



# Porous Paving, Heavy Traffic

## Specification Advice

### PURPOSE

To provide an attractive, low maintenance fully porous hard surface, with no loose stone.

### WHERE

This specification is for areas where both regular and occasional vehicular traffic is expected. Perfect for driveways, emergency vehicle access areas, city centres and courtyards.

### WHY

As part of Water Sensitive Urban Design (WSUD) porous paving can reduce surface run off, improve the health of surrounding trees and provide an environmentally beneficial paving for our urban landscapes.

25mm depth of 6mm StoneSet Porous Paving



#### Option 1

52mm Atlantis Gravel Cell back filled with 10mm Recycled Aggregate. Aggregate must be vibrated in place and topped up to fill all voids.



Geotextile membrane if using Atlantis Gravel Cell base above



Geotextile membrane to prevent upward migration of subgrade



Fine cast of sand applied to assist with slip resistance

#### Option 2

75-100mm No fines concrete. Must be installed min. 7 days prior to StoneSet.



Permanent edge restraint



150mm compacted DGB20\*. Installed in 3 layers of 50mm to ensure maximum compaction to 98%



Sub grade with capping layer if required.



# Notes – Porous Paving, Heavy Traffic

Movement joints should be allowed for every 10m and to reflect any on the surface below. Joints should also be used when overlaying different types and ages of surfaces. Cracks should be broken out if necessary and filled with a polymer/cement crack filling material.

Areas that may be trafficked by heavy vehicles should have structural layers designed according to Australian standards. The maximum deviation of the base should not exceed 10mm under a 3m straight edge. Flow rates through StoneSet can reach 103ltrs/m<sup>2</sup>/second. Base preparation may need to vary depending on the required porosity rates beneath the StoneSet layer.

The StoneSet layer can not be used to direct the flow of water.

StoneSet can withstand heavy vehicular traffic such as delivery trucks with prior consultation.

The thickness of the sub-base layer required is dependent on sub-grade soil conditions.

Total sub-base thickness will be dictated by expected loading and sub-grade strength. Particular attention should be given when clay rich soils are present.

If plastic or silty sub-grade is present, then a capping layer should be used in accordance with Australian standards. When possible, base preparation should be completed a few weeks in advance of the StoneSet to ensure all settling and compaction has occurred.

Expansion foam may be required along the edge if the area is enclosed between two concrete walls.

This specification is based on normal good practice for surfacing and does not absolve the specifier from designing a construction suitable for the expected traffic and ground conditions pertaining on a given site.

\*DGB20 Densely Graded Base Course material with a nominal size of 20mm.

**The details in this specification are intended only as a guide in specifying StoneSet products, actual designs should be developed by the project designers taking into account the specific circumstances of the intended application. StoneSet assumes no responsibility for improper reliance upon or misuse of the data herein. Product design and specification are subject to change without further notice.**

For project specific advice please call 1300 392 155 or email [mail@stoneset.com.au](mailto:mail@stoneset.com.au)

 1300 392 155

