

CONCEPT MANUAL- HUMANITARIAN AND NGO MARKET PROTECTION FLOOR TILES

CBR VALUE

(CALIFORNIA BEARING RATIO)

Protection Floor tiles can be placed on terrain with very low CBR values.



IN CRISES ZONE

By bridging unstable terrain, the tiles ensure reliable and continuous access—helping life-saving aid reach those in need when it is most critical.



FOR REFUGEES CAMPS

Protection Floor Tiles provide a durable, modular foundation that lifts families off wet, frozen ground, creating safer and warmer conditions.



CREATE TEMPORARY ROADWAYS

Protecting Floor Tiles makes it easy to create a stable ground, even on weak surfaces like clay.



REPLACE CONCRETE IN THE FIELD

Portable, resilient, and field-ready flooring for warehouses and logistics centers in critical operations.



EASY ASSEMBLE

1 person can assemble approx. 80-100 m² per hour. No specialist handling required





CREATE TEMPORARY ROADWAYS

Cover a surface area of any shape or size

Protecting Floor Tiles makes it easy to create a stable ground, even on weak surfaces like clay. The special ribbed underside locks with the ground material, keeping the tiles steady. The only limitation is that the ground must not be sinking, such as swampy or moorland areas.

Installation is quick and requires little to no preparation. The tiles form an even surface over sand, gravel, mud, grass, asphalt, and more. Their design spreads weight evenly, making them reliable for heavy vehicles like trucks and forklifts. If there's a hole under the tile, it can either span across it or bend slightly under pressure, then spring back once the vehicle passes. For best results—especially on slopes—the surface should be closed in width to improve strength and stability.



IN CRISIS ZONES, EVERY MINUTE COUNTS

Protecting Floor Tiles makes it possible to establish secure access routes even on weak ground with very low CBR values, such as clay, mud, or sand. With rapid installation and minimal ground preparation, the system creates stable roads that enable ambulances, supply trucks, and emergency teams to reach refugee camps promptly.

By bridging unstable terrain, the tiles ensure reliable and continuous access—helping life-saving aid reach those in need when it is most critical.

**STRONG, FLEXIBLE, AND EASY TO INSTALL!
AN ALTERNATIVE TO CONCRETE –
DIRECTLY IN THE FIELD**

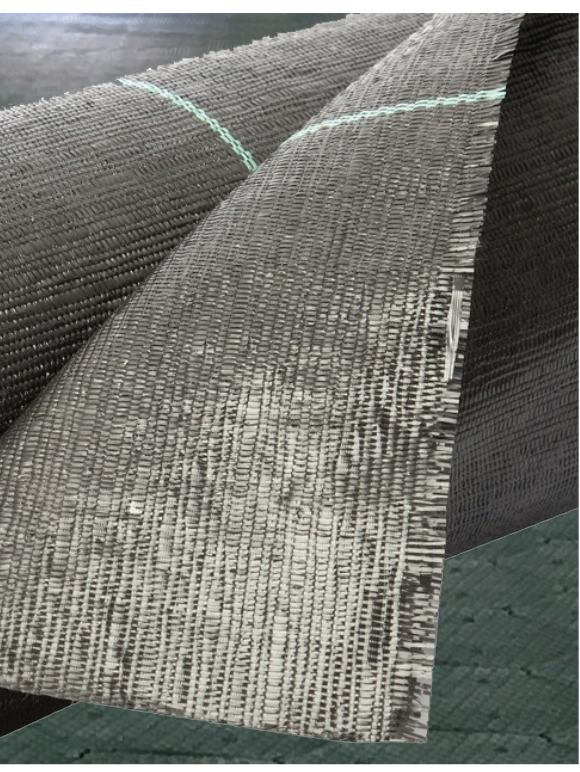
**DESIGNED FOR QUICK INSTALLATION WITH
MINIMAL GROUND PREPARATION.**

**PERFECT AS A BASE FOR STORAGE,
VEHICLE MAINTENANCE TENTS, MOBILE
ROADS, AND MORE.**

**USE GEOTEXTILE BENEATH THE
PROTECTIVE FLOORING TO SHIELD
AGAINST COLD AND MOISTURE.**



**ASSEMBLY TIME PER PERSON:
APPROXIMATELY 100 M²/HOUR**



WHEN YOU ASSEMBLE AND CONNECT THE TILES WITH THE “OVER AND UNDER” SYSTEM, YOU ACHIEVE EXCEPTIONAL STRENGTH, AS THE FLOOR PANELS SUPPORT EACH OTHER ON ALL SIX SIDES.

INSTALL THE TILES SYSTEM WITHOUT THE NEED FOR TOOLS. THE PLATES HAVE NO SHARP EDGES, MAKING ASSEMBLY BOTH SMOOTH AND SAFE.



THE SUSTAINABLE ALTERNATIVE TO CONCRETE

Protection Floor Tiles replace heavy concrete in humanitarian logistics and field operations. This unique, modular floor system is designed for flexibility, speed, and strength – ideal for mobile hospitals, emergency tents, and logistics centers. Each interlocking tile is made from durable, recyclable plastic, offering high stability on all types of ground – from sand and dirt to grass and soil. The system is quick to install, slip-resistant, UV-protected, and easy to clean, ensuring long-lasting performance even in harsh conditions.

Unlike concrete, Protection Floor Tiles are lightweight, reusable, and designed with sustainability in mind. By reducing raw material use, waste, emissions, and energy consumption, they support both sustainable development and the circular economy. With Protection Floor Tiles, you get the strength and stability of a solid floor – without the limitations of concrete.



PROTECTING FLOOR TILES FOR REFUGEES CAMPS

Millions of refugees and displaced people face harsh winters without proper shelter. Blankets and warm clothes help, but without a solid floor, cold and moisture penetrate living spaces. Protection Floor Tiles provide a durable, modular foundation that lifts families off wet, frozen ground, creating safer and warmer conditions.

With a unique surface design that improves heat circulation to the body, these tiles offer real protection against rain, snow, and winter cold – making them the most reliable flooring solution for humanitarian camps worldwide.



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