

CASE STUDY

Client: U.S. Green Building Council
Ultimate Home Design Magazine

Location: The Optimum Performance Home®
Sea Ranch, California

Product(s): BodPave 85 (Black)

Application: Driveway, Parking Area and Walkways (2,500 SF)

ISSUE

The Optimum Performance Home® (Sea Ranch) is the U.S. Green Building Council's LEED® For Homes Platinum National Showcase home. Using the LEED® for Homes rating system as a template, the Optimum Performance Home® is positioned to serve as an exemplary prototype to encourage architects, designers, builders, and developers to adopt similar design principles.

The green building method used in the home needed to ensure environmental consideration at every phase of the building process. The home features extensive green building techniques, including water efficiency through grey water recycling and rainwater harvesting. To aid on-site water usage, a porous surface solution was required for the driveways, guest parking areas and pathways. The solution needed to be environmentally sound, aesthetically pleasing, suitable for use on slopes and offer a long service life in the Californian climate.

SOLUTION

BodPave®85 was specified as the ideal ecological porous paving solution, due to unique design features and success on other globally recognized installations. The high load bearing capacity (367tons/yd²), UV stability (for areas of strong sunlight), green credentials (made from 100% recycled material) and special 'clip-lock' design for ease of use, maximum structural integrity and water permeability, made BodPave™85 the product of choice.

BodPave®85 was delivered directly to the construction site and installed by the on-site Sea Ranch team. The pavers were installed on a previously prepared free-draining base, then filled with an aggregate which complimented the building aesthetics. The 2,500 square feet of BodPave®85 was installed in about one week and immediately used by service vehicles requiring site access to complete other projects on the site.

BENEFITS

BodPave®85 has offered The Optimum Performance Home® a long-lasting, durable and permeable outdoor surface solution, with excellent water source control. The cellular retention chambers prevent the spreading and compaction of gravel around the site, particularly on slopes. The controlled drainage of water run-off reduces any land erosion, manages onsite storm-water and offers several LEED points (see our LEED Brochure).

