

WSUD – Permeable Paving C120.09



DESIGN STATEMENT

Permeable paving can be used in public and private spaces to increase the amount of water that permeates into the underlying soil to decrease the volume of stormwater runoff.

Permeable paving can consist of:

- Structural paving consisting of a porous surface, such as open graded asphalt or in-situ pour resin, that allows water to pass through the paving into the subsurface layers or
- Masonry pavers consisting of modular interlocking pavers with gaps in between the pavers which allow water to infiltrate into the subsurface layer.

Where permeable paving is used above poorly draining soil, e.g., heavy clays (typical in the Merri-Bek municipality), an underdrain can be used to limit the proportion of runoff that soaks into the soil.

APPLICABLE LOCATION

Driveways, car parks, footpaths and other trafficable surfaces within Merri-Bek municipality.

TRAFFIC USE AND APPLICATION

It is important to consider the maximum weight loading on the paving (e.g. pedestrian versus vehicle) when selecting the most suitable permeable paving product and type.

Permeable Paving Type	Vehicular		Pedestrian	
	High use*	Low use	High use	Low use
Structural paving	☹☹	☹☹	☹☹	☹☹
Masonry pavers	☹	☹	☹☹	☹☹

<u>Key:</u>				
☹☹	Most suitable			
☹	Suitable			
☹	Not recommended			
* including turning circles				

CROSS REFERENCE SPECIFICATION

For further information on permeable paving refer to Melbourne Water's website or Instruction Sheet 1.

For more design considerations you can also refer to "Our Living City" Gold Coast Planning Scheme Policy 2 .

¹ <https://www.melbournewater.com.au/building-and-works/stormwater-management/options-treating-stormwater/porous-paving>

² https://www.goldcoast.qld.gov.au/gcplanningscheme_policies/attachments/policies/policy11/section_13_11_porous_and_permeable_paving.pdf

MAINTENANCE

Key design considerations for easily maintainable permeable paving include:

- Considerations for vehicle access
- Permeable paving generally requires pressure cleaning, often using vehicle towed or vehicle mounted pressure washers.

LEVELS

The surface area covered by permeable paving must be as flat as possible to ensure water infiltrates effectively.

CONSTRUCTION SUPERVISION

Construction hold points are dictated by ensuring the designed levels are achieved during construction.

The following elements of the works will constitute hold points for permeable paving:

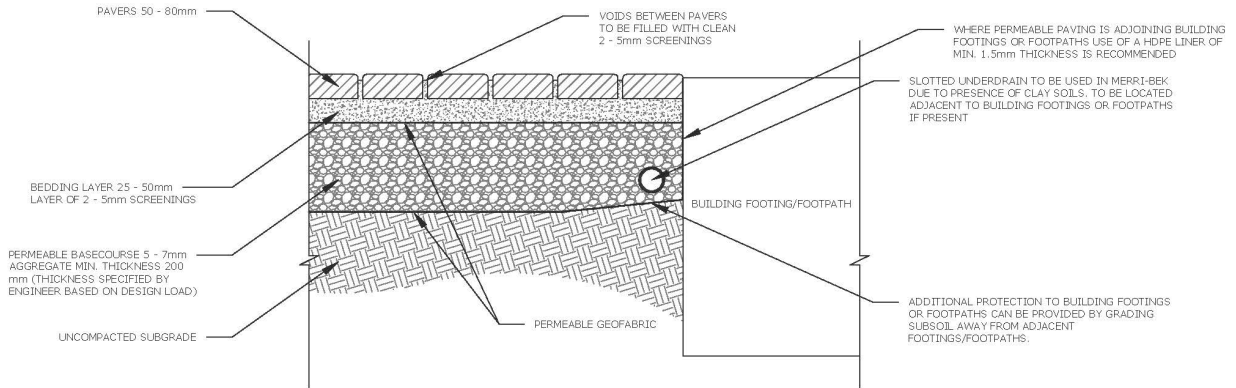
- At completion of excavation and bulk earthworks and after associated drainage connections have been constructed
- At practical completion of permeable paving works.

See cross sections for more detail.

C120.09 WSUD – Permeable Paving

C120.09 PERMEABLE INTERLOCKING PAVERS CROSS SECTION

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NOTE: THE STANDARD DETAILS SHOWN ON THIS DRAWING ARE TYPICAL ONLY. THESE DETAILS MAY NEED TO BE RECONFIGURED TO SUIT SITE SPECIFIC CONDITIONS.

C120.09 POROUS/PERMEABLE ASPHALT CROSS SECTION

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