



# Advanced Turf

## Netlon Advanced Turf Product Specification

### Item: Netlon Advanced Turf

(supplied by Netlon Limited, Blackburn, England Tel: 01254 262431 Fax: 01254 266868) and comprising: items A. B. C & D.

- A.  100mm or  150 mm or  200 mm \* thick layer of Netlon ATS300 Rootzone. (\* delete as appropriate)

*A compacted layer of pre-blended rootzone material, being a mixture of sand, soil, organic material and Netlon mesh elements at an inclusion rate of 5kg/m<sup>3</sup>.*

The rootzone thickness layer above shall be determined from Netlon's published Design Guidance Notes or using advice from Netlon Limited.

The Netlon mesh elements shall have the following properties:

<b>Polymer</b>	Polypropylene homopolymer
<b>Density</b>	0.905 - 0.908g/cm <sup>3</sup>
<b>Element size</b>	100mm x 50mm
<b>Mesh pitch</b>	10mm + 2mm - 1mm
<b>Tensile strength</b>	3.3kN/m width (both longitudinal and transverse directions)
<b>Junction strength</b>	Not less than 50% of the mesh strand strength
<b>Flexural recovery</b>	The mesh shall have high flexural recovery, not less than 95%

- B. 15mm thick layer of Netlon R300 topping. (This topping layer is only required either where a seeded finish is specified or where a washed turf finish is to be used for sports).

- C. Netlon installation fertiliser

- D.  Seed or  Washed turf \* of amenity type grass mix (unless other mixture specifically required)

\* delete as appropriate (advice from Netlon Limited or local Distributor)

This system shall be installed in accordance with guidance notes provided by Netlon Limited.

### Note to specifier:

*This specification does not include provision of or preparation of materials below the Netlon Advanced Turf Rootzone or the maintenance and aftercare of the turf. These must be specified separately. Advice can be obtained from Netlon Limited or the local Distributor.*

### Summary of Test Methods

#### 1. Tensile strength

Five samples are taken from the uncut net in both the longitudinal and traverse directions.  
Each sample to be five strands wide and long enough to allow a gauge length of 100mm.  
Cross-head speed 200mm/min  
The minimum tensile strength for any one sample shall be 165N with a minimum average for five samples of 170N.

#### 2. Junction strength

Two perpendicular strands are cut from the net so that they are attached to each other by one junction.  
The two strands are bent and clamped so that their ends are at 180° to each other.  
With a cross head speed of 200mm/min the strands are pulled apart until the junction fails.  
The junction strength should be at least 50% of the average tensile strength for a strand, i.e. 17N.

#### 3. Flexural recovery

Of a 100mm long Netlon mesh element, 60mm of length are clamped adjacent to an edge having a radius of 3mm, so that 40mm projects out over this edge. (Discard the sample if the tip droops by more than 3° along the chord of the droop).  
Fold the samples 90° down over the edge, hold for five seconds, release, and after a further five seconds measure the angle to which it has reverted (along the chord)  
For 90% of samples, 90° minus the reverted angle should be at least 95% of 90° minus the original droop angle.

#### 4. Properties of mesh stabilised rootzone

These should be performed according to the USGA protocol. The acceptable ranges are not necessarily those of the USGA but will vary with application and should be discussed with Netlon Limited or the local Distributor.

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