

CASE STUDY: Horizon Village Grassy Pavers



LOCATION: 3098 University Rd,
Grants Pass, Oregon
PROJECT TYPE: Pervious Pavement
PROPERTY TYPE: Residential
CONSTRUCTION DATE: 2006
INSTALLER: Classic Construction

Summary

Reducing runoff can be achieved in many ways. This innovative community used recycled polyethylene interlocking panels that are planted with grass to give the parking areas a softer look and allow rainwater to return to the aquifer.

Project Background

Horizon Village is an innovative retirement community located near Rogue Community College in Grants Pass. The community boasts 39 lots, characterized by duplexes and single family homes based around a “green-theme.” When Horizon Village needed to construct an access drive, they had a choice between traditional or pervious pavement. To help reduce runoff and to relieve the harsh, “paved look,” the conscientious community decided to use StabiliGrid pervious pavers, a product that owner Dan Barklind had seen featured at a home building show.

Soil Type & Infiltration

No infiltration testing was required by the City of Grants Pass at the time of installation.

Specifications

StabiliGrid is a product made of 100% recycled PE formed in a honey-comb shape of interlocking panels that can hold up to 35.842 tons per square foot when properly installed. StabiliGrid can

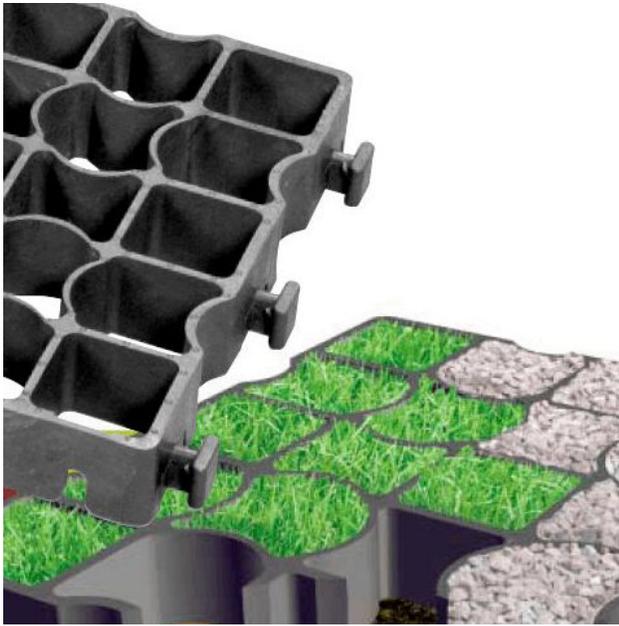


Horizon Village StabiliGrid drive and parking

withstand a large range of temperature extremes and is UV resistant, with superior flexibility and durability. It is easily installed over a 3-inch base of crushed rock and then the grid-like panels are filled with 5 centimeters of topsoil and finally seeded with grass. Horizon Village has implemented 3 different grass-seed mixtures in separate areas of the driveway to determine which is most desirable. The results are still being tested. The access drive is approximately 30 feet wide and 150 feet long and gives community members access to their private driveways. Automobile use is frequent, with accommodation for public services access, such as waste disposal trucks.

Benefits

The use of StabiliGrid in place of concrete provides a softer, more inviting look and feel for Horizon Village Retirement Community. The grassy pavers provide an outstanding, durable, and strong surface while maintaining natural drainage schemes and



Stabiligridd panels showing grass and rock fillers

groundwater recharge.

Costs

StabiliGrid initially costs more than traditional concrete, at nearly \$4 per square foot. However, installation is much quicker and easier than pouring concrete, and StabiliGrid can be expected to outlast concrete in lifespan.

Contact Information

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References / Resources

www.stabiligridd.com

www.horizonvillage.com

Picture provided by OEC, diagram from www.stabiligridd.com.

Horizon Village is not exempted from any City fees for their use of pervious pavers.

Maintenance

StabiliGrid is maintained like any other lawn surface. It is mowed by Horizon Village employees when necessary, but the constant traffic tends to keep the grass fairly short. No chemicals or fertilizers are used for maintenance.

Effectiveness & Monitoring

The 4500 square feet of StabiliGrid is located on a slight hillside and no runoff has been observed.

Successes & Lessons Learned

StabiliGrid has gained popularity since its installation at Horizon Village and has recently introduced more aesthetically appealing designs. The project does not currently offer any signage or educational opportunities to the residents of Horizon Village or to the public, but owner Dan Barklind sees signage as a positive move to further low-impact development practices.