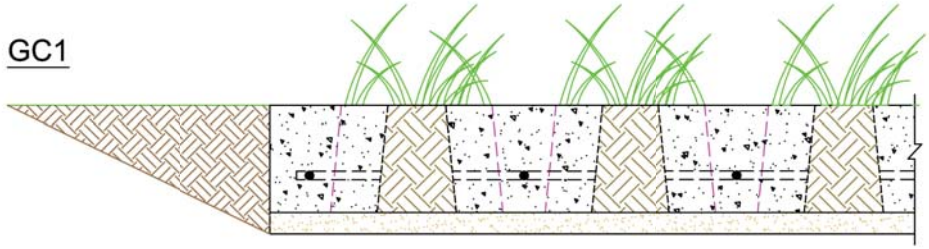
GrassConcrete

CAD

Fire Access Details

GC1

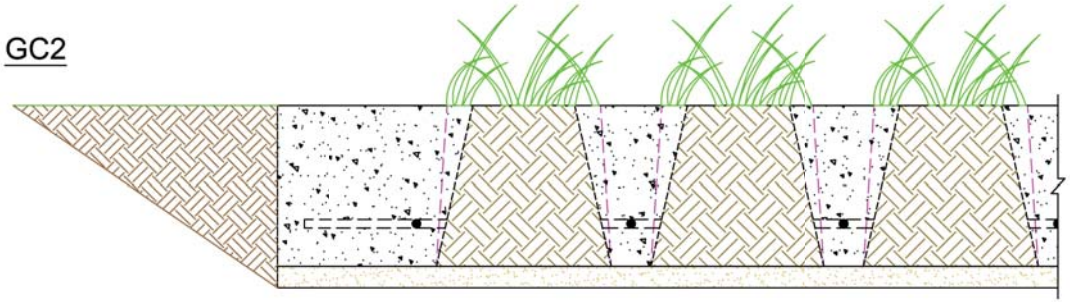


GC1: 100mm Thick

→ A193 Mesh Reinforcement (200 x 200 x 7mmØ) → 10.8 Tonnes GVW

→ A252 Mesh Reinforcement (200 x 200 x 8mmØ) → 13.3 Tonnes GVW

GC2



GC2: 150mm Thick

→ A252 Mesh Reinforcement (200 x 200 x 8mmØ) → 30.0 Tonnes GVW

→ A393 Mesh Reinforcement (200 x 200 x 10mmØ) → 40.0 Tonnes GVW

Design Philosophy

An emergency situation isn't the time to test the suitability of an emergency access road. *"It might never be used"* shouldn't feature in the design appraisal and neither should a reliance upon secondary factors such as grass growth and favourably dry ground conditions which may not be evident in an emergency situation.

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Client: N/A

Client Address

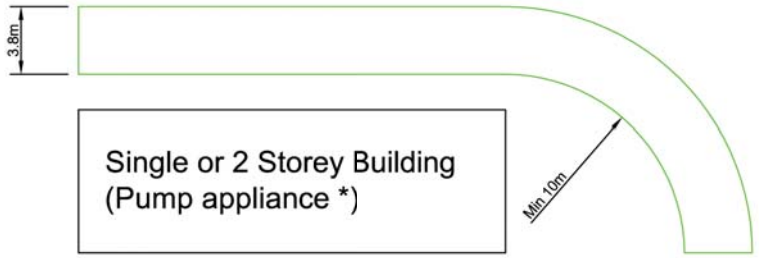
Site Details: N/A

Site Address

Revision History

Drawn By	Date
D Moorhouse	26.01.2011
Checked By	**Scale**
REH	1:5 @ A3
Project Reference	**Project Title**
	Typical Grasscrete Fire Access Details - Design Philosophy
Drawing Number	**Revision**
GC-CAD-0011	-

Detail 1



* Check with local Fire Department as certain residential buildings may receive a Platform appliance irrespective of the height of the building

GC1: 100mm Thick

→ A193 Mesh Reinforcement (200 x 200 x 7mmØ) → 10.8 Tonnes GVW

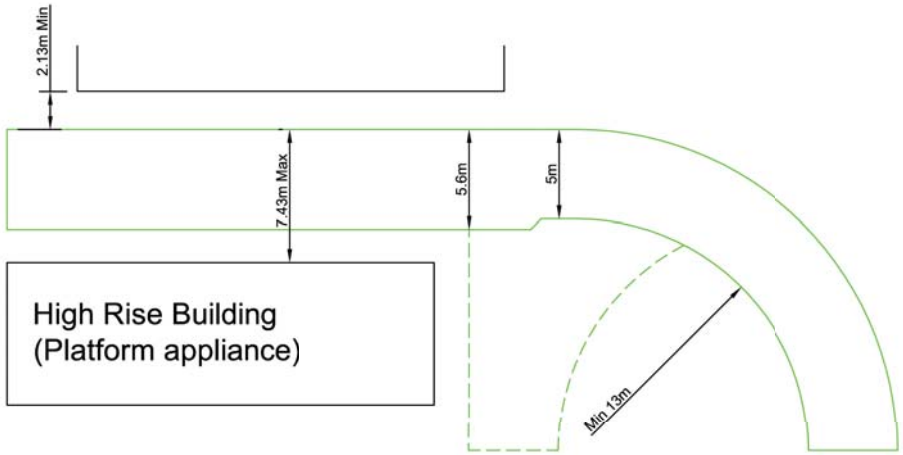
→ A252 Mesh Reinforcement (200 x 200 x 8mmØ) → 13.3 Tonnes GVW

Detail 2

GC2: 150mm Thick

→ A252 Mesh Reinforcement (200 x 200 x 8mmØ) → 30.0 Tonnes GVW

Detail 3



GC2: 150mm Thick

→ A252 Mesh Reinforcement (200 x 200 x 8mmØ) → 30.0 Tonnes GVW

→ A393 Mesh Reinforcement* (200 x 200 x 10mmØ) → 40.0 Tonnes GVW

* May be considered where access is required to accept heavy goods vehicles in addition to emergency access.

Access routes should avoid sudden or steep variations in gradient and should be free from obstructions such as overhangs.

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Client	N/A
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Revision History	
Drawn By	D Moorhouse
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Checked By	REH
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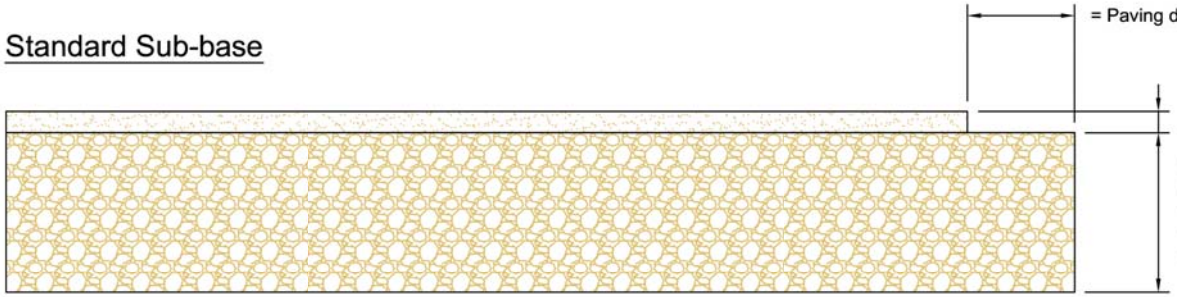
Project Reference	
Project Title	Typical Grasscrete Fire Access Details - Layouts
Drawing Number	GC-CAD-0012
Revision	-

* Assuming an allowable ground bearing of 45kN/m². For typical sub grades, the following guideline can be considered:

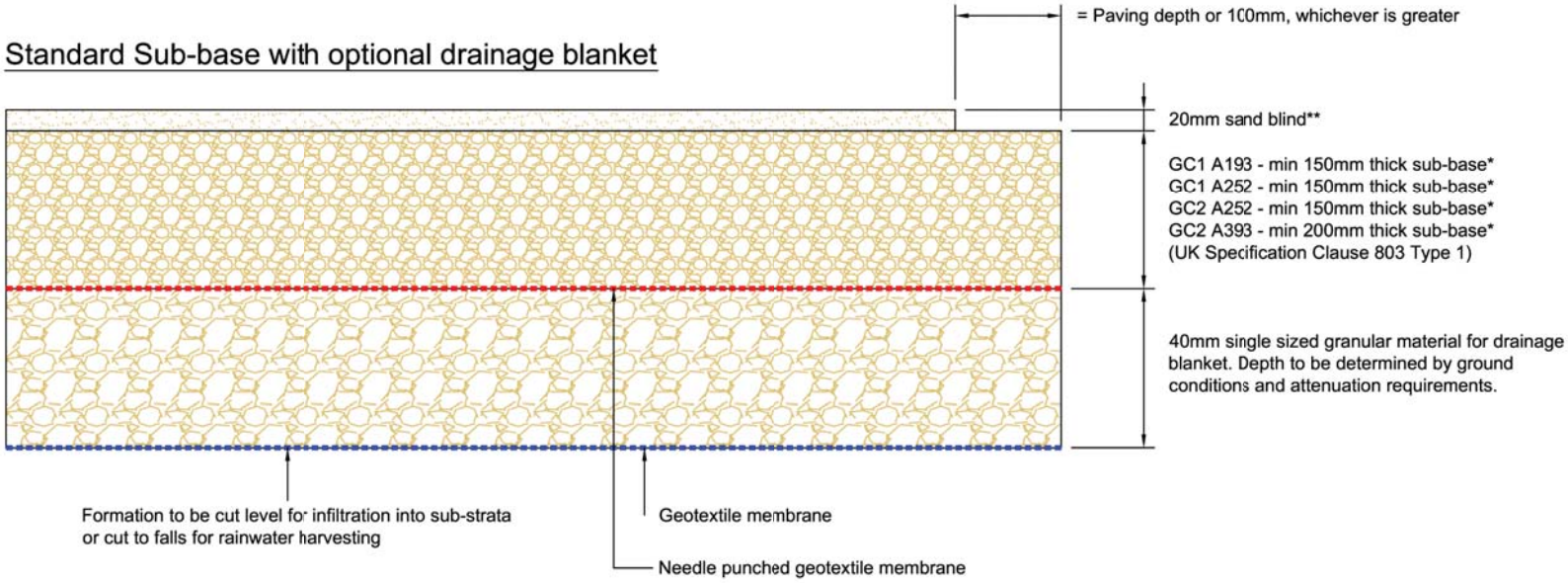
CBR 4%+	150mm Thick
CBR 2 - 4%	250 - 200mm Thick
CBR <2%	300mm + Thick min.

** The sand blinding layer is intended to create a uniform seating for the Grasscrete formers and to prevent the loss of soil into the sub-base. It is not to be a regulating layer.

Standard Sub-base



Standard Sub-base with optional drainage blanket



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Site Address	
Revision History	
Drawn By	D Moorhouse
Date	24.01.2011
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Project Title	Typical Grasscrete Fire Access Details - Sub-base details
Drawing Number	GC-CAD-0013
Revision	-