

TECHNICAL INFORMATION

UAV LANDING MAT (UAVLM)

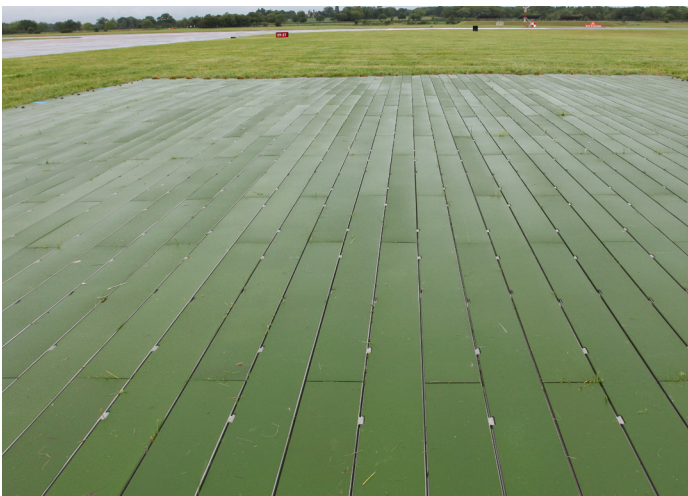


UAV LANDING MAT

CAPABILITIES

The FAUN Trackway UAV Landing Mats are designed to:

- ▶ Provide a temporary or semi-permanent landing and take-off area for UAVs, drones, RPAs and other airframes;
- ▶ Prevent Foreign Object Damage (FOD);
- ▶ Create clearly marked permissible landing areas;
- ▶ Create a safe working and loading area for ground personnel;
- ▶ Ensure ground/environmental protection;
- ▶ Facilitate multiple landings at the same location;
- ▶ Be easily deployed and recovered using minimal manpower;
- ▶ Are re-usable and recyclable, have a long working life and have a residual value at the end of the panels useful life.



FAUN Trackway supply a kit of aluminium panels which are assembled by hand in a brickwork fashion to create a runway of any length and width to meet our customers requirements. Installation accessories and anchorage devices are also provided in the kit.

The aluminium panels are palletised or containerised for ease of transportation.



UAV Landing Mat kits comprise of five elements:

- ▶ Trackway – aluminum panels are laid by hand and lock together to create the landing mat;
- ▶ Stillages – NATO pallets for storage and transport of the aluminium panels;
- ▶ Installation kit – equipment required for installing and removing the Trackway panels;
- ▶ Ground anchor stakes – to secure the Trackway to the ground;
- ▶ Membrane – a geotextile membrane that is placed underneath the Trackway panels to suppress dust, reduce brownout and protect the panels.

TRACKWAY OPTION 1: PSA FLAT TOP (PSA FT) PROFILE

PSA FT is a lightweight, aluminium panel that is both durable and versatile, withstanding take-off, landing and taxiing of unmanned airframes with tyre pressures up to 170psi. PSA FT panels are anodised for durability, protection from corrosion, camouflage and glare reduction. An optional non-slip/skid painted finish can be applied to the panels if required. It is available in a choice of colours.

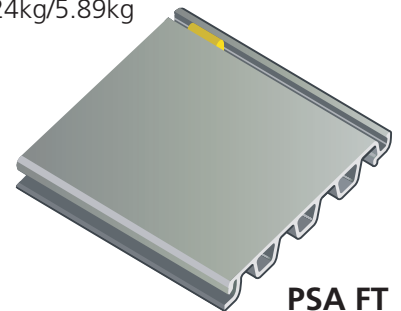
► Effective Width:	242.6mm
► Overall Width:	260.8mm
► Length:	2636mm as standard
► Height:	22.25mm
► Weight (paint):	12.49kg
► Weight (clean):	11.79kg
► Effective Area	0.6395m ²
► Area weight (paint):	19.53kg/m ²
► Area weight (clean):	18.44kg/m ²

Panel size:

► Full panel =	(W) 260.8mm x (H) 22.25mm x (L) 2636mm
► Half panel =	(W) 260.8mm x (H) 22.25mm x (L) 1316mm

Panel weight:

► Full panel (paint/clean) =	12.49kg/11.79kg
► Half panel (paint/clean) =	6.24kg/5.89kg



PSA FT

TRACKWAY OPTION 2: PSA FLAT TOP REINFORCED (PSA FT-R) PROFILE

PSA FT-R is a heavier weight, aluminium panel with reinforced end joints, withstanding take-off, landing and taxiing of unmanned airframes with tyre pressures up to 210psi, when laid on softer substrates. PSA FT-R panels are anodised and coated for durability, protection from corrosion, camouflage and glare reduction. An optional non-slip/skid painted finish can be applied to the panels if required. It is available in a choice of colours.

DIMENSIONS

► Overall Width:	242.6mm
► Overall Width:	260.8mm
► Length:	2634mm as standard
► Height:	22.25mm
► Weight (paint):	12.63kg
► Weight (clean):	11.93kg
► Effective Area	0.639m ²
► Area weight (paint):	19.76kg/m ²
► Area weight (clean):	18.67kg/m ²

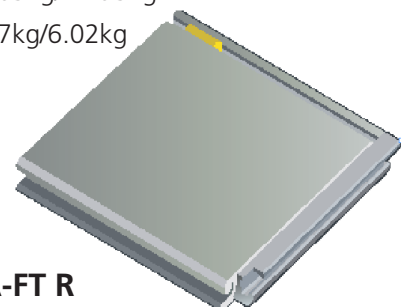
Panel size:

► Full panel =	(W) 260.8mm x (H) 22.25mm x (L) 2634mm
► Half panel =	(W) 260.8mm x (H) 22.25mm x (L) 1316mm\

Panel weight:

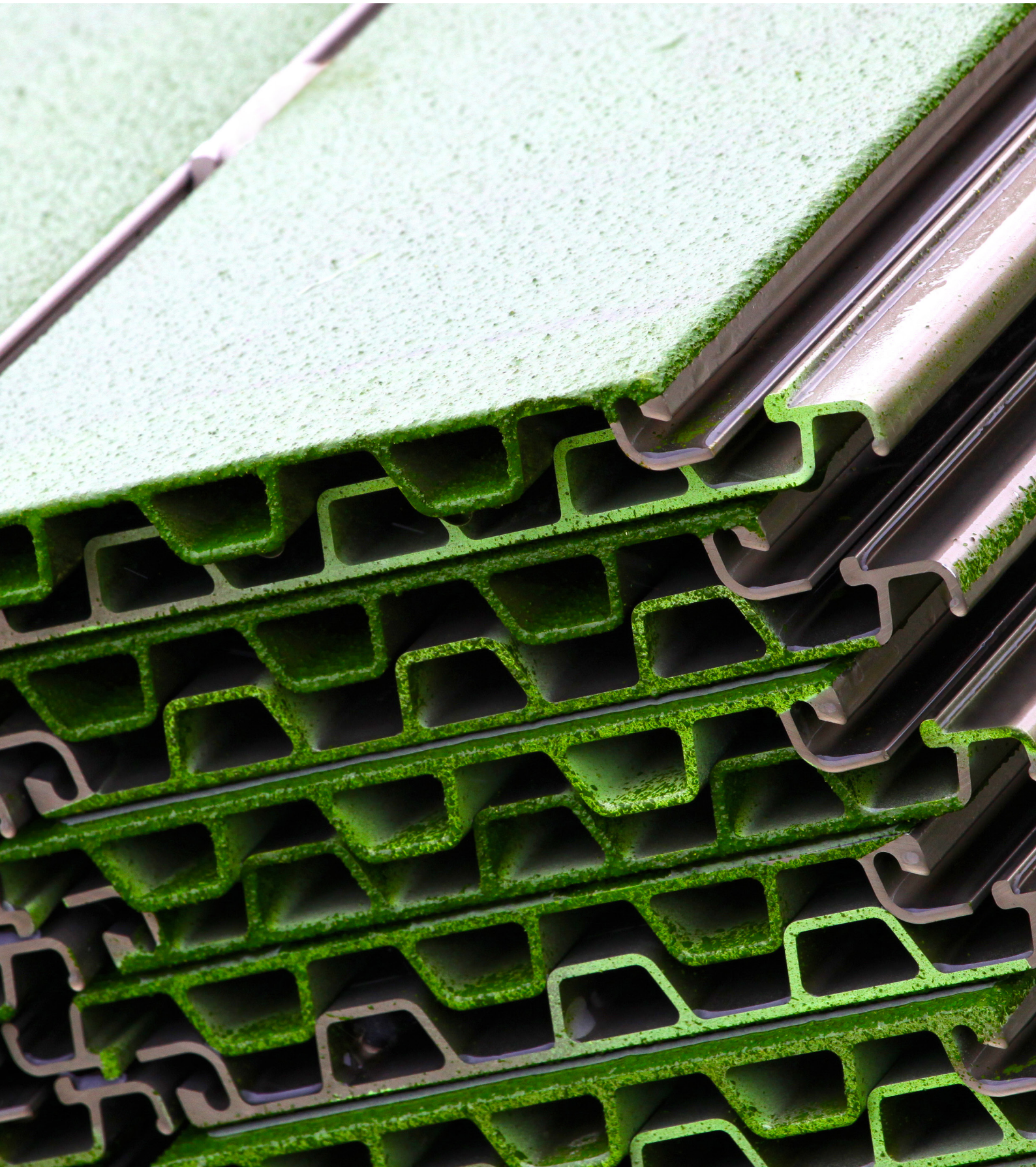
► Full panel (paint/clean) =	12.63kg/11.93kg
► Half panel (paint/clean) =	6.37kg/6.02kg

► Full panel with lock bar and paint:	6.54kg
► Area weight (with lockbar and paint):	20.48kg/m ²



PSA-FT R

Our PSA and PSA-FT R panel solutions for the UAV Landing Mat has been tested by the U.S Army ERDC (Engineering Research Development Center) in the US for Reaper and Predator loadings.



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