Hydrapave™... a great Permeable Paving solution.

- No need to up-size culverts or water courses
- On-site natural treatment of pollutants
- Control of run-off to eliminate flooding
- Elimination of surface ponding
- Reduces potential for erosion and silt deposition
- No need for detention ponds
- Safe collection, detention and discharge with no dangerous open drains or pits
- Roof water can also be discharged into sub-base
- Can recharge ground water base flows
- Water from tanked systems available for non-potable secondary use
Hydrapave™ – Permeable Paving System

The System

Rather than collecting water run-off, channelling it through open drains and subsequently treating it, water engineers in many parts of the world are solving the problem at the source. This is a cost competitive and environmentally productive approach.

The patented Hydrapave™ system allows rain water to infiltrate through small channels formed on the ends and sides of the concrete pavers, passing into a prepared sub-base. The water is then detained, filter treated and dispersed, discharged or directed for re-use.

Additional Options

1. Typical re-use
2. Infiltration and overflow
3. Tanked with additional treatment

Typical Infiltration System

Hydrapave Pavers
5mm Aggregate
Filter Fabric to suit optional
6-20mm Aggregate Sub-base
20-75mm Aggregate Sub-base
Filter Fabric to suit optional
Sub-grade

Typical Tanked System

Hydrapave Pavers
5mm Aggregate
Filter Fabric to suit optional
6-20mm Aggregate Sub-base
20-75mm Aggregate Sub-base
Impermeable Membrane to suit Sub-base
Geogrid reinforcement (for site typically exceeding 1:20 slope)
The System Components

1 Hydrapave™
Concrete paver with a unique edge chamfer and bevel which permits butt joining. Joints should be dressed with 3mm dia. uniform clean. Clean aggregate should be applied during compaction. Sand must not be used as it slows water ingrets.

2 Bedding Course
50mm compacted thickness of 5mm single size crushed aggregate. Sand should not be used.

3 Filter Fabric (Optional)
Permeable geotextile, standard or heavy grade depending on pavement design, used to control migration of hydrocarbons and flues into drainage layer.

4 Sub-base
Typically 350mm thickness of single size 40mm crushed aggregate, gap graded, and yielding 30-40% voids. Thickness may be varied depending on pavement design.

5 Perimeter Membrane
Either impermeable plastic membrane for tanked systems, or permeable Geotextile for infiltration systems.

On-site Water Treatment
The Hydrapave™ system provides effective on-site water treatment in the following ways:
- Organic matter and loam are caught on the geotextile and held in the layer of 5mm aggregate.
- Oils and heavy metals coat the surface of the organic matter and loam.
- Natural microbial filament growth in the sub-base digests low level hydrocarbon pollution.
- Severe hydrocarbon contamination can be treated by seeding with specialist microbes and slow release fertilisers.

Long Service Life & Low Maintenance
- Regular sweeping of the Hydrapave™ surface is recommended to remove leaves and debris which may inhibit the water absorption capacity.
- Occasional light power cleaning may be used to remove unsightly surface contaminants.
- Under normal conditions and appropriate light maintenance cycles as detailed above, a working life of 10 or more years can be expected. After this time, the pavers can be lifted and cleaned, the bedding materials and filter fabrics replaced, and the pavers re-laid to continue providing excellent service into the future.
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2. Colour and texture variation: The supply of raw materials can vary over time. In addition, variation can occur between product types and production batches.

3. We reserve the right to change the details in this publication without notice.

4. For a full set of Terms and Conditions of Sale please contact your nearest Boral Clay & Concrete sales office.

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