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SYSTEM



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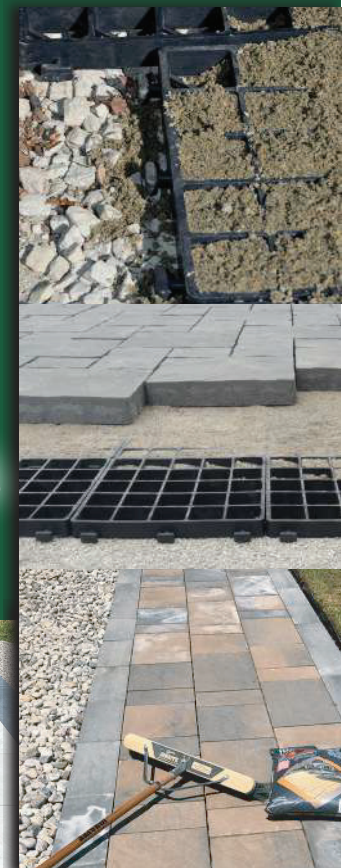
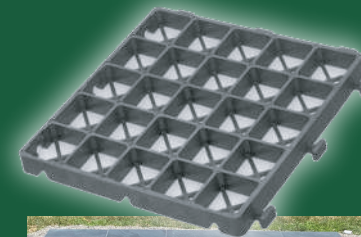
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Silca® SoilGrid GUIDE

The Silca® SoilGrid is a heavy duty interlocking grid system that allows you to build stronger hardscapes by stabilizing the base material.

**REDUCE
CALLBACKS
AND
SAVE TIME
ON YOUR
HARDSCAPES**



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SILCA® SOILGRID BENEFITS

- Up to 50% base reduction in excavation
- Wider pin-point load dispersal
- Reduced warranty call-backs from shifting & sinking
- Reduced settling issues
- Easily installed interlocking system
- Each grid is 13" x 13" x 1" thick (1.17 sq ft)
- Installation without heavy construction equipment
- Permeable ground reinforcement
- Comes in pre-connected sheets 52" x 39" for fast installation. The elements are delivered in "layers". One layer is 14.32 sq ft. A layer consists of 12 single SoilGrids, 4 grid by 3 grid. 420 pieces per pallet (491.4 sq.ft.)
- Easily cut to size and adaptable using any standard saw tool (i.e. jigsaw, sawzall, portable circular saw, cutting disc, etc.)



BASE PREPARATION

Silca® SoilGrid can be installed quickly and easily without heavy construction equipment.

- Excavate base to ½ of ICPI or local building code recommendations, this will vary depending on your soil conditions.
- Compact the native soil.
- Install a permeable geotextile fabric on top of native soil.
- Install aggregate base in 2" lifts (recommended #8 or #57 as base) and compact.

INSTALLING THE PRE-ASSEMBLED LAYERS OF SILCA SOILGRID



- Once aggregate is compacted to desired height, Install Silca® SoilGrid. The Silca® SoilGrid measures 13"x13"x1.2" but comes pre-assembled in sheets of 12, measuring 39"x52". Start installation at a corner of the area. Make sure the interlocking tabs point outward toward the direction of the further area to be installed. The next layers are simply connected to the tabs of the already installed Silca® SoilGrid elements. To achieve a straight result, we recommend using a guideline along the outside of the area.
- Once level, fill the SoilGrid with #8 aggregate (or other small aggregate) and compact. Tip: a leaf blower used at a low angle can help remove loose aggregate from on top of the SoilGrid."
- Check the level of the SoilGrid by running a 4' level or a straight edge over the SoilGrid.
- Adjust any low spots by lifting with pliers and adding more fill.
- For high spots, aggregate will need to be removed from underneath the SoilGrid.
- If installing concrete pavers or natural stone an additional layer of geotextile can be added on top of the SoilGrid to prevent migration of polymeric sand into the base.

INSTALL PAVERS

- Lay pavers, install spacers, and install polymeric sand or permeable joint filler in paver joints.
 - If using porcelain pavers, use adhesive to secure them to the SoilGrid to prevent movement of pavers.
- Congratulations on completing your Silca® SoilGrid hardscape installation!

TECHNICAL SPECIFICATIONS

Carrying load	Exceeds H20 and HL93 (fill/base dependent)
Dimensions	13"x13"x1.2"
Weight per sq ft	1.41 lbs
Weight per unit	1.69 lbs
Wall height	1.2 in
Material	100% recycled PE (polyethylene)
Pressure resistance	Up to 20 ton axle load
Dimensional stability	Temperature range -58° F to +194° F
Deformation	0.5% at normal temperatures 68° F to 176° F
Moisture absorption	0.01%
Dimensional stability	Up to 20 ton axle load
Solubility	Resistant to acids, alkalis, alcohols, oil, diesel, gasoline, (de-icing salt, ammonia, acid rain, etc.)
Load up to	23 ton/ft² (unfilled), 75 ton/ft² (filled)

Frequently Asked Questions

Does the Silca® SoilGrid install quickly?

Yes, the SoilGrid comes preassembled in sheets of 12 measuring 39"x52" that can be snapped together and laid very quickly.

Is the Silca® SoilGrid durable?

Silca® SoilGrid comes with a 20-year warranty and the best possible value. Our system is made of 100% recycled PE (also recyclable), heavy-duty, weatherproof and UV-resistant.

Is a Silca® SoilGrid area considered "permeable"?

More than 95% of the Silca® SoilGrid surface is permeable, so surface water cannot accumulate. Local authorities may declare "permeability" in order to save taxes or fees.

Silca® SoilGrid Can Be Used For Residential Applications