



Insurance | Risk Management | Consulting

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Tel: 0191 479 7600
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Web www.ajg.com/uk

Genuit Group plc & Subsidiary Companies
4 Victoria Place
Holbeck
Leeds
LS11 5AE

Date 2nd January 2025

Our Reference: Emma Robinson

To Whom It May Concern

Genuit Group plc & Subsidiary Companies - Verification of Insurance

We act as insurance brokers to Genuit Group plc and Subsidiary Companies and confirm that we have arranged insurance on its behalf as detailed below:

Employers' Liability

Insurer: Chubb European Group SE / QBE UK Ltd
Policy Number: UKCAND36767 / Y142944QBE0724A
Period of Insurance: 1st January 2025 to 31st December 2025
Limit of Indemnity: £50,000,000 any one Occurrence

Public/Products Liability including Professional Indemnity Extension

Insurer: Chubb European Group SE / QBE UK Ltd
Policy Number: UKCAND36767 / Y142944QBE0724A
Period of Insurance: 1st January 2025 to 31st December 2025
Limit of Indemnity: £50,000,000 Public Liability any one Occurrence
£50,000,000 Products Liability any one Occurrence and in the aggregate for the Period of Insurance
£10,000,000 Professional Indemnity Any one claim and in the Aggregate costs and expenses inclusive (Professional Indemnity Extension added 31st January 2022)

The Employers' Liability and Public Liability sections of cover provide for an Indemnity to Principal.

Contract Works

Insurer: Zurich Insurance Company Ltd
Policy Number: JG291131
Period of Insurance: 1st January 2025 to 31st December 2025
Limit of Indemnity: £1,500,000 Any One Contract
Excess: £ 1,000 each and every claim
Works Description: Installation of attenuation tanks, gas protection, pond liners, cavity tray systems, water management systems. For the installation of Geomembranes and SUDS systems. For the installation of anti slip GRP planks, bridges and boardwalks and for the installation of green, brown and blue roofs, green walls and podiums

Cover on all policies is subject to the full terms, conditions limitations and exclusions and cancellation provisions of the relevant policy wording and may also be subject to warranties.

Arthur J. Gallagher Insurance Brokers Limited is authorised and regulated by the Financial Conduct Authority. Registered Office: Spectrum Building, 7th Floor, 55 Blythswood Street, Glasgow, G2 7AT. Registered in Scotland. Company Number: SC108909. www.ajg.com/uk

Cont.

This document is issued to you as a matter of information only and the issuance of this document does not:

- i) create any contractual relationship between Arthur J Gallagher Insurance Brokers Limited and the recipient
- ii) make the person or organisation to whom it has been issued an additional insured, nor does it modify in any manner the contract of insurance between the Insured and the Underwriters.

Any amendments, change or extension of such contract can only be effected by specific endorsement attached thereto with the consent of the Assured and the Underwriters.

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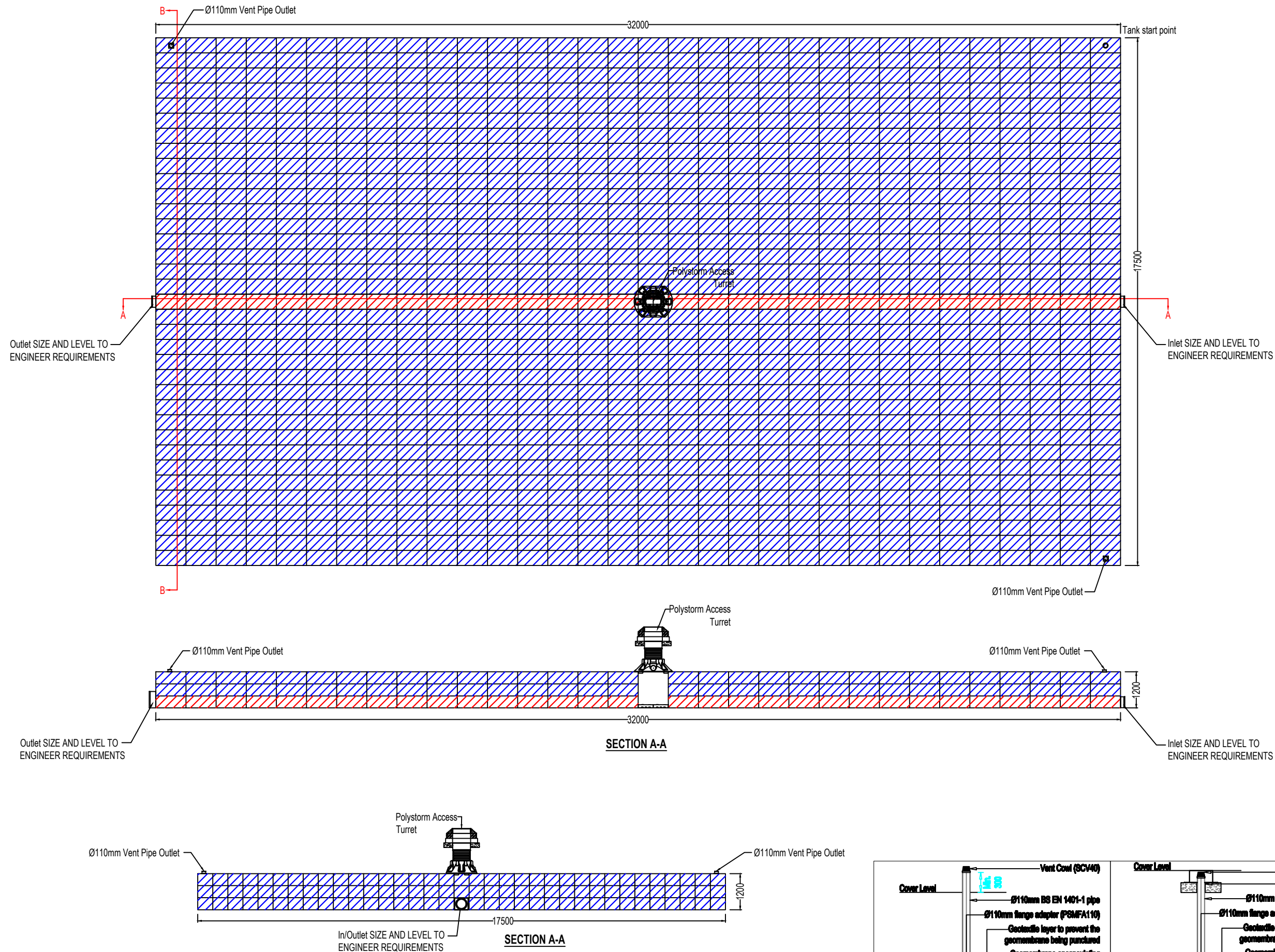
Should the insurance cover be cancelled, assigned or changed in any way during the period of insurance neither we nor the insurers accept any obligation to notify any recipient.

This letter shall be governed by and shall be construed in accordance with English law.

Yours faithfully



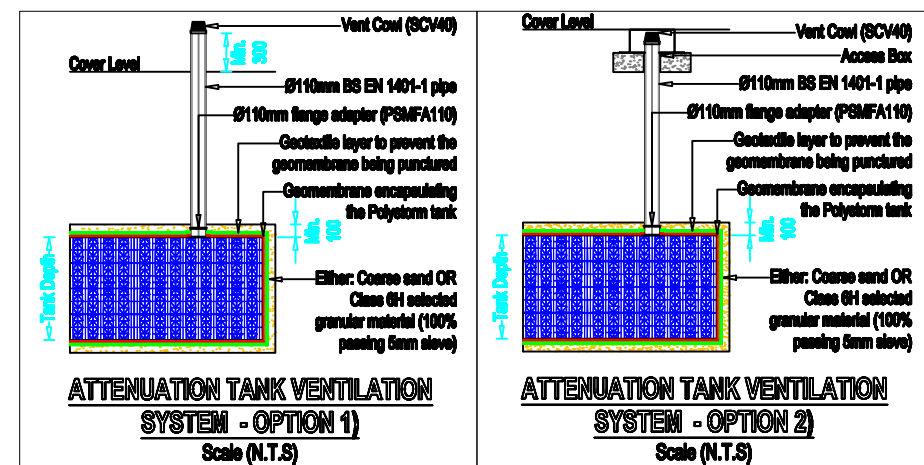
Emma Robinson
Account Handler
UK Retail
Direct: +44 (0) 191 479 7662
Email: emma_robinson1@ajg.com



PROPOSED POLYSTORM STRUCTURE	
Plan Area	560m ²
Tank Volume	672m ³
Storage	638.4m ³
Polystorm-R Units	3326 (PSM1A)
Polystorm-Inspect Units	31 (PSM4)

LEGEND:

- Polystorm-R Units (PSM1A)
- Polystorm-Inspect Units (PSM4)



NOTES:-

- THIS DRAWING DETAILS A PROPOSED POLYSTORM CIVILS & GREEN URBANISATION PRODUCT GENERAL ARRANGEMENT, REFLECTING OUR INTERPRETATION OF THE INFORMATION PROVIDED.
- POLYSTORM CIVILS & GREEN URBANISATION (PCGU) PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH PCGU RECOMMENDATIONS (REFER TO PCGU TECHNICAL GUIDANCE FOR FURTHER INFORMATION), GIVING DUE CONSIDERATION TO THE SITE SPECIFIC CONDITIONS AND REQUIREMENTS, IN ADDITION TO ANY REQUIREMENTS MANDATED BY THE RELEVANT APPROVING AND ULTIMATE OWNER ORGANISATIONS).
- DO NOT SCALE, REFER TO FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS IN MILLIMETRES, UNLESS OTHERWISE STATED.
- ALL DIMENSIONS ARE NOMINAL AND MAY VARY WITHIN MANUFACTURING OR CONSTRUCTION TOLERANCES.
- ALL SITE TEMPORARY AND ENABLING WORKS BY OTHERS.
- THIS DRAWING IS INTENDED FOR GUIDANCE ONLY. CONFIRMATION OF THE INFORMATION CONTAINED WITHIN THIS DOCUMENT SHOULD BE SOUGHT FROM THE OVERSEEING ENGINEER(S) PRIOR TO THE COMMENCEMENT OF FINAL DESIGN OR CONSTRUCTION ACTIVITIES.
- PLEASE REFER TO POLYSTORM & POLYSTORM LITE TECHNICAL GUIDE.
- THE PROPOSED POLYSTORM STRUCTURE GENERAL ARRANGEMENT HAS BEEN BASED ON PROVIDING THE MINIMUM STRUCTURE VOLUME STATED ONLY. NO STRUCTURAL OR HYDRAULIC ASSESSMENT HAS BEEN MADE OF THE SUITABILITY OF THE PROPOSED POLYSTORM STRUCTURE FOR THE PROPOSED APPLICATION, NOR HOW IT WILL INTEGRATES INTO THE PROPOSED DRAINAGE SYSTEM.
- ALL MEMBRANE JOINTS TO BE WELDED RATHER THAN GLUED.

Notes :- All the Dimensions by Millimeters

KEYTEC
INSTALLATION SERVICES

KEYTEC INSTALLATION SERVICES
ROYLE HOUSE
COWM TOP BUSINESS PARK
COWM TOP LANE
OL11 2PU
TEL: 01706 374416
EMAIL: TECHNICAL@KEYTEC.CO.UK

PROJECT

VARLEY STREET, SEN SCHOOL

ATTENUATION TANK

TITLE

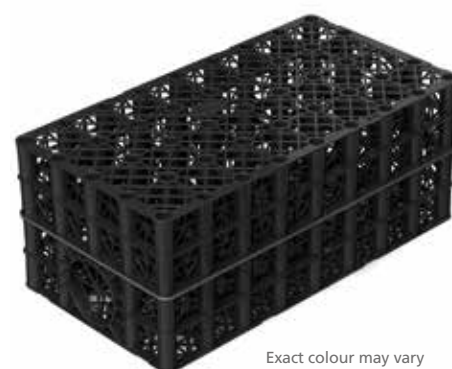
DETAILS OF ATTENUATION/STORAGE
TANK DETAILS USING POLYSTORM
PSM1A UNIT.

Scale	Drawn	Checked
N.T.S.	AY	KD
Date	Drawing No.	Revision
19/08/2024	PSM - 2.4	R0

Product code: PSM1A

The Polystorm-R modular cell is ideally suited for loaded applications at greater depths, such as housing, commercial and infrastructure projects and has a compressive strength of up to 61 tonnes/m². It offers all the proven performance of the Polystorm cell, with the added benefits of being manufactured from over 90% recycled material content.

Wherever performance criteria and standards allow, we will always maximise the sustainability of our products by using post consumer plastics in their manufacture. By sourcing and carefully controlling the quality of the recycled material we use our precision injection moulding. Therefore we are able to guarantee consistent quality in our recycled plastic, giving you the confidence and the performance levels you expect from the market leader.



Exact colour may vary due to recycled materials.

Key Benefits

- Made from specially selected and controlled recycled materials
- Environmentally friendly, sustainable solution
- Has undergone stringent testing to ensure product performance
- Compressive strength of 61 tonnes/m²
- Ideal for retention, attenuation and infiltration applications with a suitable geomembrane or geotextile
- BBA approved
- Allow flexibility of shape - ideal for shallow excavation systems, narrow strips or use in restricted areas
- Can be used as part of a value engineered hybrid system with Polystorm, Polystorm Lite and Polystorm Xtra
- Integrated inlet and outlet
- 3D flow throughout the structure
- 95% void ratio
- Light weight yet robust - excellent Health and Safety and installation benefits
- 60 years creep limited life expectancy

Technical Support

Detailed guidance and assistance is available.

For further information, please contact our Technical Team on **+44 (0) 1509 615100** or email civils@polypipe.com



ELEMENT	VALUE
PHYSICAL PROPERTIES	
Length	1m
Width	0.5m
Depth	0.4m
Total volume	0.2m ³
Unit weight	9kg (approx)
Unit storage volume	0.19m ³ (190 litres)
Void ratio	95%
SHORT TERM COMPRESSIVE STRENGTH	
Vertical	610 kN/m ² **
Lateral	63 kN/m ² **
SHORT TERM DEFLECTION	
Short-term vertical deflection	60 kN/m ² per mm
LONG TERM DEFLECTION	
Estimated long term vertical deflection (creep)	0.2798 Ln (design life in hrs) +0.485 [Based on an applied test load = 162 kN/m ²] Creep data limit 60 years
Estimated long term lateral deflection (creep)	1.0192 Ln (design life in hrs) -3.864 [Based on an applied test load = 30.8 kN/m ²] Creep data limit 60 years

Note: Polystorm-R is ideal for use in trafficked and pedestrian applications subject to a structural design check and suitable installation conditions

* Each unit includes 4 Clips and 2 Shear Connectors.

** Compressive strength at yield, maximum recommended value for design purposes.

RECOMMENDED MAXIMUM DEPTH OF INSTALLATION (to cell invert) [m]

TYPICAL SOIL TYPE	TYPICAL ANGLE OF SHEAR RESISTANCE	SOIL WEIGHT kN/m ³	WITHOUT GROUNDWATER (below base of cells) NORMAL CASE		WITH GROUNDWATER AT 1M BELOW GROUND LEVEL AND UNITS WRAPPED IN GEOMEMBRANE	
			Pedestrian	Trafficked (cars) <3000kg GVW	Pedestrian	Trafficked (cars) <3000kg GVW
Stiff over consolidated clay e.g. London clay	24	20.0	2.2	1.9	1.8	1.6
Normally consolidated silty sandy clay e.g. alluvium, made ground	26	19.0	2.4	2.2	1.9	1.7
Loose sand and gravel	30	18.0	3.0	2.7	2.0	1.9
Medium dense sand and gravel	33	19.0	3.2	2.9	2.0	1.9
Dense sand and gravel	38	20.0	3.7	3.5	2.1	2.0

Note:

1) Stated depths based on the calculation methodology detailed within CIRIA C680 (2008)

2) Assuming water density = 10.0kN/m³

3) Assumed ultimate limit state (ULS) partial factor of safety applied to: Material = 2.75 Lateral pressure = 1.35

Durability

The polymer material used in the manufacture of the Polystorm-R unit has an adequate resistance to attack from the type and quantities of chemicals that may be expected to naturally occur in uncontaminated soils and rainwater runoff. When installed in accordance with our recommendations, it is expected that the Polystorm-R unit will have a design life in excess of 60 years*. The installer of a proposed geocellular structure should ensure that an appropriate design check has been undertaken, in accordance with the recommended methodology and factors of safety given in CIRIA C680 (2008), Structural Design of Modular Geocellular Drainage Tanks, prior to the commencement of construction activities.

* Derived from long term extrapolated creep testing

Notes

1. Unless stated, all values are nominal and may vary within normal production tolerances.
2. The characteristic unit parameters stated have been based on Polypipe BBA certificate N° 06/4297, sheet 3.
3. Polypipe reserve the right to change product specifications without prior notice.
4. This document is uncontrolled and updates will not be issued automatically.

RECOMMENDED MINIMUM COVER LEVELS [m]

LIVE LOAD CONDITIONS	PEDESTRIAN	LIGHT TRAFFICKED	
		Car park with vehicle mass <GVW	
Minimum cover depth required (m)	0.50	<3000kg 0.50	<9000kg 0.65

Note

1) Stated depths based on the calculation methodology detailed within CIRIA C680 (2008)

2) Assumed serviceability limit state (SLS) partial factor of safety applied to: Material = 1.5 Live load = 1.0 Dead load = 1.0

3) Shallower minimum burial depths may be applicable subject to an assessment of the specific site conditions. For further details please consult our Technical Team on 01509 615100.

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Polypipe Civils

Charnwood Business Park, Loughborough, Leicestershire LE11 1LE

Tel: +44 (0) 1509 615100 Fax: +44 (0) 1509 610215 Email: civils@polypipe.com

www.polypipe.com/wms



James Plant

Subject: FW: Attenuation Tank Proposal

From: Adam Matadar <adammatadar@ridge.co.uk>

Sent: Wednesday, August 14, 2024 2:50 PM

To: Jack Layfield <jack.layfield@cgcivils.com>; Dan Booth <Dan.Booth@isgltd.com>

Cc: Ben Jackson <Ben.Jackson@isgltd.com>; Andy Bawley <Andy.Bawley@cgcivils.com>; Philip Barrett <PBarrett@ridge.co.uk>

Subject: RE: Attenuation Tank Proposal

WARNING: External Email

Hi Jack,

The SW tank volume as per the SW GA's and SW Tank Detail is **638m3**.

We will lower the SW Tank as per the recent correspondences and update the drawings to match this.

Kind regards,

Adam Matadar
Senior Civil Engineer
Ridge and Partners LLP
07469 378701
0161 833 9579
adammatadar@ridge.co.uk



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From: Jack Layfield <jack.layfield@cgcivils.com>

Sent: Wednesday, August 14, 2024 8:02 AM

To: Dan Booth <Dan.Booth@isgltd.com>; Adam Matadar <adammatadar@ridge.co.uk>

Cc: Ben Jackson <Ben.Jackson@isgltd.com>; Andy Bawley <Andy.Bawley@cgcivils.com>

Subject: Re: Attenuation Tank Proposal

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Hi Adam,

Have you had chance to have a look at the below calculations and proposal?

Thanks

Jack Layfield
Senior Engineer
Cheltenham Green Civils
Tel: 0161 327 1706
Mob: 07452830791
E-mail: jack.layfield@cgcivils.com



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From: Jack Layfield <jack.layfield@cgcivils.com>
Sent: Friday, August 9, 2024 12:16 PM
To: Dan Booth <Dan.Booth@isgltd.com>; adammatadar@ridge.co.uk <adammatadar@ridge.co.uk>
Cc: Ben Jackson <Ben.Jackson@isgltd.com>; Andy Bawley <Andy.Bawley@cgcivils.com>
Subject: Re: Attenuation Tank Proposal

Adam,

Please could you also confirm that you are happy with the below figures, as our designer has worked out your original proposal slightly differently to you.

They have calculated that your design provides 615m³ nett when including the stone trench. Calculation is below:

Crates 32m x 16.5m x 1.2m x 0.95	601.92m ³ nett
32m x 300mm slotted pipe (OD 3.08m ³)	2.26m ³ nett
Stone 32m x 1m x 1.2m less 3.08m ³ x 0.3	<u>10.60m³ nett</u>
	614.78m³ nett (91.49% void)

Based on this, we have proposed the following option:

- Provide just 615m³ nett as per Ridge's design.
- Polystorm PSM1A
- 36.00m x 15.00m x 1.20m = 648.00m³ gross x 0.95 = 615.6m³ nett.
- Complete with a 36.00m run of PSM4 Inspect modules

Regards

Jack Layfield

Senior Engineer

Cheltenham Green Civils

Tel: 0161 327 1706

Mob: 07452830791

E-mail: jack.layfield@cgcivils.com



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From: Jack Layfield <jack.layfield@cgcivils.com>

Sent: Friday, August 9, 2024 12:06 PM

To: Dan Booth <Dan.Booth@isgltd.com>; adammatadar@ridge.co.uk <adammatadar@ridge.co.uk>

Cc: Ben Jackson <Ben.Jackson@isgltd.com>

Subject: Re: Attenuation Tank Proposal

Dan/Adam,

We wish to proceed with lowering the tank by 300mm and installing the attenuation tank as per our proposal without the stone trench.

Please can you confirm that you are happy for us to proceed on this basis?

Thanks

Jack Layfield

Senior Engineer

Cheltenham Green Civils

Tel: 0161 327 1706

Mob: 07452830791

E-mail: jack.layfield@cgcivils.com



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From: Dan Booth <Dan.Booth@isgltd.com>
Sent: Tuesday, August 6, 2024 10:02 AM
To: Jack Layfield <jack.layfield@cgcivils.com>
Cc: Ben Jackson <Ben.Jackson@isgltd.com>
Subject: RE: Attenuation Tank Proposal

Hi Jack,

What was the main purpose in changing to the proposed system? Was it cost or was it a better installation?

If we stick with the new proposal and lower the SW tank by 300mm is that significant works for you?

From: Adam Matadar <adammatadar@ridge.co.uk>

Sent: Tuesday, August 6, 2024 9:32 AM

To: Dan Booth <Dan.Booth@isgltd.com>; Jack Layfield <jack.layfield@cgcivils.com>

Cc: Philip Barrett <PBarrett@ridge.co.uk>; Ben Jackson <Ben.Jackson@isgltd.com>

Subject: RE: Attenuation Tank Proposal

WARNING: External Email

Hi Dan,

I have spoken to Jack at CGC this morning with regards to the SW tank detail. The SW tank currently has an IL of 57.780mAOD and the upstream SW1.09 IL is 57.585mAOD (as built IL). To remove the Stone trench and replace with the Polystorm product that you would like to use, the proposed SW tank would need to be lowered (approximately by 300mm to IL of 57.480mAOD).

The other option would be to keep the design as it is, with the stone trench infill and the perforated pipe underneath the SW tank.

Please can you advise on how you would like to proceed.

Kind regards,

Adam Matadar
Senior Civil Engineer
Ridge and Partners LLP
07469 378701
0161 833 9579
adammatadar@ridge.co.uk



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From: Dan Booth <Dan.Booth@isgltd.com>
Sent: Monday, August 5, 2024 2:50 PM
To: Adam Matadar <adammatadar@ridge.co.uk>
Cc: Philip Barrett <PBarrett@ridge.co.uk>
Subject: RE: Attenuation Tank Proposal

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Additionally will your latest information reflect this? When can we expect your updated info?

From: Adam Matadar <adammatadar@ridge.co.uk>
Sent: Monday, August 5, 2024 2:47 PM
To: Dan Booth <Dan.Booth@isgltd.com>
Cc: Philip Barrett <PBarrett@ridge.co.uk>
Subject: RE: Attenuation Tank Proposal

WARNING: External Email

Hi Dan,

The Stone trench can be removed and the polystorm product can be introduced.

Please note that there is permeable surfacing above the proposed SW tank area and the adaptor from the type 3 subbase to the SW tank is still required.

Kind regards,

Adam Matadar
Senior Civil Engineer
Ridge and Partners LLP
07469 378701
0161 833 9579
adammatadar@ridge.co.uk



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From: Dan Booth <Dan.Booth@isgltd.com>
Sent: Monday, August 5, 2024 10:53 AM
To: Adam Matadar <adammatadar@ridge.co.uk>
Cc: Philip Barrett <PBarrett@ridge.co.uk>
Subject: FW: Attenuation Tank Proposal

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Hi Adam,

Folloiwnng your confirmation to Ben regarding the Attenuation Tank, see below from CGC.

Can Ridge confirm accepted.

Kind regards

Dan

From: Jack Layfield <jack.layfield@cgcivils.com>
Sent: Monday, August 5, 2024 10:45 AM
To: Dan Booth <Dan.Booth@isgltd.com>
Cc: Ben Jackson <Ben.Jackson@isgltd.com>; Andy Bawley <Andy.Bawley@cgcivils.com>; Jonny Murray <jonny@cgcivils.com>; James Plant <james@cgcivils.com>
Subject: Re: Attenuation Tank Proposal

Hi Dan,

Thanks for that. Just to confirm we are proceeding on the below basis:

- Omit stone trench
- Install row of PSM4 crates in place of perforated pipe and stone trench
- Install remainder of tank using PSM1A crates

Please can you confirm to avoid any confusion.

Regards

Jack Layfield

Senior Engineer

Cheltenham Green Civils

Tel: 0161 327 1706

Mob: 07452830791

E-mail: jack.layfield@cgcivils.com



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From: Dan Booth <Dan.Booth@isgltd.com>

Sent: Monday, August 5, 2024 9:01 AM

To: Jack Layfield <jack.layfield@cgcivils.com>

Cc: Ben Jackson <Ben.Jackson@isgltd.com>

Subject: FW: Attenuation Tank Proposal

Jack,

See below acceptance from Ridge.

From: Adam Matadar <adammatadar@ridge.co.uk>
Sent: Monday, August 5, 2024 8:42 AM
To: Ben Jackson <Ben.Jackson@isgltd.com>; Philip Barrett <PBarrett@ridge.co.uk>
Cc: Dan Booth <Dan.Booth@isgltd.com>; James Hardy-Jones <James.HardyJones@isgltd.com>; Jack Layfield <jack.layfield@cgcivils.com>
Subject: RE: Attenuation Tank Proposal

WARNING: External Email

Hi Ben,

This product is acceptable.

Kind regards,

Adam Matadar
Senior Civil Engineer
Ridge and Partners LLP
07469 378701
0161 833 9579
adammatadar@ridge.co.uk



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From: Ben Jackson <Ben.Jackson@isgltd.com>
Sent: Thursday, August 1, 2024 8:15 AM
To: Philip Barrett <PBarrett@ridge.co.uk>; Adam Matadar <adammatadar@ridge.co.uk>
Cc: Dan Booth <Dan.Booth@isgltd.com>; James Hardy-Jones <James.HardyJones@isgltd.com>; Jack Layfield <jack.layfield@cgcivils.com>
Subject: FW: Attenuation Tank Proposal

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Phil, Adam

See attached alternative attenuation tank proposal from our groundworkers (CGC)
Please can you review and confirm if the proposal is acceptable as an alternative to the stone trench.

I've copied in Jack Layfield from CGC as I am on annual leave from tomorrow for a week.

Regards
Ben

From: Jack Layfield <jack.layfield@cgcivils.com>
Sent: Monday, July 29, 2024 1:45 PM
To: Ben Jackson <Ben.Jackson@isgltd.com>
Cc: James Plant <james@cgcivils.com>; Jonny Murray <jonny@cgcivils.com>; Thomas Murray <thomas.murray@cgcivils.com>; Ray Forrester <Ray.Forrester@isgltd.com>; James Hardy-Jones <James.HardyJones@isgltd.com>
Subject: Attenuation Tank Proposal

WARNING: External Email

Hi Ben,

Please see attached alternative modular cell proposal for the attenuation tank.

The supplier proposes utilising these modules instead of the stone trench, as it provides a channel similar to the perforated pipe shown on Ridge's design.

Essentially, we would install the already approved PSM1A crates for the majority of the tank and install a row of PSM4 crates in place of the perforated pipe and stone trench.

Please can you put this to Ridge as a proposal and let me know what they say. Our supplier is happy to speak directly with Ridge if they wish.

Apologies for not responding on Aconex - I currently don't have access due to the new authentication procedure.

Regards

Jack Layfield
Senior Engineer
Cheltenham Green Civils
Tel: 0161 327 1706
Mob: 07452830791
E-mail: jack.layfield@cgcivils.com



Cheltenham Green Property Ltd trading as Cheltenham Green Civils | Registered office: Ivy Mill, Crown Street, M35 9BG
Registered in England and Wales No. 12684143

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James Plant

From: Mike Kershaw <Mike.Kershaw@keytec.co.uk>
Sent: 19 August 2024 13:22
To: Jack Layfield; Peter Hood
Cc: Paula Maudsley; Jonny Murray; Thomas Murray; Andy Bawley; James Plant; Fawaz Al-rawi; Bob Palmer
Subject: RE: T405 - Varley Street - M40 7EJ
Attachments: 1 KIS ATTENUATION RAMS.pdf; PSM - 3.0 - R0 - PSM1A TANK - VARLEY STREET SEN SCHOOL.pdf

Hi Jack,

Please find attached our RAMS for the installation and the latest drawing.

I have a team due with you on Tuesday 27th.

Modules are scheduled as follows:

X2 loads 23rd
X2 loads 27th
X2 loads 28th
X2 loads 29th

Many Thanks

Mike Kershaw

Planning & Coordination Manager

T: 0808 141 5800 **-M:** 07929 789369 **E:** Mike.Kershaw@keytec.co.uk **W:** www.keytec.co.uk



Royle House, Cowm Top Business Park, Cowm Top Lane, Rochdale, OL11 2PU
Unit 6 Plover Close, Interchange Park, Newport Pagnell, MK16 9PS



Consider the environment. Do you need to print this email?

From: Jack Layfield <jack.layfield@cgcivils.com>
Sent: Wednesday, August 14, 2024 10:20 AM
To: Peter Hood <Peter.Hood@keytec.co.uk>
Cc: Paula Maudsley <Paula.Maudsley@keytec.co.uk>; Jonny Murray <jonny@cgcivils.com>; Thomas Murray <thomas.murray@cgcivils.com>; Andy Bawley <Andy.Bawley@cgcivils.com>; Mike Kershaw <Mike.Kershaw@keytec.co.uk>; James Plant <james@cgcivils.com>; Fawaz Al-rawi <Fawaz.Al-rawi@keytec.co.uk>; Bob Palmer <Bob.Palmer@keytec.co.uk>
Subject: Re: T405 - Varley Street - M40 7EJ

Project Details:			
Project Title	Varley Street	Project Nr	L371146
Project Address	Varley ST, Miles Platting, Manchester	Postcode	M40 8BB
Tank Dimensions	Tank 1 - 32m x 17.5m x 1.2m		
Tank Manufacturer	Polypipe		
Tank version	Attenuation - Polystorm		
Project Start Date	W/C 26th August 24	Duration	5-6 Days

Method statement Validity	Start date	Expiry date	Amendment details
Revision			Supervisor Name Added. CBR Test Removed. Barriers Supplied. No Parking Onsite. 4 Point Hard Hat. Toolbox Talk
3			
Author By	Position	Signature	
Gary burgess	Installations Director	GB	
Approved by	Position	Signature	
Chris Gawronek	H&S Manager	CG	

Client Details:			
Contractor	Cheltenham Green Civils		
Site Contact Name	Steve		
Tel Number	7934528682	Email	

Keytec Installation services Details:	
Project Contact Name	Planning & Coordination manager. Mike Kershaw - Mike.Kershaw@keytec.co.uk - 07929 789369.
	Contracts manager - North, Peter Hood - Peter.hood@Keytec.co.uk - 04797 7398456
	Contracts manager - South, John Burgess - John.burgess@keytec.co.uk - 07974 841680
	Installations Director. Gary Burgess - Gary.Burgess@keytec.co.uk. - 07974 859501
	HSEQ Compliance manager. Chris Gawronek. Chris.Gawronek@keytec.co.uk. - 07971 239569.

Notes:	
Working at Height	Barriers to be supplied by CGC. full arrest system can be put in place by Keytec installers if required .
PPE	Standard PPE 4 point chin strap hard hat, boots EN ISO 20345:2011, gloves BSEN388:2003 and hi-viz vest/jacket EN ISO 20471:2013 and EN ISO 20471:2013 will be worn at all times
Vehicle	No Parking Onsite. Drop Off Equipment

Emergency procedures:		
In the event of an emergency, works will be stopped and adequate First Aid provisions will be required from the Site Management. Site Manager will be notified following assessment of the situation by the First Aider.		
If Emergency Services are required or a visit to the hospital, this will be arranged by:.....		
Emergency contact details:		
Name	Telephone number	Contact details
Main office	0808 141 5800	
John Burgess	07974 841680 - John.Burgess@keytec.co.uk	
Peter Hood	04797 7398456 - Peter.hood@Keytec.co.uk	

Method Statement
Keytec Installations services reserve the right not to work in an excavation which we consider is not the correct dimensions, base preparation or unsafe to work in.
Contractor Scope of Works Prior to Keytec Geomembranes Ltd Initial Mobilisation:
<p>The scope of works should be undertaken by the contractor before we attend site.</p> <p>Excavation of proposed tank location and preparation of base of tank should be FLAT WITH NO SURFACE ANGULATIONS.</p> <p>Failure to complete this work could result in a failed visit or charged standing time as per our T&C.</p>
The Excavation:
<p>The excavation should be dug out to the latest updated drawing.</p> <p>For shallow or firm side digs allow minimum 500mm working from edge of tank.</p> <p>Excavation needs to be battered back or sheet piled to minimise risk of collapse. Excavation needs to be inspected daily or significant changes have occurred. This is to be carried out by main contractor. Keytec will carry out visual inspections before and during works. It is the responsibility for the main contractor to maintain the safety of the excavation.</p>
Access & Egress:
A safe access i.e., ramp, ladder or steps is to be provided by the contractor for safe entry and exit from the excavation. On larger tanks we would require multiple access routes.
Base Prep and Backfill:
<p>Once the excavation has been dug and either battered back or shuttered depending on depth, the excavation must be pinned or marked out and checked for correct dimensions.</p> <p>Place blinding down in accordance with manufacturers guidelines. All soft spots removed or compacted before we arrive.</p> <p>If there is any chance of flooding, a sump should be dug outside the perimeter of the pinned area and a sufficiently able pump supplied and operating fully before we install; alternately a pipe bedding stone can be used as sand would wash away in this environment.</p>
Method of carrying out installation of Attenuation tank.
<p>The supply and installation of Impermeable Membrane, Geotextile, Top-hats and the installation of Psm1A to form a fully welded Attenuation Tank.</p> <p>The panels of Keytec impermeable membrane will be prefabricated in the factory as follows:</p> <p>The membrane is unrolled, cut to length in strips and placed together, with a 50mm overlap.</p> <p>The overlap is welded using our weldmaster welding machine which combines hot air with roller pressure to create a homogenous single seam weld. Welded seams are tested through out production. QA sheets can be emailed on request.</p> <p>More strips are added until a base panel has been created to the preferred size. The base panel also incorporates the sides of the tank. The panel is then folded and rolled into a bale ready for dispatch.</p> <p>On site:</p> <p>Keytec personnel will first check the formation to see if it is suitable for installation. The formation must be as level as possible and blinded. The sides of the hole must be supported and or battered back to prevent anything from falling in. An access slope should be provided for ease of entry and exit from the hole.</p> <p>The Installation:</p> <p>The geotextile is unrolled to the base formation and cut to length. More strips are added until the tank base area has been covered.</p> <p>The prefabricated membrane base panel will then be placed into position by plant made available by the principal contractor and directed by Keytec's supervising operative.</p> <p>The panel will then be unrolled and unfolded by hand by Keytec personnel into correct alignment.</p> <p>With the membrane and geotextile in place, The pallets will be lowered into the excavation. Once in place, the strapping will be cut on the pallets and the modules removed from the pallet one by one. All strapping and pallets to be removed from the excavation to skips provided.</p> <p>The Polypipe module can be installed to the agreed size and shape of the tank.</p> <p>The modules are clipped together, and shear connectors are used for multiple layers.</p> <p>During the module installation, the tophat sections for the inlet/outlet pipe penetrations are sealed to the membrane at the required levels set by the site engineer.</p> <p>The tophats are sealed to the membrane using a 110v Leister Triac hand weld gun and silicon pressure roller.</p> <p>With the tophats and modules finally in place, the sides of the tank are pulled up and the corners are then formed and sealed. The tank is stable to walk on and edge barriers will be provided by the principal contractor if required.</p> <p>The lid panel is then placed into position and sealed to the top of the tank, adding tophats for vent pipework where required.</p> <p>Finally, geotextile is placed to the sides and top of the tank to help protect the membrane during the backfill process.</p> <p>once the work sheet document is signed. The Tank is now handed back to the client for Back fill.</p> <p>Throughout the installation, Keytec will seek assistance from available principal contractor plant to prevent manual handling.</p>

Permits to work:	
Permits to work will be issued and co-ordinated by:	
Permits to work will be required for the following activities: Hot air fusion welding.	

Supervision:		
Part of job (or all of job)	Supervisor	Contact details
Full installation of Liner, Geotextile, Top hats and Polystorm PSM1A Modules	Bob Finnerty	0808 141 5800

Labour requirements:		Competence cards held:
Total minimum number of workforce:	3	
Specialist skills required:	Keytec welding techniques, storm water storage system installation technique.	CSCS SSSTS

Health and Safety Monitoring:	
The day-to-day standards of health and safety will be monitored and controlled by:	
Keytec operatives in conjunction with the Site Manager/Health and Safety Representative. Daily Toolbox talks to be held by Supervisor	

Plant inspection and training:			
Plant/equipment required	Operator competence required	Inspection/Examination Certificates required	Supplier
Generator (Including Drip Tray)	Working knowledge		Keytec

Hazardous substances:	
Will asbestos be disturbed?	No
If YES or NOT SURE, identify the specialist contractors that will be involved.	N/A
Hazardous substances in Use	Fuel for the Generator
The users of hazardous substance will be protected from the harmful effects by; Appropriate PPE to be supplied and worn at all times. Fuel to be suitably contained, labelled and stored in a safe place. Spill kits will be available.	

RISK MATRIX						
PROBABILITY →	Very Likely - 5	4	10	15	20	25
	Likely - 4	4	8	12	16	20
	Possible - 3	3	6	9	12	15
	Unlikely - 2	2	4	6	8	10
	Very Likely - 1	1	2	3	4	5
		1	2	3	4	5
		Negligible	Slightly	Moderate	High	Very High
SEVERITY →						
Risk		Risk level	Condition			
1 to 6		Low Risk	May be acceptable but review task to see if risk can be reduced further.			
8 to 12		Medium Risk	Task should only be executing with appropriate management authorization after consulting with specialist personal.			
15 to 25		High Risk	Task must not proceed, until adequate action taken to minimize the risk.			

Risk Assessment														
Author:		Chris Gawronek					Date:		10/04/2024					
3														
Hazard Description	Risk	Persons at Risk	Existing control measures	Severity of harm	x	Likelihood	=	Risk Rating	Further control meeasures necessary	Residual risk rating	x	Revised Likelihood	=	Final Risk Rating
Excavations														
Underground Services	Contact; Electrocuton; fire; Explosion	Contractor, Site Personnel	No installation works to commence until excavation signed off as safe by site engineer.	4	x	5	=	20	Responsibility of Site Engineer to assess and confirm that no services are present.	4	x	1	=	4
Overhead services	Electrocuton; Electrical burns; Explosion; Fire; Drowning	Contractor	Area checked by operative to conform to HSE guidance GS6.	4	x	5	=	20	Area assessed by Site Management before works commence.	4	x	1	=	4
Ground collapse/ failure	Traps; Crushing; Suffocation	Contractor	Excavation to be battered or stepped back at a suitable angle - no more than 45°. Minimum 750mm working space required around tank footprint. Excavation inspected daily by competent site person; Additional Daily inspections completed by installers.	4	x	5	=	20	Confirm contractor compliance and area suitable for safe working.	4	x	1	=	4

Structural failure of adjacent buildings	Collapse; Trapping; Crush;	Contractor	Impact of Excavation on surrounding structures assessed.	4	x	5	=	20	Managed by Site management.	4	x	1	=	4
Falling / flying objects	Struck by; entrapment; cuts; bruises; breaks;	Contractor	Area around excavation to be cleared of loose or stored items by Site Management. Particular attention during windy conditions.	4	x	5	=	20	Confirm contractor compliance and area suitable for safe working.	4	x	1	=	4
Weil's Disease aka Leptospirosis	Contact with infected area	Contractor	Instruction on Personal Hygiene; PPE provided	4	x	3	=	12	Excess/Stagnant water removed.	4	x	1	=	4
Emergency in Excavation	Illness / injury in excavation	Contractor, Site Personnel	Emergency response plan to be agreed with contractor. Daily inspections to be carried out. Appropriate guarding to be put in place.	5	x	4	=	20	Confirm contractor compliance and area suitable for safe working	5	x	1	=	5
Slips / trips / falls	Breaks/Strains/Sprains	Contractor	Pedestrian routes maintained by Site management; two means of suitable access & egress provided, either steps or ramps. A secure ladder may be used as last resort. Edge protection provided near excavation; Suitable footwear provided.	4	x	5	=	20	Confirm contractor compliance and area suitable for safe working.	4	x	1	=	4
Falls from height	Severe personal injuries	Contractor	Edge protection provided to be provided by Client contractor; Information & Instruction (Induction). Competent training undertaken. Use appropriate PPE including safety harness.	5	x	5	=	25	Confirm contractor compliance and area suitable for safe working.	5	x	1	=	5
Unsafe access / egress	Fall from height; Entrapment	Contractor	Ladders, Steps, ramps, scaffolding provided by contractor; daily Inspections undertaken; defect reporting to site management; two means of safe access/egress to be provided by site management. Competent training undertaken. Use appropriate PPE including safety harness.	5	x	5	=	25	Confirm contractor compliance and area suitable for safe working.	5	x	1	=	5
Inadequate Lighting	Insufficient vision; slips/trips/falls;	Contractor	Work restricted to day light hours.	3	x	5	=	15	Client to provide suitable lighting.	3	x	1	=	3
Plant Movement & Operations														
Vehicle/ Plant movements	Contact with or Hit by moving plant / entrapment	Contractor; Site Personnel	Induction to the site. Use appropriate PPE.	5	x	5	=	25	Designated traffic routes, barriers. Competent Banksman available.	5	x	1	=	5

Lifting Operations	Failure of Lifting Equipment; Unsafe positioning of Equipment	Contractor	Lift plan and lifting equipment required (sole responsibility of contractor). Statutory inspections. Defect reporting procedure. Excavators to be rated as a lifting appliance; Operators to be trained & competent.	4	x	5	=	20	Confirm contractor compliance and area suitable for safe working.	4	x	1	=	4
Lifting and slinging	Failure of lifting equipment: Slings inadequate for weight to be lifted; Slings incorrectly positioned	Contractor, Site Personnel	Statutory Inspections carried out; Daily Checks: Competent personnel; SWL on slings identified: damaged slings to be rendered unusable. Use appropriate PPE.	4	x	5	=	20	Final checks to be completed by the user prior to lifting operation.	4	x	1	=	4
Machines / objects overturning	Impact; Crushing; Entrapment.	Contractor, Site Personnel	Client controlled Site Traffic management in place; Installation area to be fenced off from other site traffic with barriers to protect vehicles/work equipment from excavation edges.	5	x	5	=	25	Confirm contractor compliance and area suitable for safe working.	5	x	1	=	5
Noise	Hearing impairment; noise induced deafness	Contractor, Site Personnel	Noise Assessment carried out by site management as required; Area to be identified by signage: Hearing protection to be provided at 1st action level(80db(A)).	5	x	5	=	25	Confirm with Main contractor requirements for noise reduction prior works, contractor compliance and area suitable for safe working.	5	x	1	=	5
Hand Tools & Manual Works														
Manual Handling	Standard PPE 4 point chin strap hard hat, boots EN ISO 20345:2011, gloves BSEN388:2003 and hi-viz vest/jacket EN ISO 20471:2013 and EN ISO 20471:2013 will be worn at all times	Contractor	Manual Handling training provided.	5	x	5	=	25	Mechanical handling equipment provided by client.	5	x	1	=	5
Use of portable hand tools	No Parking Onsite. Drop Off Equipment	Contractor, Site Personnel	Battery operated tools only, competent operatives with training.	4	x	4	=	16	Daily inspection and supervision.	4	x	1	=	4
Use of portable knives	Hand cuts	Contractor	Training provided, knives issued with safety features and certified. Use appropriate PPE including cut resistant gloves.	4	x	4	=	16	Daily inspection and supervision.	4	x	1	=	4

Keytec Installation services - COSHH Product Assessment Sheet									
No:03		Supplier: Various							
Product:		Petrol (leaded/unleaded)							
Recommended Uses:		For use in portable generators							
Irritant	Yes	Explosive	Yes	Flammable	Yes	Toxic	Yes	Corrosive	No
Precautions									
Storage:		Always store in suitable (manufactured) for purpose container							
Handling:		Wear appropriate PPE when using or dispensing these substances in the fresh air - gloves, eye protection and overalls							
		<div style="text-align: center;"> Supervisor Name Added. CBR Test Removed. Barriers Supplied. No Parking Onsite. 4 Point Hard Hat. Toolbox Talk </div>							
Disposal:									
Working		Make sure work area is well ventilated							
Conditions:									
Transport:		Transport in secure, upright position							
Protective		Always replace container lid after use							
Measures:									
Personnel Exposed				Personnel Protection Equipment Used					
Yard Operatives				Overalls	YES	Respirator		Rubber boots	
Site Operatives				Goggles	YES	Mask		Leather Glove	
				PVC Gloves	YES	Glasses		Helmet and V	
				Boots	YES	Gauntlets			
Mode of Entry	Risk	Level	Effect						
Skin Absorption	Irritant	Moderate	Possible skin disorders						
Eyes	Irritant	Moderate	Irritation						
Inhalation	Drowsiness	Moderate	If liquid enters lungs can cause serious injury.						
Ingestion	Nausea & drowsiness	Moderate	If swallowed vomiting can lead to the product being aspirated into the lungs leading to chemical pneumonitis which can be fatal.						
Control Measures									
Always try to use outside. Relevant persons given instruction.									
Wash hands thoroughly before eating.									
<div style="text-align: center;"> Barriers to be supplied by CGC. full arrest system can be put in place by Keytec installers if required . </div>									
First Aid Req									

Skin:	Standard PPE 4 point chin strap hard hat, boots EN ISO 20345:2011, gloves BSEN388:2003 and hi-viz vest/jacket EN ISO 20471:20		
Eyes:	No Parking Onsite. Drop Off Equipment		
Inhalation:	Remove person to fresh air & seek medical attention if person affected is unconscious		
Ingestion:	Don't induce vomiting & seek medical attention immediately		
Accidental Release Measures:			
Leaks & spills			
Try to prevent flow of liquid product.			
Prevent product entering waterways, drains etc (use absorbent material to soak up spillage, sand, earth or other suitable material).			
If product reaches waterways or drains inform local authorities & fire authorities.			
Disposal of contaminated material should be via a licensed waste contractor.			
Fire Control:			
Extinguishants	- Large Fire:	Foam/Water - NEVER USE WATER JET	
	-Small Fire:	Foam/Dry Powder/CO2/Sand/Earth	
Issue Status:			
Issued:	05/10/2009		By: PB
Reviewed:	09/06/2022	04/01/2023	By: JB











