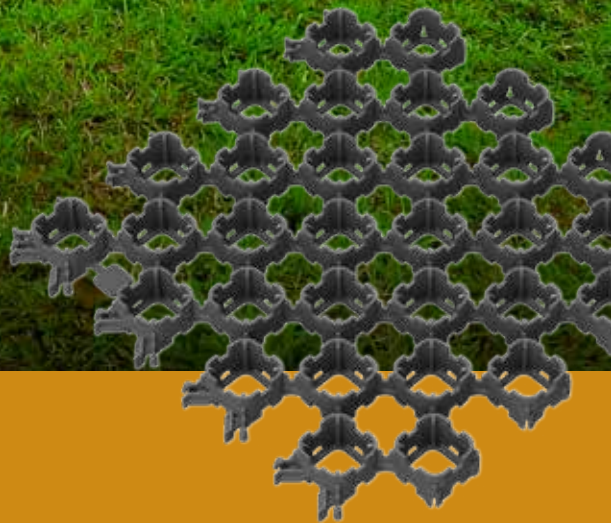


# TurfPave® XD

## Grass & Gravel Paver



**Creating Cities**  
**Where Urban Meets Nature**



### Our Innovation Your Solution

TurfPave® is an interlocking grass and gravel paver manufactured from recycled plastics. It is designed to stabilise and support grass or decorative gravel that is subject to pedestrian and occasional vehicular traffic.



# TurfPave® XD

TurfPave® XD is designed for use in the creation and stabilisation of grass and gravel access pathways for heavy emergency vehicles. It also serves as a stabiliser for mild slopes and functions as an erosion control measure.

## About TurfPave® XD

TurfPave® XD is a high strength plastic module designed to contain and stabilize grass or decorative gravel with the ability to withstand heavy loads imposed by emergency vehicles such as fire trucks. It replaces asphalt and concrete to create permeable surfaces that may be turfed or planted with ground cover and enable these areas to blend into the aesthetics of their surroundings.

Snap-on connectors allow individual TurfPave® XD modules to interlock with each other ensuring that they remain in place during and after installation.

TurfPave® XD consists of a network of sturdy porous cells which prevents soil compaction. It has top and bottom notches with a large open base that allow root and plant runners to spread freely for vigorous root development, promoting healthy plant growth.

Vertical webs at the corners of each individual cell minimise girdling of roots along the interior cell walls by directing them downward.

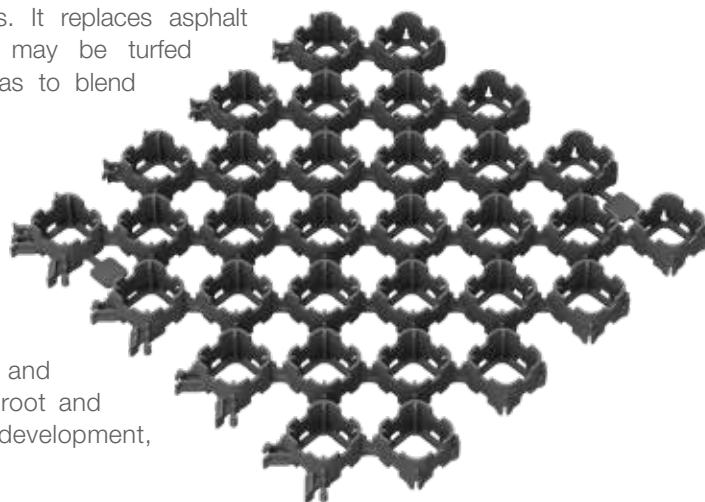
TurfPave® XD is made from 100% recycled materials and support Green Building Certification.

## Advantages

- Supports heavy vehicular load
- Reduces erosion and soil migration
- Conforms to uneven surfaces
- Does not hinder root and runner growth
- Easily installed and removed

## Applications

- Fire engine access lanes
- Residential driveways
- Golf buggy paths
- Pedestrian pathways
- Overflow & street shoulder parking areas
- Racetrack infield and pit areas



Before

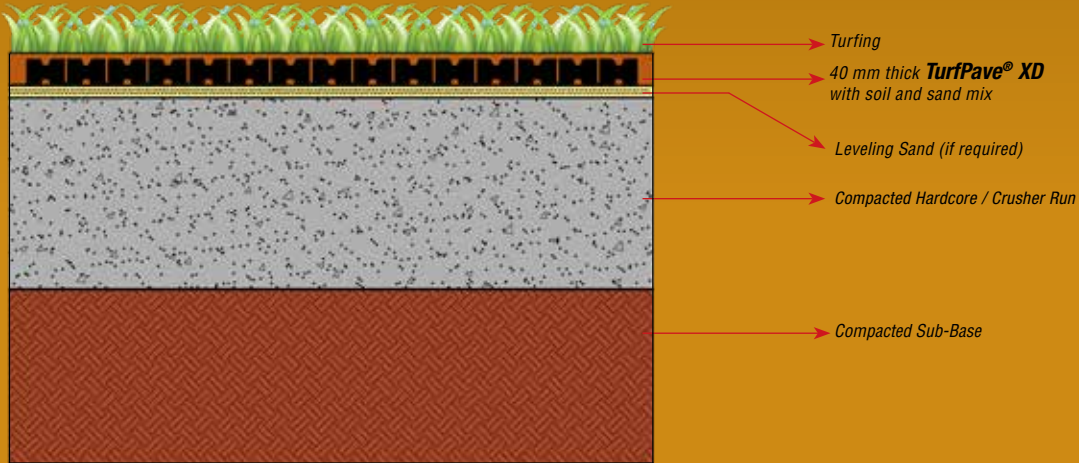


After





# TurfPave® Build-Up



## Permeable Surface for Stormwater Management

TurfPave® XD is suitable for use as a permeable surface in stormwater management systems as it allows rain water to percolate through the infill and infiltrate into the base course below. This process serves to filter pollutants from stormwater at source and prevents water logging.

TurfPave® XD reduces use of concrete or asphalt surfaces thereby helping to mitigate Urban Heat Island Effect (UHIE).

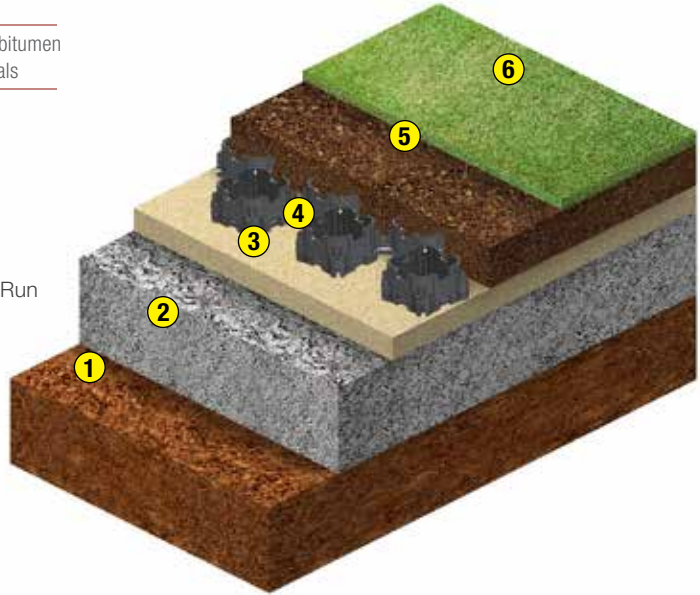
## Projects



# Technical Specifications

|                                    |  |
|------------------------------------|--|
| Material                           | PP   |
| Dimensions                         | 500 mm x 500 mm  |
| Height                             | 40 mm  |
| Cell Size (diagonal)               | 70 mm  |
| Weight                             | ~4.3 kg/m <sup>2</sup>   |
| Compressive Strength (unfilled)    | ~150 t/m <sup>2</sup>  |
| Compressive Strength (sand filled) | ~3000 t/m <sup>2</sup>   |
| Service Temperature                | -30°C to 80°C  |
| Biological Resistance              | Unaffected by moulds and algae   |
| Chemical Resistance                | Resistant to rot, oils, acids, alkalis, bitumen and naturally occurring soil chemicals |

- ① Sub-Base
- ② Hardcore/Crusher Run
- ③ Leveling Sand
- ④ TurfPave® XD
- ⑤ Topsoil
- ⑥ Grass/Turfing



TurfPave® XD has been tested\* in accordance with ASTM D695-08 to withstand compressive exceeding **3000 t/m<sup>2</sup>** (4267psi) and exceeds typical load requirements of vehicles, namely:

|                   |                                     |
|-------------------|-------------------------------------|
| Passenger vehicle | up to 28 t/m <sup>2</sup> (40 psi)  |
| Light goods van   | up to 42 t/m <sup>2</sup> (60 psi)  |
| Fire engine /     | up to 77 t/m <sup>2</sup> (110 psi) |
| Container truck   |                                     |
| SCDF CP 2002      | 80 t/m <sup>2</sup> (113 psi)       |

\* Singapore Test Services Pte Ltd



TurfPave® XD tests for the Hong Kong Housing Authority



The Elmich security hologram ensures authenticity of the products.

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