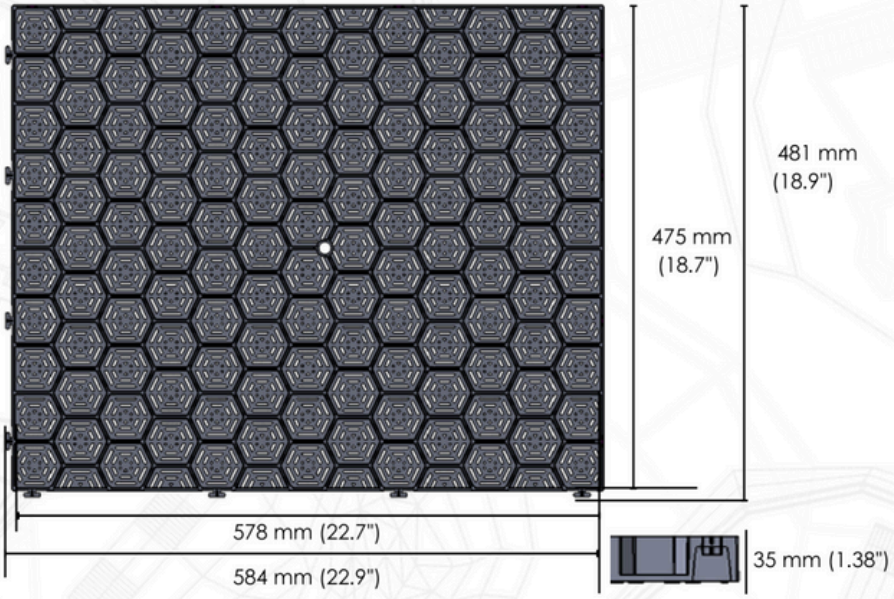
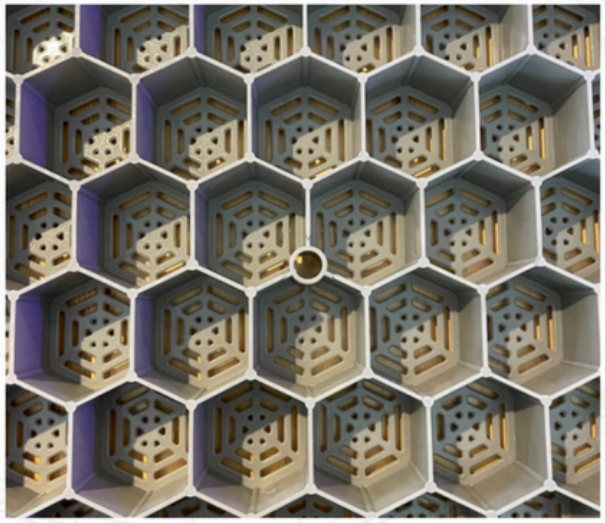
CORE LANDSCAPE PRODUCTS

CANA GRID™ HEAVY





TECHNICAL SPECIFICATIONS

Material	100% Polypropylene
Colour	Grey (Virgin)
Grid Dimensions (in)	22.7" x 18.7" x 1.38" (578mm x 475mm x 35mm)
Grid Weight	2.5 lbs (1.13 kg)
Cell Shape	Honeycomb
Cell Dimensions	2.0" x 1.38" (50mm x 35mm)
Cell Wall Thickness	0.09" (2.3mm)
Crush Resistance (unfilled)	>30,700 lbs/ft² (Over 150 tons/m²)
Load Bearing Capacity (Filled)	>46,451 lbs/ft² (Over 250 tons/m²)
Temperature Range	-52° C to +90° C
Chemical Resistance	Excellent
UV Resistance	Excellent
Suggested Aggregate Size	0.2" - 0.6" (5-15mm)

CERTIFICATES/COMPLIANTS

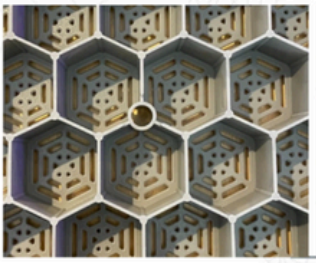
LEED: Used in SUDS and LEED Compliant Porous

SGS: ASTM D1621-04A (compressive test standard)

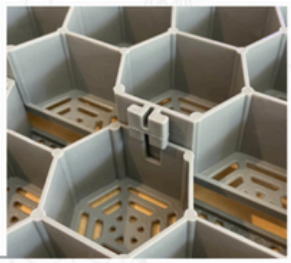
ADA Compliant: Used in ADA Disability Compliant Surfaces for Pedestrians, Biycles,& Wheelchair Traffic

Environmentally Approved: Maryland Department of the Environment, Montgomery County, and City of Victoria, British Columbia

FEATURES



Stake holes for additional stability



Easy DIY Connectors

SUITABLE FOR

Residential Low-slope driveways, Parking Areas, Patios/Pathways, Access Lanes.

Certified B Corporation

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1% FOR THE PLANET

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CORE CANA GRID HEAVY INSTALL GUIDE SUMMARY

Base Preparation

Excavate to the combined depth of the base, the grid, and the overfill. For example, a 3-inch base, 1.37-inch grid, and 1/2-inch overfill require approximately 5 inches of excavation.

Base

Lay and compact the road crush (driving surfaces) or sand (patios) according to the specified detail. Install any required edging - for example, brick edging or CORE garden Board - where needed.

Lay CORE Gravel Pavers

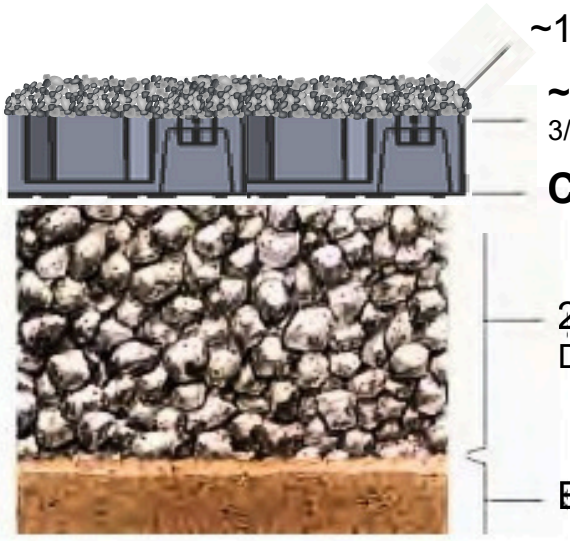
Begin at a straight edge if available. Join the grids and secure them with a soft mallet. Periodically walk over the laid grids to confirm there are no underlying divots or voids. Use 8-12" nails for slopes to secure grids.

Fill CORE Gravel Pavers

Use ½ inch clear crushed aggregate to fill the grids for driving surfaces- Round ⅜ inch for areas with small dogs or bare feet. Apply a 1/2-inch overfill to fully cover the foundation. On larger areas, lightly compact the overfill with a plate compactor, then reapply a top layer as required.

CORE LANDSCAPE PRODUCTS

CORE CANA GRID PROFILE



~1/2"- 1" top dress over grid

~1/2" clean & washed crush infill gravel
3/8" pebble for lightly used areas is great as well

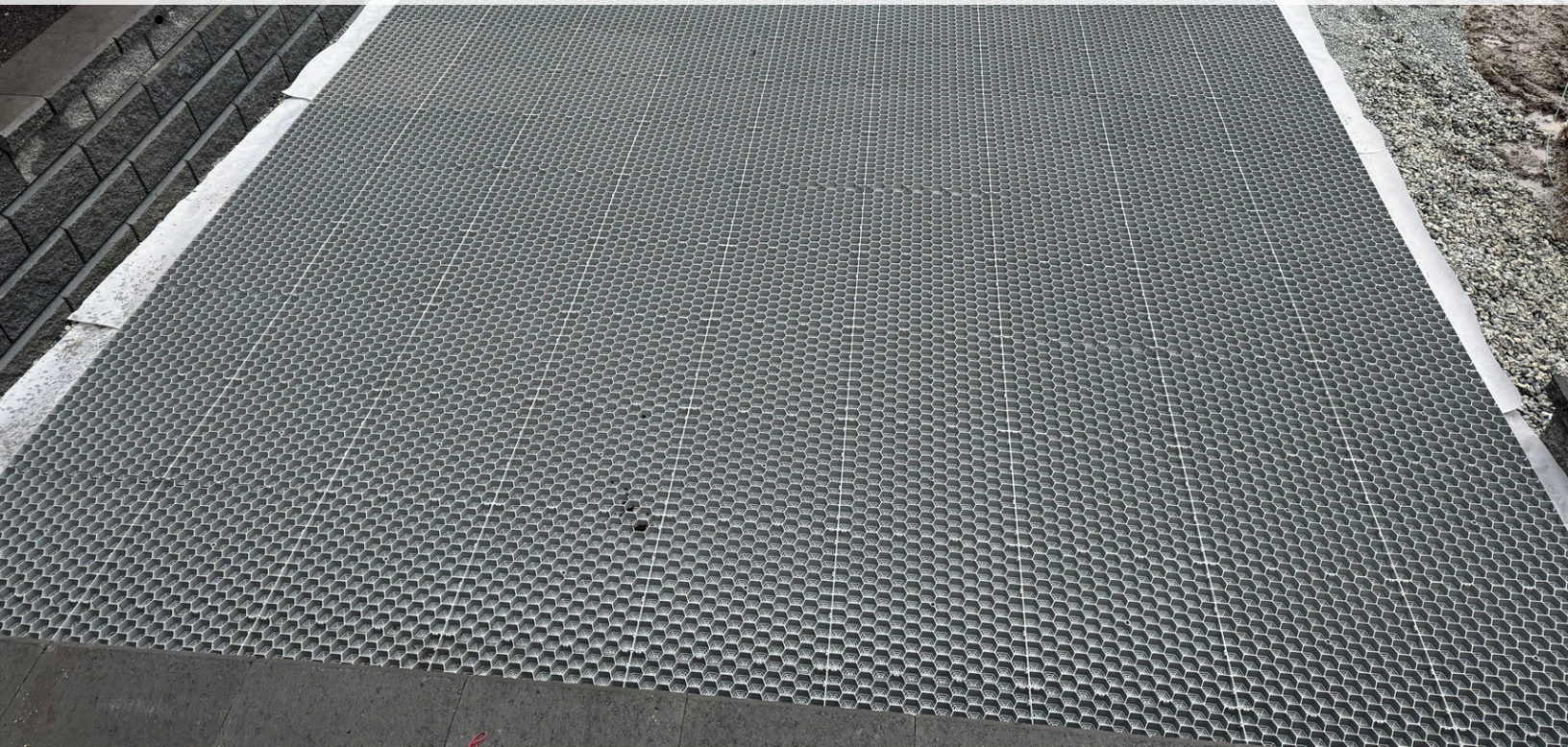
CORE Gravel Grid (1.4")

2" to 5" of a road crush subbase
Depth depends on application

Earth

Additional information:

- Small residential foot traffic applications can use ~1" for the sub base
- Driving surfaces require 2-3" of compacted road crush as the sub base
- Do not fill our grids with fines or dirty gravel.



CORE LANDSCAPE PRODUCTS

Install Guide for CANA Gravel™ Foundations

1. Excavate area allowing for base (as per below), CANA Gravel depth (35 mm), and top layer (~10 mm).

2. Shape foundation soils to grades, elevations, and dimensions as necessary for your site, or as per drawings. Be sure water will flow away from any structures.

3. If site requires a structural base, fill with road crush/a compactible base material as necessary. A typically homeowner project will require a minimum of 2" (50 mm) of compacted base material, but site specific conditions may call for a deeper subbase. Commercial projects typically need a 6" minimum base layer

4. Compact your base layer with a vibratory plate, compactor, or roller.

5. Place the panels. Position the panels on the prepared base. Cut to shape with aviation shears or skill saw with fine-toothed blade. Use protective gloves to avoid abrasions.

6. All surrounding hard surfaces abutting the CANA Foundation should be slightly higher than or level to the foundation. Gravel work should be no more than ~1/2" (10 mm) below adjacent hard surfaces.

7. Place first row of panels against a stationary edge if possible. The panels have interlocking connectors, make sure all connect. Pin through holes provided if required for slight slopes, curves (where grids don't clip), and other reasons recommended. **Note:** This system is not recommended for steep slopes, we have other systems for steep slope applictions.

8. Fill cells with chosen infill (clean aggregates are the top choice). Infill aggregate size should not exceed 5/8" (15 mm) and the minimum size can be 3/8" (9mm). Add a very slight top layer above the foundation, so it's not visible and is protected (10 mm maximum). Then do a final compaction.

9. Install edge restraint if desired (not mandatory). Standard metal, plastic, concrete edge restraints or concrete curbing may be used.

Specs

CANA Gravel™- Honeycomb Gravel Stabilizer Panels:

Each panel is ± 22.7" x ± 18.7" x 1.38" (578 mm x 475 mm x 35mm) HD grey or LD white injection-molded polypropylene and capable of supporting wheelchairs and light vehicle traffic (HD can handle occasional heavy-duty vehicles).

Compressive strength is tested under ASTM D 1621-04a and is 1016 kg/0.0175 m2. Loading capacity is >250 tons/m2 , >350 psi, when infilled with the recommended gravel over a structural base.

Infill Notes

A. For a permeable system, fill cells with clean, angular or round stones, gravel or decorative stones.

B. Infill gravel sizes ranges between 1/8" (3 mm) to 5/8" (15 mm) , but the ideal size is 3/8" (10 mm) , and can be either clear or pre-washed of all fines before delivering to the site. No gravel less than 1/8" (3 mm) nor more than ~1/2" (15 mm) is recommended.

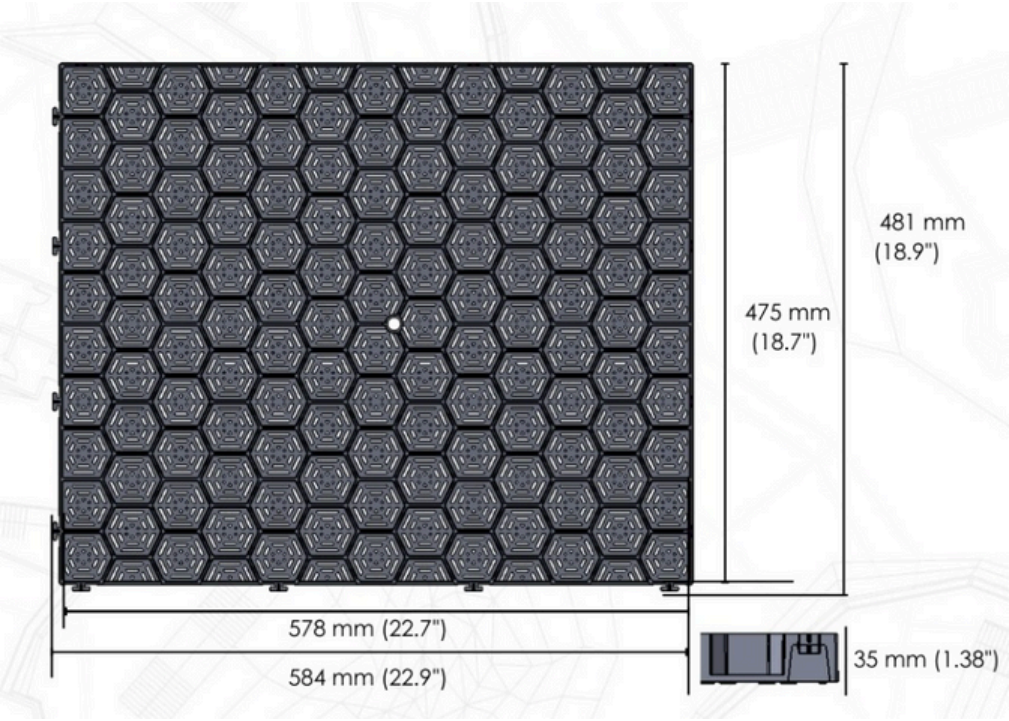
C. Install infill gravel by back-dumping into the cells from buckets mounted on rubber-tired tractors. Avoid sharp turns of the tractor, driving only on gravel-filled cells. Spread gravel laterally from the pile using power brooms, blades, flat bottomed shovels and/or wide asphalt rakes to fill the cells. Depending on the size of the project, you can compact the gravel with a vibrating plate compactor. If using pea gravel, no plate compaction is necessary.

Maintenance Efforts

A. Reserve a few 5 g. (~20 L) buckets of infill stones on site to top dress as necessary over the next year. Once the area is fully packed, top dressing is no longer necessary.

B. Snow plowing – Use shovels or blades with plastic blades. If using a metal blade, set blade 2" (50 mm) above gravel surface, leaving a layer of snow. This system is free draining during freeze/thaw events.

C. Use of salt for de-icing is allowed.


481 mm
(18.9")
475 mm
(18.7")
578 mm (22.7")
584 mm (22.9")
35 mm (1.38")

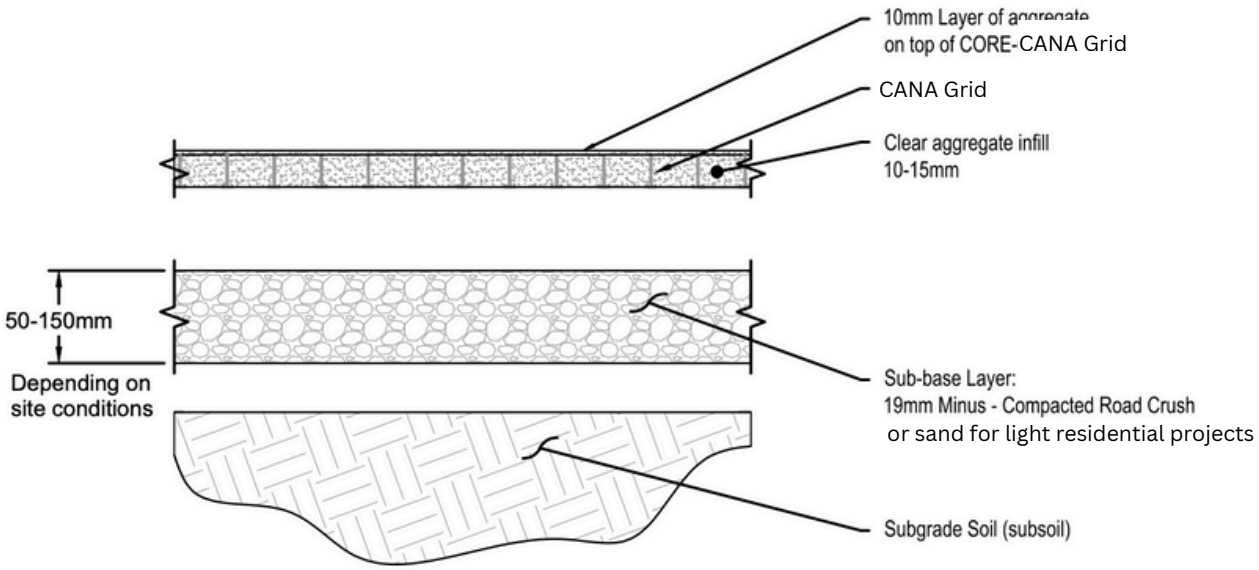

10mm Layer of aggregate
on top of CORE-CANA Grid
CANA Grid
Clear aggregate infill
10-15mm
50-150mm
Depending on
site conditions
Sub-base Layer:
19mm Minus - Compacted Road Crush
or sand for light residential projects
Subgrade Soil (subsoil)

Table 1 : Typical Sub-base Thickness (T) Requirements - refer to (2) Typical Construction Profile

APPLICATION/LOAD	C…	…NGTH OF …RADE SOIL	…T SUB-BAS… (…)	…S (mm & Inches)
Residential Patios & Pathways	≥ 6 4 < 6 < 4 3		150mm 180mm 285mm 570m…	6" 7" 13" …
Light Duty Commercial Patios & Pathways	= … = 2 = 1 <		150 15… 20… 3…	

N/A

Table 2 : Paving Grid Specification

Description	Data
Product	CANA Grid
Material	Ocean plastics and other polypropylenes
Color options	Light Grey
Paver dimensions	22.9" x 18.9" x 1.38"
Nominal internal cell size	2.0" (50 mm)
Structure Type	Rigid-walled, flexible semi-closed cell
Cell wall thickness	90 mil (2.3 mm)
Weight (Per square meter)	2.3lbs (1kg)
Load bearing capacity (filled)	>230 tons per square metre
Crush Resistance (unfilled)	100 tons per square metre
Connection type	Interlocking panels
Chemical resistance	Excellent
UV resistance	High
Toxicity	Non Toxic
Paver fill	**~1/2" clean & washed crush infill gravel -** 3/8" pebble for lightly used areas is great as well
Sub-base type	DoT Class 5 or a modified permeable Class 7 reduced Fines sub-base (Table 1 & Notes 1-5)
Sub-base reinforcement	Geogrid optional

Chart 1: Field guidance for estimating sub-grade strengths

Consistency	Indicator			Strength	
	Tactile (feel)	Visual (observation)	Mechanical (test)	CBR	CU
			SPT	%	kN/sqm
Very Soft	Hand sample squeezes through fingers	Man standing will sink > 3"	<2	<1	<25
Soft	Easily moulded by finger pressure	Man walking sinks 2"- 3"	2-4	Around 1	25-40
Medium	Moulded by moderate finger pressure	Man walking sinks 1"	4-8	1-2	40-75
Firm	Moulded by strong finger pressure	Utility truck ruts 0.5" - 1"	8-15	2-4	40-75
Stiff	Cannot be moulded but can be indented by thumb	Loaded construction vehicle ruts by 1"	15-30	4-6	75-150