GEOHEX™

CASE STUDY

RESIDENTIAL - COURTYARD

CLIENT: Home owner | LOCATION: Perth, WA

THE BRIEF:

The client, a residential property owner in Perth, lives 200 metres from the ocean, meaning the block consisted of shifting beach sand. The home owner sought a cost-effective, porous solution for stabilising the property's courtyard, which measured 20 square metres. The client had previously installed pavers down the sides of the property, but was unhappy with this ground stabilisation solution due to persistent ant intrusion and weeds.

DESIGN REQUIREMENTS:

The client required a surface stabilisation solution that offered superb drainage due to the fact that the house covered most of the very flat block of land. Adding more pavers – or any other non-porous product – would have led to issues with water drainage.

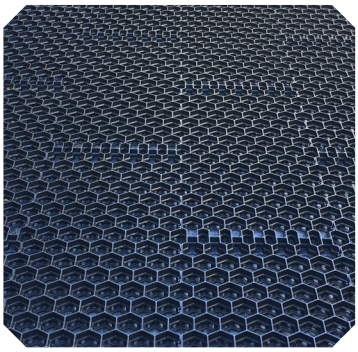
Adequate drainage and ground stabilisation was an essential design requirement for this job because the courtyard featured a small shed that was used to wash and dry water sports equipment such as wetsuits. There was also a requirement for the chosen material to be easy to cut into shapes that would fit around posts in the courtyard.

THE SOLUTION:

A Plus Plastic's Geohex erosion control system was deemed to be the best solution for the problem. The client chose to install the Geohex solution himself – a common option for Geohex customers who enjoy DIY projects around the home.

In this particular job, the client laid 25mm of paving sand across his courtyard as a base layer, which he then compacted before covering it with a Geofabric membrane mat. The Geohex Erosion Control System was laid across the courtyard and then filled with crushed white quartz. Prior to laying the Geohex across the courtyard, the client used electric saws (circular saw for straight edges; reciprocating saw for curved edges) as needed to cut the Geohex section to fit around poles installed for the shed.

All up, prepping the site and installing the Geohex system across the 20 square metre courtyard took the client just under six hours, working alone. The client estimates, based on research, that this was less than half the time it would have taken to install pavers in the courtyard – while costing less than half the price. On top of these benefits, Geohex is not vulnerable to ant intrusion due to the porous sand and in-fill materials not being attractive for ant nesting.



WHY GEOHEX:

Designed and manufactured in Australia to ISO9001:2014 standards and made from high impact resistant 100% recycled and recyclable co-polymer polypropylene, the Geohex permeable paving system is the ideal solution for residential courtyards where a porous solution is required. Geohex offers an aesthetically pleasing, decorative natural finish, offers superb drainage, and by design offers structure and stability when completely filled in with the client's chosen fill material (no more than 15mm Aggregate).

THE RESULT:

By choosing A Plus Plastic's Geohex erosion control system, the client was able to realise a courtyard solution that cost-effectively met all the design aspects required. And choosing Geohex, the only Australian-based and Australian-manufactured product of its kind on the market, enabled the client to install the solution himself, further reducing the costs involved.

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