



Steintec[®]
paving systems
by **tuffbau**[®]

In simple terms there are two types of paving system, Unbound and Bound. Both can be used to create either a permeable or non-permeable solution. Here we look at Unbound Paving.

IN an **Unbound** pavement, the loose material in which the paving stones are bedded, and which fills all the joints and voids between them, relies entirely on the shape, size and interaction of its individual particles, to bind, lock and provide natural strength. This is **THE** traditional paving solution developed and adopted by the road builders of ancient Rome.

Permeable Unbound:

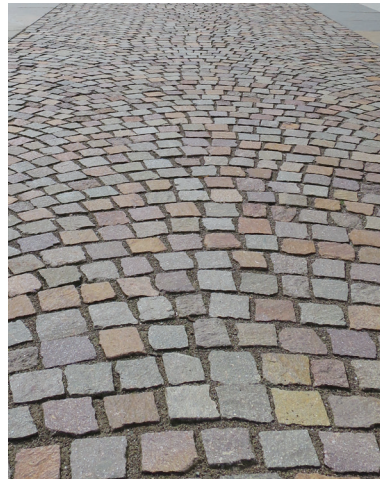
The characteristics of the bedding and jointing materials determine the permeability of the finished job.

tuffgrit aggregate blend has been specially developed for its permeability and, used for bedding and jointing in an unbound project, will allow the free passage of water from the paving surface, right through the laying course beneath.

Its unique composition also provides enormous strength and the more it is compacted, the stronger it becomes,

while the angular nature of its individual particles ensure it always retains its highly permeable structure.

The permeable system is **SuDS** compliant as part of a sustainable drainage system.



Non-permeable Unbound:

The difference between permeable and non-permeable unbound construction is that instead of the joints being topped up to the paving surface with the same permeable product as the laying course (**tuffgrit aggregate blend**), the top 10-20 mm of the joint is capped with **tuffsand** stabilised joint capping

material which provides protection to the structural bedding and jointing. This prevents excessive water ingress as well as providing durable resistance to wear and organic growth.

tuffsand is a natural, environmentally safe, non-cementitious product that sets into a hard, but flexible layer that is non permeable and resistant to the effects of mechanical surface cleaning routines. This application restricts the passage of water from the surface, making the project effectively non permeable.



To find out more about our products and projects visit our website www.steintec.co.uk
Our special mortar calculator will tell you exactly how much product you need and we can provide specialist machinery and technical assistance on site to make sure your project runs smoothly.

For technical enquiries or to find out about our CPDs for architects, specifiers and other construction professionals, call us now on **+44 (0)1708 860049**