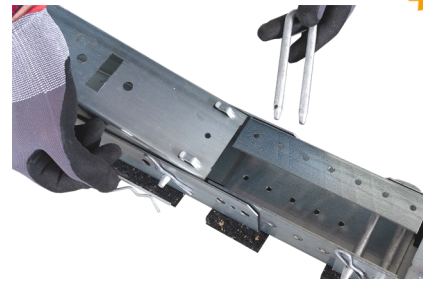
A very high degree of pre-assembly guarantees besides a safe, simple as well as largely tool-free mounting, a extremely low installation time and -cost.



elevation with protection mat with/without alu-triplexfoil



module fixing: middle clamp-set + compensation profile
ballasting: ballast hub with stones



connector sets with pin system



rear wind deflector for southern elevations

Technical data

	TRITON east/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 - 1.060 mm module width); XL (1.060 mm - 1.150 mm module width)		
length of the elevation	2.285 mm (HZ); 2.461 mm (XL)	1.373 mm (HZ); 1473 mm (XL)	
distance elevation+connector	2.357 mm (HZ); 2.533 mm (XL)	from 1.445 mm	
shading distance	-	arbitrary in a 24 mm grid	
distance module-top roofing	approx. 102 mm		
max. construction height	287mm (HZ); 306mm (XL)	287mm (HZ); 306mm (XL)	342mm (HZ); 365 mm (XL)
requirements for module fixing	(1.600 - 1.840) x (970 - 1.150) x (29 - 51) mm (special solutions possible) minimum setup: 2x2 OW-double modules; 2x3/3x2 south-modules module orientation: horizontal; module fastening: short side		
weight without module/ballast	approx. 3,4 kg/m ²	approx. 4,7 kg/m ²	approx. 4,8 kg/m ²
standard load	up to 2,4 kN/m ² ; optional up to 5,4 kN/m ²		
optional: lightning protection	use according to DIN EN 62305-3 as 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		