



# Netlon R300 Rootzone Product Specification

**(Nominal 70:30 sand:soil blend)**

Netlon R300 rootzones are formulated from soil modified sands. Netlon mesh elements are then blended into the R300 rootzone to form a Netlon ATS300 rootzone.

**SAND SELECTION**

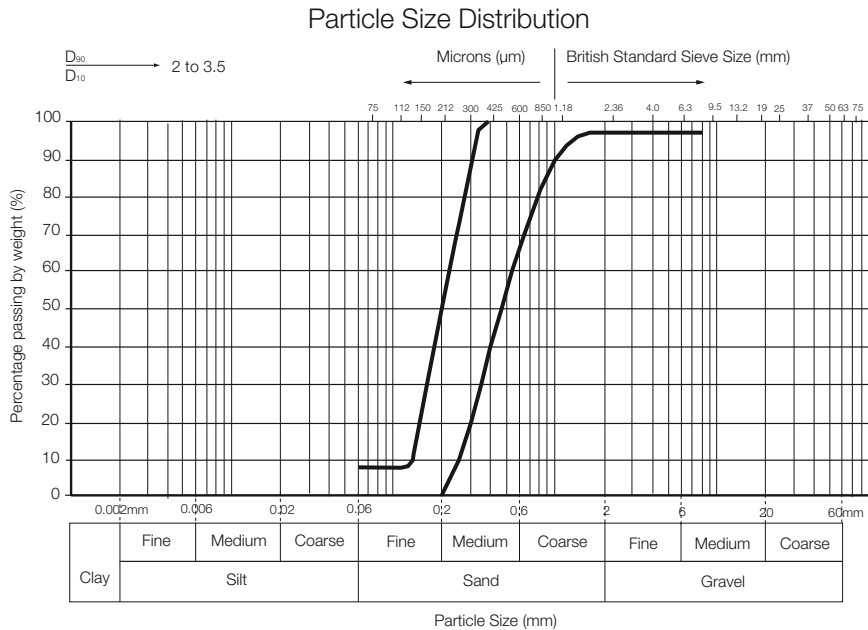
Sand shall comply with the following particle size distribution limits:

**Gradation index:**  $D_{30}$  within the range 2 – 3.5  
 $D_{10}$

**Mean particle size:**  $D_{50}$  within the range 0.2 – 0.45mm

**Lime content:** <5% by weight.

Grading curve defining the sand to be soil modified for Netlon Advanced Turf rootzones



The 2 grading curves on the above chart indicate the upper and lower limits for sand particle size selection. Particle size must fall within range.

**SOIL SELECTION**

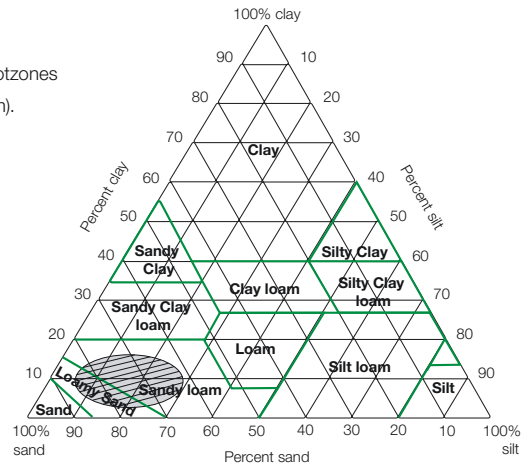
The soil range used in preparing Netlon Advanced Turf rootzones shall be light topsoil (classified as loamy sand or sandy loam). Fensoil shall not be used.

Soil shall be shredded and passed through a 4mm screen:

**Stone content:** less than 10% > 2mm

**Organic content:** 2% - 10% by weight (LOI)

**pH:** 4 – 7



Organic Content of soil 2% to 12%. Dependent on type of installation

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Advanced Turf

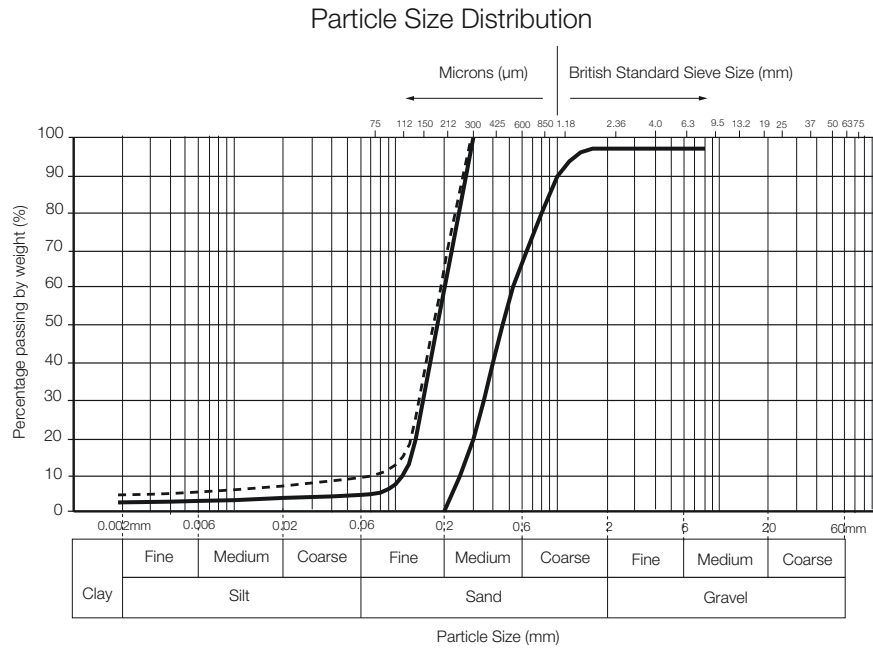
# Netlon R300 Rootzone Product Specification (continued)

## R300 ROOTZONE PARAMETERS

**Total porosity:** 30% - 50%  
**Aeration porosity:** 20% - 30%  
**Capillary porosity:** 10% - 25%  
**Bulk density:** 1.2 - 1.7 g/cm<sup>3</sup>

**Water retention:** 10% - 20%  
**Hydraulic conductivity:** 50 - 120mm/hr  
**Organic matter content:** 0.7% - 3% (LOI)  
**pH:** 5.5 - 7.5

Grading curve defining Netlon Advanced Turf rootzones



The 2 solid lines on the above chart indicate the upper and lower limits for particle size in a sports application. The dotted line indicates the increased limit for finer particles when R300 is selected for non-sports applications. Particle size must fall within range

## MIXING AND STORAGE

Screened soil shall be kept covered prior to blending

Blending operation must not be carried out during periods of rainfall. This can adversely affect the rootzone properties.

All materials must be stockpiled on a clean surface, free from stones and other debris.

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