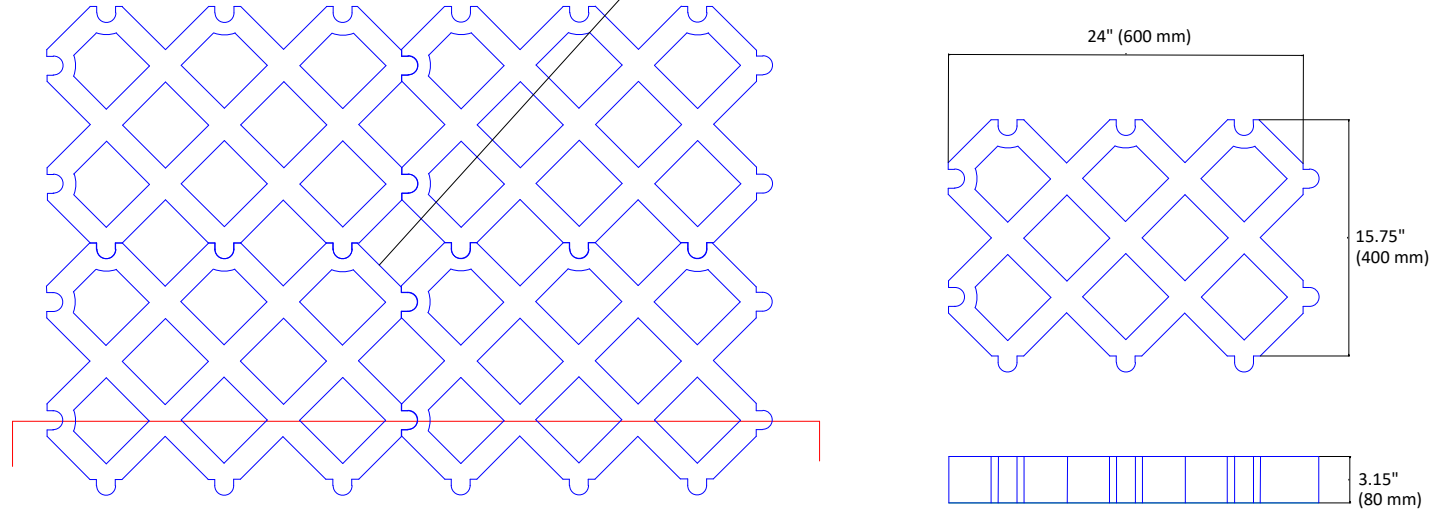


**Typical Specification Clause:**

Surfacing shall be - citygrid Permeable Ground Grids 24" x 15.75" x 3.15" (600 x 400 x 80 mm) ultra heavy duty porous paving manufactured from 100% recycled plastic. Paving system to have 5 tongue & groove interlocking points /unit to positively locate units. Min strength 2,700 psi (388,8000 lb/ft<sup>2</sup>).



citygrid 3.15" (80 mm) deep Extra heavy Duty grass/gravel reinforcement unit (porous paving grid).  
 Scale: N.T.S

**DESIGN GUIDANCE NOTES:**

- Sub base material to be a granular stone with the fines removed to ensure a free draining sub base.
- For commercial loads above 6.5 Tons a minimum sub base depth of 6" (150 mm) is required together with a geogrid (to reduce sub base depth).
- For free draining sub bases (LIDs) a non-woven needle punched geotextile is required to prevent migration of the bedding layer
- CBR guidance is given below for various types of soil according to anticipated traffic loads
- Where the permeability of the sub grade is insufficient this should be supplemented by an appropriate drainage system
- A suitable free draining rootzone bedding of 60:40 sand/soil mix should be used to fill the units ready for seeding or turfing. As-dug material should NOT be used.
- Maximum gradient of 8% for trafficked areas. For non-trafficked gradients over 8% units should be pegged at 1m (3.28ft) centers.

**SUB BASE DESIGN (Table A):**

Sub base thickness guide			
Loading	CBR (%) of Subgrade	DoT Type 3 Thickness	Geogrid Required
Fire Paths, Coaches, Busses, Emergency Vehicles, Forklifts, HGV/Truck access, Verge reinforcement adjacent to highway, Laybys etc.	>6	4" (100 mm)	30/30
	4-6	5" (130 mm)	30/30
	2-4	7.5" (190 mm)	30/30
Lighter duty use - Occasional HGV/Truck, vehicular access & overspill parking.	1-2	15" (380 mm)	30/30
	>6	4" (100 mm)	30/30
	4-6	4" (100 mm)	30/30
	2-4	5" (130 mm)	30/30
	1-2	10" (260 mm)	30/30

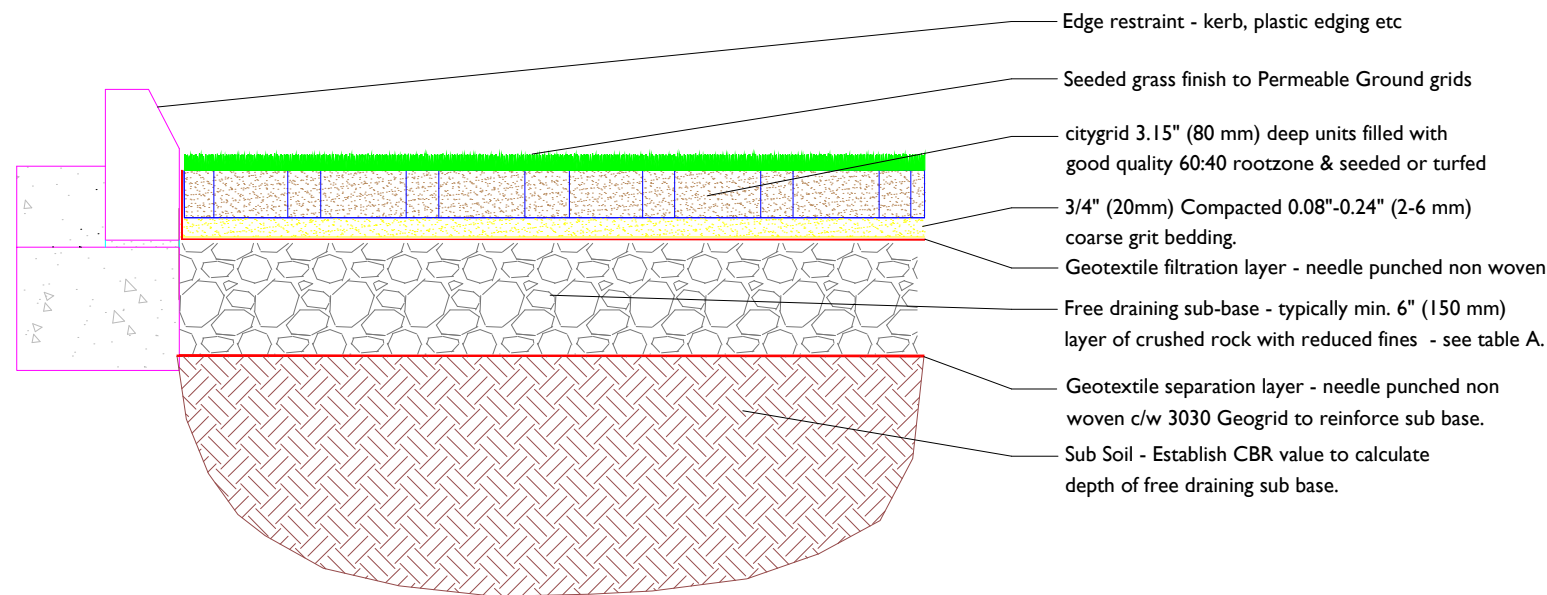
**Material Specification**

Function	Specification
citygrid 80mm Grass & gravel reinforcement grids	citygrid 24" x 15.75" x 3.15" deep ultra heavy duty grid system c/w tongued and grooved interlock (min loading 2,700psi) by BG-Graspointner Inc. (North America) 642 De Courcelle, suite 206, Montreal QC H4C 3C5 Canada (+1 514 932 5445). www.thecitygrid.com sales.ca@bg-graspointner.com
Infill Material (Grass surface finish)	Grids to be filled with high quality free draining sand rootzone mix (60:40) to top of units and allowed to settle by approx 1/4" (6 mm). General purpose fertiliser to be applied and area to be seeded (0.1 - 0.7 oz/ft <sup>2</sup> ) and top dressed. Keep well watered & no traffic for 6-8 weeks or until grass is well established.
Bedding (3/4" or 20 mm)	A 3/4" (20 mm) compacted layer of 0.08" - 0.24" (2-6 mm) coarse grit to be installed below the citygrid units to provide a level surface for grid installation. A non woven needle punched geotextile to be installed below the bedding layer to prevent migration into the sub base material.
Sub Base	For Low Impact Development Schemes (LIDS) a free draining, engineered sub base should be used with restricted fines. Depth of sub base to be specified according to table above. Sub base to have a 30/30 geogrid beneath on a non woven separation geotextile.

**Product Specification**

Product: citygrid 3.15" (80 mm) Ultra Heavy Duty Grass & Gravel Reinforcement Grid System			
Material	100% recycled Plastics	Colours Available	Grey
Nominal Size	24" x 15.75" (600 x 400 mm)	Parking Markers	Applied as for carriageways
Nominal Thickness	3.15" (80 mm)	Surface Finish	Grass or Gravel
Unit Weight	19.8 lbs (9 kg)	Infiltration Rate	98"/hr (2500 mm/hr)
Assembled Weight	96 lbs (45 kg) per 5 units / covering 12.9 ft <sup>2</sup> (4.17 m <sup>2</sup> )	Pallet Size	45" x 46" x 91" / 27 layers of 5 (1143 x 1168 x 2311 mm)
Coverage	2.58 ft <sup>2</sup> (0.24 m <sup>2</sup> ) per unit	Pallet Quantity	135 units / 348.3 ft <sup>2</sup> or 32.4 m <sup>2</sup>
Compressive Strength	Min 2,700psi	Pallet Weight	2,673 lbs (1,272 kg)
Connection Type	Tongued & Grooved Interlock	Full Load Size	16 pallets (2,160 units covering 518.4 m <sup>2</sup> or 5,573 ft <sup>2</sup> )

The above information is given as a guide only. BG-Graspointner Inc. cannot be liable for damage caused by incorrect installation of the product. Responsibility for the final suitability of the product for its intended use remains with the user who assumes all risk and responsibility.



citygrid 3.15" (80 mm): Grass Filled Surface - Typical Construction Detail  
 Scale: N.T.S