

MACTEX® C7

INTERLAYER REINFORCEMENT FOR ASPHALT PAVEMENTS

MacTex® C7 extends the design life of asphalt pavements by delaying the onset of failure mechanisms occurring, thereby reducing whole life costs.

MacTex® C7 has been developed for asphalt pavement reinforcement in highways, airports and industrial pavements. It provides reinforcement, stress relief and provides a moisture barrier between the overlay and existing pavement layers.



MacTex® C7 interlayer position

MacTex® C7 provides the following functions within bitumen-bound pavements in accordance with BS EN 15381:2008;

- Stress relief (STR)
- Interlayer Barrier (B)
- Reinforcement (R)

MacTex® C7 is successful in mitigating structural damage to the asphalt pavement which occurs as a result of:

- Reflective cracking
- Fatigue cracking
- Reduced layer thickness
- Haunching failure
- Rutting
- Differential settlement
- High axle loads
- Water ingress into the sub base



Benefits of **MacTex® C7**

- Maintenance cost reduction
- Extending road surface life vs conventional surfacing
- Prevents surface water ingress; limits freeze-thaw effects
- Environmental benefit of longer maintenance intervals
- Reduced hidden costs of road maintenance delays to users

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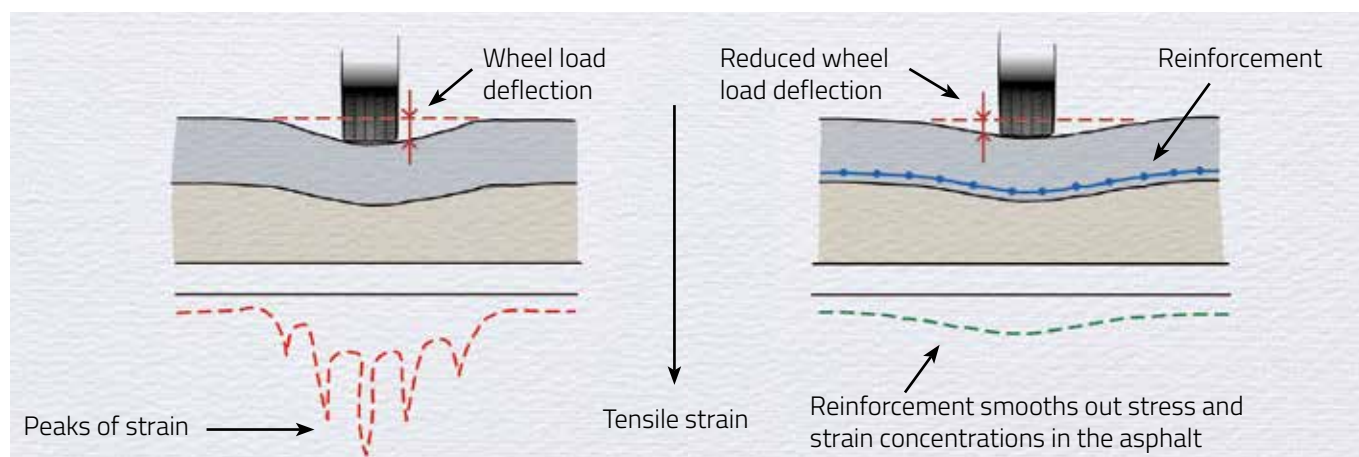
How the MacTex® C7 geocomposite works:

The **glass fibre knitted geogrid** offers high strength at low strain. It reinforces the upper bound pavement layer to inhibit crack propagation.

The **non-woven geotextile** enables the bitumen bond coat to be retained within the material, providing a barrier to future water ingress and limiting freeze-thaw degradation effects.

The geotextile is connected to the geogrid during manufacture to create a single composite, easing installation.

The **geocomposite** changes the horizontal stiffness between pavement layers by absorbing and reducing the stresses transferred between the upper and lower asphalt layers; known as a SAMI ('Stress Absorbing Membrane Interlayer').



Installation

Correct installation of any asphalt pavement interlayer is important to deliver the expected benefits. Maccaferri strongly recommends using a contractor member of the Road Surface Treatments Association (RSTA).

Maccaferri Ltd is a member of the RSTA.
Road Surface Treatments Association.



www.rsta-uk.org

	Ult. Tensile Strength MD	Ult. Tensile Strength XD
MacTex® C7 5S	55 kN/m	55 kN/m
MacTex® C7 10S	110 kN/m	110 kN/m
MacTex® C7 10.20	110 kN/m	220 kN/m

Maccaferri offers a range of asphalt pavement reinforcement products including woven steel meshes and glass-fibre geogrids so that a solution can be tailored to the specific road problems to be addressed.

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