

CAIRNS OFFICE

PH: 07 4045 4388
FAX: 07 4045 4399
salescns@eesa.com.au

Mailing Address:
PO Box 404, Bungalow QLD 4870



TOWNSVILLE

PH: 07 4751 5800
FAX: 07 4751 5811
salestvl@eesa.com.au

Cairns Warehouse:
25 Supply Road, Bentley Park QLD 4869

GRASSRINGS®

Carparks

Service
Access
Areas

Golf
Courses

Caravan
Parks

Footpaths

Turf Reinforcement System

The advertisement features a vibrant green lawn as the background. At the top, the word 'GRASSRINGS' is written in large, bold, white letters with a registered trademark symbol. On the right side, there is a technical diagram of the turf reinforcement system, showing several interlocking plastic rings. The diagram is overlaid with text labels for various applications: 'Carparks', 'Service Access Areas', 'Golf Courses', 'Caravan Parks', and 'Footpaths'. At the bottom of the image, the words 'Turf Reinforcement System' are written in a large, bold, white font.

CAIRNS OFFICE

PH: 07 4045 4388
FAX: 07 4045 4399
salecsns@eesa.com.au

Mailing Address:
PO Box 404, Bungalow QLD 4870



TOWNSVILLE

PH: 07 4751 5800
FAX: 07 4751 5811
salestvl@eesa.com.au

Cairns Warehouse:
25 Supply Road, Bentley Park QLD 4869



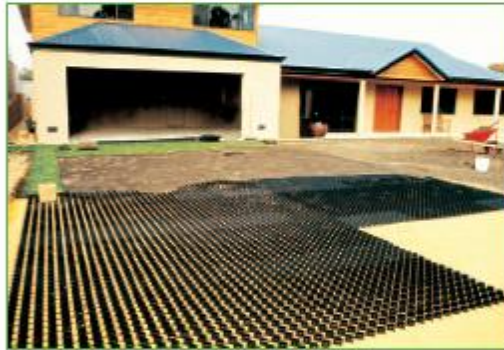
Melbourne Exhibition Centre during installation



Melbourne Exhibition Centre after completion



Claremont Showgrounds arena entrances



Private residence front grassed driveway and extra parking



Golf course cart paths and drainage of low lying areas and bunkers



Private resident extra parking

CAIRNS OFFICE

PH: 07 4045 4388
FAX: 07 4045 4399
salecsns@eesa.com.au

Mailing Address:
PO Box 404, Bungalow QLD 4870



TOWNSVILLE

PH: 07 4751 5800
FAX: 07 4751 5811
salestvl@eesa.com.au

Cairns Warehouse:
25 Supply Road, Bentley Park QLD 4869

The grass reinforcing rings concept has been quickly accepted internationally to increase and maintain a green environment in the rapidly expanding urban spread.

Grassrings is a 100% recycled injection moulded plastic structural grid system used to stabilise and reinforce grass, to prevent the compaction of the root zone, providing a luxuriant trafficable surface.

Studies show that compaction of the top 35mm of soil underneath grass must be prevented. If this layer becomes compacted grass roots are unable to obtain necessary oxygen, moisture and nutrients from the soil, causing the grass to suffocate and die. Grassrings prevent this compaction.

Grassrings' design maximises the root development of the grass (over 90% root development area) and is invisible once installed.

The grid of rings is immensely strong, capable of supporting fire trucks, aeroplanes, helicopters and other heavy low volume traffic.



Large overflow carpark

BENEFITS

- Open grid provides over 90% root development area and 100% grass cover.
- Grid is flexible – will follow undulations.
- Manufactured from 100% recycled chemical resistant, UV stabilised impact resistant polymer.
- Easy and fast to install including cutting around borders, trees etc.
- Provides storm water drainage and retention onsite.
- The ring design is the strongest shape for grass paving in that it has no weak corners. Grassrings will meet and exceed all loading criteria.
- Can be supplied in custom size rolls for fast installation.
- Porous surface generally provides greater percolation rate to the natural ground.



Service vehicle access, across grass to a play area, installed using Grassrings turf reinforcement



CAIRNS OFFICE

PH: 07 4045 4388
FAX: 07 4045 4399
salescns@eesa.com.au

Mailing Address:
PO Box 404, Bungalow QLD 4870



TOWNSVILLE

PH: 07 4751 5800
FAX: 07 4751 5811
salestvl@eesa.com.au

Cairns Warehouse:
25 Supply Road, Bentley Park QLD 4869

BASE COURSE DEPTH GUIDE



Dimension A – Traffic Type

75-100mm – Pedestrian

100-150mm – Cars

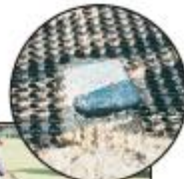
200-300mm – Trucks

Note: Base course design will be relative to the vehicle loads, traffic volume and existing soil conditions.

In commercial installations a civil or geotechnical engineer should be consulted to determine the requirements for the gravel base course with regard to depth and any need for geotextiles.

This information is provided as a guide only and is not to be taken as the manufacturer's advice for any particular project.

Detailed installation instructions are available.



TYPICAL INSTALLATION SPECIFICATION

Step 1:

Remove depth of soil to thickness of base course plus 35mm, level and compact area to engineer's requirements.

Step 2:

Add graded gravel base course to designed thickness and compact to test requirements. Subject to geotechnical requirements additional base course stability can be achieved by installation of NOVAGRID geotextile membrane below the base course material. Used also to reduce base course depth.

Step 3:

Add and spread evenly a thin layer of coarse sand and wash into base course. At this stage NOVATEX non-woven geotextile membrane can be laid on top of base course gravel before the next step to prevent base course gravel from mixing into growing medium as referred to in Step 6.

Step 4:

Roll out or lay Grassings onto prepared base.

Step 5:

After laying Grassings, cut around valve boxes, sprinklers, trees or curbing using cutting pliers or secateurs. Spread fertilisers over sand (NPK blue or any grass starter).

Step 6:

Apply clean sharp sand of suitable growing pH value to fill rings using large broom to leave top of ring exposed, on to which roll on turf is laid. A further 15mm of top soil for seeding and hydro-mulching.

Important Note: Top soil must not be inclusive of any clay or fines.

Step 7:

For quick lawn establishment – Roll on Grass is recommended. On warm days the sand should be wet to reduce temperature and provide moist base for the roots of the grass.

Step 8:

Roll compact lawn with heavy roller to remove all air pockets around roots ensuring that the roots are set into the sand layer in the rings. Water and fertilise to suit weather conditions. Must not be trafficked before roots are established.

CAIRNS OFFICE

PH: 07 4045 4388
FAX: 07 4045 4399
salescns@eesa.com.au

Mailing Address:
PO Box 404, Bungalow QLD 4870



TOWNSVILLE

PH: 07 4751 5800
FAX: 07 4751 5811
salestvl@eesa.com.au

Cairns Warehouse:
25 Supply Road, Bentley Park QLD 4869

Grassrings reinforce the case for parking on grass

AIRFIELDS



ACCESS AREAS



GOLF CART PATHS



CARAVAN/CAMPING



FOOTPATHS



The environmentally friendly turf reinforcement module



Grassrings are moulded from recycled plastic containers etc., turning what would have been environmentally unfriendly rubbish into a product that enhances the environment.



Environmental benefits

- Reduces the need for hard surfaces
- Waterway contamination reduced
- Increases the green environment
- Storm-water run-off reduced
- Tree roots protected
- 100% recycled plastic
- Erosion control
- Recycling of plastic keeps it out of landfill
- Retention and stabilisation of soil surfaces
- Include it in your sustainable urban drainage scheme (SUDs)



Product specification

Injection moulded panels nom. 500mm x 500mm x 27mm high rings with hook and hole connection for joining into rolls or easy site laying. Colour: black

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

Manufactured by: NOVAFLAS Pty Ltd