

LAYING PROCEDURES

SCOPE

These notes are only intended to be referred to as a summary and may assist in the laying of Blok pave's segmental concrete pavers by providing short notes and practical information.

As the notes are not intended to be comprehensive laying instructions they should be used in conjunction with other instruction publications such as the Cement and Concrete Association of Australia's (CMAA) "Design guide for residential roadways" (T45) and "Detailing Guide" (T46).

For large format paving in commercial applications further guidance is provided in CMAA's publication "Flag Pavement- Design and Construction Guide" (MA44). Copies of these publications are available on our website brikmakers.com

SUBGRADE AND BASE PREPARATION

In preparing the site and subgrade, all organic matter and tree roots should be removed. Following the removal of the organic matter, inspect the site and replace all unsuitable material with approved basecourse material.

Compaction of the approved material shall be to 95% modified compaction. Refer to the Australian Standards (AS 1289)- Methods of Testing Soil for Engineering Purposes.

BEDDING SAND

In general, specifications state that the bedding sand should be from a single source or blended to achieve a particle size distribution of:

SIEVE SIZE	PERCENT PASSING
9.50mm	100
4.75mm	95-100
2.36mm	80-100
1.18mm	50-85
600 microns	25-60
300 microns	10-30
150 microns	5-15

Ensure that the bedding sand is salt free, this will discourage the formation of efflorescence on the pavers. It is essential that the sand layer depth is uniform over the entire construction area. In most cases the layer of bedding sand should be between 35mm and 50mm, however the compacted thickness should be no less than 30mm and the moisture content should be in the range of 4 to 8%.

LAYING OF PAVERS

Proper site preparation is critical to the process of laying the pavers. Before proceeding it is recommended that the points in "Subgrade and Base Preparation" are referred to. It is suggested that the joint width between the pavers is no less than 2mm. If the laying is too tight the pavers may spall under load.

SANDING AND COMPACTION

After laying an area of approximately 3m², spread jointing sand over the completed section. Following this, protect the pavers with a sheet of plywood or carpet and run a vibrating compactor over the area at least twice. A plate compactor with a base plate of at least 600 x 480mm is recommended.

White Silica sand is recommended as the joint filling material and should have the following gradings:

SIEVE SIZE	PERCENT PASSING
2.36mm	100
1.18mm	90-100
600 microns	60-90
300 microns	30-60
150 microns	15-30
75 microns	5-10

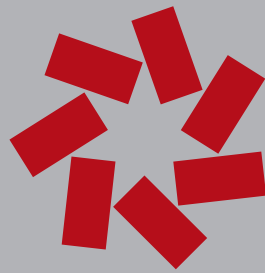
Do not use any cement in the joint filling sand and ensure that it is free of soluble sands and other foreign matter. Sands containing any clay particles can lead to staining on concrete masonry pavers and should be avoided.

Before traffic is permitted make sure that all sanding and compacting has been completed.

MACHINE LAID

To improve efficiency and speed of installation on commercial jobs, mechanical laying options are available. Please contact Brikmakers for a copy of our DVD or to discuss this option for your project.





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