

GrassProtecta™

CASE STUDY



Client: Hamilton City Council
 Location: Claudelands Event Centre, Hamilton, New Zealand
 Supplier: Maccaferri, New Zealand
 Product: GrassProtecta™ Heavy 2m x 20m & 1m x 10m
 Application: 7,200sqm of Reinforced Grass Parking



The Brief:

Claudelands Event Centre has undergone huge development over the last 2 years and part of this upgrade includes the car park to the northern side of the site. The design and construction contract called for a reinforced grass car park surface capable of parking buses, horse floats, campervans and cars during winter months, without creating undue damage. The site also had to sustain good grass growth for animal pasture when not being used for parking. Hamilton City Council required a solution that would be quick to install, discreet and easily maintained during its design life.

The Solution:

GrassProtecta™ provides a high level of reinforcement - up to 8 tonnes per axle (imposed load), so met the traffic load bearing requirements of the site. GrassProtecta™ also offered a speedy and naturalised finish enabling the site to be used for both parking and pasture land. GrassProtecta™ was trialled in December 2009, accepted and construction began in May 2010, with the time constraint being 2 weeks for completion.

Installation started with the area being sprayed out, desiccated and then scarified 3 times to remove dead organic material down to a depth of 15mm. This material was then picked up with a mechanical sweeper. A large grader was used to assist in levelling the ground, taking raised areas filling in any hollows. A mechanical aeration process followed, with further decompaction aided by an aeration tool (AERA-vator). The site was then seeded using a strong and robust ryegrass variety.



GrassProtecta™

CASE STUDY



Client: Hamilton City Council
 Location: Claudelands Event Centre, Hamilton, New Zealand
 Supplier: Maccaferri, New Zealand
 Product: GrassProtecta™ Heavy 2m x 20m & 1m x 10m
 Application: 7,200sqm of Reinforced Grass Parking

The Solution:
Cont'd

When installing GrassProtecta™ the normal recommendation is to unroll the mesh, turn over and leave for a short period to help the mesh regain its natural flatness. Due to time constraints in this project the rolls were instead attached to a truck and tensioned back to natural flatness. A 2cm gap was left between installed rolls to allow for expansion and contraction of the mesh throughout the seasons. Boddingtons metal u-pins were used to secure the GrassProtecta™ to the newly seeded surface, with 6mm ground staples used on the road edge where no ground treatment had taken place. This ensured that the ground profile could interface with all surrounding access ways and roads.



Conclusion:

A mild month in May saw a very good grass strike in 8 days. Best results are obtained by not using newly installed areas until the grass has fully grown though and intertwined with the mesh apertures, which usually takes 4-8 weeks depending on the season. The total area of reinforced grass car park covered 7200sqm and the site is a good example of a council being waste water conscious. If the area had been asphalted, the treatment of water runoff would be at a much higher cost than using GrassProtecta™ and the water would not have naturally filtered back in to the locally surrounding ground (which reduces storm water damage and aids plant growth). This makes GrassProtecta™ a sustainable, free-draining and naturally sympathetic alternative to impermeable paved surfaces.





CASE STUDY

Client: Hamilton City Council
 Location: Claudelands Event Centre, Hamilton, New Zealand
 Supplier: Maccaferri, New Zealand
 Product:: GrassProtecta™ Heavy 2m x 20m & 1m x 10m
 Application: 7,200sqm of Reinforced Grass Parking

GrassProtecta™

GRASSPROTECTA™

PRODUCT SPECIFICATION:

PHYSICAL CHARACTERISTICS:		HEAVY 2kg/m ²	
Structure		Oscillated	
Polymer		HDPE (80% Virgin, 20% Recycled)	
Colour		Green	
UV Stabilised		Yes	
NOMINAL DIMENSIONS:			
Roll Width		1m	2m
Roll Length		10m	20m
Roll Weight		20kg	80kg
Weight per liner metre		2kg	4kg
Weight per square metre		2kg/m ²	
Thickness		14mm	
Mesh Aperture (Diamond:Oval)		3:1 ratio	
TECHNICAL CHARACTERISTICS:			
Measurement	Method	Results	
Tensile strength (MD)	ISO 10319	16kN/m	
Yield point elongation (MD)		35%	
Residual thickness @ 500 kPa	ASTM D1621	60%	
Slip risk PTV value	BS7976: 1-3	>40 (low slip)	

FURTHER ADVICE :

Contact: **Boddingtons Australia Pty Ltd**
 Telephone: +61 (03) 93100 2100
 email: boddsales@boddingtons.com.au



Quality
 ISO 9001

