



Impact resistant Permeable Ground Grids  
made of 100% recycled/recyclable plastic.

Sustainable urban drainage solution  
for parking, landscaping,  
rest areas and access routes

# Projects



photographer: Les Dalles Vertes

Citygrid is designed for heavy duty applications and fully compliant to SuDS (sustainable urban drainage systems). Extensively tested and proven, citygrid will:

- Minimize surface water run off
- Reduce flood risk
- Improve water quality
- Encourage biodiversity



## Heavy Duty Plastic Grids vs Concrete Grids



Features	Heavy Duty Plastic Grids	Typical Concrete Grids
Dimensions:	60 x 40 x 8 cm / 24" x 15.75" x 3.15"	60 x 40 x 8 cm / 24" x 15.75" x 3.15"
Weight:	9 kg / 19.8 lb (single person)	27,22 kg / 60 lb (two people)
On a pallet:	135 units (1212 kg / 2.673 lb)	40 units (1088 kg / 2.400 lb)
Typical shipping costs:	1/2 of Concrete	2 x Plastic
Speed of installation:	Quick (single installer)	Slow (2 person install)
Freeze-thaw susceptibility:	NIL	HIGH
Breakage in transit:	NIL	Approx. 5%
Impact Resistance:	Excellent	Poor

## OVERVIEW

Material	100% recycled polyolefins
Nominal size (L x W x H)	60 x 40 x 8 cm / 24" x 15.75" x 3.15"
Unit weight	9 kg / 19.8 lb (37,5 kg / 82.67 lb per 1 m <sup>2</sup> panel)
Coverage	4.17 grids/m <sup>2</sup>
Color	Grey
Connection type	Tongue and groove
Infiltration rate	2,500 mm/hr for gravel

## KEY FACTS

- » High compressive strength
- » Flexible and resistant to cracking
- » Anti-slip & UV resistant
- » Harmless to the environment
- » Meet SLW60 loading category (vehicle up to 60 metric tonnes / 66 tons gross weight)
- » Within HSE manual handling guidelines

### Permeable design

A rigid but open cellular design allows the grids to provide both exceptional support and water management.

### Lightweight

Complies with HSE manual handling guidelines.

### High load

Meets high SLW vehicle usage specifications, up to 60 metric tonnes (DIN 1072).

### Flexible

Polymer construction is semi flexible and resistant to cracking unlike concrete.

### Application options

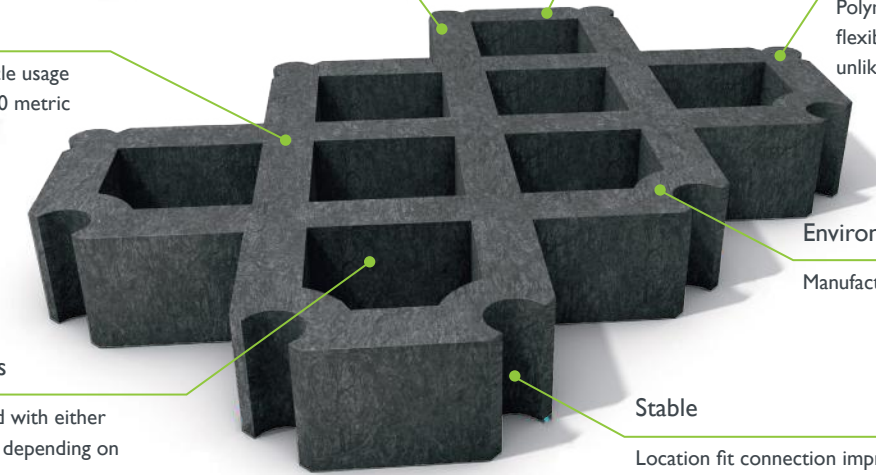
Open cells can be filled with either gravel or soil and seed depending on your application.

### Environmentally friendly

Manufactured from 100% recycled plastic.

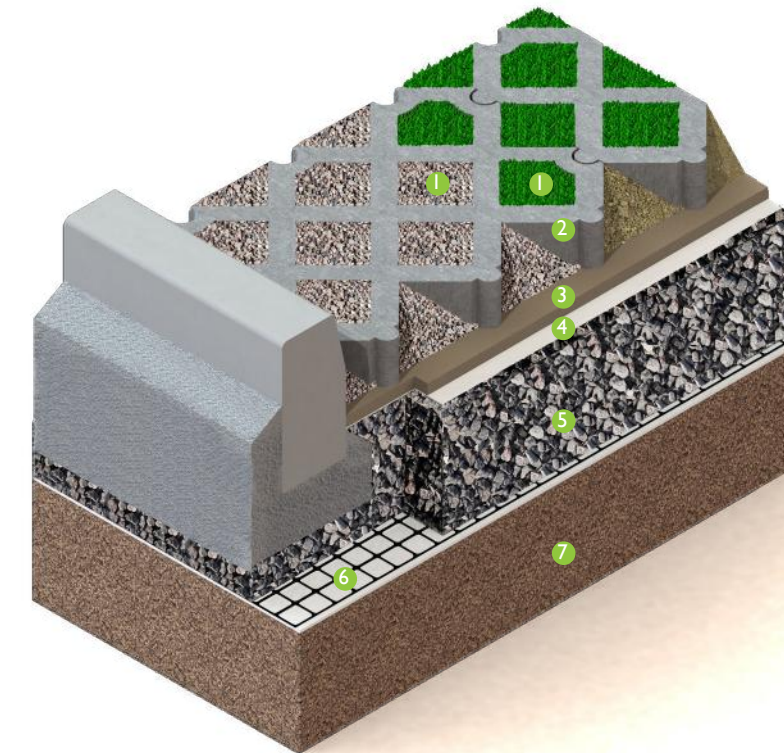
### Stable

Location fit connection improves stability once units are in position.



## TYPICAL INSTALLATION EXAMPLE

### Heavy duty permeable ground grid infiltration



- 1 Grass seeded or gravel finish**
- 2 Citygrid units (permeable grid)**  
Grass  
Good quality, free-draining friable topsoil, seeded at 6 -10 lbs per 1,000 ft<sup>2</sup>, pre-seeding fertilizer applied.  
Gravel  
Clean, free-draining angular crushed rock 0.2 - 0.6". Do not use rounded or river washed gravel.
- 3 Grit bedding**  
Clean coarse 0.08 - 0.25" grit compacted to 0.8".
- 4 Geotextile filtration layer**  
Non-woven needle-punched, minimum 3.25 oz/yd<sup>2</sup>.
- 5 Free-draining engineered sub-base**  
Free-draining granular base with a depth to suit the anticipated loading. N.B. Standard granular base is not suitable as it's not free-draining.
- 6 Geotextile separation layer/Geogrid**  
30/30 geogrid on a non-woven needle-punched geotextile, minimum 3.25 oz/yd<sup>2</sup>.
- 7 Sub soil**  
Establish CBR value to calculate depth of free-draining granular base.

### Citygrid attenuation with gravel

A sealed geomembrane should be installed between the geotextile and the subgrade to prevent infiltration. Surface water should be directed to a suitable outlet.



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#### Key Terms of Sale Canada

**PAYMENT** - All pricing is in Canadian Dollars (CAD).  
Terms: Net 30 days from date of invoice. A service charge of 1.6% per month will be charged on all invoices unpaid 30 days after invoice date (equal to 19.2% annually).

**FREIGHT** - FOB BG-Graspointner logistic center.

**PRODUCT AVAILABILITY** - Materials may need to be produced to order, call Customer Service for current stock availability and lead times.

**MISSING MATERIAL** - Missing material must be reported to BG-Graspointner Customer Sales Department within 48 hours of receipt of shipment.

**DAMAGED MATERIAL** - Damaged material must be noted on the bill of lading at final destination point. The receiver must file a freight claim with the carrier. BG-Graspointner is not responsible for material damaged in transit.

**TAXES** - All Provincial and Federal taxes are additional.

**RETURNS** - Returned material is subject to a 25% restocking charge. Prior return authorization must be obtained from BG-Graspointner before any material is shipped. Returned material is subject to the following conditions:

- a. All returned material must be in resale condition.
- b. Material must be returned to BG-Graspointner within 30 days of receipt of Return of Goods Authorization (RGA).
- c. All freight costs are the responsibility of those returning the material.
- d. All non-standard and fabricated material cannot be returned for credit.

**CHANGES** - BG-Graspointner Inc. reserves the right to change prices, design, and materials of any products listed at any time.

**MINIMUM ORDER** - Minimum order is CAD 500.00. Orders under CAD 500.00 are subject to a CAD 100.00 handling fee.

**EXPRESS PICKING** - Orders that need to be shipped by the end of the following business day will be charged a 5% express picking charge based on product value, with a minimum charge of CAD 50.00. Subject to stock availability.

