

ROADWAYS AND WALKWAYS

TUFFTRAK

TuffTrak is a temporary roadway system ideal for heavy duty vehicle access and pedestrians.

Made from Ultra High Molecular Weight Polyethylene 100 (UHMWPE 100), this versatile system is ideal for plant, machinery and multiple vehicles to gain access across soft, wet or damaged ground by creating a durable, stable surface. The system has been used by a variety of sectors including rail, transmission and industrial.

Once installed, the system protects against severe tracking and rutting, together with guarding against environmental damage.

TuffTrak can also be deployed as tough, durable working areas for mining and utilities industries, military sites, and also in the creation of access roads for multiple vehicles and cars at outdoor events.

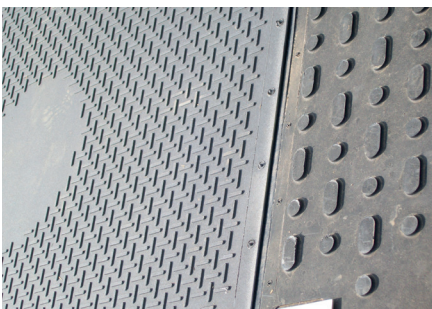
The reversible panels can be bolted together to create a heavy-duty traction surface or a pedestrian surface, ideal for where pedestrians and vehicles need safe passage.

TuffTrak panels are lighter to transport than similar panels of comparable performance, are chemically inert and can be deployed in most conditions. In addition, they do not conduct electricity; ideal for working on or near power lines.

TuffTrak can be deployed in areas of high theft risk and is the only roadway of its type to provide a raised traction surface to prevent trucks slipping and reduce sideways movement/slippage.

Benefits

- Ultimate heavy-duty roadway suitable for the heaviest vehicles
- Amazingly tough and flexible
- Two traction anti-slip surfaces - suitable for vehicles and pedestrians
- Low theft risk
- Conforms to ground avoiding damage to surface
- Chemically inert and can be cleaned thoroughly avoiding cross-contamination of arable and eco-sensitive areas
- Easy to install
- Environmentally friendly - made from recycled polyethylene
- 100% recyclable



ROADWAYS AND WALKWAYS TUFFTRAK (CONTINUED)

Generic Properties of TuffTrak Materials

Chemical Resistance	HDPE
Acids - concentrated	Good-Fair
Acids - dilute	Good
Alcohols	Good
Alkalis	Good
Aromatic hydrocarbons	Fair
Greases and oils	Good-Fair
Halogenated Hydrocarbons	Fair-Poor
Halogens	Fair-Poor
Ketones	Good-Fair

Electrical Properties	HDPE
Dielectric constant @ 1MHz	2.3 - 2.4
Dielectric strength (kV mm ⁻¹)	22
Dissipation factor @ 1MHz	1-10 x 10 ⁻⁴
Surface resistivity (Ohm/sq)	10 ¹³
Volume resistivity (Ohm-cm)	10 ¹⁵ - 10 ¹⁸

Physical Properties	HDPE
Density (g cm ⁻³)	0.95
Flammability	HB
Limiting oxygen index (%)	17
Radiation resistance	Fair
Refractive Index	1.54
Resistance to Ultra-violet	Poor
Water absorption - 24 hours (%)	<0.01

Thermal Properties	HDPE
Coefficient of thermal expansion	100 - 200
Heat-deflection temperature - 0.45MPa (C)	75
Heat-deflection temperature - 1.8MPa (C)	46
Specific heat (J K ⁻¹ kg ⁻¹)	1900
Thermal Conductivity @23C (W m ⁻¹ K ⁻¹)	0.45 - 0.52
Upper working temperature (C)	55 - 120

Key Information

UK designed / EU made

High pressure compression moulded in one piece

Quality batch control

3,000 x 2,500 x 38mm

Weight: 295kg

Materials: choice of (a) HDPE regenerated
(b) UHMWPE regenerated (c) HMWPE regenerated
(d) HMWPE virgin/ natural/ UV protection

Two traction surfaces – vehicular and pedestrian

Connection and lifting holes

Vehicular Traction Surface

Rugged raised surface profile for excellent traction for light to heavy (150 tonnes*) vehicles, plant and machinery
(*dependent on ground conditions during the installation phase)

Sand blasted finish for micro-traction

Low trip hazard

Pedestrian Traction Surface

Uniform raised surface profile pattern for pedestrian use

Good traction for pedestrian and / or vehicular use

Sand blasted finish for micro-traction

Low trip hazard

Connecting and Lifting

Standard M16 connecting bolts

Stainless steel threaded insert – bolt drops in/ assists one man operation

Connection; options for fixed and flexible connectors

Lifting hole for hook / suitable for clamp operations

Pedestrian surface design incorporates areas for positioning vacuum lifting pads