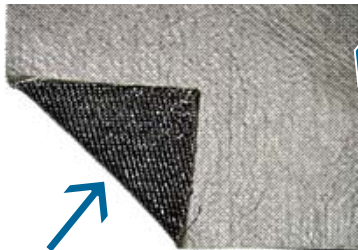


Data Sheet

Waterproofing Landscaping solutions from Rawell



non-woven polypropylene geotextile



woven polypropylene geotextile

RAWMAT® HDB Type P1 Lagoons (1m x 5m)

A factory prehydrated sodium bentonite membrane for the lining of small ponds and lagoons where the use of heavy machinery is impractical.

INSTALLATION

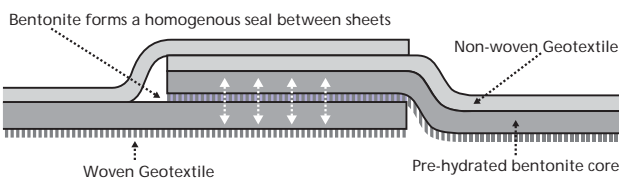
All projects must be assessed on an individual basis as installation details may differ. For project specific recommendations contact the Technical Sales Department at Rawell. Installation may continue during light rainfall providing the backfilling process continues until all of the RAWMAT® HDB Type P1 is covered with the correct depth of protective layer.

The surface onto which the RAWMAT® HDB Type P1 is to be laid shall be thoroughly compacted to provide a firm smooth surface free from all debris, roots, sharp objects and stones larger than 32mm.

The RAWMAT® HDB Type P1 shall be laid with the woven geotextile in contact with the prepared substrate and the non-woven geotextile uppermost.



RAWMAT® HDB - Type P



Sealed laps shall be achieved by locally peeling back the non-woven geotextile on the ground facing membrane, installing the adjacent sheet, overlapped to a minimum of 150mm, and reinstating the non-woven geotextiles over the entire joint. **Under no circumstances shall the non-woven geotextile form part of the overlap seal** (see detail). There must be no transverse joints on slopes. If necessary please contact Rawell's Technical Sales Department.

The RAWMAT® HDB Type P1 is to be placed in an anchor trench at the top of any slopes and laid parallel to the direction of that slope. There must be no transverse joints on slopes. Anchor Trench backfill must be well compacted to minimize water intrusion and to prevent the RAWMAT® HDB Type P1 being pulled out of the anchor trench. This must take place before any backfilling is started on the main body of RAWMAT® HDB Type P1. If necessary, please contact Rawell's Technical Department.

At no time during or subsequent to installation of the RAWMAT® HDB Type P1 or placing of protective layer will plant or equipment be permitted to travel on the RAWMAT HDB Type P1 or protective layer.



In the event of damage occurring to the RAWMAT® HDB Type P1 the damaged area shall be cleaned and overlain by a patch of RAWMAT® HDB Type P1 at least 150mm larger in all directions than the damaged area. The patch should have the non-woven geotextiles removed and be laid with the black side uppermost. If the damage is on a slope, the patch piece must be secured in the anchor trench.

Before the end of the working day all RAWMAT® HDB Type P1 that has been laid **MUST** be covered with the required protection backfilled. The leading edge of the RAWMAT® HDB Type P1 is to be wrapped in polythene and secured to prevent displacement by wind.

When placing backfill care must be taken to ensure that the overlaps are not disturbed or displaced. The protection should be placed in the direction of the overlaps and not against the flow of the joints.

For details of Rawell products and services visit www.rawell.com where you can find more information suited to your specific needs, or call +44 (0) 151 632 5771

ADVANTAGES OF RAWMAT HDB

- ✓ Can be laid directly onto compacted earth - no extra geotextiles
- ✓ Simple to install no need for specialist labour
- ✓ Forms self sealing laps – no need for additional bentonite or taping joints
- ✓ "Active" system - bentonite self heals minor root penetrations
- ✓ Tough geotextile carriers
- ✓ Natural clay base – indefinite life
- ✓ Resistant to chemical attack but non toxic using no solvents or VOC's
- ✓ Produces natural aesthetically pleasing water feature
- ✓ Non toxic inert clay - safe for fish and pond wildlife
- ✓ Small rolls are simple to handle
- ✓ No welding of laps - simple self sealing overlap
- ✓ Both hard and soft edge details simple to construct

DESPATCH QUANTITIES

1 Roll = 1m x 5m = 5m² - Average Weight = 44 kg
 Approximate Roll Dimensions = 210mm Diameter x 1,005mm Width
 1 Pallet Box = 25 Rolls = 125m² - Average Weight = 1,150kg
 Pallet Dimensions = 1,140mm x 1,140mm x 1,180mm

19 Pallet Boxes (2,375m²) capacity per 40 ft Road Trailer/Container
 18 Pallet Boxes (2,250m²) capacity per 20 ft Container

*Weight restrictions vary from country to country due to legislation.
 Please obtain confirmation from Rawell on territorial transport legislation.

HANDLING & STORAGE

RAWMAT® HDB Type P1 is rolled on 50mm cores. Each roll is sealed in airtight stretch film. The rolls are packaged on end into boxes, each box containing 25 rolls. The boxes are sealed with polythene box covers to weatherproof the box. Each box has a unique batch identification code.

The RAWMAT® HDB Type P1 shall be stored and handled strictly in accordance with the manufacturers instructions, given below. Palletised boxes may be stacked two high in their unopened state. The storage area shall be dry and stable. Any RAWMAT® HDB Type P1 damaged during the delivery, storage or handling shall not be incorporated in the works.

Once opened the rolls must be stored under cover or protected with weatherproof sheets to prevent rain damage and drying out. Any part used roll can be re-wrapped and can be re-used if it has been protected in plastic to prevent moisture loss or saturation from rainfall.

All information contained within this document is given in good faith and is correct to the best of Rawell Environmental Ltd.'s knowledge. This information is not legally binding and may be changed at any time without notice.

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Type P1 Landscaping

