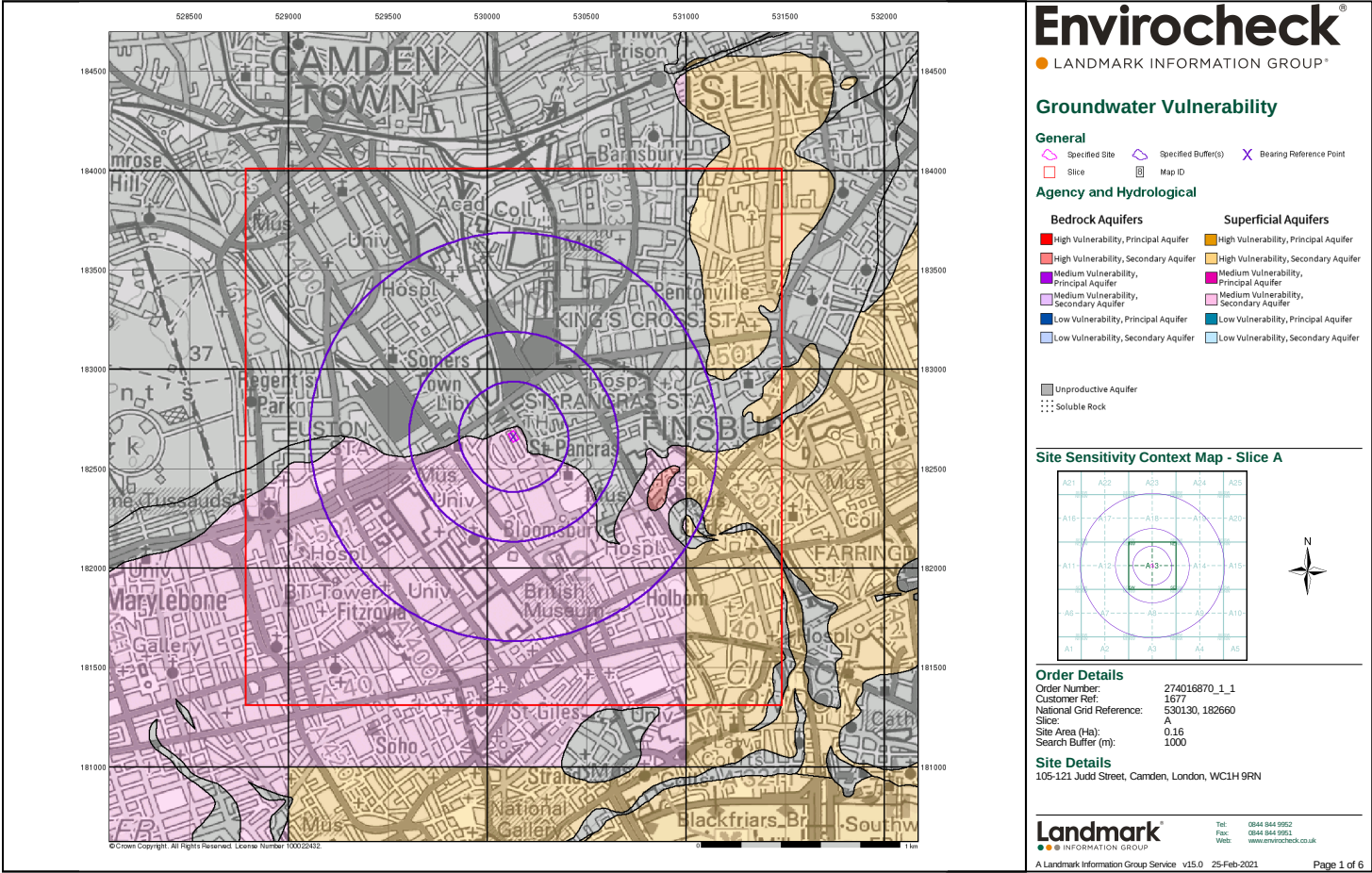
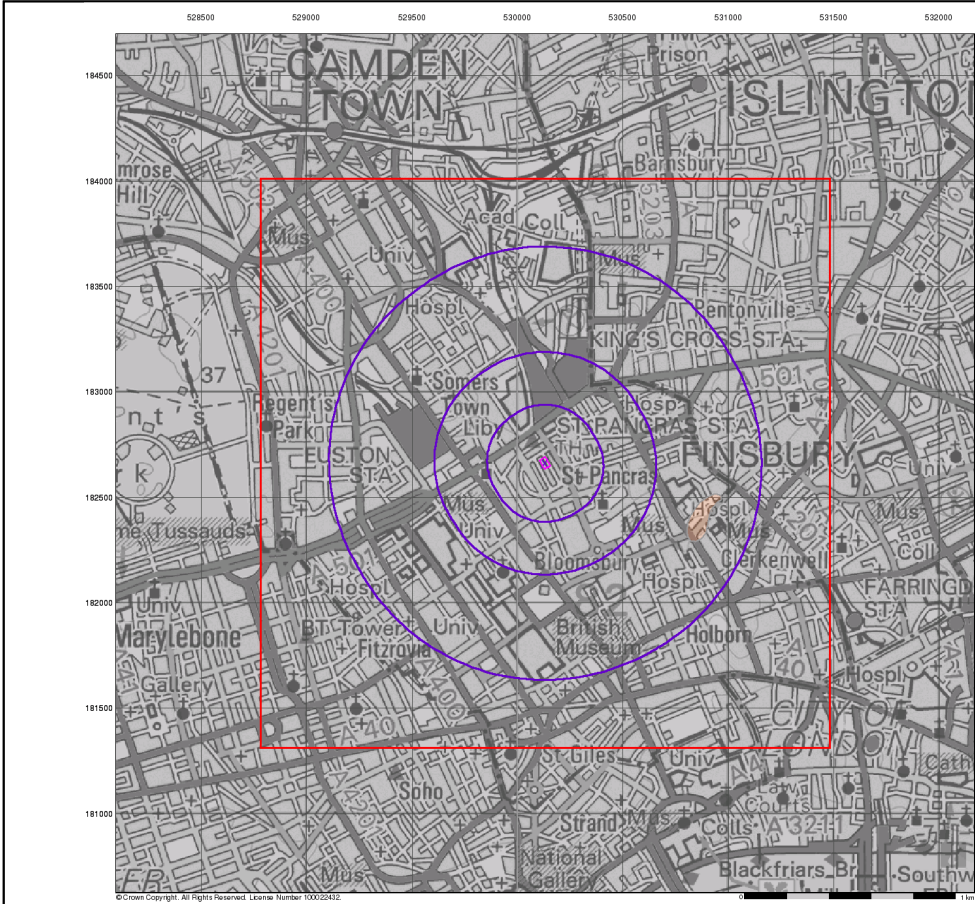


Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	London Borough of Camden - Pollution Projects Team Seventh Floor, Town Hall Extension, Argyle Street, London, WC1H 8EQ	Telephone: 020 7278 4444 Fax: 020 7860 5713 Website: www.camden.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	London Borough of Camden Town Hall, Judd Street, London, WC1H 9JE	Telephone: 020 7974 4444 Fax: 020 7974 6866 Email: info@camden.gov.uk Website: www.camden.gov.uk
7	London Borough of Islington - Environmental Health Department 159 Upper Street, Islington, London, N1 1RE	Telephone: 020 7527 2000 Fax: 020 7477 3057 Website: www.islington.gov.uk
8	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
9	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
10	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
11	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
12	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.





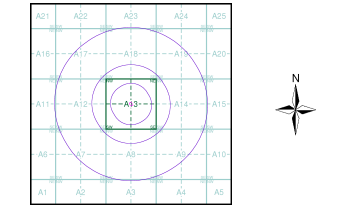
Envirocheck

LANDMARK INFORMATION GROUP

Bedrock Aquifer Designation

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Agency and Hydrological**
- Geological Classes**
- Principal Aquifer
 - Secondary A Aquifer
 - Secondary B Aquifer
 - Secondary Undifferentiated
 - Unproductive Strata
 - Unknown
 - Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

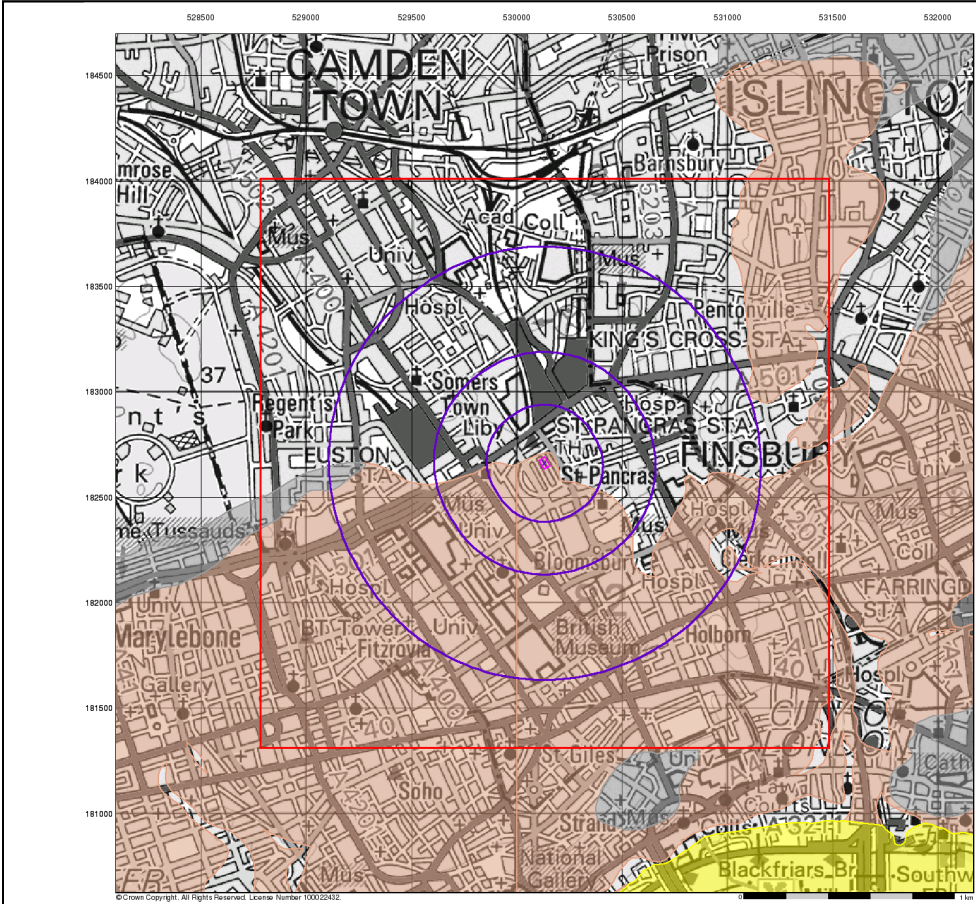
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Customer Ref: 1677
National Grid Reference: 530130, 182660
Slice: A
Site Area (Ha): 0.16
Search Buffer (m): 1000

Site Details

105-121 Judd Street, Camden, London, WC1H 9RN

Landmark
LANDMARK INFORMATION GROUP

Tel: 0844 944 9952
Fax: 0844 944 9953
Web: www.envirocheck.co.uk



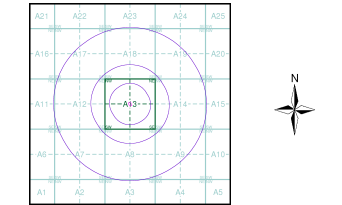
Envirocheck

LANDMARK INFORMATION GROUP

Superficial Aquifer Designation

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Agency and Hydrological**
- Geological Classes**
- Principal Aquifer
 - Secondary A Aquifer
 - Secondary B Aquifer
 - Secondary Undifferentiated
 - Unproductive Strata
 - Unknown
 - Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

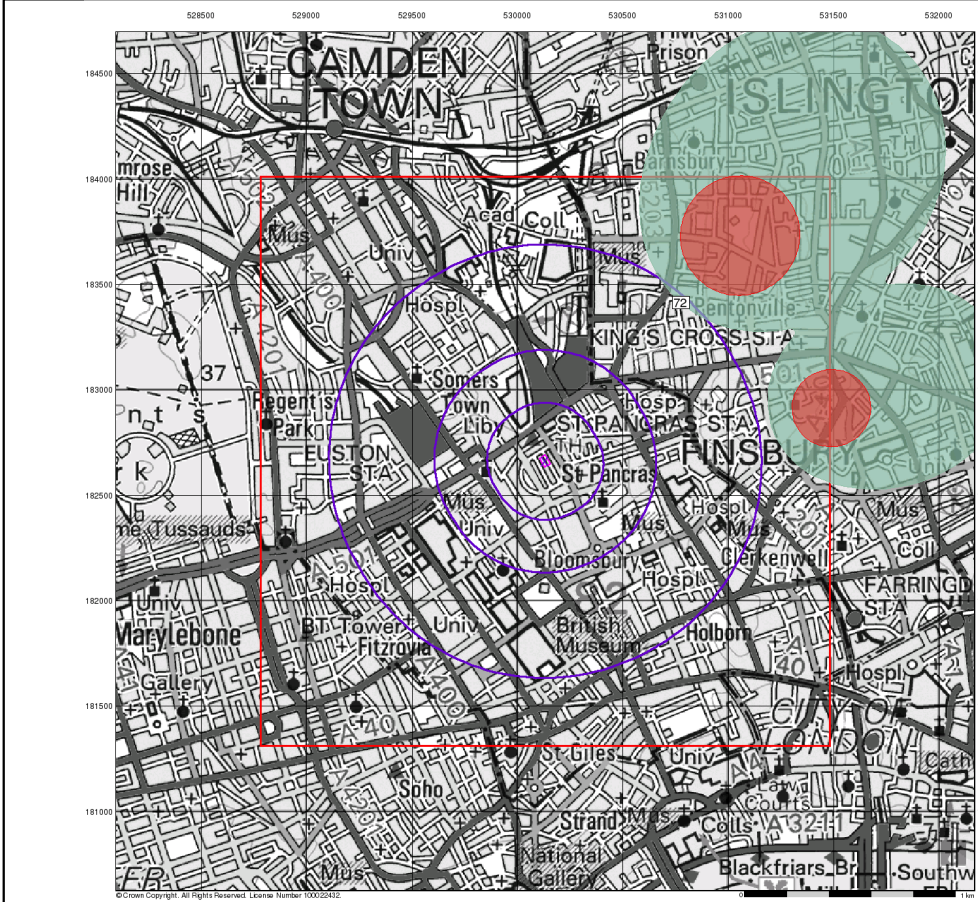
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Customer Ref: 1677
National Grid Reference: 530130, 182660
Slice: A
Site Area (Ha): 0.16
Search Buffer (m): 1000

Site Details

105-121 Judd Street, Camden, London, WC1H 9RN

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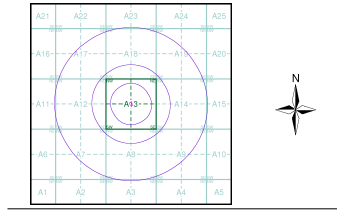
Envirocheck

LANDMARK INFORMATION GROUP*

Source Protection Zones

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Agency and Hydrological**
- Inner zone (Zone 1)
 - Inner zone - subsurface activity only (Zone 1c)
 - Outer zone (Zone 2)
 - Outer zone - subsurface activity only (Zone 2c)
 - Total catchment (Zone 3)
 - Total catchment - subsurface activity only (Zone 3c)
 - Special interest (Zone 4)

Site Sensitivity Context Map - Slice A

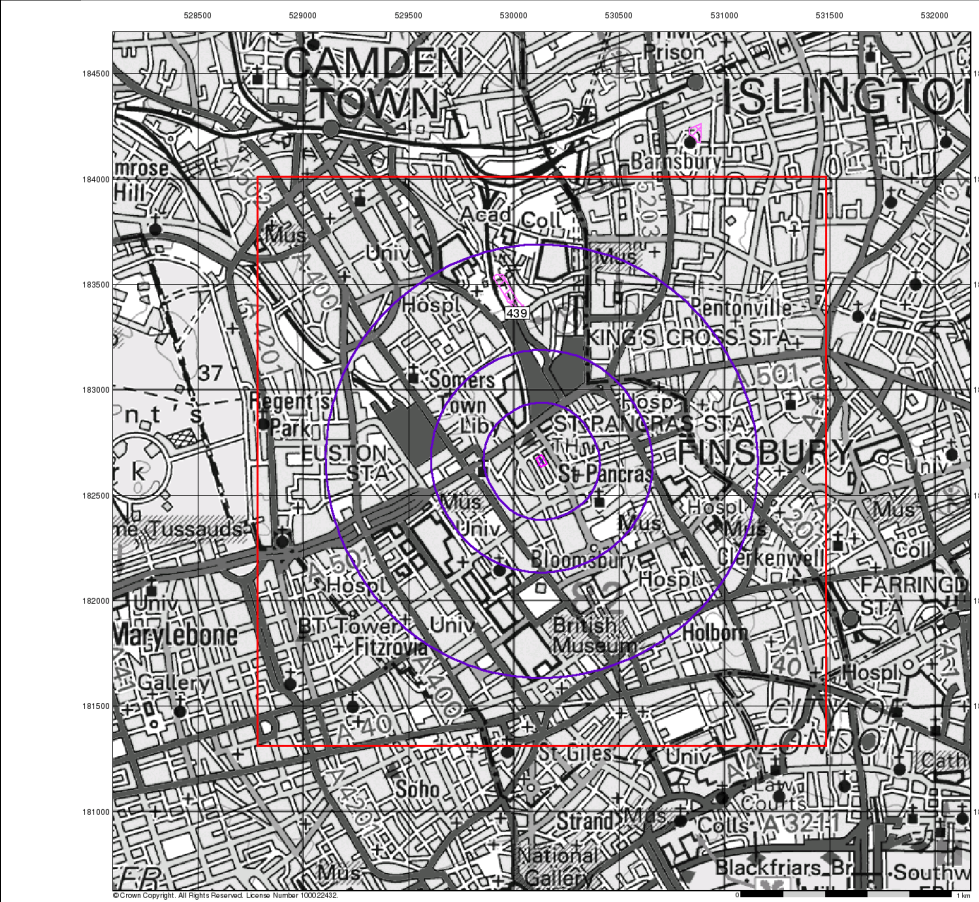


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Customer Ref: 1677
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Site Area (Ha): 0.16
Search Buffer (m): 1000

Site Details

105-121 Judd Street, Camden, London, WC1H 9RN



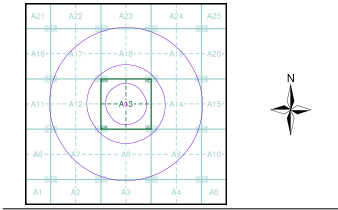
Envirocheck

LANDMARK INFORMATION GROUP*

Sensitive Land Uses

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Sensitive Land Uses**
- Ancient Woodland
 - Area of Adopted Green Belt
 - Area of Outstanding Natural Beauty
 - Environmentally Sensitive Area
 - Forest Park
 - Local Nature Reserve
 - Marine Nature Reserve
 - National Nature Reserve
 - National Park
 - Nitrate Sensitive Area
 - Nitrate Vulnerable Zone
 - Ramsar Site
 - Site of Special Scientific Interest
 - Special Area of Conservation
 - Special Protection Area
 - World Heritage Sites

Site Sensitivity Context Map - Slice A

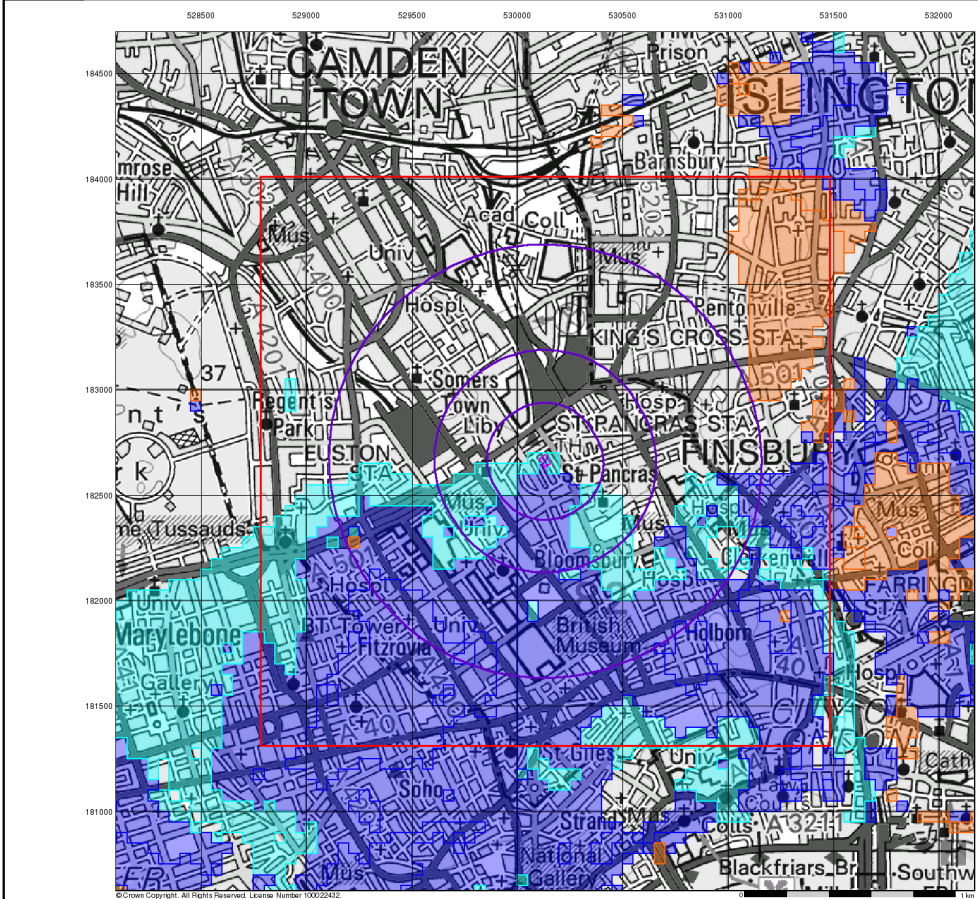


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Customer Ref: 1677
National Grid Reference: 530130, 182660
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Search Buffer (m): 1000

Site Details

105-121 Judd Street, Camden, London, WC1H 9RN



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LANDMARK INFORMATION GROUP

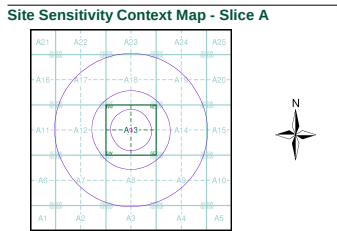
BGS Flood GFS Data

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

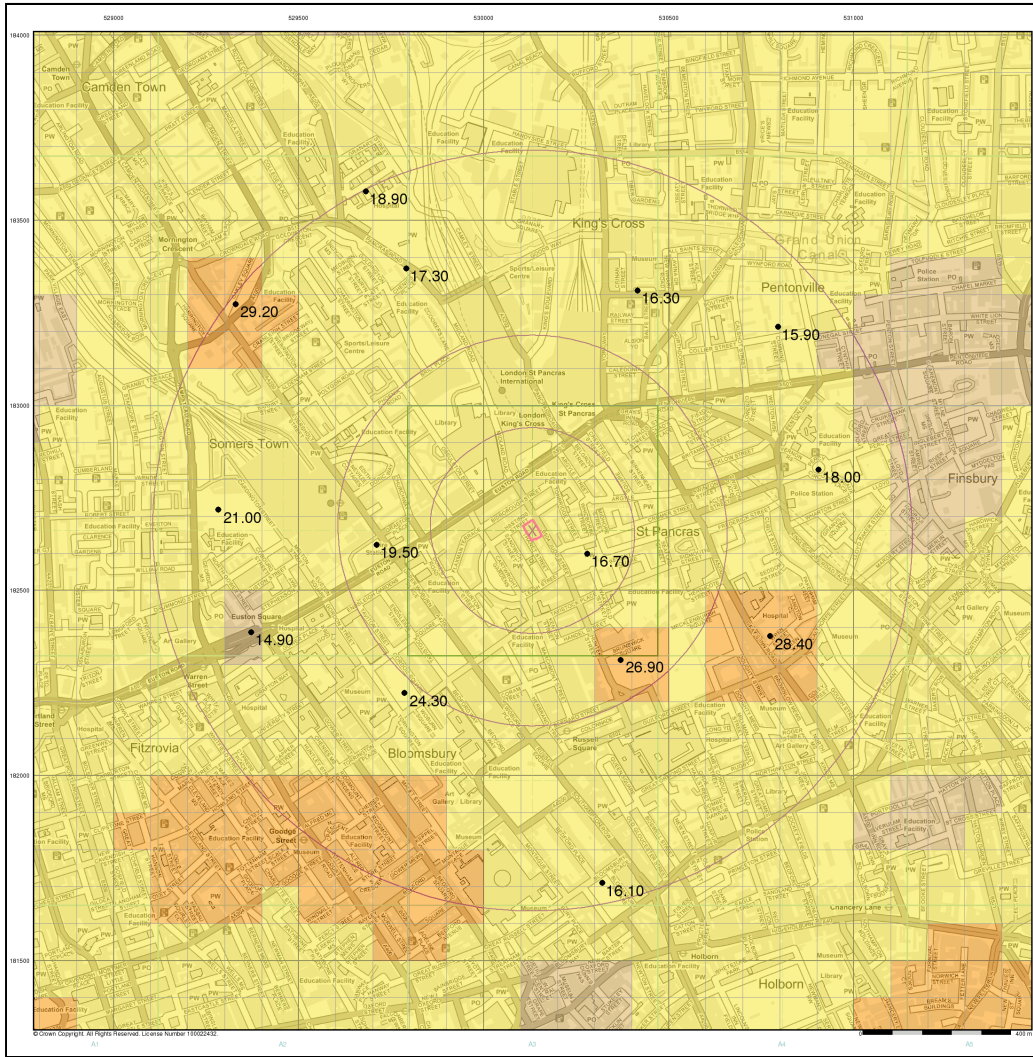


Order Details

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National Grid Reference: 530130, 182660
Slice: A
Site Area (Ha): 0.16
Search Buffer (m): 1000

Site Details

105-121 Judd Street, Camden, London, WC1H 9RN



Envirocheck

LANDMARK INFORMATION GROUP

General

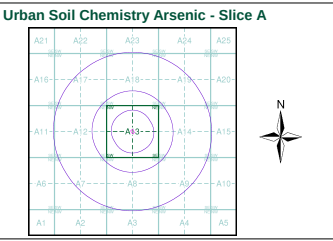
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Urban Soil Chemistry Arsenic

BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120



Order Details

Order Details: 274016870_1_1
Customer Ref: 1677
National Grid Reference: 530130, 182660
Slice: A
Site Area (Ha): 0.16
Search Buffer (m): 1000

Site Details

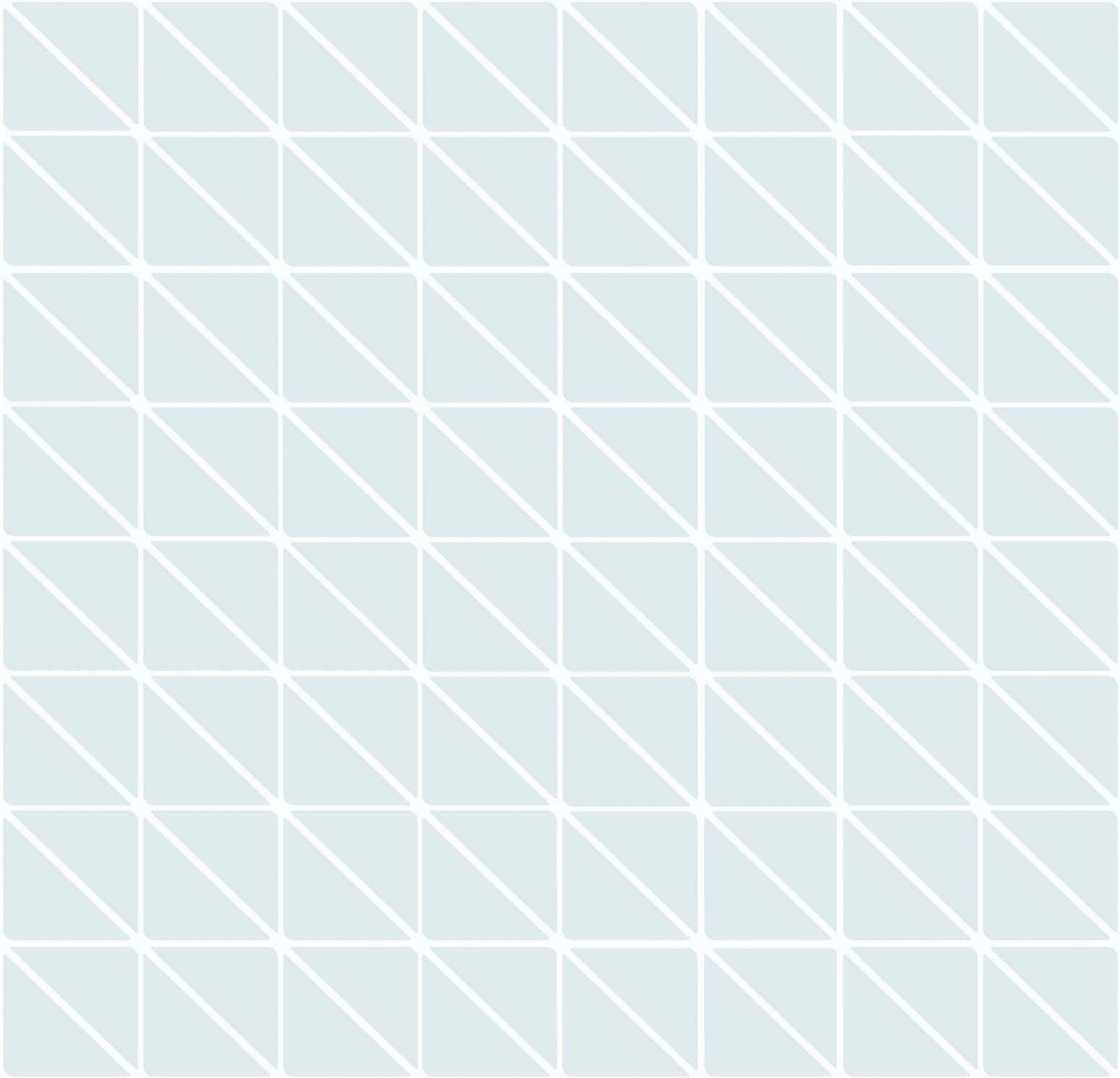
105-121 Judd Street, Camden, London, WC1H 9RN



A2 Site Investigation

A2 Site Investigation Limited
One Westminster Bridge Rd
London, SE1 7XW

020 7620 2868
info@a2-si.com
www.a2-si.com



Appendix K

Blue Roof Manufacturer Calculation

ACO Blue Roof Calculator Version 1.0.0.36

Project Title	Design Number
105-121 Judd Street	
Notes / Reference	
Blue Roof 2	

Design Storm Event	1:100
Climate Change %	40%
Location	London
Roof Area m²	325.4
Additional Contributing Areas (m²)	
Total Catchment Area (m²)	325.4
Net Roof Area (m²)	228.3
Permitted Outflow (l/s)	0.800
Blue or Blue/Green Roof	Blue / Green
If B/G, Green Roof Type	Extensive
a. Permanent reservoir above or in storage void	None
b. Required Reservoir Depth (mm)	
Required Net Storm Storage Volume (m³)	24.36
Total Net Volume Required (m³)	24.36
Void Ratio	0.90
Selected depth of storage tank (mm)	125

Structural Load Calculations

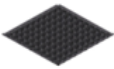
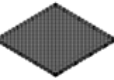
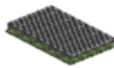
Item	kN/m²
Weight of Product (Tank / Cell)	0.154
Weight of Product (Tray)	0.000
Geotextile	0.004
Weight of Permanent Storage	0.000
Weight of Stormwater Storage	1.103

R: l/s

M5-60: mm/h

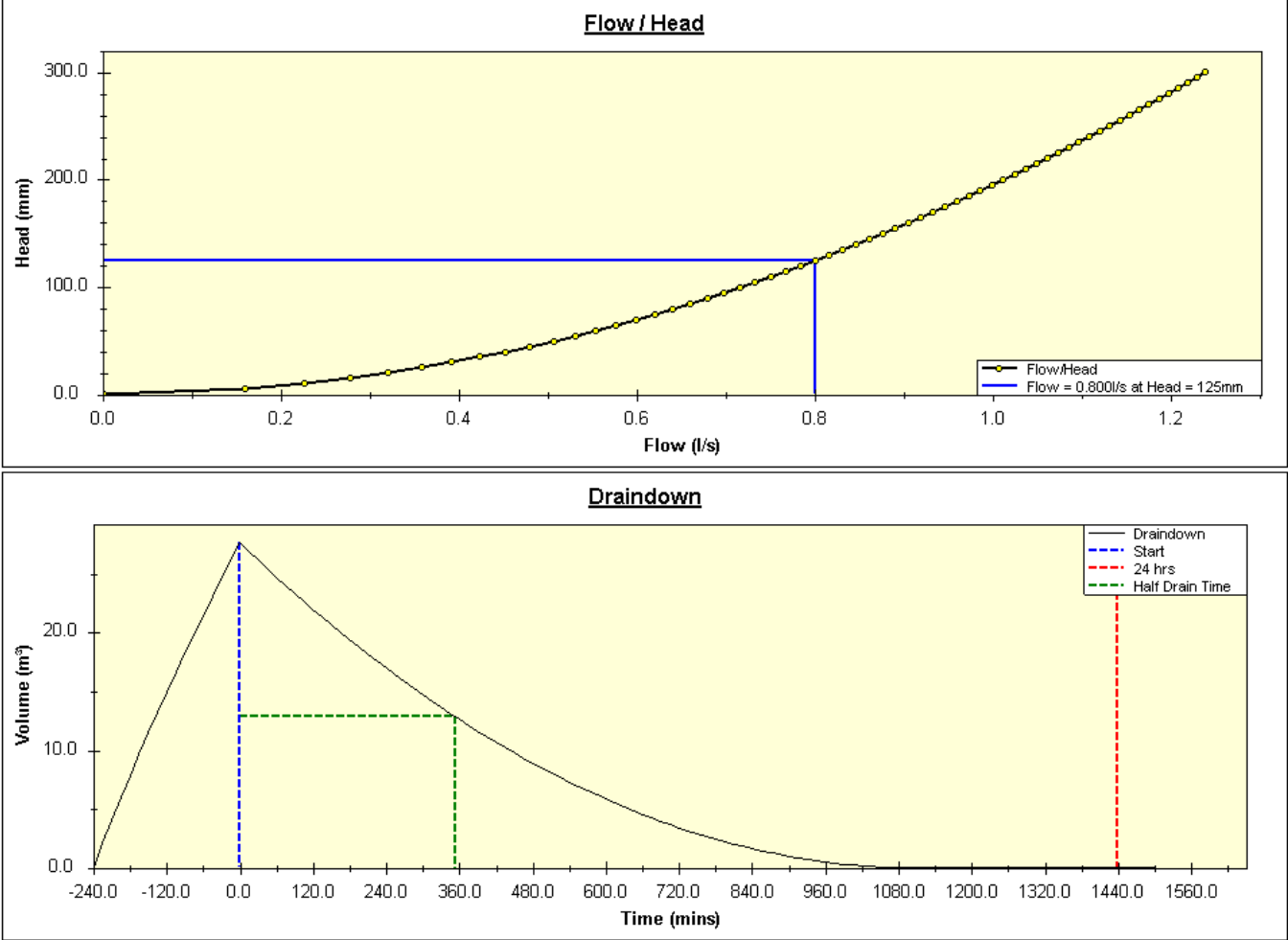
DURATION (mins)	INTENSITY (mm/h)	REQUIRED STORAGE VOLUME (m³)
5 mins	454.83	12.09
10 mins	270.07	14.17
15 mins	177.91	13.75
30 mins	114.46	17.18
1 hour	69.85	19.85
2 hours	44.74	23.36
4 hours	27.57	24.36
6 hours	20.22	22.19
10 hours	13.30	14.48
24 hours	6.17	0.00
48 hours	3.30	0.00

Half Draindown time: 354 mins



Required (m²)	Depth (mm)	Gross Volume (m³)	Net Volume (m³)	Layers Required	Product No.	Description	Qty	Unit
228.3	125	28.54	25.68	1	110002	RoofBloxx Tank 125	914	pcs
228.3	30	6.85	6.51	1	110008	RoofBloxx Cell 30	913	pcs
0	0	0	0	0			0	pcs
0					110011	Capillary Wicking Rope	0	Rolls
240					27041	ACOTex Plus Protection Fleece (300gsm) 100 x 4.0m	1	Rolls
240					27038	ACOTex Filter geotextile (125gsm) 100 x 4.0m	1	Rolls

Level & Draindown Graphs



ACO Technologies plc
ACO Business Park, Hitchin Road, Shefford, Bedfordshire SG17 5TE
Tel: 01462 816666 Fax: 01462 815895
email: technologies@aco.co.uk website: www.aco.co.uk

For our dedicated stormwater management team, please contact:
uk-swc@aco.co.uk Tel: 01462 816666

ACO Blue Roof Calculator Version 1.0.0.36

Project Title

105-121 Judd Street

Design Number

Notes / Reference

Blue Roof 3



Design Storm Event	1:100
Climate Change %	40%
Location	London
Roof Area m²	66.1
Additional Contributing Areas (m²)	
Total Catchment Area (m²)	66.1
Net Roof Area (m²)	38.8
Permitted Outflow (l/s)	0.250
Blue or Blue/Green Roof	Blue / Green
If B/G, Green Roof Type	Extensive
a. Permanent reservoir above or in storage void	None
b. Required Reservoir Depth (mm)	
Required Net Storm Storage Volume (m³)	4.12
Total Net Volume Required (m³)	4.12
Void Ratio	0.90
Selected depth of storage tank (mm)	125

R: l/s

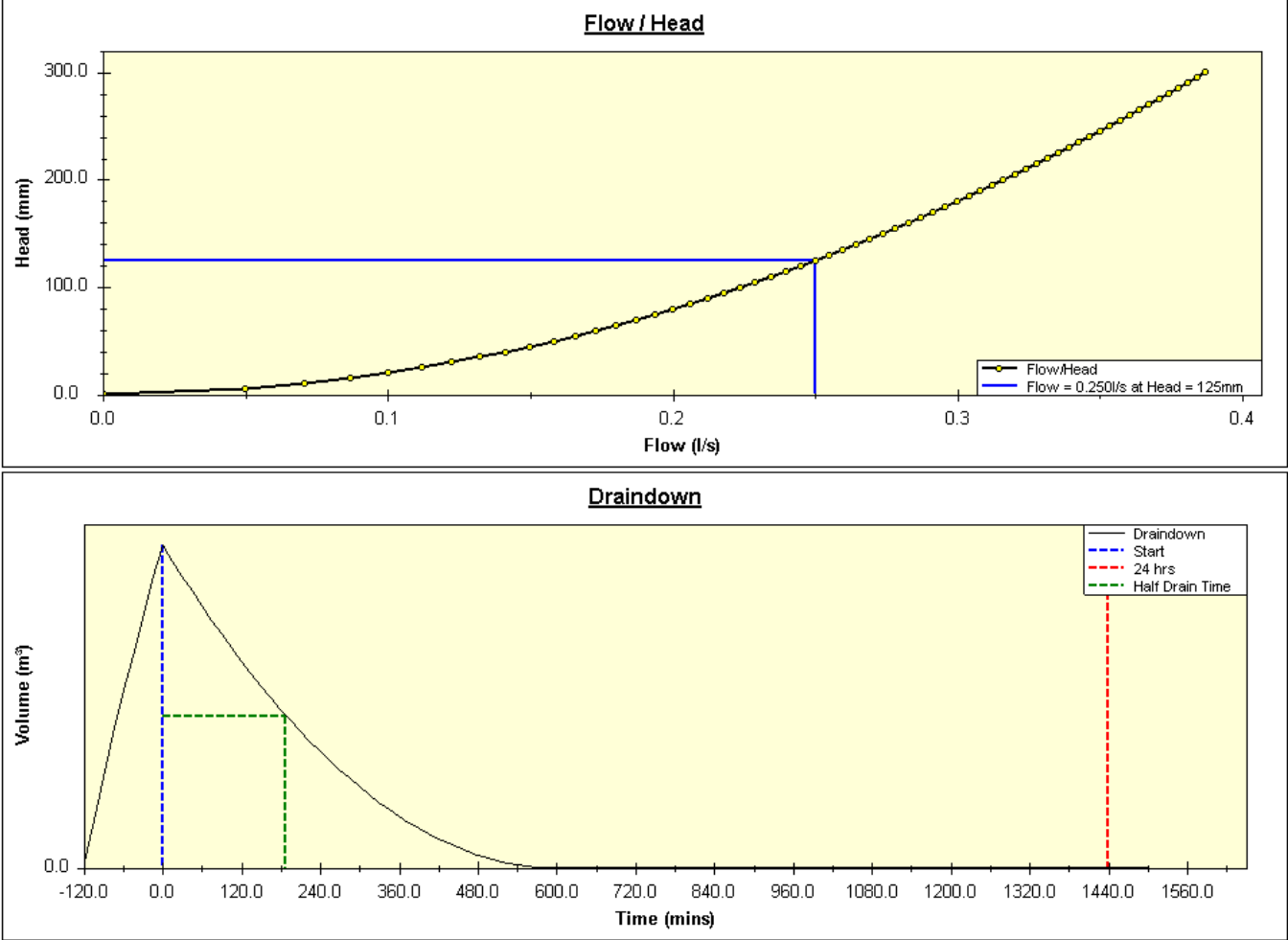
M5-60: mm/h

DURATION (mins)	INTENSITY (mm/h)	REQUIRED STORAGE VOLUME (m³)
5 mins	454.83	2.43
10 mins	270.07	2.83
15 mins	177.91	2.71
30 mins	114.46	3.33
1 hour	69.85	3.72
2 hours	44.74	4.12
4 hours	27.57	3.69
6 hours	20.22	2.62
10 hours	13.30	0.00
24 hours	6.17	0.00
48 hours	3.30	0.00

Item	kN/m²
Weight of Product (Tank / Cell)	0.155
Weight of Product (Tray)	0.000
Geotextile	0.004
Weight of Permanent Storage	0.000
Weight of Stormwater Storage	1.103

Half Draindown time: 188 mins

Level & Draindown Graphs



	Required (m²)	Depth (mm)	Gross Volume (m³)	Net Volume (m³)	Layers Required	Product No.	Description	Qty	Unit
	38.8	125	4.85	4.37	1	110002	RoofBloxx Tank 125	156	pcs
	38.8	30	1.16	1.11	1	110008	RoofBloxx Cell 30	155	pcs
	0	0	0	0	0			0	pcs
	0					110011	Capillary Wicking Rope	0	Rolls
	41					27041	ACOTex Plus Protection Fleece (300gsm) 100 x 4.0m	1	Rolls
	41					27038	ACOTex Filter geotextile (125gsm) 100 x 4.0m	1	Rolls

ACO Technologies plc
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Tel: 01462 816666 Fax: 01462 815895
email: technologies@aco.co.uk website: www.aco.co.uk

For our dedicated stormwater management team, please contact:
uk-swc@aco.co.uk Tel: 01462 816666

ACO Blue Roof Calculator Version 1.0.0.36

Project Title

105-121 Judd Street

Design Number

Notes / Reference

Blue Roof 4



Design Storm Event	1:100
Climate Change %	40%
Location	London
Roof Area m²	5.4
Additional Contributing Areas (m²)	
Total Catchment Area (m²)	5.4
Net Roof Area (m²)	5.4
Permitted Outflow (l/s)	0.070
Blue or Blue/Green Roof	Blue / Green
If B/G, Green Roof Type	Extensive
a. Permanent reservoir above or in storage void	None
b. Required Reservoir Depth (mm)	
Required Net Storm Storage Volume (m³)	0.20
Total Net Volume Required (m³)	0.20
Void Ratio	0.90
Selected depth of storage tank (mm)	85

R: l/s

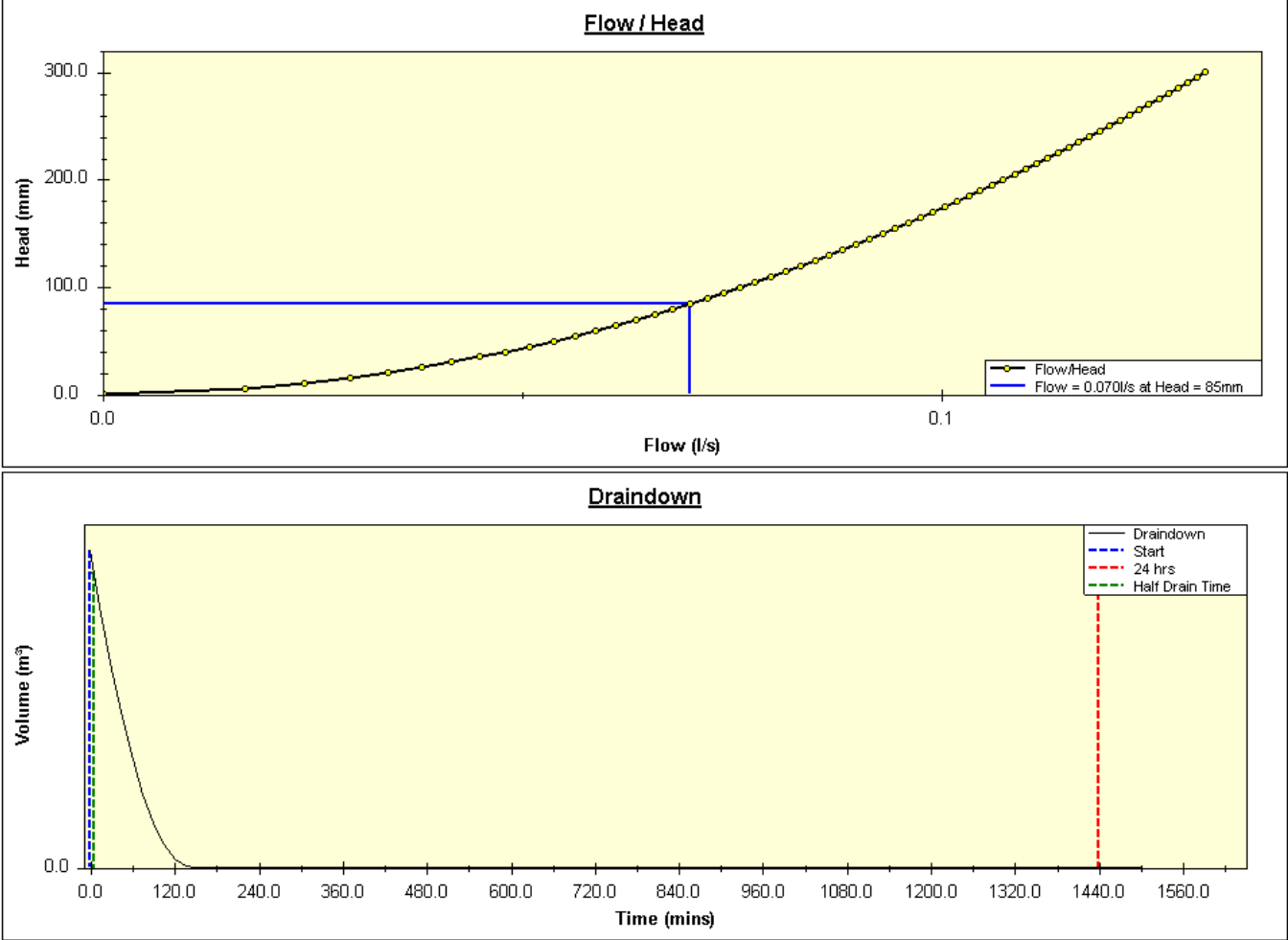
M5-60: mm/h

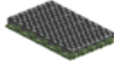
DURATION (mins)	INTENSITY (mm/h)	REQUIRED STORAGE VOLUME (m³)
5 mins	454.83	0.18
10 mins	270.07	0.20
15 mins	177.91	0.18
30 mins	114.46	0.18
1 hour	69.85	0.13
2 hours	44.74	0.00
4 hours	27.57	0.00
6 hours	20.22	0.00
10 hours	13.30	0.00
24 hours	6.17	0.00
48 hours	3.30	0.00

Item	kN/m²
Weight of Product (Tank / Cell)	0.112
Weight of Product (Tray)	0.000
Geotextile	0.005
Weight of Permanent Storage	0.000
Weight of Stormwater Storage	0.750

Half Draindown time: 5 mins

Level & Draindown Graphs



	Required (m²)	Depth (mm)	Gross Volume (m³)	Net Volume (m³)	Layers Required	Product No.	Description	Qty	Unit
	5.4	85	0.46	0.41	1	110001	RoofBloxx Tank 85	22	pcs
	5.4	30	0.16	0.15	1	110008	RoofBloxx Cell 30	21	pcs
	0	0	0	0	0			0	pcs
	0					110011	Capillary Wicking Rope	0	Rolls
	6					27041	ACOTex Plus Protection Fleece (300gsm) 100 x 4.0m	1	Rolls
	6					27038	ACOTex Filter geotextile (125gsm) 100 x 4.0m	1	Rolls

ACO Technologies plc
ACO Business Park, Hitchin Road, Shefford, Bedfordshire SG17 5TE
Tel: 01462 816666 Fax: 01462 815895
email: technologies@aco.co.uk website: www.aco.co.uk

For our dedicated stormwater management team, please contact:
uk-swc@aco.co.uk Tel: 01462 816666

ACO Blue Roof Calculator Version 1.0.0.36

Project Title

105-121 Judd Street

Design Number

Notes / Reference

Blue Roof 5



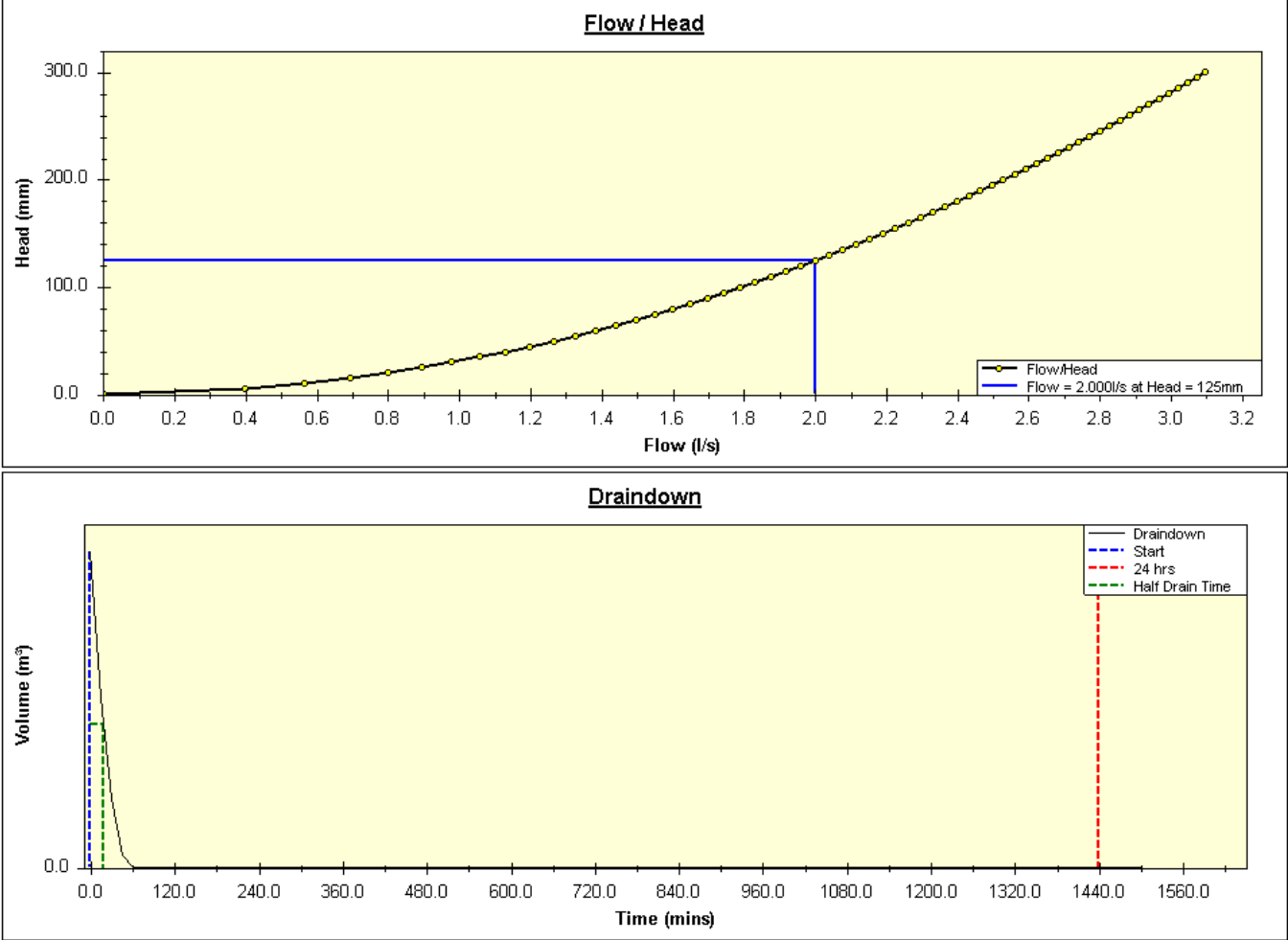
Design Storm Event	1:100
Climate Change %	40%
Location	London
Roof Area m²	98.0
Additional Contributing Areas (m²)	
Total Catchment Area (m²)	98.0
Net Roof Area (m²)	28.7
Permitted Outflow (l/s)	2.000
Blue or Blue/Green Roof	Blue / Green
If B/G, Green Roof Type	Extensive
a. Permanent reservoir above or in storage void	None
b. Required Reservoir Depth (mm)	
Required Net Storm Storage Volume (m³)	3.21
Total Net Volume Required (m³)	3.21
Void Ratio	0.90
Selected depth of storage tank (mm)	125

R:		l/s
M5-60:		mm/h
DURATION (mins)	INTENSITY (mm/h)	REQUIRED STORAGE VOLUME (m³)
5 mins	454.83	3.11
10 mins	270.07	3.21
15 mins	177.91	2.56
30 mins	114.46	2.01
1 hour	69.85	0.00
2 hours	44.74	0.00
4 hours	27.57	0.00
6 hours	20.22	0.00
10 hours	13.30	0.00
24 hours	6.17	0.00
48 hours	3.30	0.00

Item	kN/m²
Weight of Product (Tank / Cell)	0.154
Weight of Product (Tray)	0.000
Geotextile	0.005
Weight of Permanent Storage	0.000
Weight of Stormwater Storage	1.103

Half Draindown time: 18 mins

Level & Draindown Graphs



	Required (m²)	Depth (mm)	Gross Volume (m³)	Net Volume (m³)	Layers Required	Product No.	Description	Qty	Unit
	28.7	125	3.59	3.23	1	110002	RoofBloxx Tank 125	115	pcs
	28.7	30	0.86	0.82	1	110008	RoofBloxx Cell 30	114	pcs
	0	0	0	0	0			0	pcs
	0					110011	Capillary Wicking Rope	0	Rolls
	31					27041	ACOTex Plus Protection Fleece (300gsm) 100 x 4.0m	1	Rolls
	31					27038	ACOTex Filter geotextile (125gsm) 100 x 4.0m	1	Rolls

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For our dedicated stormwater management team, please contact:
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ACO Blue Roof Calculator Version 1.0.0.36

Project Title	Design Number
105-121 Judd Street	
Notes / Reference	
Blue Roof 1	



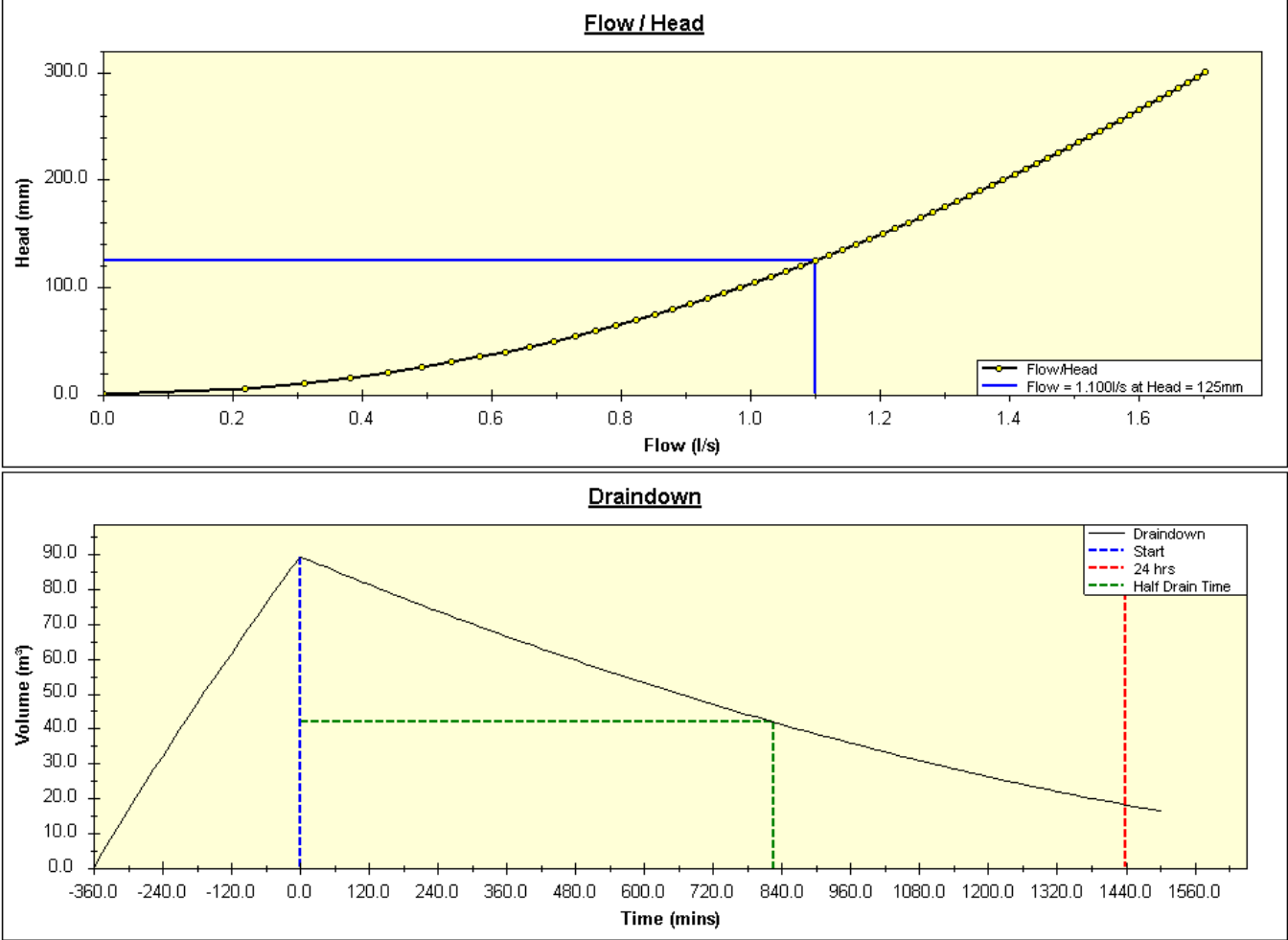
Design Storm Event	1:100
Climate Change %	40%
Location	London
Roof Area m ²	873.2
Additional Contributing Areas (m ²)	
Total Catchment Area (m²)	873.2
Net Roof Area (m ²)	743.5
Permitted Outflow (l/s)	1.100
Blue or Blue/Green Roof	Blue / Green
If B/G, Green Roof Type	Extensive
a. Permanent reservoir above or in storage void	None
b. Required Reservoir Depth (mm)	
Required Net Storm Storage Volume (m ³)	82.16
Total Net Volume Required (m ³)	82.16
Void Ratio	0.90
Selected depth of storage tank (mm)	125

R:		l/s
M5-60:		mm/h
DURATION (mins)	INTENSITY (mm/h)	REQUIRED STORAGE VOLUME (m ³)
5 mins	454.83	32.77
10 mins	270.07	38.64
15 mins	177.91	37.85
30 mins	114.46	47.99
1 hour	69.85	57.03
2 hours	44.74	70.22
4 hours	27.57	80.44
6 hours	20.22	82.16
10 hours	13.30	76.54
24 hours	6.17	34.35
48 hours	3.30	0.00

Structural Load Calculations	
Item	kN/m ²
Weight of Product (Tank / Cell)	0.154
Weight of Product (Tray)	0.000
Geotextile	0.004
Weight of Permanent Storage	0.000
Weight of Stormwater Storage	1.103

Half Draindown time: 825 mins

Level & Draindown Graphs



	Required (m ²)	Depth (mm)	Gross Volume (m ³)	Net Volume (m ³)	Layers Required	Product No.	Description	Qty	Unit
	743.5	125	92.94	83.64	1	110002	RoofBloxx Tank 125	2974	pcs
	743.5	30	22.31	21.19	1	110008	RoofBloxx Cell 30	2974	pcs
	0	0	0	0	0			0	pcs
	0					110011	Capillary Wicking Rope	0	Rolls
	781					27041	ACOTex Plus Protection Fleece (300gsm) 100 x 4.0m	2	Rolls
	781					27038	ACOTex Filter geotextile (125gsm) 100 x 4.0m	2	Rolls

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