

# Boughton Lightweight Subsoil Substrate



## Product information

Boughton Lightweight Subsoil Substrate is an essential part of most soil profiles, used before topsoil to provide added moisture storage and reduce the rate of water run-off.

Subsoil is low in organic matter, profiling a mixture of sand, silt and clay, with over 50% of its particles ranging in size from 0.25mm to 0.5mm.

## Application

Boughton Lightweight Subsoil Substrate is available for all your green roof or podium projects. If the standard product does not meet any weight limitations, the subsoil can be blended to suit your specifications.

## Installation details

Boughton Subsoil can be laid to depths varying from 100 / 500 mm. The depth of substrate is determined by the planting scheme and the weight loading capability of the roof/podium which must be assessed by a qualified structural engineer.



## Delivery info

Boughton Lightweight Subsoil Substrate can be delivered in any required format. This includes 25ltr and IBC Bulk bags. Or loose tipped as required.



**Boughton Loam Ltd**

Telford Way Industrial Estate, Telford Way, Kettering, Northamptonshire NN16 8UN

T 01536510515

E [enquiries@boughton.co.uk](mailto:enquiries@boughton.co.uk)

Parameter	Unit	BS8601:2013 Range	Result	Compliance
<b>Texture</b>				
Clay (<0.002mm)	% w l w	5-30%	10	Yes
Silt (0.002-0.63mm)	% w l w	0-65%	6	Yes
Sand (0.063-2.0mm)	% w l w	20-90%	84	Yes
<b>Textual Class:</b>		<b>Loamy Sand</b>		
Stones (2-20mm)	%w/wDW	40%	1.9	Yes
Stones (20-75mm)	%w/wDW	20%	1.1	Yes
Stones (>75mm)	%w/wDW	0%	0.0	Yes
<b>Sand Fraction (USGA Sieve Sizes)</b>				
Very Fine Sand (0.05-0.15mm)	% w l w	n/a	4	
Fine Sand (0.15-0.25mm)	% w l w	n/a	25	
Medium Sand (0.25-0.50mm)	% w l w	n/a	40	
Coarse Sand (0.50 -1.0mm)	% w l w	n/a	10	
Very Coarse Sand (1.0-2.0mm)	% w l w	n/a	5	
<b>Organic Matter (LOI)</b>	% w l w	0.0-2.0%	1.4	Yes
<b>Ph</b>		5.5-7.5	8.2	Yes
<b>Phytotoxic Contaminants:</b>				
Total Zinc	Mg/kg	0-200	64.5	Yes
Total Copper	Mg/kg	2-135	4.1	Yes
Total Nickel	Mg/kg	0-75	39.9	Yes
<b>Available Nutrients:</b>				
Phosphorus	Mg/l	n/a	19	
Potassium	Mg/l	n/a	44	
Magnesium	Mg/l	n/a	49	
<b>Additional Analysis:</b>				
Available Sodium	Mg/l	n/a	9.0	
Available Calcium	Mg/l	n/a	880	
Electrical Conductivity (CaSO4 extract)	µSiem	n/a	1928	
Calcium Carbonate	%	n/a	0.5	

**Boughton Loam Ltd**

Telford Way Industrial Estate, Telford Way, Kettering, Northamptonshire NN16 8UN

T 01536510515

E [enquiries@boughton.co.uk](mailto:enquiries@boughton.co.uk)

Parameter	Unit	Guidelines	Value	Result	Compliance
<b>Heavy Metal and Hydrocarbons</b>					
Total Arsenic (As)	Mg/kg	S4UL	<37	31.4	Yes
Total Cadmium (Cd)	Mg/kg	S4UL	<11	0.12	Yes
Total Chromium (Cr)	Mg/kg	SIUL	<910	83.4	Yes
Total Cyanide (Cn)	Mg/kg	Dutch Action Value (DAV)	<20	<1	Yes
Total Lead (Pb)	Mg/kg	SP1010 (Defra Category 4)	<200	12.9	Yes
Total Mercury (Hg)	Mg/kg	S4UL	<1.2	<0.2	Yes
Total (mono) Phenols	Mg/kg	S4UL	<500	<1	Yes
Total Selenium (Se)	Mg/kg	S4UL	<250	0.31	Yes
Acenaphthylene	Mg/kg	S4UL	<420	<0.05	Yes
Acenaphthene	Mg/kg	S4UL	<510	<0.05	Yes
Anthracene	Mg/kg	S4UL	<5400	<0.05	Yes
Benzo (a) Anthracene	Mg/kg	S4UL	<11	<0.1	Yes
Benzo (a) Pyrene	Mg/kg	S4UL	<2.7	<0.1	Yes
Benzo (b) Fluoranthene	Mg/kg	S4UL	<3.3	<0.1	Yes
Benzo (g,h,i) Perylene	Mg/kg	S4UL	<340	<0.1	Yes
Benzo (k) Fluoranthene	Mg/kg	S4UL	<93	<0.1	Yes
Chrysene	Mg/kg	S4UL	<22	<0.1	Yes
Dibenzo (a,h) Anthracene	Mg/kg	S4UL	<0.28	<0.1	Yes
Fluoranthene	Mg/kg	S4UL	<560	<0.1	Yes
Fluorene	Mg/kg	S4UL	<400	<0.05	Yes
Indeno (1,2,3-cd) Pyrene	Mg/kg	S4UL	<36	<0.1	Yes
Naphthalene	Mg/kg	S4UL	<5.6	<0.05	Yes
Phenanthrene	Mg/kg	S4UL	<220	<0.1	Yes
Pyrene	Mg/kg	S4UL	<1200	<0.1	Yes

- All reports originate from **samples** collected in accordance with the guidelines laid out in the BS3882:2015 standard.
- **Tests** of this material are carried out a minimum of every 6 months.

**Boughton Loam Ltd**

Telford Way Industrial Estate, Telford Way, Kettering, Northamptonshire NN16 8UN  
 T 01536510515  
 E [enquiries@boughton.co.uk](mailto:enquiries@boughton.co.uk)