

## **BASE SPECIFICATION – POROUS SURFACE – TWO COURSE MACADAM**

### **Base Construction**

Base construction is a vital part of any synthetic surface installation. The notes below are produced for guidance only and may have to be varied because of local site conditions. An adequate sub-surface drainage system may be required. The foundation materials should be placed on an approved formation or sub-grade.

### **Sub-Base**

It should be free draining, clean graded, frost resistant, angular stone thoroughly compacted and laid to required falls. The thickness of sub-base should be determined after examination of ground conditions.

### **Base Course**

Base course 40mm average consolidated thickness of 20mm nominal size aggregate open graded macadam prepared in accordance with BS 4987: part 1: 1993 group two (6:1) and transported, laid and compacted in accordance with BS 4987: part 2: 1993.

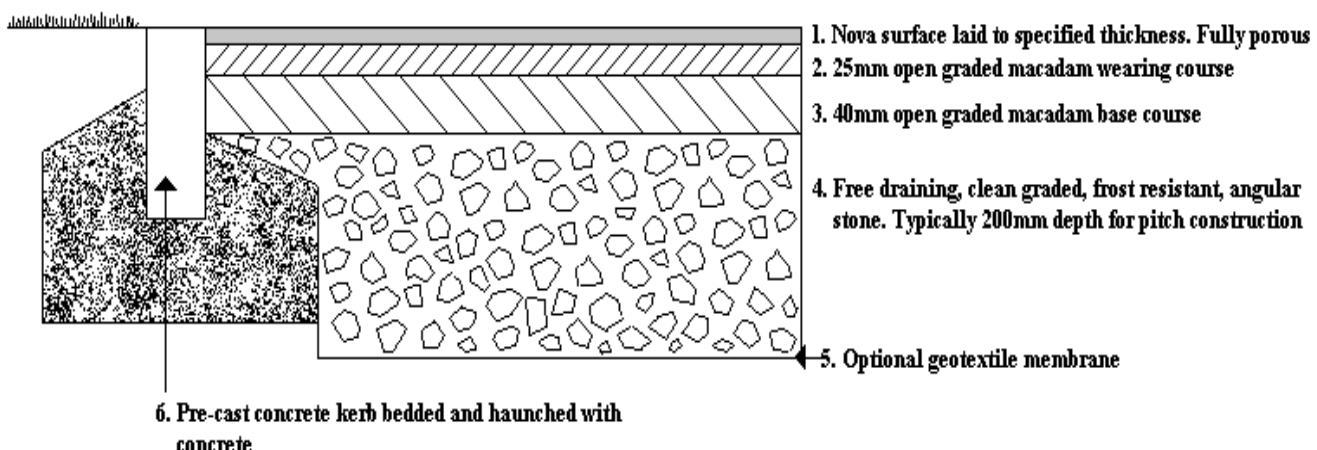
### **Wearing Course**

Wearing course 25mm average consolidated thickness of 10mm nominal size aggregate open graded macadam prepared and laid in accordance with BS 4987: part 1: 1993 group three (7.2) 100 penetration grade straight run bitumen for machine laying or 200 pen straight run bitumen for hand laying and laid to accurate line and level.

Under no circumstances should fluxing oils / cut back be used in the macadam.

### **Tolerance**

Finished tolerances of +/- 3mm in general level are required with a maximum local deviation of 3mm under a 3 metre straight edge placed in any direction.



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**Issue No: 1**

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## **BASE SPECIFICATION – POROUS SURFACE – SINGLE COURSE MACADAM**

### **Base Construction**

Base construction is a vital part of any synthetic surface installation. The notes below are produced for guidance only and may have to be varied because of local site conditions. An adequate sub-surface drainage system may be required. The foundation materials should be placed on an approved formation or sub-grade.

### **Sub-Base**

It should be free draining, clean graded, frost resistant, angular stone thoroughly compacted and laid to required falls. The thickness of sub-base should be determined after examination of ground conditions.

### **Open Graded Macadam Course**

40mm average consolidated thickness of 10mm nominal size aggregate open graded macadam prepared and laid in accordance with BS 4987: part 1: 1993 group three (7.2) 100 penetration grade straight run bitumen for machine laying or 200 pen straight run bitumen for hand laying and transported, laid and compacted in accordance with BS 4987: part 2: 1993.

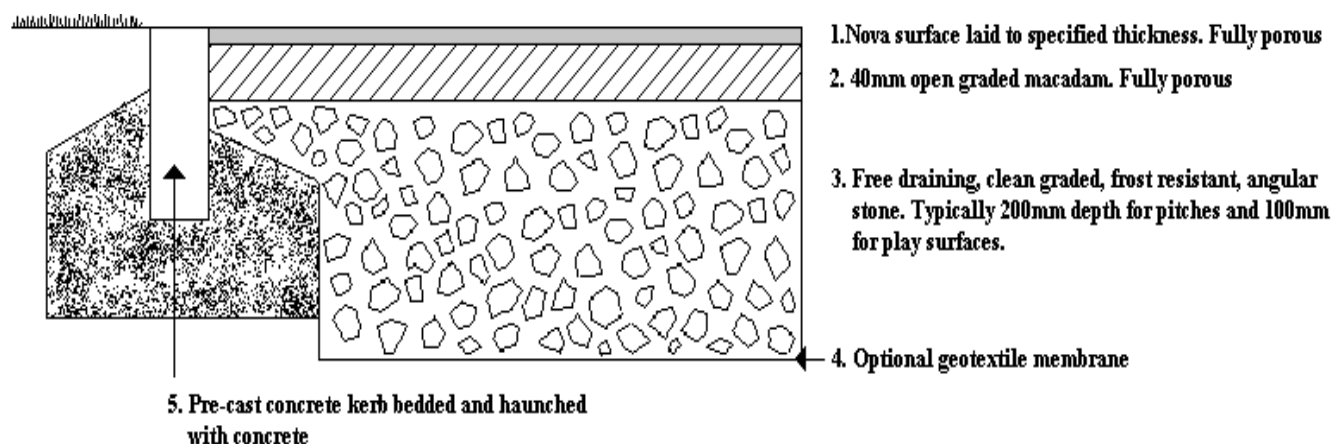
Under no circumstances should fluxing oils / cut back be used in the macadam.

### **Tolerance**

Multi Sport and Pitch Surfaces: Finished tolerances of +/- 3mm in general level are required with a maximum local deviation of 3mm under a 3 metre straight edge placed in any direction.

Play Surfaces: The permitted finished surface irregularity of the bitumen macadam shall be no greater than 5mm under a 3 metre straight edge placed in any direction.

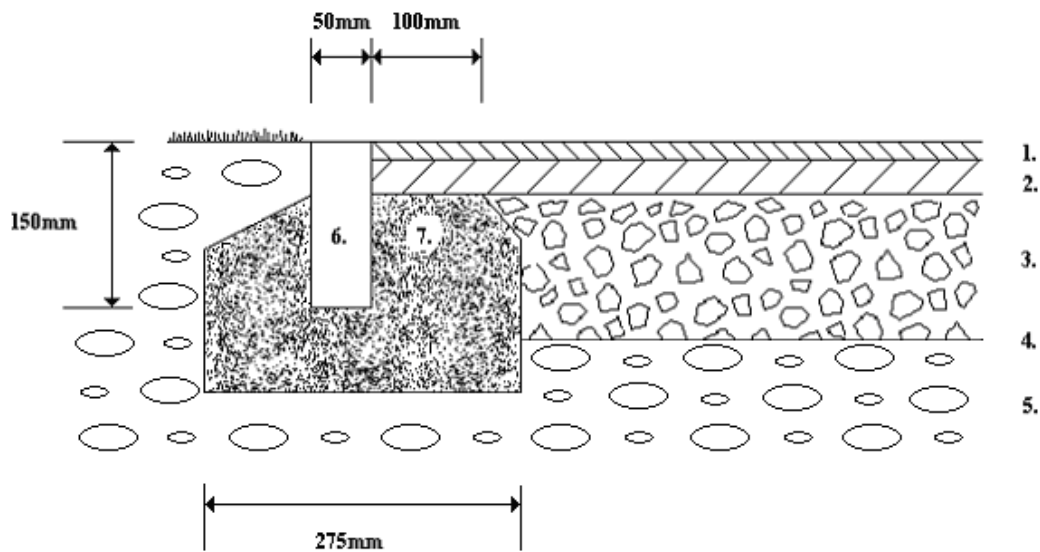
N.B. Existing macadam bases, subject to inspection, may be suitable for surfacing.



Form Ref No: NF 34  
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### BASE SPECIFICATION – POROUS SAFETY SURFACE – CLEAN STONE BASE



Not to scale

### Base Construction

Base construction is a vital part of any synthetic surface installation. The notes below are produced for guidance only and may have to be varied because of local site conditions. An adequate sub-surface drainage system may be required. The foundation materials should be placed on an approved formation or sub-grade.

1. *NovaPlay* safety surface wearing course. Nominal depth 15mm.
2. *NovaPlay* safety surface base course. Variable depth dependent on free fall height requirement. Minimum depth onto a stone base 30mm, giving a total rubber depth of 45mm, which achieves a free fall height of 1.4 metres.
3. 100mm minimum depth of free draining, clean graded, frost resistant, crushed angular stone 20 to 5mm in size. Not rounded stone or gravel. The permitted surface irregularity of the stone shall be no greater than 6mm under a 3 metre straight edge placed in any direction.
4. Optional geotextile membrane. Use is dependant on site / soil conditions.
5. Existing sub-soil. Before any surfacing is laid the formation shall be treated with an approved total residual weed killer.
6. 50mm x 150mm p.c.c. flat top edging kerb.
7. C20P (Former mix 1:2:3) Concrete haunching and ring beam, inner face to be a minimum of 100mm wide for bonding rubber to. This is necessary to prevent gaps occurring or subsidence / trip points at a later date.



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## **BASE SPECIFICATION – POROUS SAFETY SURFACE – RAMPED EDGES**

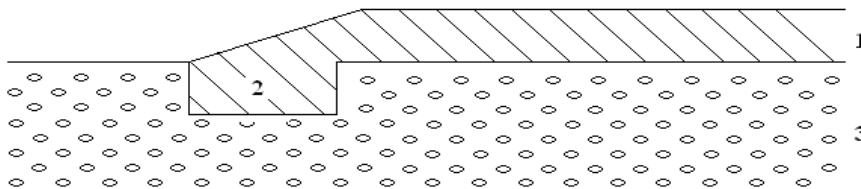
Ramped edge detail when laying on existing larger concrete or tarmacadam surfaces.

### **Base Construction**

Base construction is a vital part of any synthetic surface installation. The notes below are produced for guidance only and may have to be varied because of local site conditions. An adequate sub-surface drainage system may be required. If the existing surface is not of sufficient strength it may break away or crack after a period of time.

The ramp should have a minimal gradient to avoid a trip hazard. For NovaPlay of less than 50mm depth a maximum gradient of 1 in 2 and for depths greater than 50mm a maximum gradient of 1 in 2.5 Please check with the DDA (Disability Discrimination Act 1975) for special situations.

1. *NovaPlay* safety surface.
2. Saw cut channel edge. Approx 20mm depth x 60mm width.
3. Existing concrete or tarmacadam surface



Not to scale