

Sandberg LLP 5 Carpenters Place London SW4 7TD

Tel: 020 7565 7000 email: mail@sandberg.co.uk web: www.sandberg.co.uk

9 June 2022

Your Ref: M-ETF149/0056

Our Ref: 72435/M

McGee Group (Holdings) Limited 5 Hatfields Level 9 Alto Tower London SE1 9PG

For the attention of Diego Fenaroli

Dear Diego

Re: Euston Tower - Steel Testing

Please find attached certificates 1 to 35 of 35 for your records.

Yours sincerely

Mariyana Pencheva Secretary to Metallurgy Department

Enc.

Materials, samples and test specimens are retained for a period of 2 months from the issue of the final report.

Tests reported on sheets not bearing the UKAS mark in this report/certificate are not included in the UKAS accreditation schedule for this laboratory.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

This report is personal to the client, confidential, non-assignable and written with no admission of liability to any third party.

This report shall not be reproduced, except in full, without the written approval of Sandberg LLP.

Where our involvement consists exclusively of testing samples, the results and our conclusions relate only to the samples tested.

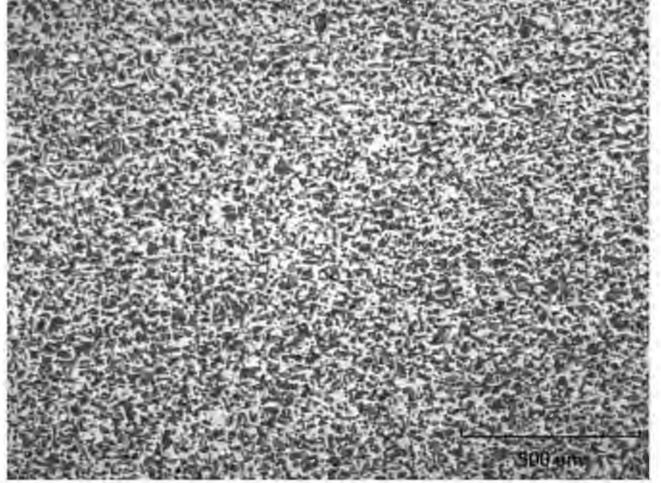




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Certificate:	72435/M/1	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	24 May 2022	Test Procedure:	M5/3/3 & M13/3/2			
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 409		Client Ref:	H1-P1/B1	25 mm Ø Square Twisted Bar	
Examined By:	AK	Mag: x 84	Etchant:	2% Nital	Grain Size Index: 7.5	
Comments:		Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.				

For Sandberg LLP Date: 9 June 2022

Neale Fetter - Assistant Manager Metallurgy Department

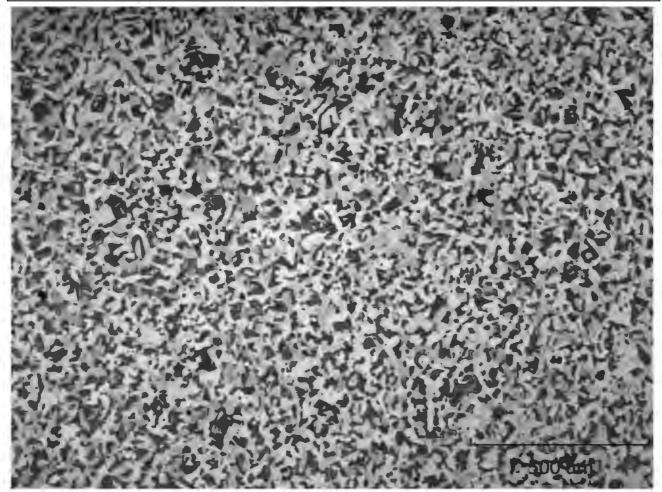




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Certificate:	72435/M/2	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date: 24 May 2022 Test Procedure: M5/3/3 & M13/3/2						
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 410		Client Ref:	H1-P1/B2 3	2 mm Ø Square Twisted Bar	
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 6.5
Comments:						

For Sandberg LLP Date: 9 June 2022

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Certificate:	72435/M/3	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	24 May 2022	Test Procedure:	M5/3/3 & M13/3/2			
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						

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Met Lab Ref:	MC 411		Client Ref:	H1/B1 25 r	nm Ø Square Twisted Bar	
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 6.5
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon stee with an even and homogenous uniform structure.					material to be a carbon steel

For Sandberg LLP Date: 9 June 2022

Neale Fetter - Assistant Manager Metallurgy Department

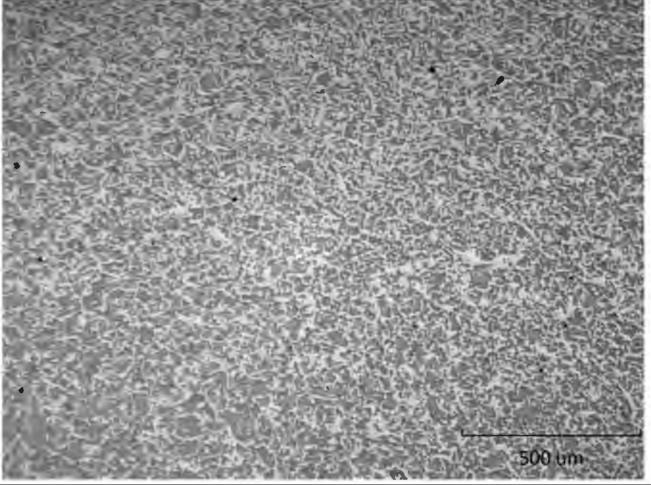




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Certificate:	72435/M/4	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	24 May 2022	Test Procedure:	M5/3/3 & M13/3/2			
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 412		Client Ref:	H1-L3/B1 1	6 mm Ø Plain Round Bar	
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 7.0
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					material to be a carbon steel

For Sandberg LLP Date: 9 June 2022

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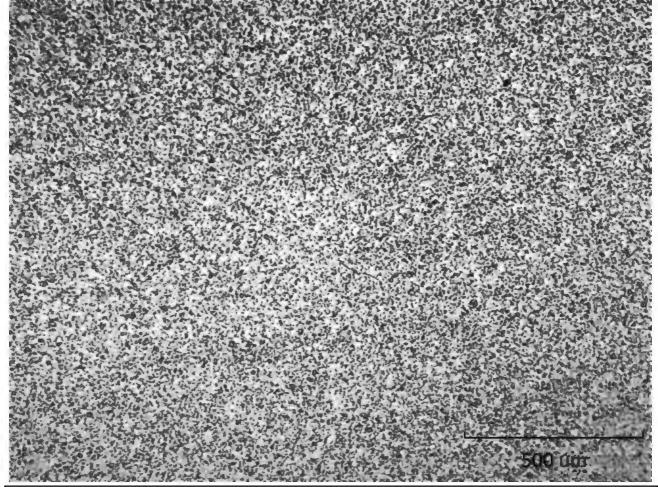




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Certificate:	72435/M/5	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	24 May 2022 Test Procedure: M5/3/3 & M13/3/2					
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 413			Client Ref:	H1-L3/L1 6	mm Ø Plain Round Bar
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 8.5
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					material to be a carbon steel

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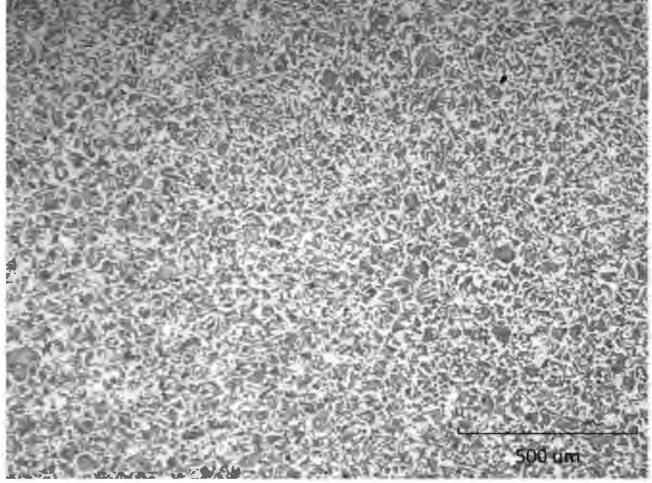




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Certificate:	72435/M/6	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date: 24 May 2022 Test Procedure: M5/3/3 & M13/3/2						
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 414		Client Ref:	H1-R2/B1	L6 mm Ø Plain Round Bar	
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 7.0
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					

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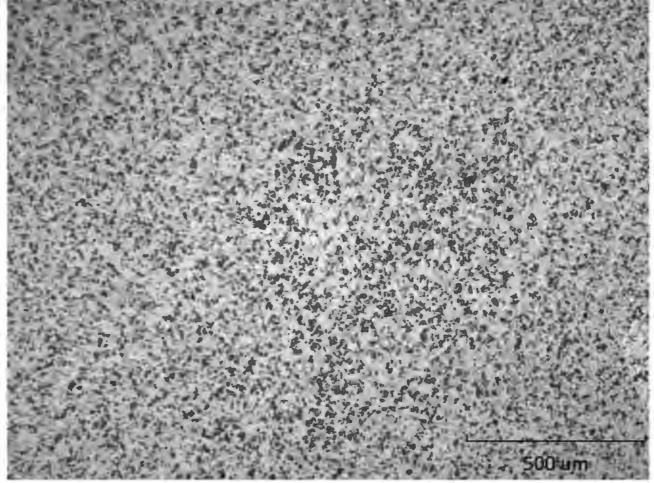




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Certificate:	72435/M/7	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	24 May 2022 Test Procedure : M5/3/3 & M13/3/2					
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 415		Client Ref:	H1-R2/I16	5 mm Ø Plain Round Bar
Examined By:	AK	Mag: x 84	Etchant:	2% Nital	Grain Size Index: 7.5
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.				

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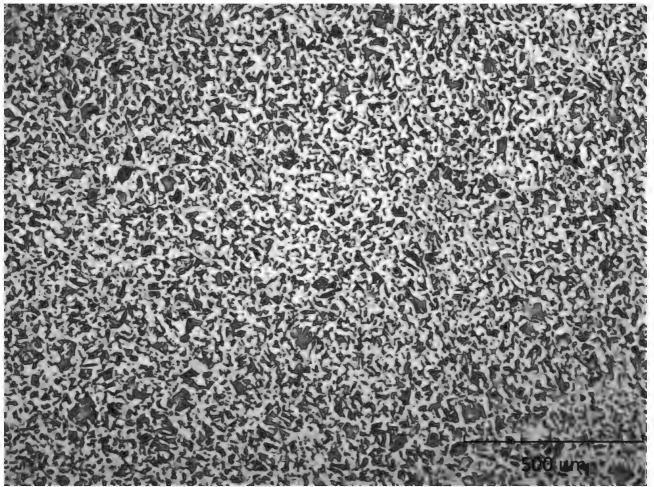




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Certificate:	72435/M/8	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	24 May 2022 Test Procedure : M5/3/3 & M13/3/2					
Client Details:	Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.					



Met Lab Ref:	MC 416		Client Ref:	H2-P2/B1 2	25 mm Ø Square Twisted Bar	
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 7.0
Comments:		Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.				

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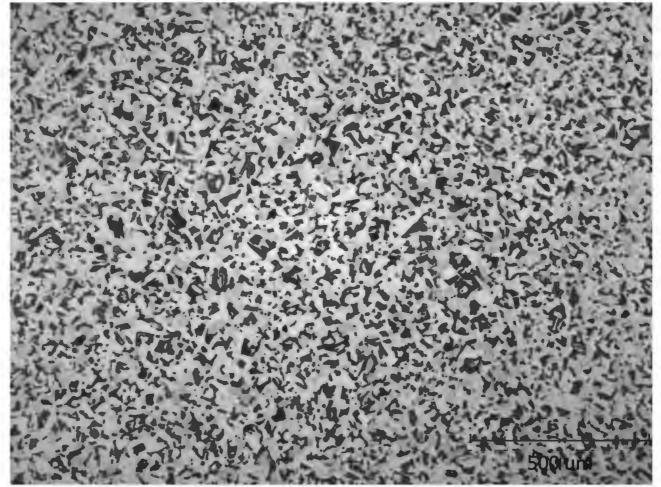




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Certificate:	72435/M/9	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date: 24 May 2022 Test Procedure: M5/3/3 & M13/3/2						
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 417		Client Ref:	H2-P2/B2 2	25 mm Ø Square Twisted Bar	
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 6.5
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					

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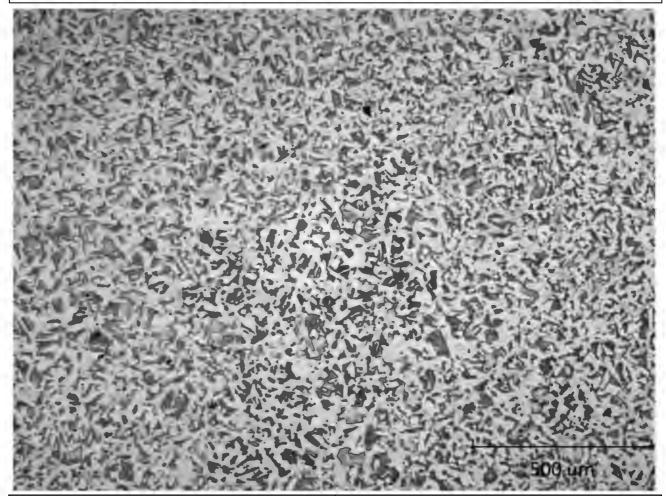




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Certificate:	72435/M/10	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	24 May 2022 Test Procedure : M5/3/3 & M13/3/2					
Client Details:	ent Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.					



Met Lab Ref:	MC 418		Client Ref:	H2/B1 25 mm Ø Square Twisted Bar		
Examined By:	AK	Mag: x 84	Etchant:	2% Nital	Grain Size Index: 6.5	
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel					

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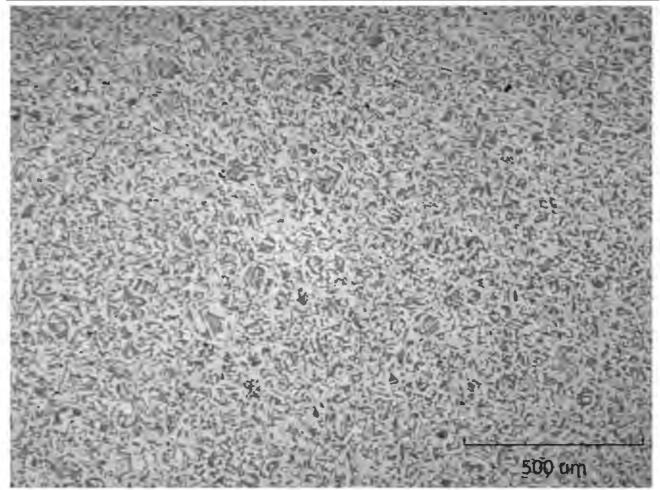




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Certificate:	72435/M/11	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	24 May 2022 Test Procedure: M5/3/3 & M13/3/2					
Client Details:	McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.					



Met Lab Ref:	MC 419		Client Ref:	H2-L2/B1 1	.6 mm Ø Plain Round Bar	
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 7.5
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					

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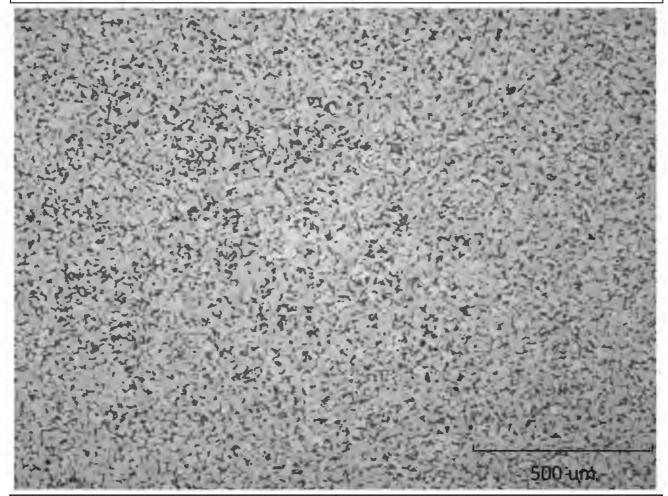




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Certificate:	72435/M/12	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	24 May 2022 Test Procedure : M5/3/3 & M13/3/2					
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 420			Client Ref:	H2-L2/L1 6 mm Ø Plain Round Bar	
Examined By:	AK Mag: x 84		Etchant:	2% Nital	Grain Size Index: 8.0	
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					

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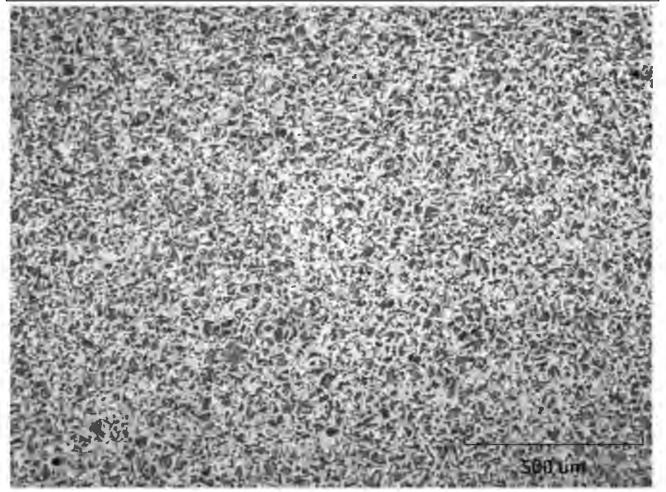




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Certificate:	72435/M/13	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	24 May 2022	Test Procedure:	M5/3/3 & M13/3/2			
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 421		Client Ref:	H2-R1/B1 16 mm Ø Plain Round Bar		
Examined By:	AK Mag: x 84		Etchant:	2% Nital	Grain Size Index: 7.5	
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					material to be a carbon steel

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Certificate:	72435/M/14	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	VM			
Test Date:	Pate: 24 May 2022 Test Procedure: M5/3/3 & M13/3/2					
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						

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Met Lab Ref:	MC 422		Client Ref:	H2-R1/L1 6 mm Ø Plain Round Bar		
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 8.0
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					material to be a carbon steel

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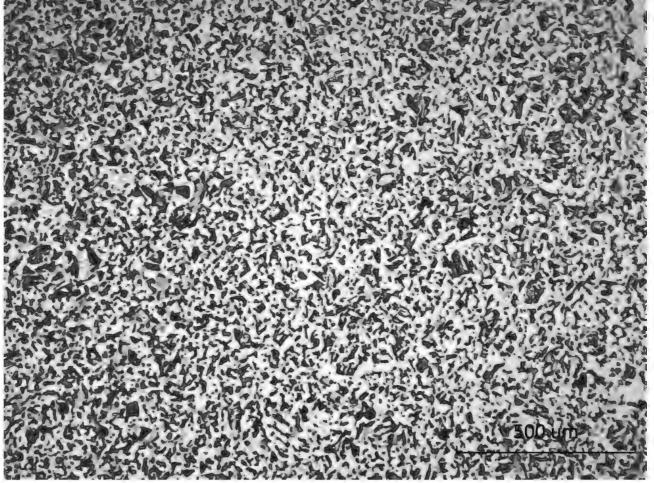




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Certificate:	72435/M/15	Order Ref:	M-ETF149/0056			
Samples Received:	24 May 2022	Tested By:	VM			
Test Date:	27 May 2022	27 May 2022 Test Procedure: M5/3/3 & M13/3/2				
Client Details:	Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.					



Met Lab Ref:	MC 462		Client Ref: H3-LC6/B1 25 mm Ø Square T		25 mm Ø Square Twisted Bar	
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 7.0
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					

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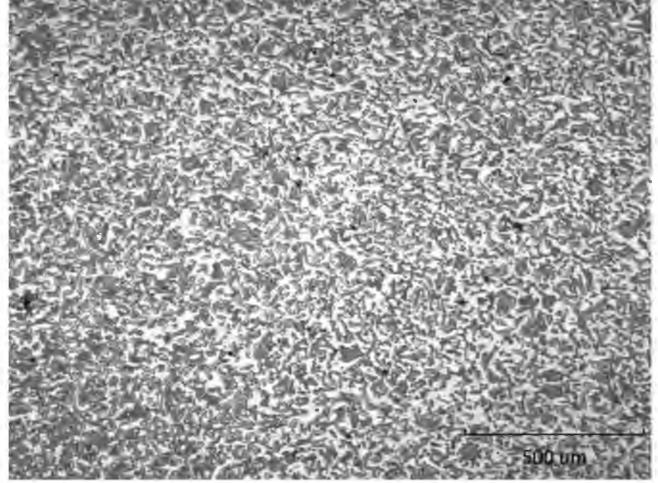




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Certificate:	72435/M/16	Order Ref:	M-ETF149/0056			
Samples Received:	24 May 2022	Tested By:	VM			
Test Date:	27 May 2022 Test Procedure : M5/3/3 & M13/3/2					
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 463			AC 463 Client Ref: H3-LC6/B2 25 mm Ø Square Twis			
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 6.5	
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					material to be a carbon steel	

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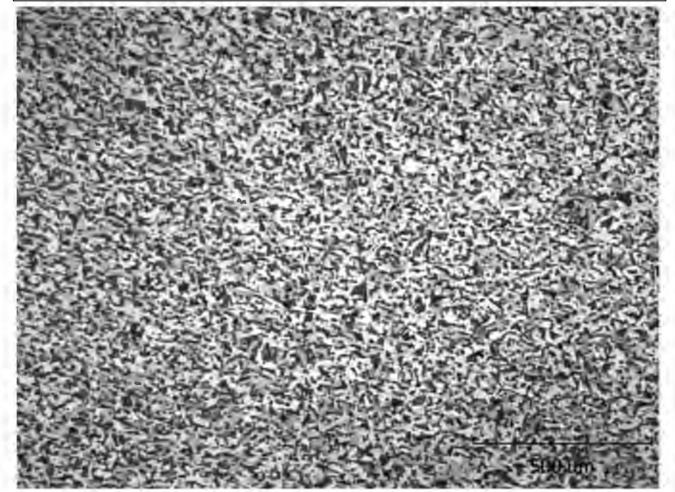




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Certificate:	72435/M/17	Order Ref:	M-ETF149/0056			
Samples Received:	24 May 2022	Tested By:	VM			
Test Date:	27 May 2022	Test Procedure:	M5/3/3 & M13/3/2			
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 464			MC 464 Client Ref: H3-P1/B1 25 mm Ø Square Tw		
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 6.5
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					

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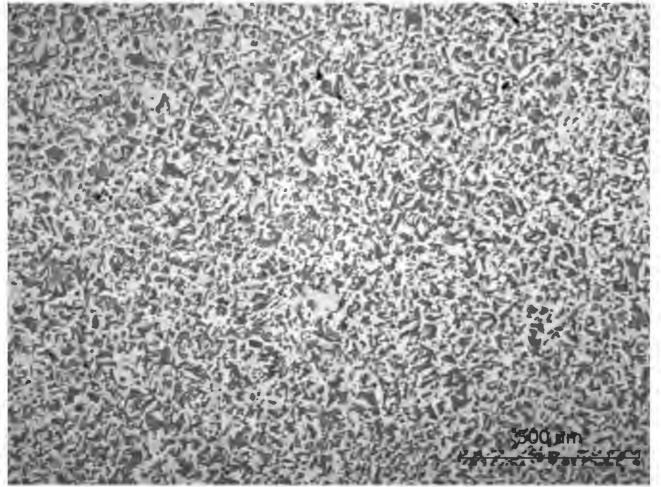




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Certificate:	72435/M/18	Order Ref:	M-ETF149/0056			
Samples Received:	24 May 2022	Tested By:	VM			
Test Date:	27 May 2022	Test Procedure:	M5/3/3 & M13/3/2			
Client Details:	Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.					



Met Lab Ref:	MC 465		MC 465 Client Ref: H3-F		H3-P2/B1	-P2/B1 25 mm Ø Square Twisted Bar	
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 6.5	
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.						

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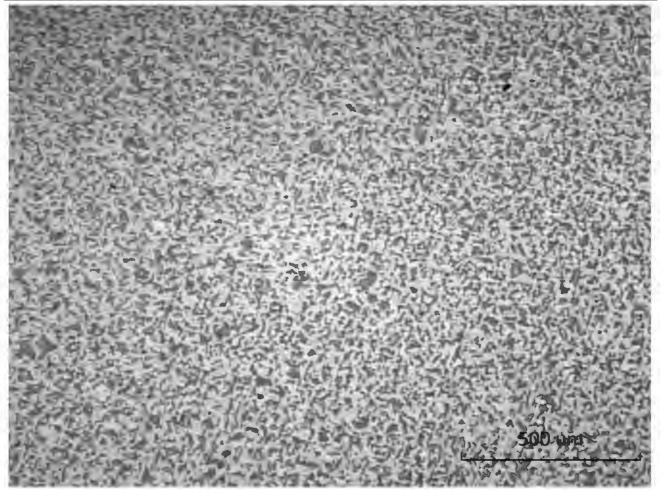




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Certificate:	72435/M/19	Order Ref:	M-ETF149/0056			
Samples Received:	24 May 2022	Tested By:	VM			
Test Date:	27 May 2022	Test Procedure:	M5/3/3 & M13/3/2			
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 466			Client Ref:	H3-R2/B1	20 mm Ø Square Twisted Bar
Examined By:	AK	Mag:	x 84	Etchant:	2% Nital	Grain Size Index: 7.5
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					

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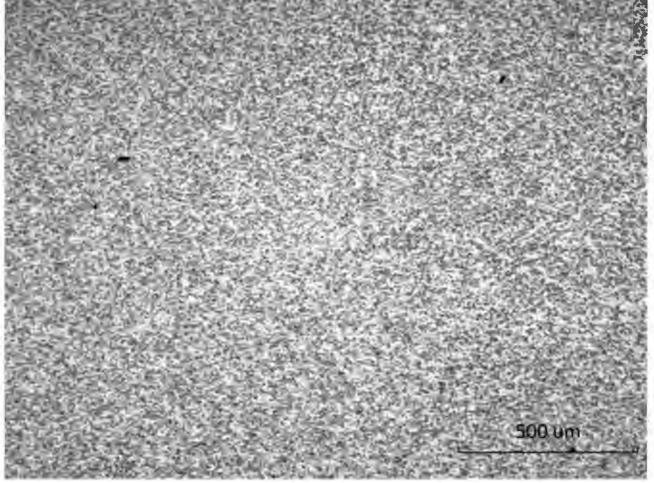




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Certificate:	72435/M/20	Order Ref:	M-ETF149/0056			
Samples Received:	24 May 2022	Tested By:	VM			
Test Date:	27 May 2022	Test Procedure:	M5/3/3 & M13/3/2			
Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.						



Met Lab Ref:	MC 467		MC 467 Client Ref: H3-R2/L1 6 mm Ø Plain		6 mm Ø Plain Round Bar	
Examined By:	AK	Mag: x8		Etchant:	2% Nital	Grain Size Index: 9.0
Comments:	Material is a ferrite matrix with pearlite present. The image shows the material to be a carbon steel with an even and homogenous uniform structure.					

For Sandberg LLP Date: 9 June 2022

Neale Fetter - Assistant Manager Metallurgy Department



Sandberg LLP 5 Carpenters Place Clapham High Street London, SW4 7TD



TENSILE TEST CERTIFICATE BS EN ISO 6892-1:2019 B

Tel: 020 7565 7000 020 7565 7100 Fax: email: mail@sandberg.co.uk web: www.sandberg.co.uk

Certificate:	72435/M/21	Order Ref:	M-ETF149/0056			
Samples Received:	12/24 May 2022	Tested By:	AT/NAF			
Test Date:	18/30 May 2022	Test Procedure:	M16/3/3			
Client Details:	McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.					

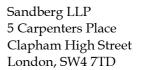
	Area	0.2% Proof		Ultimate Tensile		Stress	Elongation
Specimen Reference	mm²	Load kN	Stress N/mm ²	Load kN	Stress N/mm²	Ratio Rm/Re	%
MC 410 H1-P1/B2 32 mm Ø square twisted bar	968.39	446.87	461	539.38	557	1.21	N/D*
MC 411 H1/B1 25 mm Ø square twisted bar	630.18	306.88	487	369.14	586	1.20	N/D*
MC 462 H3-LC6/B1 25 mm Ø square twisted bar	660.02	316.26	479	367.31	556	1.16	N/D*
MC 463 H3-LC6/B2 25 mm Ø square twisted bar	659.12	322.62	489	379.27	575	1.18	N/D*
MC 465 H3-P2/B1 25 mm Ø square twisted bar	644.67	311.57	483	381.15	591	1.22	N/D*
Specification:							
BS 4449:1997 (For refe	• • •						
	Grade 250		250 min			1.15 min	22 min
	Grade 460A		460 min			1.05 min	12 min
	Grade 460B		460 min			1.08 min	14 min

Comments:	* Samples fractured in grips so no elongation was recorded.
	The tensile properties of samples MC 410, MC 411, MC 462, MC 463 and MC 465 would be
	considered typical of a cold-worked reinforcing bar.

For Sandberg LLP Date: 9 June 2022

Neale Fetter - Assistant Manager Metallurgy Department







TENSILE TEST CERTIFICATE BS EN ISO 6892-1:2019 A224

Tel: 020 7565 7000 Fax: 020 7565 7100 email: mail@sandberg.co.uk web: www.sandberg.co.uk

Certificate:	72435/M/22	Order Ref:	M-ETF149/0056			
Samples Received:	12 May 2022	Tested By:	AT			
Test Date:	20 May 2022	Test Procedure:	M10/3/3			
Client Details:	McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.					

	Area	Upper Yield		Ultimate Tensile		Stress	Elongation
Specimen Reference	mm ²	Load kN	Stress N/mm²	Load kN	Stress N/mm²	Ratio Rm/Re	%
MC 412 H1-L3/B1 - 16 mm Ø Plain Round Bar	196.83	64.38	327	98.37	500	1.53	34.0
MC 413 H1-L3/L1 - 6 mm Ø Plain Round Bar	32.18	9.88	307*	13.98	434	1.42	37.5
MC 414 H1-R2/B1 - 16 mm Ø Plain Round Bar	197.97	65.85	333	98.79	499	1.50	32.0
MC 415 H1-R2/L1 - 6 mm Ø Plain Round Bar	33.16	9.29	280*	14.24	429	1.53	36.5
MC 419 H2-L2/B1 - 16 mm Ø Plain Round Bar	199.93	60.80	304	96.05	480	1.58	35.0
Specification:							
BS 4449:1997							
	Grade 250		250 min			1.15 min	22 min
	Grade 460A		460 min			1.05 min	12 min
	Grade 460B		460 min			1.08 min	14 min

Comments:

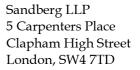
For Sandberg LLP

Date: 9 June 2022

Neale Fetter - Assistant Manager Metallurgy Department

^{*} Upper yield phenomenon was not exhibited so 0.2% proof stress has been reported instead. The tensile properties of samples MC 412, MC 413, MC 414, MC 415 and MC 419 would comply with the requirements for a grade 250 reinforcing bar.







TENSILE TEST CERTIFICATE BS EN ISO 6892-1:2019 A224

Tel: 020 7565 7000 Fax: 020 7565 7100 email: mail@sandberg.co.uk web: www.sandberg.co.uk

Certificate:	72435/M/23	Order Ref:	M-ETF149/0056			
Samples Received:	12/24 May 2022	Tested By:	АТ			
Test Date:	20/27 May 2022	Test Procedure:	M10/3/3			
Client Details:	McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.					

	Area	Upper	Yield	Ultimat	e Tensile	Stress	Elongation
Specimen Reference	mm²	Load kN	Stress N/mm²	Load kN	Stress N/mm²	Ratio Rm/Re	%
MC 420 H2-L2/L1 - 6 mm Ø Plain Round Bar	34.52	9.55	277*	13.55	393	1.42	36.5
MC 421 H2-R1/B1 - 16 mm Ø Plain Round Bar	195.69	65.38	334	93.80	479	1.43	34.0
MC 422 H2-R1/L1 - 6 mm Ø Plain Round Bar	34.76	10.75	309*	16.33	470	1.52	26.5
MC 467 H3-R2/L1 - 6 mm Ø Plain Round Bar	33.67	11.59	344*	15.32	455	1.32	40.0
Specification:							
·	4449:1997						
	Grade 250		250 min			1.15 min	22 min
	Grade 460A		460 min			1.05 min	12 min
	Grade 460B		460 min			1.08 min	14 min

Comments	
	1

^{*} Upper yield phenomenon was not exhibited so 0.2% proof stress has been reported instead. The tensile properties of samples MC 420, MC 421, MC 422 and MC 467 would comply with the requirements for a grade 250 reinforcing bar.

For Sandberg LLP Date: 9 June 2022

> N. lette Neale Fetter - Assistant Manager Metallurgy Department





0262

Sandberg LLP 5 Carpenters Place Clapham High Street London, SW4 7TD

TENSILE TEST CERTIFICATE BS EN ISO 6892-1:2019 A224

Tel: 020 7565 7000 Fax: 020 7565 7100 email: mail@sandberg.co.uk web: www.sandberg.co.uk

Certificate:	72435/M/24	Order Ref:	M-ETF149/0056
Samples Received:	12 May 2022	Tested By:	АТ
Test Date:	20 May 2022	Test Procedure:	M10/3/3
Client Details:	McGee Group, 5 Hatfields, Level 9 Alt	to Tower, London, SE1	9PG.

_	Area	0.2%	Proof	Ultimat	e Tensile	Stress	Elongation
Specimen Reference	mm²	Load kN	Stress N/mm²	Load kN	Stress N/mm²	Ratio Rm/Re	%
MC 409 H1-P1/B1 25 mm Ø square twisted bar	249.13	105.08	422	135.91	546	1.29	20.0
MC 416 H2-P2/B1 25 mm Ø square twisted bar	322.38	153.50	476	191.90	595	1.25	19.5
MC 417 H2-P2/B2 25 mm Ø square twisted bar	320.47	127.21	397	165.50	516	1.30	18.5
MC 418 H2/B1 25 mm Ø square twisted bar	309.15	129.39	419	164.00	530	1.27	22.0
MC 464 H3-P1/B1 25 mm Ø square twisted bar	381.17	169.95	446	210.75	553	1.24	19.5
MC 466 H3-R2/B1 20 mm Ø square twisted bar	256.45	114.45	446	143.67	560	1.26	17.0
Specification:	nanaa anki						
BS 4449:1997 (For refe	rence only) Grade 250		250 min			1.15 min	22 min
	Grade 460A		460 min			1.15 min	12 min
	Grade 460B		460 min			1.08 min	14 min

Comments:

Due to mechanical damage, the above samples were tested as reduced section machined test pieces.

The tensile properties of samples MC 409, MC 416, MC 417, MC 418, MC 464 and MC 466 would be considered typical of a square twisted reinforcing bar.

For Sandberg LLP Date: 9 June 2022

Neale Fetter - Assistant Manager Metallurgy Department



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web: www.sandberg.co.uk

TEST CERTIFICATE

72435/M/25 Samples Received: 12 May 2022 Test Date: 18 May 2022 M-ETF149/0056 Tested By: Metaltech Services Limited Test Procedure: OES	
Certificate: 72435/M/25 Reference: M-ETF149/0056	

McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG. Client Details:

				ៜ	emical Con	Chemical Composition %								
Met Lab Ref	Client Description	၁	Si	Mn	Ь	S	ວັ	Мо	Z	A	Cu	Nb	^	CEV
MC 409	H1-P1/B1 25 mm Ø Square Twisted	0.26	0.023	0.63	0.037	0.051	<0.06	<0.02	<0.035	<0.01	0.049	<0.01	<0.025	0.368
MC 410	H1-P1/B2 32 mm Ø Square Twisted	0.24	0.049	0.63	0.012	0.042	<0.06	<0.02	0.042	<0.01	0.084	<0.01	<0.025	0.353
MC 411	Bar H1/B1 25 mm Ø Square Twisted Bar	0.19	0.039	0.64	0.011	0.051	<0.06	<0.02	0.153	<0.01	0.274	<0.01	<0.025	0.325
Specification:	BS 4449:1997 (For reference only) Grade 250	0.27			0.065	0.065								0.45

Comments:

Results contained in this certificate are outside the UKAS accreditation for this laboratory but have been performed on our behalf by another laboratory that is so accredited at their laboratory. Metaltech Services Limited Report No. MSL 7208-1.

For Sandberg LLP

Date: 09 June 2022

Neale Fetter - Assistant Manager Metallurgy Department

Materials, samples and test specimens are retained for a period of 2 months from the issue of the final report.

Where test results are given, the results and our conclusions relate only to the samples tested and apply to the sample(s) as received, except where sampling has been conducted by Sandberg LLP. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



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email: mail@sandberg.co.uk web: www.sandberg.co.uk

TEST CERTIFICATE

18 May 2022	OES	
Test Date:	Test Procedure:	
12 May 2022	Metaltech Services Limited	
Samples Received:	Tested By:	
72435/M/26	M-ETF149/0056	
Certificate:	Reference:	

Client Details: McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.

				Che	mical Com	Chemical Composition %								
Met Lab Ref	Client Description	C	įS	Mn	d	S	Cr	Mo	N	Al	no	qN	۸	CEV
MC 412	H1-L3/B1 16 mm Ø Plain Round Bar	0.29	0.073	0.56	0.035	0.023	<0.06	<0.02	0.071	<0.01	0.077	<0.01	<0.025	0.393
MC 414	H1-R2/B1 16 mm Ø Plain Round	0:30	0.071	0.58	0.015	0.021	<0.06	<0.02	0.043	<0.01	0.077	<0.01	<0.025	0.405
MC 416	Baf H2-P2/B1 25 mm Ø Square Twisted Bar	0.21	0.071	1.24	0.016	0.022	<0.06	<0.02	<0.035	<0.01	<0.015	<0.01	<0.025	0.417
Specification:	BS 4449:1997 (For reference only) Grade 250	0.27		_	0.065	0.065								0.45

Comments: Result so acc

Results contained in this certificate are outside the UKAS accreditation for this laboratory but have been performed on our behalf by another laboratory that is so accredited at their laboratory. Metaltech Services Limited Report No. MSL 7208-1.

Date: 09 June 2022

For Sandberg LLP

Neale Fetter - Assistant Manager Metallurgy Department

Materials, samples and test specimens are retained for a period of 2 months from the issue of the final report.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Where test results are given, the results and our conclusions relate only to the samples tested and apply to the sample(s) as received, except where sampling has been conducted by Sandberg LLP.



020 7565 7000

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TEST CERTIFICATE

18 May 2022	OES	
Test Date:	Test Procedure:	
12 May 2022	Metaltech Services Limited	
Samples Received:	Tested By:	
72435/M/27	M-ETF149/0056	
Certificate:	Reference:	

McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG. Client Details:

					emical Con	Chemical Composition %								
Met Lab Ref	Client Description	3	ļS	Mn	d	S	Cr	Мо	N	Al	Cu	Nb	۸	CEV
MC 417	H2-P2/B2 25 mm Ø Square Twisted	0.18	0.029	0.50	0.033	0.036	<0.06	<0.02	0.089	<0.01	0.165	<0.01	<0.025	0.280
MC 418	H2/B1 25 mm Ø Square Twisted	0.23	0.042	0.79	0.040	0.042	<0.06	<0.02	<0.035	<0.01	<0.015	<0.01	<0.025	0.362
MC 419	H2-L2/B1 16 mm Ø Plain Round Bar	0.23	0.079	0.63	0.035	0.018	<0.06	<0.02	<0.035	<0.01	0.053	<0.01	<0.025	0.339
Specification:	BS 4449:1997 (For reference only)	76.0			0.065	0.065								0.45
	חרק בחם וח	74.0			20.0	20.0								

Comments:

Results contained in this certificate are outside the UKAS accreditation for this laboratory but have been performed on our behalf by another laboratory that is so accredited at their laboratory. Metaltech Services Limited Report No. MSL 7208-1.

Date: 09 June 2022

For Sandberg LLP

Neale Fetter - Assistant Manager Metallurgy Department

Materials, samples and test specimens are retained for a period of 2 months from the issue of the final report.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Where test results are given, the results and our conclusions relate only to the samples tested and apply to the sample(s) as received, except where sampling has been conducted by Sandberg LLP.



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TEST CERTIFICATE

Test Date: 18/27 May 2022	Test Procedure: OES	
12/24 May 2022	Metaltech Services Limited	
Samples Received:	Tested By:	
72435/M/28	M-ETF149/0056	
Certificate:	Reference:	

9PG.
SE1 9PG.
London,
Tower,
. Alto
Level 9
Hatfields,
e Group, 5
McGee
Client Details:

				Ç	Chemical Composition %	position %	,,,							
Met Lab Ref	Client Description	C	Si	Mn	d	S	Cr	Mo	IN	AI	no	qN	۸	CEV
MC 421	H2-R1/B1 16 mm Ø Plain Round	0.25	0.013	0.59	0.010	860.0	90'0>	0.037	0.148	0.026	0.173	<0.01	<0.025	0.377
MC 462	H3-LC6/B1 25 mm Ø Square	0.17	0.086	1.24	0.014	0.022	<0.06	<0.02	<0.035	<0.01	<0.015	<0.01	<0.025	0.377
MC 463	H3-LC6/B2 25 mm Ø Square Twisted Bar	0.18	0.078	1.22	0.021	0.027	<0.06	<0.02	<0.035	<0.01	<0.015	<0.01	<0.025	0.383
Specification:	BS 4449:1997 (For reference only) Grade 250	0.27			0.065	0.065								0.45

Results contained in this certificate are outside the UKAS accreditation for this laboratory but have been performed on our behalf by another laboratory that is so accredited at their laboratory. Metaltech Services Limited Report No. MSL 7208-1 & 7233-2. Comments:

For Sandberg LLP

Neale Fetter - Assistant Manager Metallurgy Department

Date: 09 June 2022

Materials, samples and test specimens are retained for a period of 2 months from the issue of the final report.

Where test results are given, the results and our conclusions relate only to the samples tested and apply to the sample(s) as received, except where sampling has been conducted by Sandberg LLP. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



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TEST CERTIFICATE

27 May 2022 OES Test Procedure: Test Date: **Metaltech Services Limited** 24 May 2022 Samples Received: Tested By: M-ETF149/0056 72435/M/29 Certificate: Reference:

McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG. Client Details:

				မှီ	mical Com	Chemical Composition %								
Met Lab Ref	Client Description	С	Si	Mn	d	S	Cr	Мо	IN	AI	п	Nb	^	CEV
MC 464	H3-P1/B1 25 mm Ø Square Twisted	0.20	0.062	1.06	0.027	0.031	<0.06	<0.02	<0.035	<0.01	<0.015	<0.01	<0.025	0.377
MC 465	H3-P2/B1 25 mm Ø Square Twisted	0.22	0.059	1.06	0.047	0.037	<0.06	<0.02	<0.035	<0.01	<0.015	<0.01	<0.025	0.397
MC 466	Bal H3-R2/B1 20 mm Ø Square Twisted Bar	0.19	0.071	0.64	0.010	0.050	<0.06	<0.02	0.083	<0.01	0.176	<0.01	<0.025	0.314
Specification:	BS 4449:1997 (For reference only) Grade 250	0.27			0.065	0.065								0.45

Comments:

Results contained in this certificate are outside the UKAS accreditation for this laboratory but have been performed on our behalf by another laboratory that is so accredited at their laboratory. Metaltech Services Limited Report No. MSL 7233-2.

For Sandberg LLP

Neale Fetter - Assistant Manager Metallurgy Department

Date: 09 June 2022

Materials, samples and test specimens are retained for a period of 2 months from the issue of the final report.

Where test results are given, the results and our conclusions relate only to the samples tested and apply to the sample(s) as received, except where sampling has been conducted by Sandberg LLP. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



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TEST CERTIFICATE

25 May 2022	ICP-OES
Test Date:	Test Procedure:
12 May 2022	Rotech Laboratories
Samples Received:	Tested By:
72435/M/30	M-ETF149/0056
Certificate:	Reference:

McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG. Client Details:

				G.	mical Con	Chemical Composition %								
Met Lab Ref	Client Description	C	įS	Mn	۵	S	Cr	Mo	N	Al	Cu	qN	^	CEV
MC 413	H1-L3/L1 - 6 mm Ø Plain Round Bar	0.15	0.02	0.61	0.024	0.037	0.03	0.01	90:0	<0.01	90.0	<0.01	<0.01	0.270
MC 415	H1-R2/L1 - 6 mm Ø Plain Round Bar	0.17	0.03	0.62	0.026	0.043	0.03	0.01	90.0	<0.01	90.0	<0.01	<0.01	0.291
MC 420	H2-L2/L1 - 6 mm Ø Plain Round Bar	0.11	<0.01	0.39	0.011	0.039	0.03	0.01	90:0	<0.01	0.10	<0.01	<0.01	0.196
Specification:	BS 4449:1997 (For reference only) Grade 250	0.27			0.065	0.065								0.45

Comments:

Results contained in this certificate are outside the UKAS accreditation for this laboratory but have been performed on our behalf by another laboratory that is so accredited at their laboratory. Rotech Laboratories Report No. 22-05802.

For Sandberg LLP

Date: 09 June 2022

Neale Fetter - Assistant Manager Metallurgy Department

Materials, samples and test specimens are retained for a period of 2 months from the issue of the final report.

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

Where test results are given, the results and our conclusions relate only to the samples tested and apply to the sample(s) as received, except where sampling has been conducted by Sandberg LLP.



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London, SW4 7TD

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TEST CERTIFICATE

25 May/ 07 June 2022	ICP-OES
Test Date:	Test Procedure:
12/24 May 2022	Rotech Laboratories
Samples Received:	Tested By:
72435/M/31	M-ETF149/0056
Certificate:	Reference:

McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.

Client Details:

				နိ	mical Com	Chemical Composition %								
Met Lab Ref	Client Description	2	Si	Mn	Ь	S	Ċ	οМ	ï	AI	Cu	Nb	^	CEV
MC 422	H2-R1/L1 - 6 mm Ø Plain Round Bar	0.20	0.05	0.64	0.011	0:030	0.04	0.01	0.04	<0.01	90.0	<0.01	<0.01	0.325
MC 467	H3-R2/L1 6 mm Ø Plain Round Bar	0.048	<0.01	0.38	0.028	0.035	0.03	<0.01	0.05	<0.01	90.0	<0.01	<0.01	0.129
Specification:	BS 4449:1997 (For reference only) Grade 250	0.27			0.065	0.065								0.45

Results contained in this certificate are outside the UKAS accreditation for this laboratory but have been performed on our behalf by another laboratory that is so accredited at their laboratory. Rotech Laboratories Report No. 22-05802 and 22-06248. Comments:

For Sandberg LLP

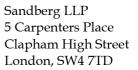
Date: 09 June 2022

Neale Fetter - Assistant Manager Metallurgy Department

Materials, samples and test specimens are retained for a period of 2 months from the issue of the final report.

Where test results are given, the results and our conclusions relate only to the samples tested and apply to the sample(s) as received, except where sampling has been conducted by Sandberg LLP. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.







TEST CERTIFICATE VICKERS HARDNESS BS EN ISO 6507-1:2018

Tel: 020 7565 7000 Fax: 020 7565 7100 email: mail@sandberg.co.uk web: www.sandberg.co.uk

Certificate:	72435/M/32	Order Ref:	M-ETF149/0056
Samples Received:	12 May 2022	Tested By:	VM
Test Date:	19-20 May 2022	Test Procedure:	M20/1/1
Client Details:	McGee Group, 5 Hatfields, Level 9 Alt	to Tower, London, SE1	9PG.

METALLURGY REFERENCE	MC 409	MC 410	MC 411	MC 412	MC 413
CLIENT REFERENCE	H1-P1/B1 25 mm Ø Square Twisted Bar	H1-P1/B2 32 mm Ø Square Twisted Bar	H1/B1 25 mm Ø Square Twisted Bar	H1-L3/B1 16 mm Ø Plain Round Bar	H1-L3/L1 6 mm Ø Plain Round Bar
LOAD/kg	10	10	10	10	10
	211	199	216	143	179
HARDNESS VALUE (SURFACE)	209	206	224	143	189
(SOM ACL)	208	200	215	144	195
AVERAGE HARDNESS VALUE (SURFACE)	209	202	218	143	188
HARDNESS VALUE	164	179	191	151	143
(CORE)	175	181	205	153	143
(55.1.2)	190	181	193	153	161
AVERAGE HARDNESS VALUE (CORE)	176	180	196	152	149

Comments: The above hardness values show that samples MC 409, MC 410, MC 411, MC 412 and MC 413 have not been quenched and self-tempered.

For Sandberg LLP Date: 9 June 2022

Neale Fetter - Assistant Manager Metallurgy Department







TEST CERTIFICATE VICKERS HARDNESS BS EN ISO 6507-1:2018

Tel: 020 7565 7000 Fax: 020 7565 7100 email: mail@sandberg.co.uk web: www.sandberg.co.uk

Certificate:	72435/M/33	Order Ref:	M-ETF149/0056
Samples Received:	12 May 2022	Tested By:	VM
Test Date:	18-20 May 2022	Test Procedure:	M20/1/1
Client Details:	McGee Group, 5 Hatfields, Level 9 Alt	to Tower, London, SE1	9PG.

METALLURGY REFERENCE	MC 414	MC 415	MC 416	MC 417	MC 418
CLIENT REFERENCE	H1-R2/B1 16 mm Ø Plain Round Bar	H1-R2/L1 6 mm Ø Plain Round Bar	H2-P2/B1 25 mm Ø Square Twisted Bar	H2-P2/B2 25 mm Ø Square Twisted Bar	H2/B1 25 mm Ø Square Twisted Bar
LOAD/kg	10	10	10	10	10
	148	133	198	184	193
HARDNESS VALUE (SURFACE)	148	138	203	192	163
(SONI ACL)	149	139	200	201	180
AVERAGE HARDNESS VALUE (SURFACE)	148	137	200	192	179
HARDNESS VALUE	148	154	186	151	202
(CORE)	152	156	179	155	196
(55.12)	149	130	178	173	192
AVERAGE HARDNESS VALUE (CORE)	150	147	181	159	197

Comments: The above hardness values show that samples MC 414, MC 415, MC 416, MC 417 and MC 418 have not been quenched and self-tempered.

For Sandberg LLP Date: 9 June 2022

Neale Fetter - Assistant Manager Metallurgy Department







TEST CERTIFICATE VICKERS HARDNESS BS EN ISO 6507-1:2018

Tel: 020 7565 7000 Fax: 020 7565 7100 email: mail@sandberg.co.uk web: www.sandberg.co.uk

Certificate:	72435/M/34	Order Ref:	M-ETF149/0056
Samples Received:	12/24 May 2022	Tested By:	VM
Test Date:	19-20/ May 2022	Test Procedure:	M20/1/1
Client Details:	McGee Group, 5 Hatfields, Level 9 Alt	to Tower, London, SE1	9PG.

METALLURGY REFERENCE	MC 419	MC 420	MC 421	MC 422	MC 462
CLIENT REFERENCE	H2-L2/B1 16 mm Ø Plain Round Bar	H2-L2/L1 6 mm Ø Plain Round Bar	H2-R1/B1 16 mm Ø Plain Round Bar	H2-R1/L1 6 mm Ø Plain Round Bar	H3-LC6/B1 25 mm Ø Square Twisted Bar
LOAD/kg	10	10	10	10	10
	142	142	152	192	209
HARDNESS VALUE (SURFACE)	145	144	159	207	207
(SOM ACL)	146	138	169	209	202
AVERAGE HARDNESS VALUE (SURFACE)	145	142	160	203	206
HARDNESS VALUE	137	126	140	184	146
(CORE)	136	133	141	178	155
(552)	138	148	154	159	164
AVERAGE HARDNESS VALUE (CORE)	137	135	145	174	155

Comments: The above hardness values show that samples MC 419, MC 420, MC 421, MC 422 and MC 462 have not been quenched and self-tempered.

For Sandberg LLP Date: 9 June 2022

Neale Fetter - Assistant Manager Metallurgy Department







TEST CERTIFICATE VICKERS HARDNESS BS EN ISO 6507-1:2018

Tel: 020 7565 7000 020 7565 7100 Fax: email: mail@sandberg.co.uk web: www.sandberg.co.uk

Certificate:	72435/M/35	Order Ref: M-ETF149/0056			
Samples Received:	24 May 2022	Tested By: VM			
Test Date:	May 2022	Test Procedure:	edure: M20/1/1		
Client Details:	McGee Group, 5 Hatfields, Level 9 Alto Tower, London, SE1 9PG.				

METALLURGY REFERENCE	MC 463	MC 464	MC 465	MC 466	MC 467
CLIENT REFERENCE	H3-LC6/B2 25 mm Ø Square Twisted Bar	H3-P1/B1 25 mm Ø Square Twisted Bar	H3-P2/B1 25 mm Ø Square Twisted Bar	H3-R2/B1 20 mm Ø Square Twisted Bar	H3-R2/L1 6 mm Ø Plain Round Bar
LOAD/kg	10	10	10	10	10
HARDNESS VALUE (SURFACE)	213	212	209	210	170
	217	205	213	207	186
	222	205	206	206	190
AVERAGE HARDNESS VALUE (SURFACE)	217	207	209	208	182
HARDNESS VALUE (CORE)	151	146	177	150	142
	156	153	174	158	153
	165	162	190	171	168
AVERAGE HARDNESS VALUE (CORE)	158	154	180	160	155

Comments: The above hardness values show that samples MC 463, MC 464, MC 465, MC 466 and MC 467 have not been quenched and self-tempered.

For Sandberg LLP Date: 9 June 2022

Neale Fetter - Assistant Manager Metallurgy Department



INVESTIGATION INSPECTION MATERIALS TESTING

Sandberg LLP 5 Carpenters Place London SW4 7TD

Tel: 020 7565 7000 email: mail@sandberg.co.uk web: www.sandberg.co.uk

AUTHORISATION FOR THE RETENTION OF MATERIALS, SAMPLES AND TEST SPECIMENS

CLIENT:	McGee Group (Holdings) Limited					
DATE REPORT ISSUED:	9 June 2022	JOB NO:	72435/M			

Materials, samples and test specimens are retained for a period of 2 months from the issue of the final report. Thereafter we will either dispose of them or retain them for a further period, whichever you require. However, we cannot accept requests for indefinite retention and the maximum period of retention without review by yourselves is 6 months.

A charge is made for storage at £50 per 0.025 m³ (approximately one cubic foot) or part thereof per quarter commencing at the end of our standard 2 month retention period. You will be invoiced for the storage charges at the start of each quarterly period.

If you wish to retain them for a specified period, or if you intend to collect any of these items, please complete the form below and return it to the above address with 1 month.

PLEASE KEEP UPPER HALF FOR REFERENCE

	PLEASE COMPLETE 'A' OR 'B' AND RETURN IF APPROPRIATE
A.	Please RETAIN/PREPARE FOR COLLECTION* all materials. * Delete as appropriate
	If materials are to be retained please give retention period
	If materials are to be collected please give intended date of collection
В.	If you require only certain materials, samples or test specimens to be retained or collected please describe them below and give retention period or intended collection date.

(Any material not listed will be disposed)

TO BE RETAINED/COLLEG	JOB NO:		
Contact Name	Signature		
Company	Date		

CONCEPT SITE INVESTIGATIONS **Euston Tower** Job No.: 22/3686 Site Name: Client: McGee Date Reported: 09/06/2022

Summary Test Report

	Determination of Moisture Content and Liquid and Plastic Limits by 4 Point Cone Method										
Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
Heading 1	D	Face S001A	0.15	Dark grey slightly micaceous silty CLAY	26	Natural	100	71	26	45	
Heading 1	D	Face S002A	0.80	Greyish brown slightly micaceous silty CLAY with rare pockets of light brown silty fine sand	26	Natural	100	71	26	45	
Heading 1	D	Face S003A	1.65	Greyish brown slightly micaceous silty CLAY	27	Natural	100	75	27	48	
Heading 2	D	Face S004A	0.10	Brown silty CLAY	29	Natural	100	75	27	48	
Heading 2	D	Face S005A	1.00	Greyish brown slightly micaceous slightly sandy silty CLAY with rare shell fragments and pockets of light grey silty fine sand	24	Natural	100	66	25	41	
Heading 2	D	Face S006A	2.00	Greyish brown slightly micaceous silty CLAY	27	Natural	100	73	26	47	

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

Remarks: The results reported relate only to the items tested or sampled.





Date - samples received:	20/04/2022				
		Observation of the second			
Date - sample testing commenced :	24/05/2022	by: 01/06/2022			
Date - sample testing completed :	26/05/2022	Date Approved: KM			
Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)					

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	Limits by	y 4 Poir	nt Cone	Method	
Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
Heading 1	U38	Pile L3 S010	1.20	Greyish brown silty CLAY	26		/6	/6	/6	/6	
		Disc 1									
Heading 1		Pile L3 S010 Disc 2	1.20	Greyish brown silty CLAY	26						
Heading 1	U38	Pile L3 S010 Disc 3	1.20	Greyish brown silty CLAY	27						
Heading 1		Pile L3 S010 Disc 4	1.20	Greyish brown silty CLAY	32						
Heading 1		Pile L3 S010 Disc 5	1.20	Greyish brown silty CLAY	29						
Heading 1		Pile L3 S010 Disc 6	1.20	Greyish brown silty CLAY	28						
Heading 1	U38	Pile L3 S010 Disc 7	1.20	Greyish brown silty CLAY	29						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS appropriate of



Remarks: The results reported relate only to the items tested or sampled.

Date - samples received:	20/04/2022	0		
Date - sample testing commenced :	24/05/2022	by:	01/06/2022	OOROEPT 47-49 Brunel Road, London W3 7XR
Date - sample testing completed :	26/05/2022	Date Approved:	KM	Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Approved Signatories:				

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	_imits by	/ 4 Poir	nt Cone	Method	
Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
Heading 1	U38	Pile R3 S011 Disc 1	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1		Pile R3 S011 Disc 2	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1	U38	Pile R3 S011 Disc 3	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1	U38	Disc 4	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1		Pile R3 S011 Disc 5	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	23						
Heading 1		Pile R3 S011 Disc 6	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1	U38	Pile R3 S011 Disc 7	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

Remarks: The results reported relate only to the items tested or sampled.

Date - samples received: 20/04/2022





Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	- K Mazerant KM (Lab M	Ingr)	
Date - sample testing completed :	26/05/2022	Date Approved:	KM	Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Date - sample testing commenced :	24/05/2022	by:	01/06/2022	COROCET 47-49 Brunel Road, London W3 7XR
Date - samples received:	20/04/2022	Observation I / Assessment		

Summary Test Report

	Determination of Moisture Content and Liquid and Plastic Limits by 4 Point Cone Method										
Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
Heading 1	_	Pile L4 S012 Disc 1	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1	U38	Pile L4 S012 Disc 2	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1	U38	Pile L4 S012 Disc 3	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1	U38	Pile L4 S012 Disc 4	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1		Pile L4 S012 Disc 5	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1	U38	Pile L4 S012 Disc 6	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1	U38	Pile L4 S012 Disc 7	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1	U38	Pile L4 S012 Disc 8	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS ASSOCIATION OF GROUPE TO IN-



Remarks: The results reported relate only to the items tested or sampled.

Date - samples received:	20/04/2022	0					
Date - sample testing commenced :	24/05/2022	by:	01/06/2022	OOROEPT 47-49 Brunel Road, London W3 7XR			
Date - sample testing completed :	26/05/2022	Date Approved:	KM	Tel: 02087401553 Email: lab@conceptconsultants.co.uk			
Approved Signatories:	Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)						

CONCEPT SITE INVESTIGATIONS Site Name: **Euston Tower** Job No.: 22/3686 Client: McGee Date Reported: 16/06/2022

Summary Test Report

	Determination of Moisture Content and Liquid and Plastic Limits by 4 Point Cone Method										
Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
Heading 3	D	Face S030A	0.20	Dark grey slightly micaceous silty CLAY	34	Natural	100	86	29	57	
Heading 3	D	Face S031A	1.05	Greyish brown slightly micaceous silty CLAY with rare pockets of light brown silty fine sand	28	Natural	100	80	27	53	
Heading 3	D	Face S032A	1.95	Greyish brown slightly micaceous silty CLAY	30	Natural	100	80	28	52	

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method



Remarks: The results reported relate only to the items tested or sampled.

Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	- K Mazerant KM (Lab M	ngr)	
Date - sample testing completed :	13/06/2022	Date Approved:	KM	Tel: 02087401553 Email: lab@co
Date - sample testing commenced :	06/06/2022	by:	15/06/2022	OOROEPT 47-49 Brunel Road, Lon
Date - samples received:	25/05/2022	Observation I / Assessment		

ondon W3 7XR conceptconsultants.co.uk

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	Limits by	/ 4 Poir	nt Cone		
Borehole	Sample		Depth	Description	Natural Moisture Content	Washed Natural	Passing 425 μm sieve	Liquid Limit	Plastic Limit	Plasticity Index	Remarks
No.	Type	No.	m 2.50	Charlish hasses silks Ol AV	%		%	%	%	%	
Heading 3		Pile C2 S035 Disc 1	3.50	Greyish brown silty CLAY	27						
Heading 3	U38	Pile C2 S035 Disc 2	3.50	Greyish brown silty CLAY	28						
Heading 3	U38	Pile C2 S035 Disc 3	3.50	Greyish brown silty CLAY	27						
Heading 3	U38	Pile C2 S035 Disc 4	3.50	Greyish brown silty CLAY	27						
Heading 3		Pile C2 S035 Disc 5	3.50	Greyish brown silty CLAY	28						
Heading 3		Pile C2 S035 Disc 6	3.50	Greyish brown silty CLAY	27						
Heading 3		Pile C2 S035 Disc 7	3.50	Greyish brown silty CLAY	27						
		Pile C2 S035 Disc 8	3.50	Greyish brown silty CLAY	27						
Heading 3	U38	Pile C2 S035 Disc 9	3.50	Greyish brown silty CLAY	27						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS associated detections as



Remarks: The results reported relate only to the items tested or sampled.

Date - samples received:	25/05/2022				
Date - sample testing commenced :	06/06/2022	Checked / Approved by:	15/06/2022	47.40 P	OOROEPT runel Road, London W3 7XR
Date - sample testing completed :	13/06/2022	Date Approved:	KM	Tel: 02087401553	Email: lab@conceptconsultants.co.u
Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	- K Mazerant KM (Lab M	ngr)		

CONCEPT SITE INVESTIGATIONS Job No.: Site Name: **Euston Tower** 22/3686 Client: McGee Date Reported: 16/06/2022 **Summary Test Report** Determination of Moisture Content and Liquid and Plastic Limits by 4 Point Cone Method Liquid Natural Passing Plastic 425 μm Remarks Description Content Natural sieve Heading 3 U38 Pile C2 S035 3.50 Greyish brown silty CLAY with rare pockets of grey Disc 10

	<i>B</i> 100 10	 silty sand				

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

Remarks: The results reported relate only to the items tested or sampled.





Approved Signatories:	L Griffin LG (QA Technica	al & Lab Mngr) – K Mazerant KM (Lab Mngr)	٦
Date - sample testing completed :	13/06/2022	Date Approved: KM	_]
Date - sample testing commenced :	06/06/2022	by: 15/06/2022	7
Date - samples received:	25/05/2022	Observed / Assessed	I
			_

CONCEPT

47-49 Brunel Road, London W3 7XR
Tel: 02087401553 Email: lab@conceptconsultants.co.uk

CONCEPT SITE INVESTIGATIONS **Euston Tower** Job No.: 22/3686 Site Name: Client: McGee Date Reported: 16/06/2022

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	_imits by	/ 4 Poir	nt Cone	Method	
Borehole	Sample		Depth	Description	Natural Moisture Content	Washed Natural	Passing 425 µm sieve	Liquid Limit	Plastic Limit	Plasticity Index	Remarks
No.	Type	No.	m		%	<u> </u>	%	%	%	%	
Heading 3	U38	Pile C2 S033 Disc 1	7.00	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S033 Disc 2	7.00	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S033 Disc 3	7.00	Brownish grey silty CLAY	29						
Heading 3	U38	Pile C2 S033 Disc 4	7.00	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S033 Disc 5	7.00	Brownish grey silty CLAY	27						
Heading 3		Pile C2 S033 Disc 6	7.00	Brownish grey silty CLAY	28						
Heading 3		Pile C2 S033 Disc 7	7.00	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S033 Disc 8	7.00	Brownish grey silty CLAY	27						
Heading 3	U38	Pile C2 S033 Disc 9	7.00	Brownish grey silty CLAY	27						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

Remarks: The results reported relate only to the items tested or sampled.





Date - sample testing completed :		by: Date Approved:	KM	Tel
				Tel
Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	K Mazerant KM (Lab M	nar)	ı

OCADEPT
47-49 Brunel Road, London W3 7XR
el: 02087401553 Email: lab@conceptconsultants.co.uk

CONCEPT SITE INVESTIGATIONS **Euston Tower** Job No.: Site Name: 22/3686 Client: McGee Date Reported: 16/06/2022 **Summary Test Report** Determination of Moisture Content and Liquid and Plastic Limits by 4 Point Cone Method Liquid Passing Sample Depth Moisture Washed 425 μm Limit Remarks Description Content Natural sieve Brownish grey silty CLAY Heading 3 U38 Pile C2 S033 7.00 27 Disc 10

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS ABSOLITION OF GENTLOWICE IN A



Remarks: The results reported relate only to the items tested or sampled.

Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr)	 K Mazerant KM (Lab N 	Ingr)	1	
Date - sample testing completed :	13/06/2022	Date Approved:	KM	Tel: 02087401553	Email: lal
Date - sample testing commenced :	06/06/2022	by:	15/06/2022	/7-/10 B	OONG runel Road
Date - samples received:	20/04/2022	Observation I / Assessment			

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	_imits by	y 4 Poir		Method	
Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
Heading 3		Pile C2 S034	1.40	Brownish grey silty CLAY	29		76	76	76	76	
		Disc 1									
Heading 3	U38	Pile C2 S034 Disc 2	1.40	Brownish grey silty CLAY	29						
Heading 3	U38	Pile C2 S034 Disc 3	1.40	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S034 Disc 4	1.40	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S034 Disc 5	1.40	Brownish grey silty CLAY	29						
		Pile C2 S034 Disc 6	1.40	Brownish grey silty CLAY	29						
Heading 3		Pile C2 S034 Disc 7	1.40	Brownish grey silty CLAY	29						
Heading 3		Pile C2 S034 Disc 8	1.40	Brownish grey silty CLAY	29						
Heading 3	U38	Pile C2 S034 Disc 9	1.40	Brownish grey silty CLAY	29						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

Remarks: The results reported relate only to the items tested or sampled.





Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	- K Mazerant KM (Lab N	Ingr)		
Date - sample testing completed :	13/06/2022	Date Approved:	KM	Tel: 02087401553	Email: lab@conceptconsultants.co.uk
Date - sample testing commenced :	06/06/2022	by:	15/06/2022	47.40 B	COROCPT runel Road, London W3 7XR
Date - samples received:	20/04/2022	Observation I / Assessment			

CONCEPT SITE INVESTIGATIONS **Euston Tower** Job No.: Site Name: 22/3686 Client: McGee Date Reported: 16/06/2022 **Summary Test Report** Determination of Moisture Content and Liquid and Plastic Limits by 4 Point Cone Method Liquid Passing Sample Depth Moisture Washed 425 μm Limit Remarks Description Content Natural sieve Heading 3 U38 Pile C2 S034 1.40 Brownish grey silty CLAY 30 Disc 10 BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method



Remarks: The results reported relate only to the items tested or sampled.

Date - samples received:	20/04/2022	Observation of Assessment			
Date - sample testing commenced :	06/06/2022	by:	15/06/2022	47 40 D	OOROEPT runel Road, London W3 7XR
Date - sample testing completed :	13/06/2022	Date Approved:	KM	Tel: 02087401553	Email: lab@conceptconsultants.co.uk
Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	- K Mazerant KM (Lab M	ngr)		

PARTICLE SIZE DISTRIBUTION

TEST REPORT

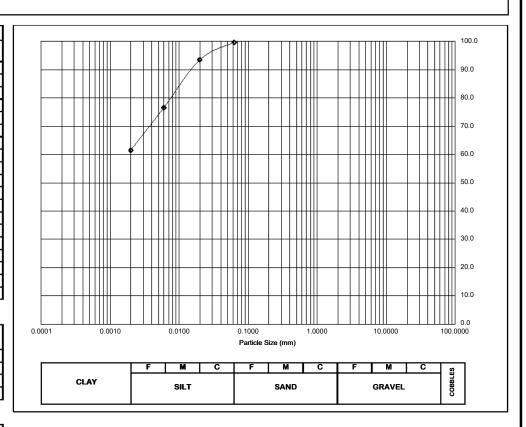
Site Name:	Euston Tower		Job Number:	22/3686				
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 1	Sample Type/No.	D	Face S001A	Top Depth:	0.15 m	Bottom Depth:	m

Soil Description:

Dark grey slightly micaceous silty CLAY

BS Test	Sieves			
Size (mm)	% Passing			
75.000	100			
63.000	100			
50.000	100			
37.500	100			
28.000	100			
20.000	100			
14.000	100			
10.000	100			
6.300	100			
5.000	100			
3.350	100			
2.000	100			
1.180	100			
0.600	100			
0.425	100			
0.300	100			
0.212	100			
0.150	100			
0.063	100			

Sedimentation						
(*if applicable)						
Size (mm)	% Passing					
0.020	93					
0.006	77					
0.002	61					



Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %						
Cobbles						
Gravel						
Sand	0.4					
Silt	38.2					
Clay	61.5					





Remarks:

Particle size distribution by dry sieve was not carried out on sand fraction

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 29/05/2022
 Date Approved:
 KM

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

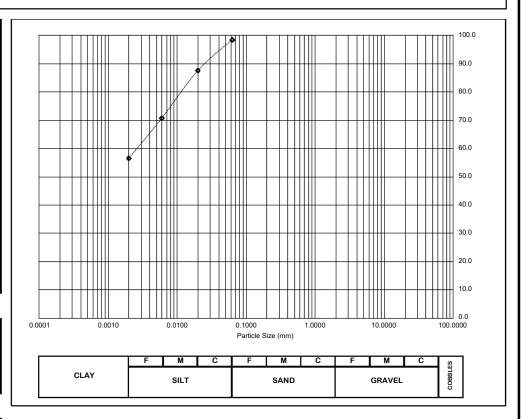
Site Name:	Euston Tower		Job Number:	22/3686				
Client:	McGee		Date Reported:	01/06/2022				
Borehole No:	Heading 1	Sample Type/No.	D	Face S002A	Top Depth:	0.80 m	Bottom Depth:	m

Soil Description:

Greyish brown slightly micaceous silty CLAY with rare pockets of light brown silty fine sand

BS Test	Sieves				
Size (mm)	% Passing				
75.000	100				
63.000	100				
50.000	100				
37.500	100				
28.000	100				
20.000	100				
14.000	100				
10.000	100				
6.300	100				
5.000	100				
3.350	100				
2.000	100				
1.180	100				
0.600	100				
0.425	100				
0.300	100				
0.212	100				
0.150	100				
0.063	98				

Sedimentation						
(*if applicable)						
Size (mm)	% Passing					
0.020	88					
0.006	71					
0.002	56					



Method/type:	
	Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %						
Cobbles						
Gravel						
Sand	1.5					
Silt	42.0					
Clay	56.5					





Particle size distribution by dry sieve was not carried out on sand fraction

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 29/05/2022
 Date Approved:
 KM

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

OOROEPT47-49 Brunel Road, London W3 7XR
Tel: 02087401553

Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Euston Tower		Job Number:	22/3686				
Client:	McGee		Date Reported:	01/06/2022				
Borehole No:	Heading 1	Sample Type/No.	D	Face S003A	Top Depth:	1.65 m	Bottom Depth:	m

Soil Description:

Greyish brown slightly micaceous silty CLAY

BS Test	Sieves
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	100
0.212	100
0.150	100
0.063	99

Sedimentation						
(*if applicable)						
Size (mm)	% Passing					
0.020	93					
0.006	77					
0.002	63					

											100.0	
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					Particle S	Size (mm)						
		F	М	С	F	M	С	F	М	С	LES	
	CLAY		SILT			SAND			GRAVEL		COBBLES	
											ŭ	

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Pro	portions %
Cobbles	
Gravel	
Sand	0.5
Silt	36.8
Clay	62.7





Particle size distribution by dry sieve was not carried out on sand fraction

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 29/05/2022
 Date Approved:
 KM

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47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Euston Tower						Job Number:	22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 2	Sample Type/No.	D	Face S004A	Top Depth:	0.10 m	Bottom Depth:	m

Soil Description:

Brown silty CLAY

BS Test	Sieves
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	100
0.212	100
0.150	100
0.063	99

Sedime	ntation
(*if app	licable)
Size (mm)	% Passing
0.020	92
0.006	76
0.002	65
	•

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	CI	LAY	SILT SAND GRAVEL						COBBLES																								

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Pro	portions %
Cobbles	
Gravel	
Sand	0.8
Silt	34.0
Clay	65.2





Particle size distribution by dry sieve was not carried out on sand fraction

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 29/05/2022
 Date Approved:
 KM

COROEPT

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Euston Tower						Job Number:	22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 2	Sample Type/No.	D	Face S005A	Top Depth:	1.00 m	Bottom Depth:	m

Soil Description:

Greyish brown slightly micaceous slightly sandy silty CLAY with rare shell fragments and pockets of light grey silty fine sand

	BS Test	Sieves
	Size (mm)	% Passing
ſ	75.000	100
	63.000	100
	50.000	100
	37.500	100
	28.000	100
	20.000	100
	14.000	100
	10.000	100
	6.300	100
	5.000	100
	3.350	100
	2.000	100
	1.180	100
	0.600	100
	0.425	100
	0.300	100
	0.212	100
	0.150	100
	0.063	96

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Sedime	ntation
(*if appl	licable)
Size (mm)	% Passing
0.020	85
0.006	68
0.002	53

Method/type:
Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Pro	portions %
Cobbles	
Gravel	
Sand	4.3
Silt	42.2
Clay	53.5





Remarks: Particle size distribution by dry sieve was not carried out on sand fraction

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 29/05/2022
 Date Approved:
 KM

OOROUFT47-49 Brunel Road, London W3 7XR
Tel: 02087401553

Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

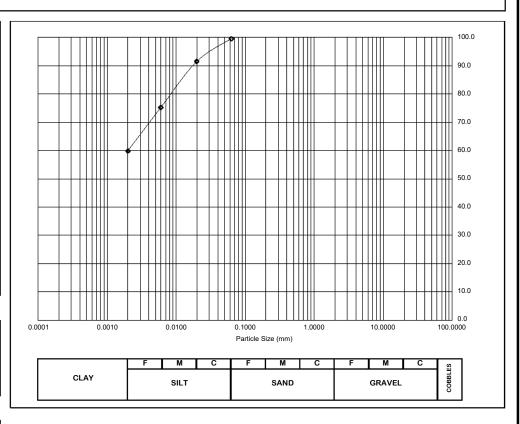
Site Name:	Euston Tower						Job Number:	22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 2	Sample Type/No.	D	Face S006A	Top Depth:	2.00 m	Bottom Depth:	m

Soil Description:

Greyish brown slightly micaceous silty CLAY

BS Test	Sieves
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	100
0.212	100
0.150	100
0.063	100

Sedimentation											
(*if applicable)											
Size (mm)	% Passing										
0.020	91										
0.006	75										
0.002	60										



Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %										
Cobbles										
Gravel										
Sand	0.5									
Silt	39.7									
Clay	59.8									





Remarks:

Particle size distribution by dry sieve was not carried out on sand fraction

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 29/05/2022
 Date Approved:
 KM

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

OOROEPT47-49 Brunel Road, London W3 7XR
Tel: 02087401553

Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

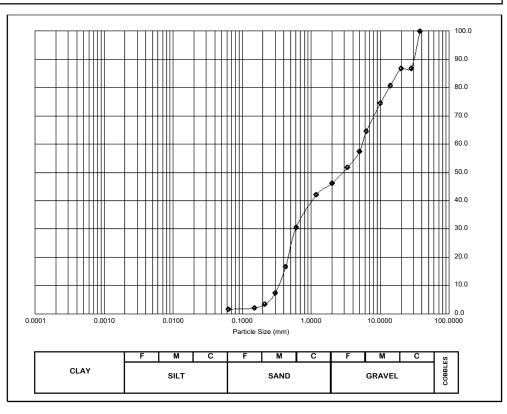
Site Name:	Euston Tower						Job Number:	22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 2	Sample Type/No.	D	Gravel spoil	Top Depth:	2.00 m	Bottom Depth:	m

Soil Description:

Brown slightly silty very sandy fine to coarse flint GRAVEL

BS Test	Sieves							
Size (mm)	% Passing							
75.000	100							
63.000	100							
50.000	100							
37.500	100							
28.000	87							
20.000	87							
14.000	81							
10.000	74							
6.300	65							
5.000	57							
3.350	52							
2.000	46							
1.180	42							
0.600	30							
0.425	17							
0.300	7							
0.212	3							
0.150	2							
0.063	2							

Sedimentation										
(*if applicable)										
Size (mm)	% Passing									
0.020										
0.006										
0.002										



Method/type: Wet Sieving

Wet Sieving BS 1377: Part 2: Clause 9.2: 1990 Determination of particle size distribution - wet sieving method.

Particle Proportions %											
Cobbles											
Gravel	53.8										
Sand	44.6										
Silt and Clay	1.6										





Sample mass does not meet the requirements of BS1377: Part 2: 1990

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 25/05/2022
 Date Approved:
 KM

OOROEPT

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Euston Tower						Job Number:	22/3686
Client:	McGee						Date Reported:	15/06/2022
Borehole No:	Heading 3	Sample Type/No.	D	Face S030A	Top Depth:	0.20 m	Bottom Depth:	m

Soil Description:

Brownish grey silty CLAY with rare pockets of silty fine sand and fine flint gravel

BS Test	Sieves							
Size (mm)	% Passing							
75.000	100							
63.000	100							
50.000	100							
37.500	100							
28.000	100							
20.000	100							
14.000	100							
10.000	100							
6.300	100							
5.000	100							
3.350	100							
2.000	100							
1.180	100							
0.600	100							
0.425	100							
0.300	100							
0.212	100							
0.150	100							
0.063	99							

Sedime	ntation
(*if appl	licable)
Size (mm)	% Passing
0.020	95
0.006	76
0.002	59

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	CI	LAY	•			Γ					SIL	т.					SAND							GRAVEL							1	COBBLES					
						L											L												_							8	

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %										
Cobbles										
Gravel										
Sand	1.1									
Silt	39.5									
Clay	59.4									





Remarks:

Particle size distribution by dry sieve was not carried out on sand fraction

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 25/05/2022

 Date - sample testing commenced:
 06/06/2022
 Checked / Approved by:
 KM

 Date - sample testing completed:
 13/06/2022
 Date Approved:
 15/06/2022

OOROGPT47-49 Brunel Road, London W3 7XR
Tel: 02087401553

Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	e Name: Euston Tower							
Client:	client: McGee							15/06/2022
Borehole No:	Heading 3	Sample Type/No.	D	Face S031A	Top Depth:	1.05 m	Bottom Depth:	m

Soil Description:

Brownish grey slightly micaceous silty CLAY

BS Test	Sieves		
Size (mm)	% Passing		
75.000	100		
63.000	100		
50.000	100		
37.500	100		
28.000	100		
20.000	100		
14.000	100		
10.000	100		
6.300	100		
5.000	100		
3.350	100		
2.000	100		
1.180	100		
0.600	100		
0.425	100		
0.300	100		
0.212	100		
0.150	100		
0.063	99		

Sedimentation						
(*if applicable)						
Size (mm)	% Passing					
0.020	92					
0.006	78					
0.002	63					

				100.0
				100.0
	 			90.0
				80.0
				70.0
				70.0
				60.0
				50.0
				40.0
				30.0
				20.0
				10.0
.0001 0.0010	0.0100	0.1000 1.0000	10.0000	0.0
		Particle Size (mm)		
	F M C	F M C	F M C	Si Si
CLAY	SILT	SAND	GRAVEL	COBBLES

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %						
Cobbles						
Gravel						
Sand	0.5					
Silt	36.0					
Clay	63.5					





Particle size distribution by dry sieve was not carried out on sand fraction

The results reported relate only to the items tested or sampled.

25/05/2022 Date - samples received: Date - sample testing commenced : 06/06/2022 Checked / Approved by: 15/06/2022 Date - sample testing completed : 13/06/2022 Date Approved: Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	te Name: Euston Tower							
Client:	Client: McGee							15/06/2022
Borehole No:	Heading 3	Sample Type/No.	D	Face S032A	Top Depth:	1.95 m	Bottom Depth:	m

Soil Description:

Brownish grey slightly micaceous silty CLAY with rare pockets of light grey silt

BS Test	Sieves
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	100
0.212	100
0.150	100
0.063	99

Sedime	ntation
(*if appl	licable)
Size (mm)	% Passing
0.020	91
0.006	77
0.002	66

			NIII		100.0					
					90.0					
			 		80.0					
					70.0					
		*								
					60.0					
			 		50.0					
					40.0					
					30.0					
					20.0					
					10.0					
0.0001	0.0010	0.0100	0.1000 1.0000	10.0000	LIII 0.0 100.0000					
	Particle Size (mm)									
		F M C	F M C	F M C	ES.					
	CLAY	SILT	SAND	GRAVEL	COBBLES					
					لــــــا					

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %					
Cobbles					
Gravel					
Sand	1.0				
Silt	33.5				
Clay	65.5				





Remarks:
Particle size distribution by dry sieve was not carried out on sand fraction

The results reported relate only to the items tested or sampled.

 Date - samples received:
 25/05/2022

 Date - sample testing commenced:
 06/06/2022
 Checked / Approved by:
 KM

 Date - sample testing completed:
 13/06/2022
 Date Approved:
 15/06/2022

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk





Lynn Griffin

Concept Site Investigations Unit 8 Warple Mews Warple Way London W3 0RF

t: 02087401553

e: Concept Group

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

Analytical Report Number: 22-57065

Replaces Analytical Report Number: 22-57065, issue no. 2 Client references/information amended.

Project / Site name:Euston TowerSamples received on:09/05/2022

Your job number: 22 3686 **Samples instructed on/** 09/05/2022

Analysis started on:

Your order number: L2800 Analysis completed by: 17/05/2022

Report Issue Number: 3 **Report issued on:** 17/05/2022

Samples Analysed: 5 soil samples

turacio

Signed:

Joanna Wawrzeczko Reporting Specialist

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are : soils - 4 weeks from reporting

leachates - 2 weeks from reporting waters - 2 weeks from reporting asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies.

An estimate of measurement uncertainty can be provided on request.





Analytical Report Number: 22-57065 Project / Site name: Euston Tower Your Order No: L2800

Lab Sample Number	2268489	2268490	2268491	2268492	2268493			
Sample Reference	Heading 1	Heading 1	Heading 2	Heading 2	Heading 2			
Sample Number				Face S001A	Face S003A	Face S004A	Face S006A	Gravel spoil S007
Depth (m)				0.15	1.65	0.10	2.00	2.00
Date Sampled				09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	17	18	17	4.5
Total mass of sample received	kg	0.001	NONE	0.2	0.2	0.2	0.2	0.4

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	8.3	8.6	8.2	9
Total Sulphate as SO4	%	0.005	MCERTS	0.154	0.101	0.014	0.113	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.94	0.47	0.06	0.67	0.1
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	938	470	60.4	671	99.5
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	73	47	4.5	40	4.5
Total Sulphur	%	0.005	MCERTS	0.407	0.289	0.011	0.35	-
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	69	56	8.2	77	< 5.0
Magnesium (leachate equivalent)	mg/l	2.5	NONE	34	28	4.1	39	< 2.5





Analytical Report Number : 22-57065 Project / Site name: Euston Tower

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2268489	Heading 1	Face S001A	0.15	Grey clay.
2268490	Heading 1	Face S003A	1.65	Grey clay.
2268491	Heading 2	Face S004A	0.1	Brown clay.
2268492	Heading 2	Face S006A	2	Grey clay.
2268493	Heading 2	Gravel spoil S00	2	Brown sand with gravel.





Analytical Report Number : 22-57065 Project / Site name: Euston Tower

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	w	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN- 82/C-04579.08, 2:1 extraction.	L078-PL	w	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.





Lynn Griffin

Concept Site Investigations Unit 8 Warple Mews Warple Way London W3 ORF

t: 02087401553

e: Concept Group

i2 Analytical Ltd. 7 Woodshots Meadow, Croxley Green Business Park, Watford, Herts, **WD18 8YS**

t: 01923 225404

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e: reception@i2analytical.com

Analytical Report Number: 22-63057

Replaces Analytical Report Number: 22-63057, issue no. 1 Client sampling date amended.

Project / Site name: Euston Tower Samples received on: 07/06/2022

Your job number: 22 3686 Samples instructed on/ 07/06/2022

Analysis started on:

Your order number: L2825 Analysis completed by: 15/06/2022

Report Issue Number: 2 Report issued on: 15/06/2022

Samples Analysed: 2 soil samples

Signed:

Martyna Langer Junior Reporting Specialist

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

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leachates - 2 weeks from reporting waters - 2 weeks from reporting asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.





Analytical Report Number: 22-63057 Project / Site name: Euston Tower Your Order No: L2825

Lab Sample Number	2303222	2303223			
Sample Reference	Heading 3	Heading 3			
Sample Number				Face S030A	Face S032A
Depth (m)				0.20	1.95
Date Sampled				06/06/2022	06/06/2022
Time Taken	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	19
Total mass of sample received	0.2	0.3			

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.9	8.1
Total Sulphate as SO4	%	0.005	MCERTS	0.141	0.184
Water Soluble SO4 160r extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.56	0.75
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	562	746
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	39	39
Total Sulphur	%	0.005	MCERTS	0.252	0.353
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	6.6	67
Magnesium (leachate equivalent)	mg/l	2.5	NONE	3.3	33





Analytical Report Number : 22-63057 Project / Site name: Euston Tower

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2303222	Heading 3	Face S030A	0.2	Brown clay and loam.
2303223	Heading 3	Face S032A	1.95	Brown clay.





Analytical Report Number : 22-63057 Project / Site name: Euston Tower

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN- 82/C-04579.08, 2:1 extraction.	L078-PL	w	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

C	ONCE	PT SI	LE IUA	ESTIGATIONS	Summary Tes	(Si	Undraindingle-Sta	ge)	al Compre	ession		eported:	16/06/2022	
Sit	te Locatio	on:	Euston ⁻	Tower		ı	McGee	Clause 6			Job	Job No.: 22/3686		
BH No.	Sample Type	Sample No	Depth top (m)	Descriptio	on	Cell pressure kN/m2	Strain at failure	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments	
Heading 1	UT100	Face U1/5020	0.35	Very stiff, extremely closely brown slightly micaceous s occasional pockets of light (<30mm)	ilty CLAY with	75	3.8	2.00	1.58	27	245	123	Brittle	
Heading 1	UT100	Face U25021	1.45	Very stiff, extremely closely brown slightly micaceous s pockets of light brown silty	ilty CLAY with rare	100	4.6	1.99	1.58	26	168	84	Brittle	
Heading 2	UT100	Face U3/5022	0.15	Very stiff, dark brown slight CLAY	ly micaceous silty	75	4.0	1.97	1.54	28	126	63	Brittle	
Heading 2	UT100	Face U4/5023	1.50	Very stiff, extremely closely brown slightly micaceous s pocket (<65mm) of claystor (<20mm) at 1.71m	ilty CLAY with 1 No	100	4.1	2.00	1.58	27	242	121	Brittle	
		·	te only to the	items tested or sampled.										
	oles receive			20/04/2022	In								(L)	
	ole testing co			27/05/2022 27/05/2022	Checked/Approved by: Date Approved:	KM 01/06/2022	6/2022 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: Lab@conceptconsultants.co.uk			3		AGS	ASSOCIATION OF GEOTECHICAL IN ASSOCIATION OF GEOTECHICAL IN ASSOCIATION OF GEOTECHICAL INTO ASSOCIATION OFFICIAL INTO ASSOCIAT	
Approved S	Signatories	::	L Griffin L	LG (QA Technical & Lab Mngr)	– K Mazerant KM (Lab	o Mngr)				UKAS JESTING 4503				

C	ONCE	PT SI	TE INY	Summary Test Rep			Undraind ingle-Sta :: Part 7: 1990	ge)	al Compre	ession		eported:	16/06/2022 22/3686
Sit	e Locati	on:	Euston 7	Tower	•	Client:	McGee						
BH No.	Sample Type	Sample No	Depth top (m)	Descriptio	on	Cell pressure kN/m2	Strain at failure %	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
Heading 3	UT100	RHS OF PILE C2 S040	0.25	Stiff to very stiff, dark brown silty CLAY with white flecks		75	7.6	1.98	1.54	28	168	84	Brittle
Heading 3	UT100	LHS OF PILE C2 S041		Very stiff, extremely closely brown slightly micaceous s shell fragments (<1mm)		100	6.4	1.96	1.52	29	215	108	Brittle
Heading 3	UT100	LHS OF PILE R1 S042	0.10	Very stiff, dark brown mottle micaceous silty CLAY with (<1mm)		75	6.6	1.92	1.49	29	124	62	Brittle
Heading 3	UT100	LHS OF PILE R1 S043	1.40	Very stiff, dark brown slight CLAY with rare shell fragm rare pyrite nodules (<12mm	ents (<1mm) and	100	2.8	1.98	1.55	28	186	93	Brittle
Date - samp	oles receive	d:	te only to the	items tested or sampled. 25/05/2022									
Date - samp Date - samp Approved \$	ole testing c	•	L Griffin L	09/06/2022 09/06/2022 .G (QA Technical & Lab Mngr)	Checked/Approved by: Date Approved: - K Mazerant KM (Lab	KM 15/06/2022 o Mngr)	22 OONOEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: Lab@conceptconsultants.co.uk			ASSOCIATION OF MEDITATION CLAIM UKAS UKAS INSTITUTE 4503			



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686 Job Number: 22-60188 Date Sampled: Not Given Date Received: 18/05/2022 Date Tested: 03/06/2022

Sampled By: Not Given

Test Results:

Laboratory Reference:2286735Depth Top [m]: 0.15Hole No.:Heading 1Depth Base [m]: Not GivenSample Reference:Face S001Sample Type: U

Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Test Number	1	
Length	77.05	mm
Diameter	37.64	mm
Bulk Density	2.01	Mg/m3
Moisture Content	26	%
Dry Density	1.59	Mg/m3
Membrane Correction	0.73	kPa

 Rate of Strain
 2.00

 Cell Pressure
 100

 Axial Strain at failure
 4.8

 Deviator Stress, (σ1 - σ3)f
 350

 Undrained Shear Strength, cu
 175

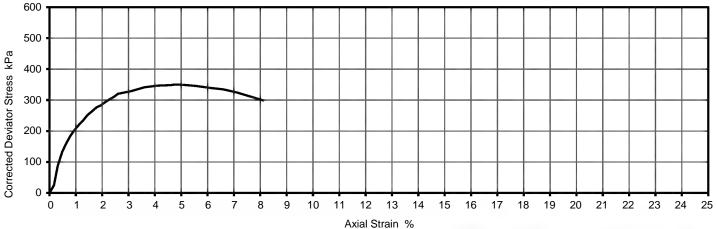
 Mode of Failure
 Brittle

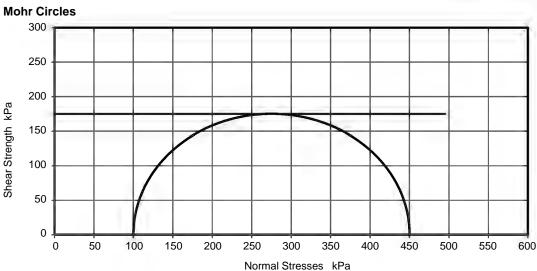
Membrane thickness

100	kPa	
4.8	%	
350	kPa	
175	kPa	½(σ1 - σ3)f
Brittle]	
0.21	lmm	

%/min

Deviator Stress v Axial Strain





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Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

Auna
Page 1 of 1

Dugariska

of 1 Date Reported: 13/06/2022 GF 184.12



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022
Sampled By: Not Given

Test Results:

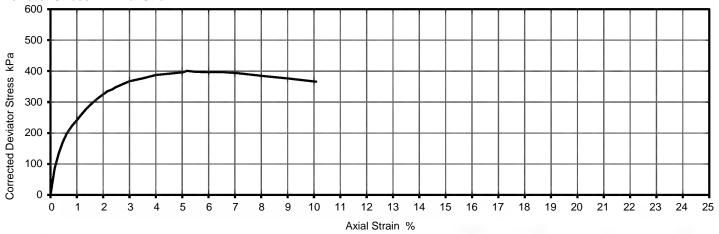
Laboratory Reference:2286735_1Depth Top [m]: 0.15Hole No.:Heading 1Depth Base [m]: Not GivenSample Reference:Face S001Sample Type: U

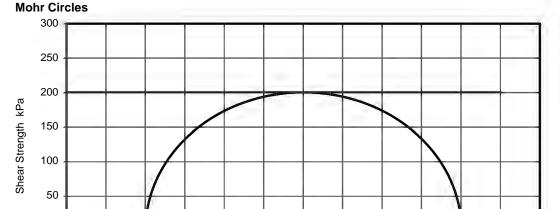
Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Test Number	1]	Rate of Strain	2.00	%/min
Length	76.96	mm	Cell Pressure	100	kPa
Diameter	37.47	mm	Axial Strain at failure	5.2	%
Bulk Density	2.04	Mg/m3	Deviator Stress, (σ1 - σ3)f	401	kPa
Moisture Content	26	%	Undrained Shear Strength, cu	200	kPa ½(σ1 - σ3)f
Dry Density	1.62	Mg/m3	Mode of Failure	Brittle	
Membrane Correction	0.81	kPa	Membrane thickness	0.21	mm

Deviator Stress v Axial Strain







Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

350

400

300

Normal Stresses kPa

Remarks:

0

0

50

100

150

200

250

Signed:

Dugariska

450

500

550

600

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

Auna
Page 1 of 1

Date Reported: 13/06/2022

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DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022
Sampled By: Not Given

Test Results:

Laboratory Reference:2286736Depth Top [m]: 0.80Hole No.:Heading 1Depth Base [m]: Not GivenSample Reference:Face S002Sample Type: U

Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

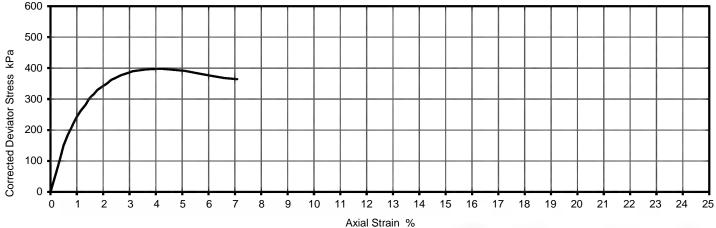
Test Number	1	
Length	76.93	mm
Diameter	37.62	mm
Bulk Density	2.01	Mg/m3
Moisture Content	23	%
Dry Density	1.63	Mg/m3
Membrane Correction	0.66	kPa

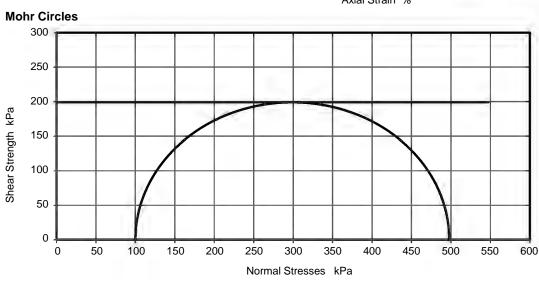
Rate of Strain
Cell Pressure
Axial Strain at failure
Deviator Stress, (σ1 - σ3)f
Undrained Shear Strength, cu
Mode of Failure
Membrane thickness

	_
2.00	%/min
100	kPa
4.1	%
398	kPa
199	kPa ½(σ1 - σ3)f
Brittle	

0.22

Deviator Stress v Axial Strain







Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed: Dvazińska

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

Auna
Page 1 of 1

Date Reported: 13/06/2022

GF 184.12

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DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686 Job Number: 22-60188 Date Sampled: Not Given Date Received: 18/05/2022 Date Tested: 03/06/2022

Sampled By: Not Given

½(σ1 - σ3)f

Test Results:

Laboratory Reference:2286736_1Depth Top [m]: 0.80Hole No.:Heading 1Depth Base [m]: Not GivenSample Reference:Face S002Sample Type: U

Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Test Number	1	
Length	77.16	mm
Diameter	37.68	mm
Bulk Density	2.02	Mg/m3
Moisture Content	27	%
Dry Density	1.59	Mg/m3
Membrane Correction	0.45	kPa

 Rate of Strain
 2.00
 %/min

 Cell Pressure
 100
 kPa

 Axial Strain at failure
 3.0
 %

 Deviator Stress, (σ1 - σ3)f
 379
 kPa

 Undrained Shear Strength, cu
 189
 kPa

 Mode of Failure
 Brittle

Mode of Failure

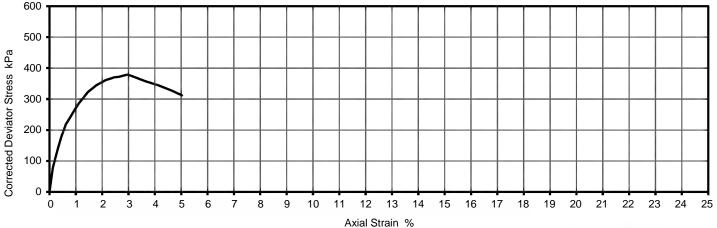
Membrane thickness

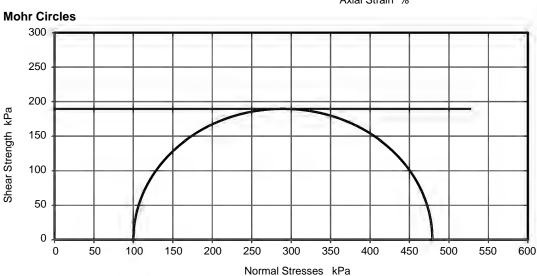
Brittle

0.21

mm

Deviator Stress v Axial Strain





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Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed: Dvazińska

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Auna
Page 1 of 1

of 1 Date Reported: 13/06/2022 GF 184.12



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022
Sampled By: Not Given

Test Results:

Laboratory Reference:2286737Depth Top [m]: 1.65Hole No.:Heading 1Depth Base [m]: Not GivenSample Reference:Face S003Sample Type: U

Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Test Number	1	
Length	76.78	mm
Diameter	37.58	mm
Bulk Density	2.03	Mg/m3
Moisture Content	25	%
Dry Density	1.62	Mg/m3
Membrane Correction	0.39	kPa

 Rate of Strain
 2.00
 %/min

 Cell Pressure
 100
 kPa

 Axial Strain at failure
 2.4
 %

 Deviator Stress, (σ1 - σ3)f
 414
 kPa

 Undrained Shear Strength, cu
 207
 kPa

Mode of Failure

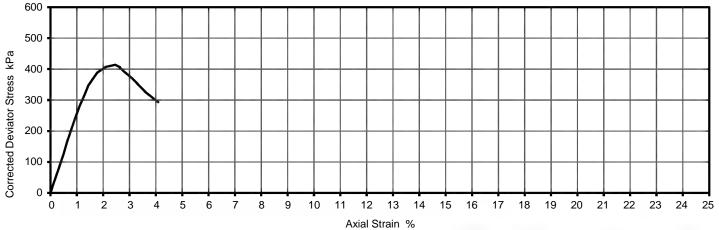
Membrane thickness

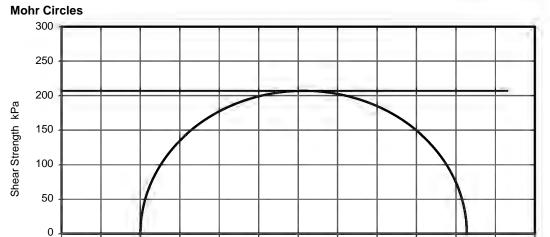
Brittle

0.22

100	кРа	
2.4	%	
414	kPa	
207	kPa	½(σ1 - σ3)
Brittle]	
0.22	mm	

Deviator Stress v Axial Strain







Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

350

400

300

Normal Stresses kPa

Remarks:

50

0

100

Signed:

450

500

550

600

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

Anna Page 1 of 1

Dugariska

Date Reported: 13/06/2022

150

200

250



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Concept Site Investigations Client:

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Lynn Griffin Contact: Site Address: **Euston Tower**

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686 Job Number: 22-60188 Date Sampled: Not Given Date Received: 18/05/2022 Date Tested: 03/06/2022 Sampled By: Not Given

Test Results:

Laboratory Reference: 2286738 Heading 2 Hole No.: Face S004 Sample Reference:

Yellowish brown CLAY Sample Description:

Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1. Sample Preparation:

Test Number Length Diameter **Bulk Density** Moisture Content Dry Density Membrane Correction

1]
76.15	mm
37.44	mm
1.97	Mg/m3
29	%
1.53	Mg/m3
0.78	kPa

Rate of Strain Cell Pressure Axial Strain at failure Devia Undr Mode

Deviator Stress, (σ1 - σ3)f	269	k
Undrained Shear Strength, cu	134	k
Mode of Failure	Brittle]
Membrane thickness	0.20	n

	_
2.00	%/min
100	kPa
5.3	%
269	kPa
134	kPa ½(σ1-σ3
Brittle	
0.20	lmm

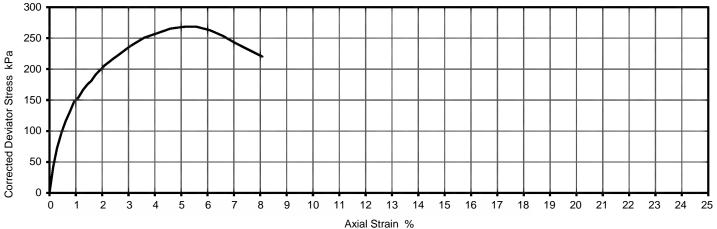
)f

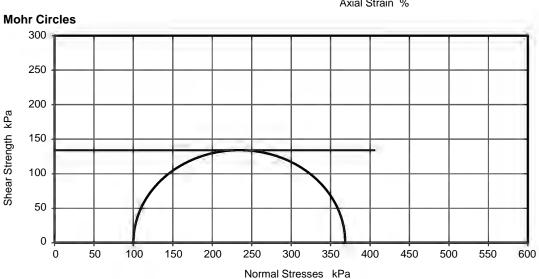
Depth Top [m]: 0.10

Sample Type: U

Depth Base [m]: Not Given

Deviator Stress v Axial Strain





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report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



Position within sample



Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Anna Page 1 of 1

Dugariska

Date Reported: 13/06/2022

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DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022
Sampled By: Not Given

Depth Top [m]: 0.10

Sample Type: U

Depth Base [m]: Not Given

Test Results:

Laboratory Reference: 2286738_1 Hole No.: Heading 2

Sample Reference: Face S004

Sample Description: Yellowish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Test Number Length Diameter Bulk Density Moisture Content Dry Density Membrane Correction

1]
76.00	mm
37.34	mm
1.95	Mg/m3
30	%
1.50	Mg/m3
0.91	kPa
	•

Rate of Strain
Cell Pressure
Axial Strain at failure
Deviator Stress, (σ1 - σ3)f
Undrained Shear Strength, cu
Mode of Failure

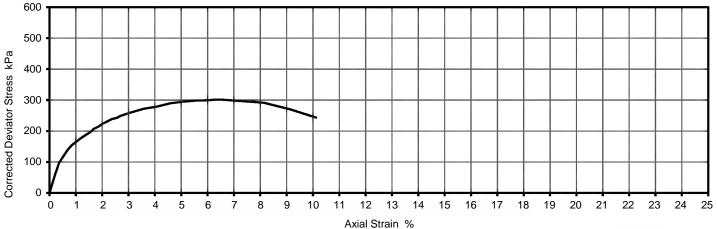
Membrane thickness

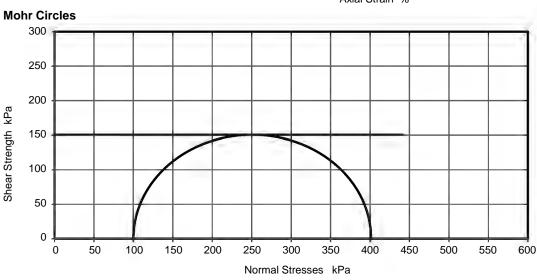
2.00	%/min
100	kPa
6.3	%
301	kPa
151	kPa ½(σ1 - σ3)f
Brittle	1

Brittle

0.21 mm

Deviator	Stress	٧	Axial	Strain
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Position within sample



GF 184.12

Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

Page 1 of 1

Dugariska

of 1 Date Reported: 13/06/2022

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DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Concept Site Investigations Client:

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin Site Address: **Euston Tower**

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686 Job Number: 22-60188 Date Sampled: Not Given Date Received: 18/05/2022 Date Tested: 03/06/2022 Sampled By: Not Given

Test Results:

Laboratory Reference: 2286739 Depth Top [m]: 1.00 Heading 2 Depth Base [m]: Not Given Hole No.: Face S005 Sample Reference: Sample Type: U

Grevish brown CLAY Sample Description:

Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1. Sample Preparation:

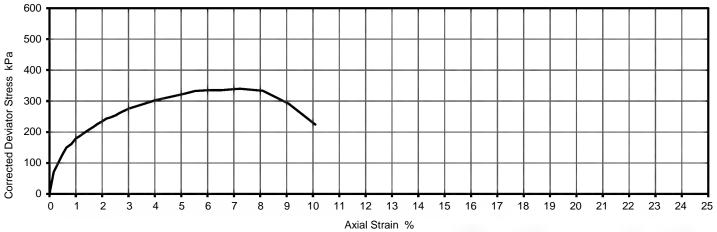
Test Number	1]
Length	76.54	mm
Diameter	36.10	mm
Bulk Density	2.08	Mg/m3
Moisture Content	24	%
Dry Density	1.69	Mg/m3
Membrane Correction	1.04	kPa

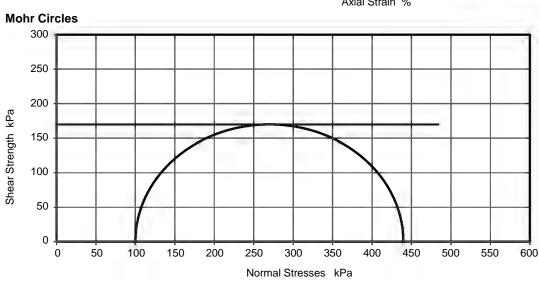
Rate of Strain Cell Pressure Axial Strain at failure Deviator Stress, (σ 1 - σ 3)f Undrained Shear Strength, cu Mode of Failure

2.00	%/min
100	kPa
7.2	%
340	kPa
170	kPa ½(σ1 - σ3)f
Brittle	

Membrane thickness

Deviator S	tress v	Axial	Strain
-------------------	---------	-------	--------







Position within sample



Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Anna Page 1 of 1

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Date Reported: 13/06/2022

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DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Concept Site Investigations Client:

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Lynn Griffin Contact: Site Address: **Euston Tower**

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686 Job Number: 22-60188 Date Sampled: Not Given Date Received: 18/05/2022 Date Tested: 03/06/2022 Sampled By: Not Given

Test Results:

Laboratory Reference: 2286740

Heading 2 Hole No.: Face S006 Sample Reference:

Sample Description:

Grevish brown CLAY

Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1. Sample Preparation:

Test Number Length 75.30 mm Diameter 37.51 mm 2.00 **Bulk Density** Mg/m3 27 Moisture Content % Dry Density 1.57 Ma/m3 Membrane Correction 0.50

Rate of Strain Cell Pressure Axial Strain at failure Deviator Stress, (σ 1 - σ 3)f Undrained Shear Strength, cu

Mode of Failure Brittle Membrane thickness 0.22

	_
2.00	%/min
100	kPa
3.1	%
321	kPa
161	kPa ½
	7

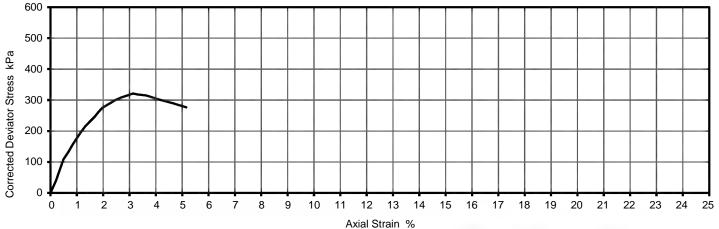
Depth Top [m]: 2.00

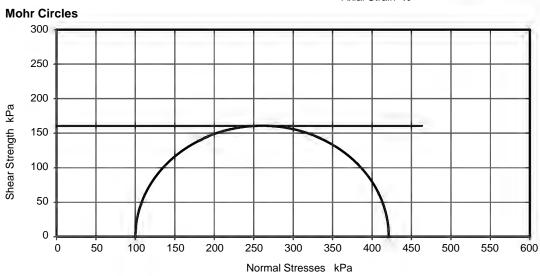
Sample Type: U

Depth Base [m]: Not Given

½(σ1 - σ3)f

Deviator Stress v Axial Strain







Position within sample



Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Anna Page 1 of 1

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Date Reported: 13/06/2022



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

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W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022
Sampled By: Not Given

Test Results:

Laboratory Reference: 2286740_1 Hole No.: Heading 2

Sample Reference: Face S006

Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

mm

mm

%

Mg/m3

Ma/m3

 Test Number
 1

 Length
 76.26

 Diameter
 37.16

 Bulk Density
 2.04

 Moisture Content
 27

 Dry Density
 1.60

 Membrane Correction
 0.55

Rate of Strain
Cell Pressure
Axial Strain at failure
Deviator Stress, (σ1 - σ3)f
Undrained Shear Strength, cu
Mode of Failure
Membrane thickness

2.00 %/min
100 kPa
3.5 %
305 kPa
152 kPa ½(σ1 - σ3)f

mm

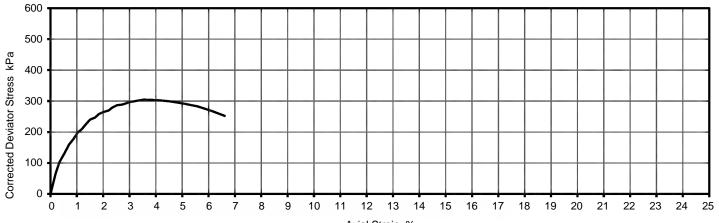
0.21

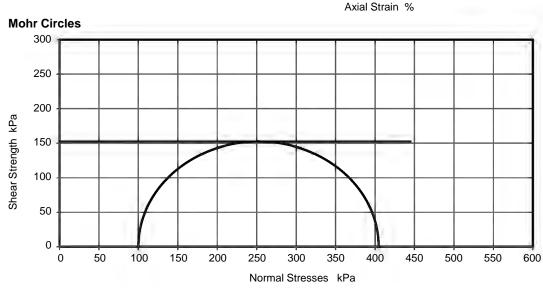
Depth Top [m]: 2.00

Sample Type: U

Depth Base [m]: Not Given

Deviator Stress v Axial Strain







Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

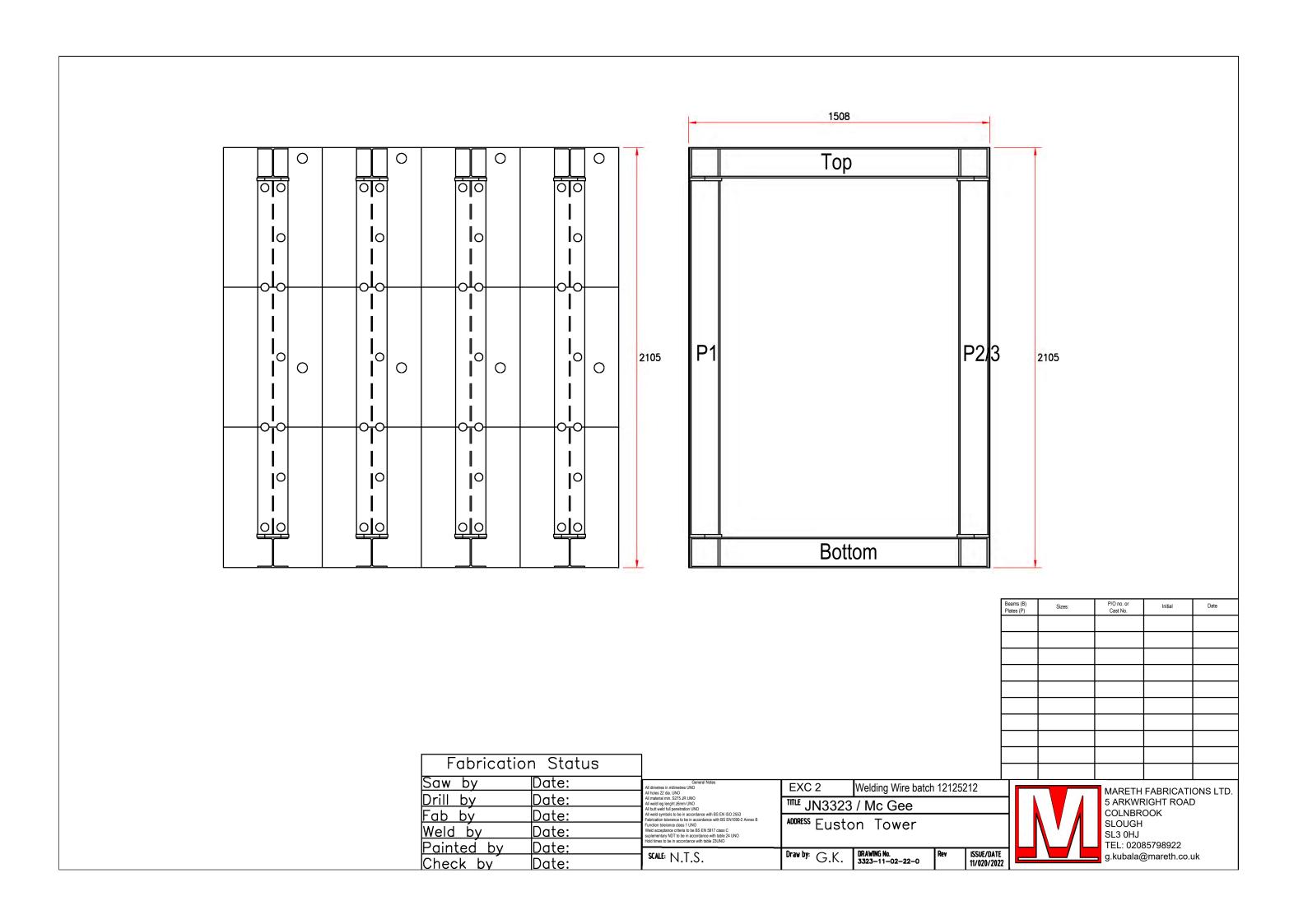
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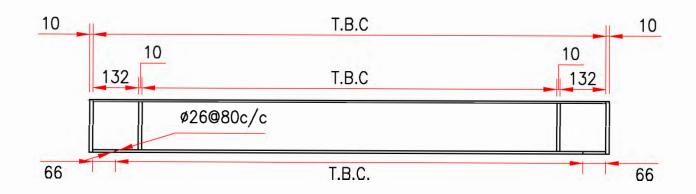
Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Auna
Page 1 of 1

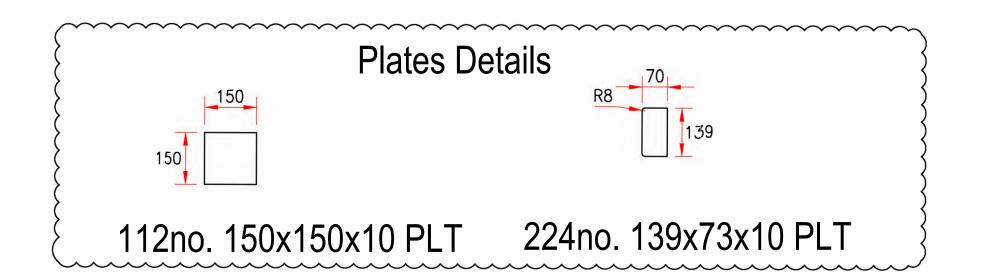
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Date Reported: 13/06/2022





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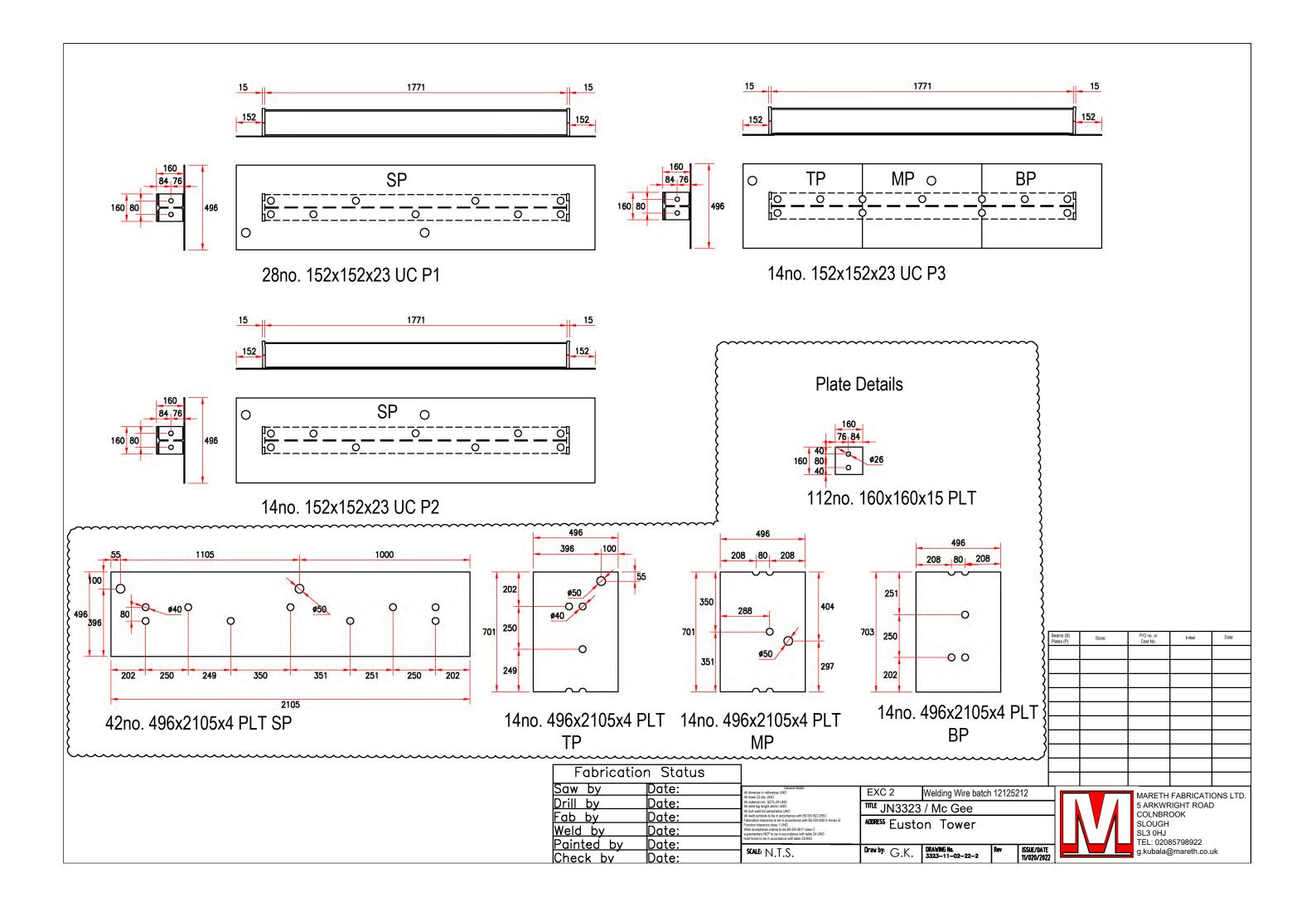
Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

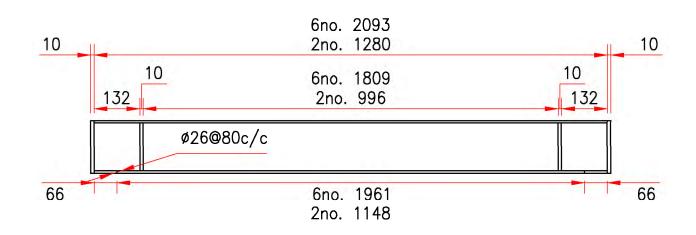
MARETH FABRICATIONS LTD.

5 ARKWRIGHT ROAD

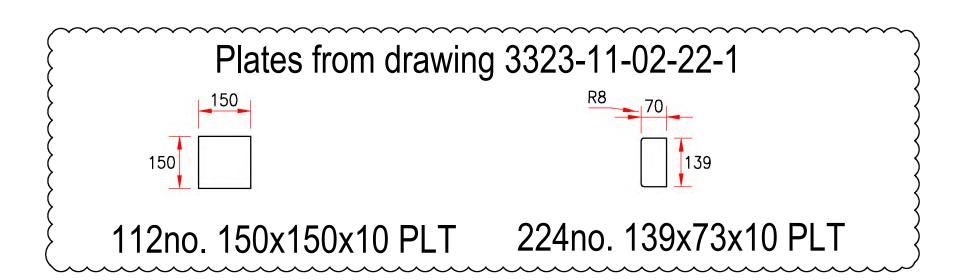
TEL: 02085798922 g.kubala@mareth.co.uk

Status					-
Date:	General Notes All dimetres in milimetres UNO All holes 22 dia 1 INO	EXC 2	Welding Wire batc	h 12125	<u> </u> 212
	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553	TITLE JN3323 / Mc Gee ADDRESS Euston Tower			
Date:	Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO				
<u>Date:</u> Date:	SCALE: N.T.S.	Draw by: G.K.	DRAWING No. 3323-11-02-22-1	Rev	ISSUE/DATE 11/020/2022
	Date: Date: Date: Date:	All dimetres in millimetres UNO All holes 22 dia. UNO All halerial min. S275 JR UNO All material min. S275 JR UNO All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN 1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO	Date:	Date:	Date:





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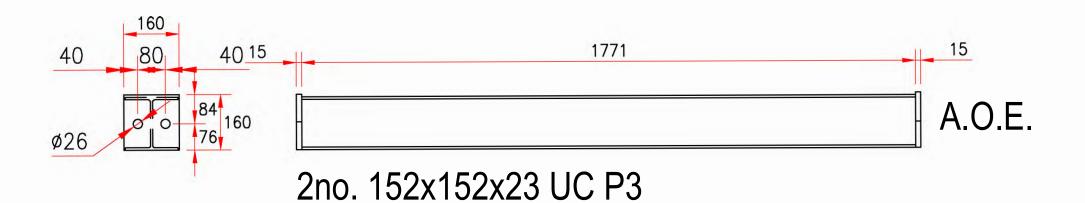


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

5 ARKWRIGHT ROAD

TEL: 02085798922 g.kubala@mareth.co.uk

Fabricat	ion Status					-	
Saw by	Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire bate	h 12125	<u> </u>	T
Drill by	<u>Date:</u>	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO	TITLE JN3323 / Mc Gee				
Meld by	<u>Date:</u> Date:	All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO	ADDRESS Euston Tower				
Painted by	Date:	Hold times to be in accordance with table 23UNO SCALE: N.T.S.	Draw by: G.K.	DRAWING No.	Rev	ISSUE/DATE	┨╏
Check by	Date:	1 1.1.0.	1 0.14.	3323-11-02-22-3		11/020/2022	



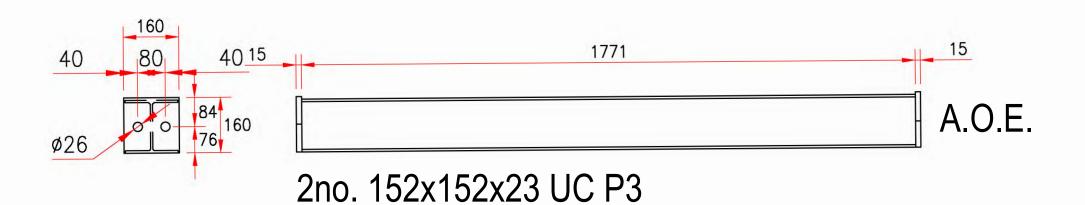
Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

MARETH FABRICATIONS LTD. 5 ARKWRIGHT ROAD COLNBROOK SLOUGH

SL3 0HJ TEL: 02085798922

g.kubala@mareth.co.uk

_			7	ion Status	Fabrication	
┸┎	Welding Wire batch 12125212	EXC 2	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	Date:	Saw by	
J١	/ Mc Gee	TITLE JN3323	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO	Date:	Drill by	
Ш	on Tower	ADDRESS Euston Tower		Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO ADDRESS Euston	Date:	Hab by Weld by
	DRAWING No. Rev ISSUE/DATE 11/020/2022	Draw by: G.K.	Hold times to be in accordance with table 23UNO SCALE: N.T.S.	Date:	Painted by	
	on Tower DRAWING No. Rev ISSUE/DAT	ADDRESS Eusto	All weld leg lenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO	Date: Date:	Fab by Weld by	

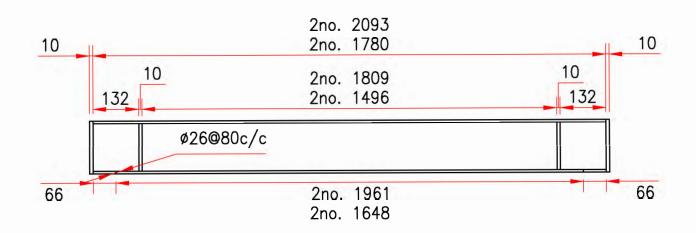


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No	Initial	Date

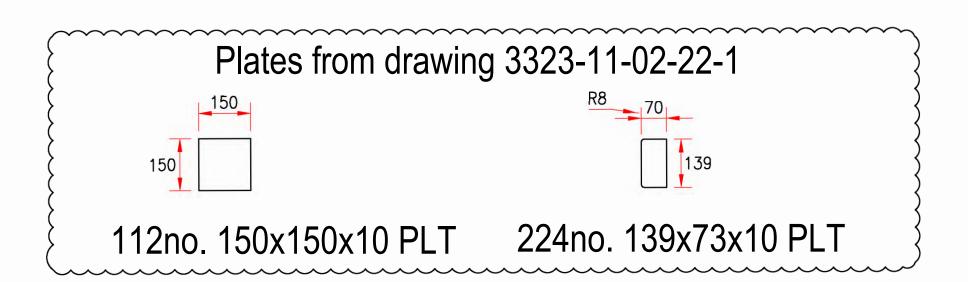
Fabricat	ion Status					_	
Saw by	Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire batch	า 121252	212	
Drill by	Date:	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO	ADDRESS Euston Tower				
Fab by	Date:	All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO					٦
Weld by	<u>Date:</u>	Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO				Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO	
Painted by	<u>Date:</u>	scale: N.T.S.	Draw by: G.K.	DRAWING No.	Rev	ISSUE/DATE	
Check by	Date:	14.1.3.	J 0.K.	3323-11-02-22-5		26/02/2022	!

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TEL: 02085798922 g.kubala@mareth.co.uk



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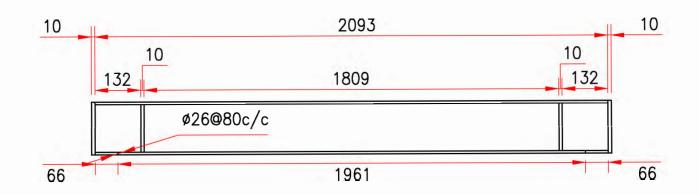


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

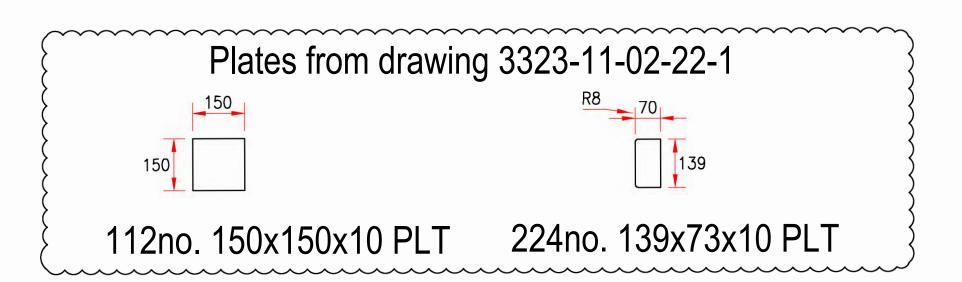
5 ARKWRIGHT ROAD

TEL: 02085798922 g.kubala@mareth.co.uk

Eabrication Status	7					
Fabrication Status						
Saw by Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire batch	121252	12	I
Drill by Date:	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO	TITLE JN3323	/ Mc Gee			11
<u>Fab by Date:</u>	All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO ADDRESS Euston Tower					11
Weld by Date:	Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO					П
Painted by Date:	SCALE: N.T.S.	Draw by: G.K.	DRAWING No.	Rev	ISSUE/DATE	1
Check by Date:	14.1.3.		3323-11-02-22-6		26/02/2022	



16no. 152x152x23 UC Top/Bottom

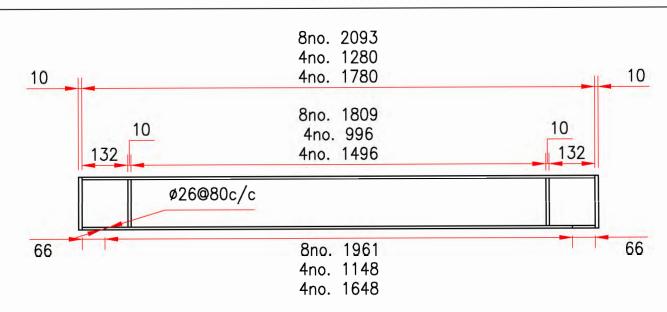


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

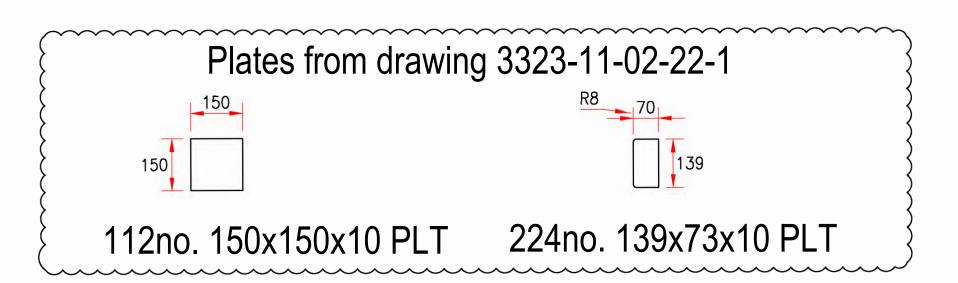
5 ARKWRIGHT ROAD

TEL: 02085798922 g.kubala@mareth.co.uk

Г., b., c', с., д. t	Ctatua						
Fabricati	ion Status						
Saw by	Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire batc	h 121252	212	
Drill by	<u>Date:</u>	All material min. S275 JR UNO All weld leg lenght z6mm UNO All but weld full penetration UNO	TITLE JN3323	3 / Mc Gee			11
Fab by	Date:	All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO		on Tower			11
Weld by	Date:	Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO	Lust	JII TOWCI			
Painted by	Date:	Hold times to be in accordance with table 23UNO	Draw hv: C	DRAWING No.	Rev	ISSUE/DATE	┨┠
Check by	Date:	scale: N.T.S.	Draw by: G.K.	3323-11-02-22-7		03/03/2022	L



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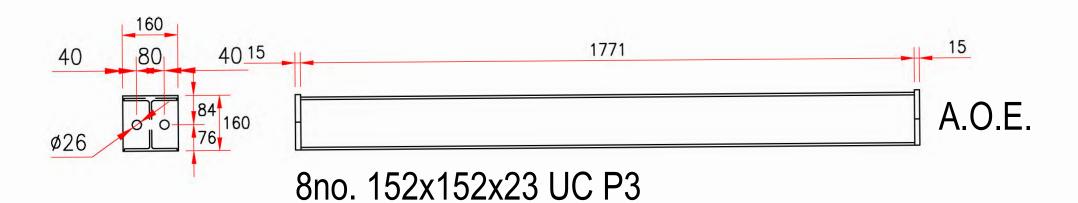


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

5 ARKWRIGHT ROAD

TEL: 02085798922 g.kubala@mareth.co.uk

\neg					
General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire batch	า 121252	212	T
All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO	TITLE JN3323	3 / Mc Gee			1
All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO					71
Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23 UNO		311 10 11 01			
	Draw by: C	DRAWING No.	Rev	ISSUE/DATE	1
June 14.1.3.		3323-11-02-22-8		08/03/2022	
	All dimetres in milimetres UNO All holes 22 dia. UNO All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C	All dimetres in milimetres UNO All holes 22 dia. UNO All material min. S275 JR UNO All weld glenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO	All dimetres in milimetres UNO All holes 22 dia. UNO All material min. S275 JR UNO All weld glenght z6mm UNO All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO	All dimetres in millimetres UNO All holes 22 dia. UNO All material min. S275 JR UNO All weld glenght z6mm UNO All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN 1090-2 Annex B Function tolerance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO EXC 2 Welding Wire batch 121252 TITLE JN3323 / Mc Gee ADDRESS Euston Tower	All dimetres in millimetres UNO All holes 22 dia. UNO All material min. S275 JR UNO All weld gle lengtht z6mm UNO All weld glengtht z6mm UNO All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN 1090-2 Annex B Function tolerance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO Draw by: DRAWING No. Rev ISSUE/DATE



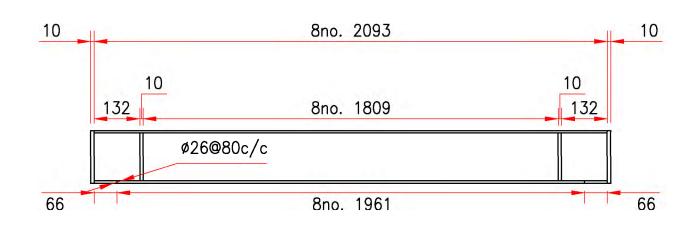
Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

Fabrication Status					-
Saw by Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire batcl	h 121252	l 212
Drill by Date:	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553	TITLE JN3323	3 / Mc Gee		
Fab by Date:	Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO	ADDRESS Eust	on Tower		
Painted by Date: Check by Date:	Hold times to be in accordance with table 23UNO SCALE: N.T.S.	Draw by: G.K.	DRAWING No. 3323-11-02-22-9	Rev	ISSUE/DATE 08/03/2022

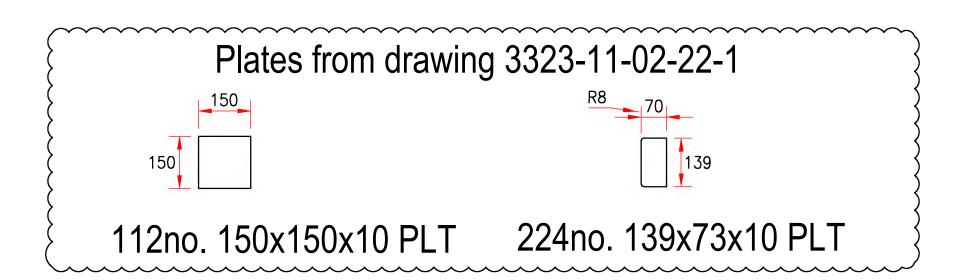
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MARETH FABRICATIONS LTD. 5 ARKWRIGHT ROAD COLNBROOK SLOUGH SL3 0HJ TEL: 02085798922

TEL: 02085798922 g.kubala@mareth.co.uk



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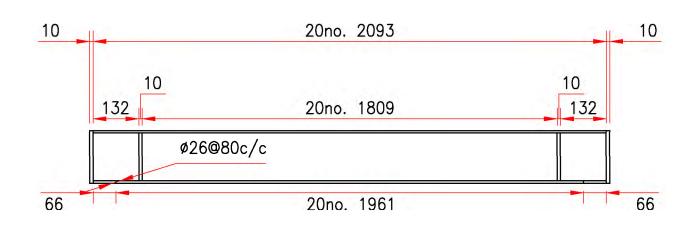


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

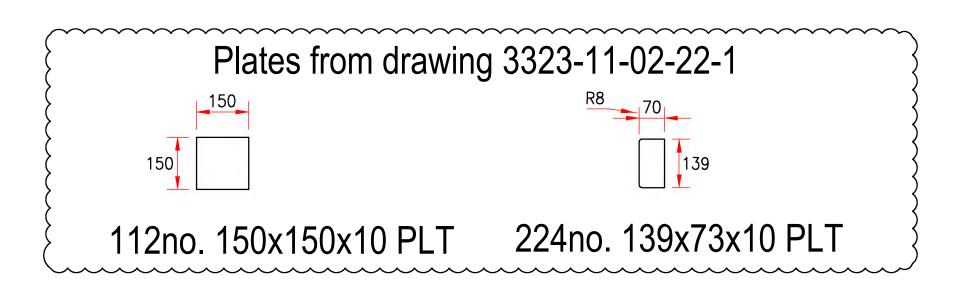
5 ARKWRIGHT ROAD

TEL: 02085798922 g.kubala@mareth.co.uk

Fabricat	ion Status						
Saw by	Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire ba	atch 12125	212	Т
Drill by	Date:	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553	All meterial min. S275 JR UNO All weld fig lenght z6mm UNO All butt weld full penetration UNO				
Weld by	Date: Date:	Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO	ADDRESS Eus	ston Tower			
Painted by Check by	<u>Date:</u> Date:	Hold times to be in accordance with table 23UNO SCALE: N.T.S.	Draw by: G.I	DRAWING No. 3323-11-02-22-1	Rev	ISSUE/DATE 14/03/2022	
Check by	Date.		ı			147 037 2022	



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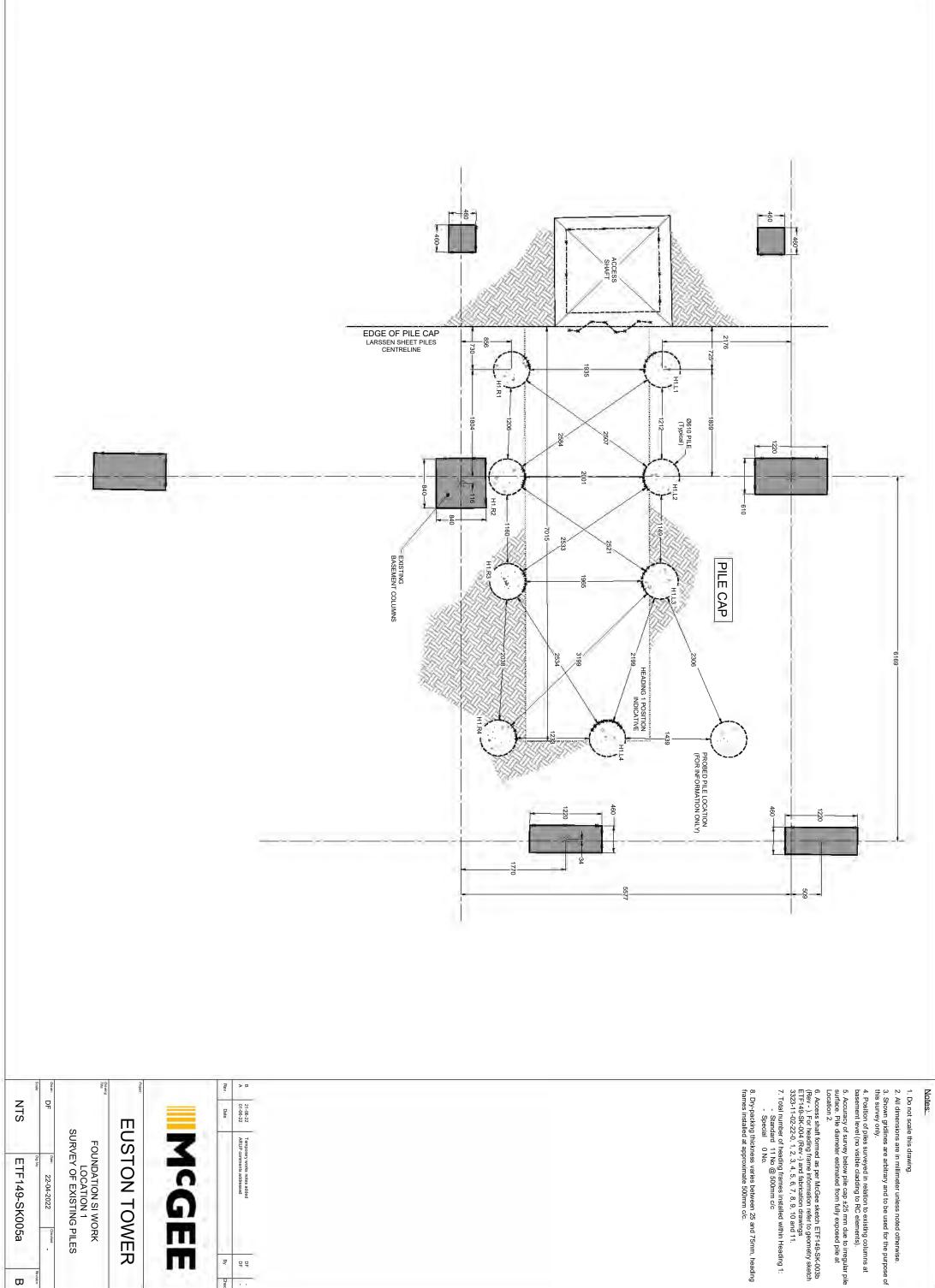


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

5 ARKWRIGHT ROAD

TEL: 02085798922 g.kubala@mareth.co.uk

Fabricat	ion Status							<u> </u>
Saw by	Date:	General Notes	1		.			Ļ
	Date:	All dimetres in milimetres UNO All holes 22 dia. UNO All material min. S275 JR UNO	EXC 2		Welding Wire batcl	h 12125	5212	4
	Date:	All weld leg lenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553	IIILE JN3323 / Mc Gee					
Weld by	Date:	Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO	ADDRESS E	usto	n Tower			
Painted by	Date:	Hold times to be in accordance with table 23UNO	Draw by:	> V	DRAWING No.	Rev	ISSUE/DATE	\exists
Check by	Date:	scale: N.T.S.],	J.N.	3323-11-02-22-11		17/03/2022	



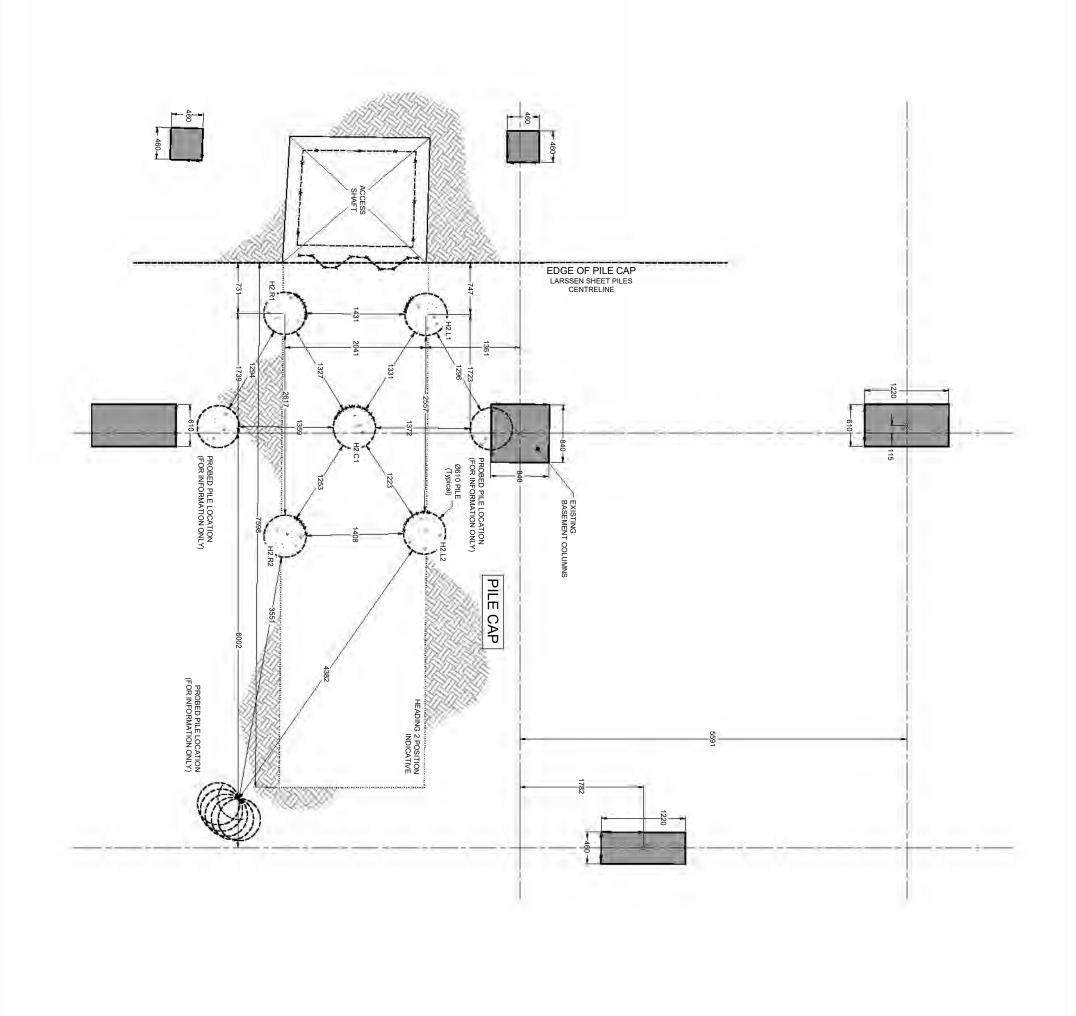
- Do not scale this drawing.
- Shown gridlines are arbitrary and to be used for the purpose of this survey only. 2. All dimensions are in millimeter unless noted otherwise.
- Position of piles surveyed in relation to existing columns at basement level (no visible cladding to RC elements).

FOUNDATION SI WORK LOCATION 1 SURVEY OF EXISTING PILES

By DF

ETF149-SK005a

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Do not scale this drawing.

Shown gridlines are arbitrary and to be used for the purpose of this survey only. 2. All dimensions are in millimeter unless noted otherwise.

Position of piles surveyed in relation to existing columns at basement level (no visible cladding to RC elements).

Accuracy of survey below pile cap ±25 mm due to irregular pile surface. Pile diameter estimated from fully exposed pile at Location 2.

6. Access shaft formed as per McGee sketch ETF149-SK-003b (Rev -). For heading frame information refer to geometry sketch ETF149-SK-004 (Rev -) and fabrication drawings 3323-11-02-22-0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11.

8. Dry-packing thickness varies between 25 and 75mm, heading frames installed at approximate 500mm c/c. 7. Total number of heading frames installed within Heading 2:
 Standard 10 No.
 Special 2 No.

Date

By DF

EUSTON TOWER

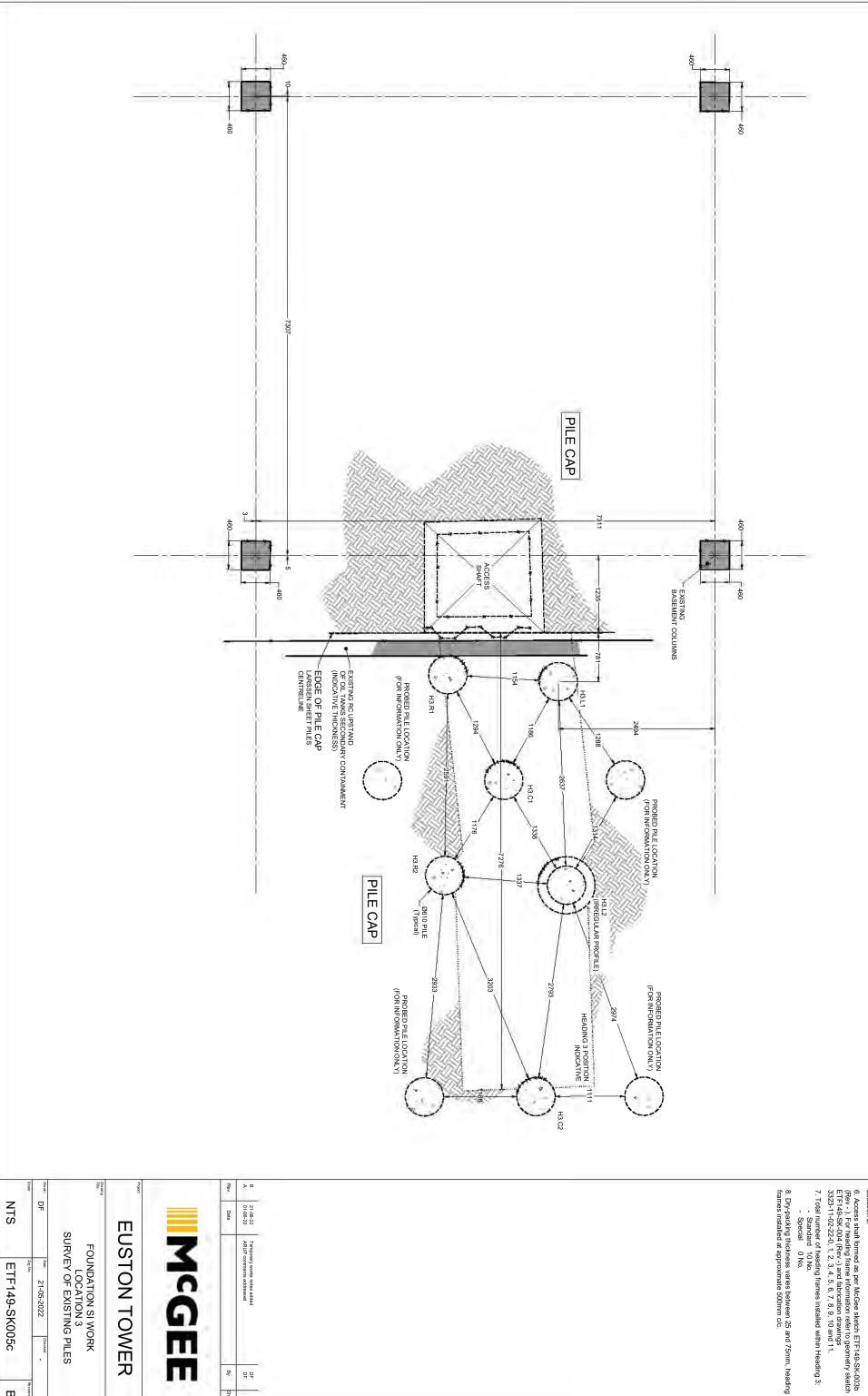
FOUNDATION SI WORK LOCATION 2 SURVEY OF EXISTING PILES

ETF149-SK005b

SLN

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- Do not scale this drawing.
- 2. All dimensions are in millimeter unless noted otherwise.
- Shown gridlines are arbitrary and to be used for the purpose of this survey only.
- Position of piles surveyed in relation to existing columns at basement level (no visible cladding to RC elements).
- Accuracy of survey below pile cap ±25 mm due to irregular pile surface. Pile diameter estimated from fully exposed pile at Location 2.
- 6. Access shaft formed as per McGee sketch ETF149-SK-003b (Rev). For heading frame information refer to geometry sketch ETF149-SK-004 (Rev -) and fabrication drawings 3323-11-02-22-0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11.

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Ву 무무

FOUNDATION SI WORK LOCATION 3 SURVEY OF EXISTING PILES

ETF149-SK005c

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CONCEPT SITE INVESTIGATIONS Site Name: Euston Tower Job No.: 22/3686 Client: McGee Date Reported: 09/06/2022

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	id and	Plastic I	_imits by	/ 4 Poir	nt Cone	Method	
Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
Heading 1	D	Face S001A	0.15	Dark grey slightly micaceous silty CLAY	26	Natural	100	71	26	45	
Heading 1	D	Face S002A	0.80	Greyish brown slightly micaceous silty CLAY with rare pockets of light brown silty fine sand	26	Natural	100	71	26	45	
Heading 1	D	Face S003A	1.65	Greyish brown slightly micaceous silty CLAY	27	Natural	100	75	27	48	
Heading 2	D	Face S004A	0.10	Brown silty CLAY	29	Natural	100	75	27	48	
Heading 2	О	Face S005A	1.00	Greyish brown slightly micaceous slightly sandy silty CLAY with rare shell fragments and pockets of light grey silty fine sand	24	Natural	100	66	25	41	
Heading 2	D	Face S006A	2.00	Greyish brown slightly micaceous silty CLAY	27	Natural	100	73	26	47	

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method





Date - samples received:	20/04/2022			
Date - sample testing commenced :	24/05/2022	by:	01/06/2022	OOROEPT 47-49 Brunel Road, London W3 7XR
Date - sample testing completed :	26/05/2022	Date Approved:	KM	Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	K Mazerant KM (Lab N	Ingr)	

CONCEPT SITE INVESTIGATIONS **Euston Tower** Job No.: 22/3686 Site Name: Client: McGee Date Reported: 16/06/2022

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	Limits by	/ 4 Poir	nt Cone	Method	
Borehole	Sample	Sample No.	Depth	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
N₀. Heading 1	Type	Pile L3 S010	m 1.20	Greyish brown silty CLAY	26		%	%	<u>%</u>	%	
rieading r	030	Disc 1	1.20		20						
Heading 1	U38	Pile L3 S010 Disc 2	1.20	Greyish brown silty CLAY	26						
Heading 1	U38	Pile L3 S010 Disc 3	1.20	Greyish brown silty CLAY	27						
Heading 1	U38	Pile L3 S010 Disc 4	1.20	Greyish brown silty CLAY	32						
Heading 1	U38	Pile L3 S010 Disc 5	1.20	Greyish brown silty CLAY	29						
Heading 1		Pile L3 S010 Disc 6	1.20	Greyish brown silty CLAY	28						
Heading 1	U38	Pile L3 S010 Disc 7	1.20	Greyish brown silty CLAY	29						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

Remarks: The results reported relate only to the items tested or sampled.





Approved Signatories:	L Griffin LG (QA Technica	al & Lab Mngr) – K Mazerant KM (Lab N	/Ingr)	
Date - sample testing completed :	26/05/2022	Date Approved:	KM	Tel
Date - sample testing commenced :	24/05/2022	by:	01/06/2022	
Date - samples received:	20/04/2022	Observed / Assessed		

OCADEPT
47-49 Brunel Road, London W3 7XR
el: 02087401553 Email: lab@conceptconsultants.co.uk

CONCEPT SITE INVESTIGATIONS Site Name: Euston Tower Job No.: 22/3686 Client: McGee Date Reported: 16/06/2022

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	_imits by	/ 4 Poir	nt Cone	Method	
Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
Heading 1		Pile R3 S011 Disc 1	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25		76	76	76	76	
Heading 1	U38	Pile R3 S011 Disc 2	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1	U38	Pile R3 S011 Disc 3	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1	U38	Pile R3 S011 Disc 4	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1	U38	Pile R3 S011 Disc 5	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	23						
Heading 1	U38	Pile R3 S011 Disc 6	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1	U38	Pile R3 S011 Disc 7	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method





Date - samples received:	20/04/2022	0		
Date - sample testing commenced :	24/05/2022	by:	01/06/2022	OOROEPT 47-49 Brunel Road, London W3 7XR
Date - sample testing completed :	26/05/2022	Date Approved:	KM	Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	K Mazerant KM (Lab M	ngr)	

CONCEPT SITE INVESTIGATIONS Site Name: Euston Tower Job No.: 22/3686 Client: McGee Date Reported: 16/06/2022

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	_imits by		nt Cone		
Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
Heading 1		Pile L4 S012 Disc 1	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26		76	76	76	76	
Heading 1	U38	Pile L4 S012 Disc 2	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1	U38	Pile L4 S012 Disc 3	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1	U38	Pile L4 S012 Disc 4	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	26						
Heading 1	U38	Pile L4 S012 Disc 5	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1	U38	Pile L4 S012 Disc 6	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1	U38	Pile L4 S012 Disc 7	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						
Heading 1	U38	Pile L4 S012 Disc 8	1.20	Greyish brown silty CLAY with rare pockets of grey silty sand	25						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

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Date - samples received:	20/04/2022	0		
Date - sample testing commenced :	24/05/2022	by:	01/06/2022	OOROEPT 47-49 Brunel Road, London W3 7XR
Date - sample testing completed :	26/05/2022	Date Approved:	KM	Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	K Mazerant KM (Lab M	ngr)	

CONCEPT SITE INVESTIGATIONS **Euston Tower** Job No.: 22/3686 Site Name: Client: McGee Date Reported: 16/06/2022

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	id and	Plastic I	_imits by	/ 4 Poir	nt Cone	Method	
Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	Washed Natural	Passing 425 μm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
Heading 3	D	Face S030A	0.20	Dark grey slightly micaceous silty CLAY	34	Natural	100	86	29	57	
Heading 3	D	Face S031A	1.05	Greyish brown slightly micaceous silty CLAY with rare pockets of light brown silty fine sand	28	Natural	100	80	27	53	
Heading 3	D	Face S032A	1.95	Greyish brown slightly micaceous silty CLAY	30	Natural	100	80	28	52	

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

Remarks: The results reported relate only to the items tested or sampled.





by:	KM	Τe
Lipate - sample testing commenced 06/06/2022	15/00/2022	
	15/06/2022	1
Date - samples received: 25/05/2022		Г

COROSPT 47-49 Brunel Road, London W3 7XR Fel: 02087401553 Email: lab@conceptconsultants.co.uk

CONCEPT SITE INVESTIGATIONS Site Name: Euston Tower Job No.: 22/3686 Client: McGee Date Reported: 16/06/2022

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	Limits by	/ 4 Poir	nt Cone		
Borehole	Sample		Depth	Description	Natural Moisture Content	Washed Natural	Passing 425 μm sieve	Liquid Limit	Plastic Limit	Plasticity Index	Remarks
No.	Type	No.	m 2.50	Charlish known silky OLAY	%		%	%	%	%	
Heading 3		Pile C2 S035 Disc 1	3.50	Greyish brown silty CLAY	27						
Heading 3	U38	Pile C2 S035 Disc 2	3.50	Greyish brown silty CLAY	28						
Heading 3	U38	Pile C2 S035 Disc 3	3.50	Greyish brown silty CLAY	27						
Heading 3	U38	Pile C2 S035 Disc 4	3.50	Greyish brown silty CLAY	27						
Heading 3		Pile C2 S035 Disc 5	3.50	Greyish brown silty CLAY	28						
Heading 3		Pile C2 S035 Disc 6	3.50	Greyish brown silty CLAY	27						
Heading 3		Pile C2 S035 Disc 7	3.50	Greyish brown silty CLAY	27						
		Pile C2 S035 Disc 8	3.50	Greyish brown silty CLAY	27						
Heading 3	U38	Pile C2 S035 Disc 9	3.50	Greyish brown silty CLAY	27						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS ASSOCIATION OF GRAPHICHING IN DECISIONS



Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	- K Mazerant KM (Lab M	Ingr)	1
Date - sample testing completed :	13/06/2022	Date Approved:	KM	Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Date - sample testing commenced :	06/06/2022	by:	15/06/2022	CONCEPT 47-49 Brunel Road, London W3 7XR
Date - samples received:	25/05/2022	Observed / Assessed		

CONCEPT SITE INVESTIGATIONS Job No.: Site Name: **Euston Tower** 22/3686 Client: McGee Date Reported: 16/06/2022 **Summary Test Report** Determination of Moisture Content and Liquid and Plastic Limits by 4 Point Cone Method Liquid Natural Passing Plastic 425 μm Remarks Description Content Natural sieve Heading 3 U38 Pile C2 S035 3.50 Greyish brown silty CLAY with rare pockets of grey Disc 10

	<i>B</i> 100 10	 silty sand				

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

Remarks: The results reported relate only to the items tested or sampled.





Date - samples received:	25/05/2022	Observed (Assessed	
Date - sample testing commenced :	06/06/2022	by:	15/06/2022
Date - sample testing completed :	13/06/2022	Date Approved:	KM
Approved Signatories:	L Griffin LG (QA Technical & Lab Mng	r) – K Mazerant KM (Lab N	/Ingr)

CONCEPT

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

CONCEPT SITE INVESTIGATIONS Site Name: Euston Tower Job No.: 22/3686 Client: McGee Date Reported: 16/06/2022

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	_imits by	/ 4 Poir	nt Cone	Method	
Borehole	Sample		Depth	Description	Natural Moisture Content	Washed Natural	Passing 425 µm sieve	Liquid Limit	Plastic Limit	Plasticity Index	Remarks
No.	Type	No.	m		%	<u> </u>	%	%	%	%	
Heading 3	U38	Pile C2 S033 Disc 1	7.00	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S033 Disc 2	7.00	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S033 Disc 3	7.00	Brownish grey silty CLAY	29						
Heading 3	U38	Pile C2 S033 Disc 4	7.00	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S033 Disc 5	7.00	Brownish grey silty CLAY	27						
Heading 3		Pile C2 S033 Disc 6	7.00	Brownish grey silty CLAY	28						
Heading 3		Pile C2 S033 Disc 7	7.00	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S033 Disc 8	7.00	Brownish grey silty CLAY	27						
Heading 3	U38	Pile C2 S033 Disc 9	7.00	Brownish grey silty CLAY	27						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS 49920-1-од от свето



Date - samples received:	20/04/2022	0		
Date - sample testing commenced :	06/06/2022	by:	15/06/2022	OOROEPT 47-49 Brunel Road, London W3 7XR
Date - sample testing completed :	13/06/2022	Date Approved:	KM	Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	K Mazerant KM (Lab M	ngr)	

CONCEPT SITE INVESTIGATIONS **Euston Tower** Job No.: Site Name: 22/3686 Client: McGee Date Reported: 16/06/2022 **Summary Test Report** Determination of Moisture Content and Liquid and Plastic Limits by 4 Point Cone Method Liquid Passing Sample Depth Moisture Washed 425 μm Limit Remarks Description Content Natural sieve Heading 3 U38 Pile C2 S033 7.00 Brownish grey silty CLAY 27 Disc 10

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS ABSOLUTION OF GRAPHICHIC IN D.



Date - samples received:	20/04/2022			
Date - sample testing commenced :	06/06/2022	by:	15/06/2022	OOROEPT 47-49 Brunel Road, London W3 7XR
Date - sample testing completed :	13/06/2022	Date Approved:	KM	Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	- K Mazerant KM (Lab Mn	gr)	

CONCEPT SITE INVESTIGATIONS Site Name: Euston Tower Job No.: 22/3686 Client: McGee Date Reported: 16/06/2022

Summary Test Report

	De	termination	of Moist	ure Content and Liqu	uid and	Plastic I	_imits by	/ 4 Poir	nt Cone	Method	
Borehole	Sample		Depth	Description	Natural Moisture Content	Washed Natural	Passing 425 µm sieve	Liquid Limit	Plastic Limit	Plasticity Index	Remarks
No.	Type	No.	m		%	<u> </u>	%	%	%	%	
Heading 3		Pile C2 S034 Disc 1	1.40	Brownish grey silty CLAY	29						
Heading 3	U38	Pile C2 S034 Disc 2	1.40	Brownish grey silty CLAY	29						
Heading 3	U38	Pile C2 S034 Disc 3	1.40	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S034 Disc 4	1.40	Brownish grey silty CLAY	28						
Heading 3	U38	Pile C2 S034 Disc 5	1.40	Brownish grey silty CLAY	29						
Heading 3		Pile C2 S034 Disc 6	1.40	Brownish grey silty CLAY	29						
Heading 3		Pile C2 S034 Disc 7	1.40	Brownish grey silty CLAY	29						
		Pile C2 S034 Disc 8	1.40	Brownish grey silty CLAY	29						
Heading 3	U38	Pile C2 S034 Disc 9	1.40	Brownish grey silty CLAY	29						

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS



Date - samples received:	20/04/2022		
Date - sample testing commenced :	06/06/2022	by: 15/06/2022	OOROEPT 47-49 Brunel Road, London W3 7XR
Date - sample testing completed :	13/06/2022	Date Approved: KM	Tel: 02087401553 Email: lab@conceptconsultants.co.uk
Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	- K Mazerant KM (Lab Mngr)	

CONCEPT SITE INVESTIGATIONS **Euston Tower** Job No.: Site Name: 22/3686 Client: McGee Date Reported: 16/06/2022 **Summary Test Report** Determination of Moisture Content and Liquid and Plastic Limits by 4 Point Cone Method Liquid Passing Sample Depth Moisture Washed 425 μm Limit Remarks Description Content Natural sieve Heading 3 U38 Pile C2 S034 1.40 Brownish grey silty CLAY 30 Disc 10 BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method



Remarks: The results reported relate only to the items tested or sampled.

Approved Signatories:	L Griffin LG (QA Technical & Lab Mngr) -	- K Mazerant KM (Lab M	ngr)	1	
Date - sample testing completed :	13/06/2022	Date Approved:	KM	Tel: 02087401553	Email: lab@con
Date - sample testing commenced :	06/06/2022	by:	15/06/2022	47-49 B	OOROEPT runel Road, Londo
Date - samples received:	20/04/2022	Observation I / Assessment			

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PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Name: Euston Tower Jo							22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 1	Sample Type/No.	D	Face S001A	Top Depth:	0.15 m	Bottom Depth:	m

Soil Description:

Dark grey slightly micaceous silty CLAY

BS Test	Sieves
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	100
0.212	100
0.150	100
0.063	100

Sedimentation					
(*if applicable)					
Size (mm)	% Passing				
0.020	93				
0.006	77				
0.002	61				

			_			100.0					
						TTT 100.0					
			•								
	 		 	- 	 	90.0					
	 		 	- 	 	80.0					
		 / 	 	- 	 	70.0					
		[/									
	 		 	- 	 	60.0					
	- 		 	- 		50.0					
			- 	- 	 	40.0					
	- 		- 	- 	 	30.0					
	- 		 	- 	 	20.0					
	- 		 	- 	 	10.0					
					10.000	0.0					
0.0001	0.0010	0.0100	0.1000 Particl		10.0000	100.0000					
	Particle Size (mm)										
		F M	C F	MC	F M C	_ w					
	CLAY	SILT		SAND	GRAVEL	COBBLES					
		SILI		OMNU	GRAVEL	8					

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %					
Cobbles					
Gravel					
Sand	0.4				
Silt	38.2				
Clay	61.5				





Remarks:
Particle size distribution by dry sieve was not carried out on sand fraction

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 29/05/2022
 Date Approved:
 KM

OOROUFT47-49 Brunel Road, London W3 7XR
Tel: 02087401553

Tel: 02087401553 Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Name: Euston Tower Jo							22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 1	Sample Type/No.	D	Face S002A	Top Depth:	0.80 m	Bottom Depth:	m

Soil Description:

Greyish brown slightly micaceous silty CLAY with rare pockets of light brown silty fine sand

BS Test	Sieves
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	100
0.212	100
0.150	100
0.063	98

Sedimentation					
(*if applicable)					
Size (mm)	% Passing				
0.020	88				
0.006	71				
0.002	56				

		<u> </u>		100.0
				90.0
	 			80.0
				70.0
				70.0
	 			60.0
	*			
			 	50.0
				40.0
				30.0
				20.0
				10.0
				0.0
0.0001 0.0010	0.0100	0.1000 1.0000 Particle Size (mm)	10.0000	100.0000
	F M C	F M C	F M C	ES
CLAY	SILT	SAND	GRAVEL	COBBLES
	l	l	l	

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %					
Cobbles					
Gravel					
Sand	1.5				
Silt	42.0				
Clay	56.5				





Remarks:

Particle size distribution by dry sieve was not carried out on sand fraction

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 29/05/2022
 Date Approved:
 KM

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

Form Lab 004 Rev 01/20 02 July 2020

PARTICLE SIZE DISTRIBUTION

TEST REPORT

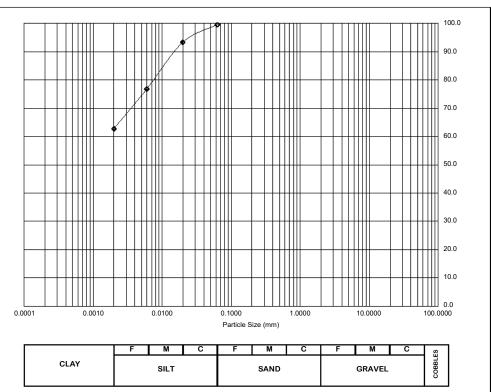
Site Name:	Euston Tower						Job Number:	22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 1	Sample Type/No.	D	Face S003A	Top Depth:	1.65 m	Bottom Depth:	m

Soil Description:

Greyish brown slightly micaceous silty CLAY

BS Test	Sieves
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	100
0.212	100
0.150	100
0.063	99

Sedimentation				
(*if applicable)				
Size (mm)	% Passing			
0.020	93			
0.006	77			
0.002	63			



0.006	77	CLAY	SILT	SAND	GRAVEL
0.002	63		SILI	SAND	GRAVEL

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %					
Cobbles					
Gravel					
Sand	0.5				
Silt	36.8				
Clay	62.7				





Particle size distribution by dry sieve was not carried out on sand fraction

The results reported relate only to the items tested or sampled.

20/04/2022 Date - samples received: Checked / Approved by: 01/06/2022 Date - sample testing commenced: 24/05/2022 Date - sample testing completed : 29/05/2022 Date Approved:

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553

Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Euston Tower J						Job Number:	22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 2	Sample Type/No.	D	Face S004A	Top Depth:	0.10 m	Bottom Depth:	m

Soil Description:

Brown silty CLAY

BS Test	Sieves
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	100
0.212	100
0.150	100
0.063	99

Sedime	ntation
(*if appl	icable)
Size (mm)	% Passing
0.020	92
0.006	76
0.002	65

										100.0
				*						1111 100.0
			🖟							90.0
								Ш		90.0
			¥							80.0
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										1111 30.0
										40.0
										1111 40.0
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										20.0
										10.0
										∭ ₀.₀
0.0001	0.0001 0.0010 0.0100 0.1000 1.0000 10.0000 100.0000									
Particle Size (mm)										
		F	M C	F	M	С	F I	М	С	
1 .	CLAY		•	SAND			GRAVEL			COBBLES
J JEAN		,	SILT							

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %				
Cobbles				
Gravel				
Sand	0.8			
Silt	34.0			
Clay	65.2			





Particle size distribution by dry sieve was not carried out on sand fraction

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 29/05/2022
 Date Approved:
 KM

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Euston Tower						Job Number:	22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 2	Sample Type/No.	D	Face S005A	Top Depth:	1.00 m	Bottom Depth:	m

Soil Description:

Greyish brown slightly micaceous slightly sandy silty CLAY with rare shell fragments and pockets of light grey silty fine sand

BS Test	Sieves						
Size (mm)	% Passing						
75.000	100						
63.000	100						
50.000	100						
37.500	100						
28.000	100						
20.000	100						
14.000	100						
10.000	100						
6.300	100						
5.000	100						
3.350	100						
2.000	100						
1.180	100						
0.600	100						
0.425	100						
0.300	100						
0.212	100						
0.150	100						
0.063	96						

		CL	AY				F	F		Ι		M	L	()		F		F		M		Ι		С		F	F	Ι		M AVE	コ	С		Ī	COBBLES	1
001				0.0	0010)					0.0	100							000 rticle S	ize	(mı	m)		1.0	0000)			1	0.0	000)			100	0.00	000
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Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %								
Cobbles								
Gravel								
Sand	4.3							
Silt	42.2							
Clay	53.5							





Remarks:

Particle size distribution by dry sieve was not carried out on sand fraction

The results reported relate only to the items tested or sampled.

Date - samples received: 20/04/2022

 Date - sample testing commenced :
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed :
 29/05/2022
 Date Approved:
 KM

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

OOROEPT

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

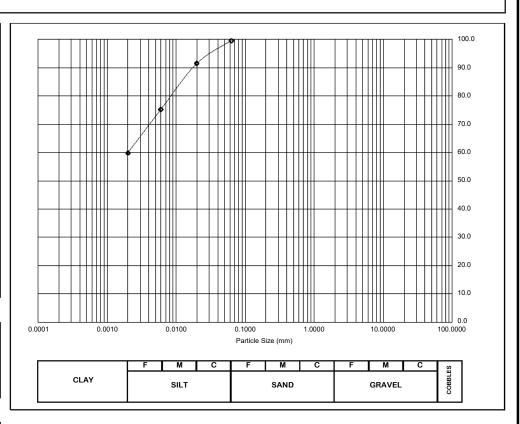
Site Name:	Euston Tower						Job Number:	22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 2	Sample Type/No.	D	Face S006A	Top Depth:	2.00 m	Bottom Depth:	m

Soil Description:

Greyish brown slightly micaceous silty CLAY

BS Test	Sieves					
Size (mm)	% Passing					
75.000	100					
63.000	100					
50.000	100					
37.500	100					
28.000	100					
20.000	100					
14.000	100					
10.000	100					
6.300	100					
5.000	100					
3.350	100					
2.000	100					
1.180	100					
0.600	100					
0.425	100					
0.300	100					
0.212	100					
0.150	100					
0.063	100					

Sedimentation									
(*if applicable)									
Size (mm)	% Passing								
0.020	91								
0.006	75								
0.002	60								



Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %								
Cobbles								
Gravel								
Sand	0.5							
Silt	39.7							
Clay	59.8							





Particle size distribution by dry sieve was not carried out on sand fraction

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 29/05/2022
 Date Approved:
 KM

OOROEPT

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

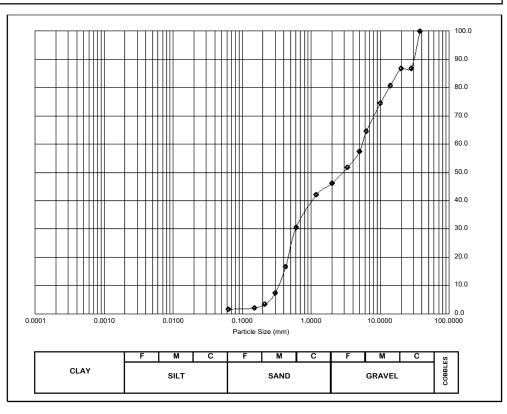
Site Name:	Euston Tower						Job Number:	22/3686
Client:	McGee						Date Reported:	01/06/2022
Borehole No:	Heading 2	Sample Type/No.	D	Gravel spoil	Top Depth:	2.00 m	Bottom Depth:	m

Soil Description:

Brown slightly silty very sandy fine to coarse flint GRAVEL

BS Test	Sieves
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	87
20.000	87
14.000	81
10.000	74
6.300	65
5.000	57
3.350	52
2.000	46
1.180	42
0.600	30
0.425	17
0.300	7
0.212	3
0.150	2
0.063	2

Sedimentation								
(*if applicable)								
Size (mm)	% Passing							
0.020								
0.006								
0.002								



Method/type: Wet Sieving

Wet Sieving BS 1377: Part 2: Clause 9.2: 1990 Determination of particle size distribution - wet sieving method.

Particle Pro	portions %
Cobbles	
Gravel	53.8
Sand	44.6
Silt and Clay	1.6





Sample mass does not meet the requirements of BS1377: Part 2: 1990

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 20/04/2022

 Date - sample testing commenced:
 24/05/2022
 Checked / Approved by: 01/06/2022

 Date - sample testing completed:
 25/05/2022
 Date Approved:
 KM

OOROEFT47-49 Brunel Road, London W3 7XR

Tel: 02087401553
Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Euston Tower		Job Number:	22/3686				
Client:	McGee						Date Reported:	15/06/2022
Borehole No:	Heading 3	Sample Type/No.	D	Face S030A	Top Depth:	0.20 m	Bottom Depth:	m

Soil Description:

Brownish grey silty CLAY with rare pockets of silty fine sand and fine flint gravel

BS Test Sieves						
Size (mm)	% Passing					
75.000	100					
63.000	100					
50.000	100					
37.500	100					
28.000	100					
20.000	100					
14.000	100					
10.000	100					
6.300	100					
5.000	100					
3.350	100					
2.000	100					
1.180	100					
0.600	100					
0.425	100					
0.300	100					
0.212	100					
0.150	100					
0.063	99					

Sedimentation							
(*if applicable)							
Size (mm)	% Passing						
0.020	95						
0.006	76						
0.002	59						

						100.0
		111111111/1				90.0
						80.0
		1 //				70.0
		 		 		60.0
						50.0
						40.0
						40.0
	 			 		30.0
						20.0
						10.0
0001	0.0010	0.0100	0.1000	1.0000	10.0000	100.0000
			Particle	Size (mm)		
		F M	C F	M C	F M	C Si
CLAY		SILT		SAND	GRAVEL	COBBLES

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %					
Cobbles					
Gravel					
Sand	1.1				
Silt	39.5				
Clay	59.4				





Particle size distribution by dry sieve was not carried out on sand fraction

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 25/05/2022

 Date - sample testing commenced:
 06/06/2022
 Checked / Approved by:
 KM

 Date - sample testing completed:
 13/06/2022
 Date Approved:
 15/06/2022

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk

Form Lab 004 Rev 01/20 02 July 2020

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Euston Tower		Job Number:	22/3686				
Client:	McGee		Date Reported:	15/06/2022				
Borehole No:	Heading 3	Sample Type/No.	D	Face S031A	Top Depth:	1.05 m	Bottom Depth:	m

Soil Description:

Brownish grey slightly micaceous silty CLAY

BS Test	Sieves
Size (mm)	% Passing
75.000	100
63.000	100
50.000	100
37.500	100
28.000	100
20.000	100
14.000	100
10.000	100
6.300	100
5.000	100
3.350	100
2.000	100
1.180	100
0.600	100
0.425	100
0.300	100
0.212	100
0.150	100
0.063	99

ng

				100.0
				100.0
	 			90.0
				80.0
				70.0
				70.0
				60.0
				50.0
				40.0
				30.0
				20.0
				10.0
.0001 0.0010	0.0100	0.1000 1.0000	10.0000	0.0
		Particle Size (mm)		
	F M C	F M C	F M C	δï
CLAY	SILT	SAND	GRAVEL	COBBLES

J2U	92		 IVI	U	-	IVI	U	-	IVI	U	S
006	78	CLAY	SILT			SAND			GRAVEL		BBLE
002	63		SILI			SAND			GRAVEL		8
								'			

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %					
Cobbles					
Gravel					
Sand	0.5				
Silt	36.0				
Clay	63.5				





Particle size distribution by dry sieve was not carried out on sand fraction

The results reported relate only to the items tested or sampled.

25/05/2022 Date - samples received: Date - sample testing commenced : 06/06/2022 Checked / Approved by: 15/06/2022 Date - sample testing completed : 13/06/2022 Date Approved:

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

CONCEPT 47-49 Brunel Road, London W3 7XR Tel: 02087401553

Email: lab@conceptconsultants.co.uk

PARTICLE SIZE DISTRIBUTION

TEST REPORT

Site Name:	Euston Tower		Job Number:	22/3686				
Client:	McGee						Date Reported:	15/06/2022
Borehole No:	Heading 3	Sample Type/No.	D	Face S032A	Top Depth:	1.95 m	Bottom Depth:	m

Soil Description:

Brownish grey slightly micaceous silty CLAY with rare pockets of light grey silt

BS Test	Sieves			
Size (mm)	% Passing			
75.000	100			
63.000	100			
50.000	100			
37.500	100			
28.000	100			
20.000	100			
14.000	100			
10.000	100			
6.300	100			
5.000	100			
3.350	100			
2.000	100			
1.180	100			
0.600	100			
0.425	100			
0.300	100			
0.212	100			
0.150	100			
0.063	99			

Sedimentation							
(*if applicable)							
Size (mm)	% Passing						
0.020	91						
0.006	77						
0.002 66							

		9111 1 1 1 1 1 1 1 1 1 1		100.0						
	 		 	90.0						
	 			80.0						
				70.0						
				70.0						
				60.0						
				50.0						
				40.0						
				30.0						
				20.0						
				10.0						
				10.0						
0.0001 0.0010	0.0100	0.1000 1.0000	10.0000	100.0000						
	Particle Size (mm)									
	F M C	F M C	F M C	S.						
CLAY	SILT	SAND	GRAVEL	COBBLES						
	l	l .								

Method/type: Pipette

BS 1377: Part 2: Clause 9.4: 1990 Determination of sedimentation by the pipette method.

Particle Proportions %						
Cobbles						
Gravel						
Sand	1.0					
Silt	33.5					
Clay	65.5					





Remarks:

Particle size distribution by dry sieve was not carried out on sand fraction

Approved Signatories: L Griffin LG (QA Technical & Lab Mngr) – K Mazerant KM (Lab Mngr)

The results reported relate only to the items tested or sampled.

 Date - samples received:
 25/05/2022

 Date - sample testing commenced:
 06/06/2022
 Checked / Approved by:
 KM

 Date - sample testing completed:
 13/06/2022
 Date Approved:
 15/06/2022

COROCPT

47-49 Brunel Road, London W3 7XR Tel: 02087401553 Email: lab@conceptconsultants.co.uk





Lynn Griffin

Concept Site Investigations Unit 8 Warple Mews Warple Way London W3 0RF

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e: reception@i2analytical.com

Analytical Report Number: 22-57065

Replaces Analytical Report Number: 22-57065, issue no. 2 Client references/information amended.

Project / Site name:Euston TowerSamples received on:09/05/2022

Your job number: 22 3686 **Samples instructed on/** 09/05/2022

Analysis started on:

Your order number: L2800 Analysis completed by: 17/05/2022

Report Issue Number: 3 **Report issued on:** 17/05/2022

Samples Analysed: 5 soil samples

turmedio

Signed:

Joanna Wawrzeczko Reporting Specialist

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are : soils - 4 weeks from reporting

leachates - 2 weeks from reporting waters - 2 weeks from reporting asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies.

An estimate of measurement uncertainty can be provided on request.





Analytical Report Number: 22-57065 Project / Site name: Euston Tower Your Order No: L2800

Lab Sample Number	2268489	2268490	2268491	2268492	2268493			
Sample Reference				Heading 1	Heading 1	Heading 2	Heading 2	Heading 2
Sample Number				Face S001A	Face S003A	Face S004A	Face S006A	Gravel spoil S007
Depth (m)				0.15	1.65	0.10	2.00	2.00
Date Sampled				09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	17	18	17	4.5
Total mass of sample received	kg	0.001	NONE	0.2	0.2	0.2	0.2	0.4

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.2	8.3	8.6	8.2	9	
Total Sulphate as SO4	%	0.005	MCERTS	0.154	0.101	0.014	0.113	-	
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.94	0.47	0.06	0.67	0.1	
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	938	470	60.4	671	99.5	
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	73	47	4.5	40	4.5	
Total Sulphur	%	0.005	MCERTS	0.407	0.289	0.011	0.35	-	
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	69	56	8.2	77	< 5.0
Magnesium (leachate equivalent)	mg/l	2.5	NONE	34	28	4.1	39	< 2.5





Analytical Report Number : 22-57065 Project / Site name: Euston Tower

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2268489	Heading 1	Face S001A	0.15	Grey clay.
2268490	Heading 1	Face S003A	1.65	Grey clay.
2268491	Heading 2	Face S004A	0.1	Brown clay.
2268492	Heading 2	Face S006A	2	Grey clay.
2268493	Heading 2	Gravel spoil S00	2	Brown sand with gravel.





Analytical Report Number : 22-57065 Project / Site name: Euston Tower

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN- 82/C-04579.08, 2:1 extraction.	L078-PL	w	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.





Lynn Griffin

Concept Site Investigations Unit 8 Warple Mews Warple Way London W3 ORF

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e: reception@i2analytical.com

Analytical Report Number: 22-63057

Replaces Analytical Report Number: 22-63057, issue no. 1 Client sampling date amended.

Project / Site name: Euston Tower Samples received on: 07/06/2022

Your job number: 22 3686 **Samples instructed on/** 07/06/2022

Analysis started on:

Your order number: L2825 Analysis completed by: 15/06/2022

Report Issue Number: 2 **Report issued on:** 15/06/2022

Samples Analysed: 2 soil samples

Mertyme denger

Signed:

Martyna Langer Junior Reporting Specialist

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are : soils - 4 weeks from reporting

leachates - 2 weeks from reporting waters - 2 weeks from reporting asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies.

An estimate of measurement uncertainty can be provided on request.





Analytical Report Number: 22-63057 Project / Site name: Euston Tower Your Order No: L2825

Lab Sample Number	2303222	2303223			
Sample Reference	Heading 3	Heading 3			
Sample Number	Face S030A	Face S032A			
Depth (m)				0.20	1.95
Date Sampled				06/06/2022	06/06/2022
Time Taken	None Supplied	None Supplied			
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	22	19
Total mass of sample received	kg	0.001	NONE	0.2	0.3

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.9	8.1
Total Sulphate as SO4	%	0.005	MCERTS	0.141	0.184
water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.56	0.75
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	562	746
Water Soluble Chloride (2:1) (leachate equivalent)	mg/l	0.5	MCERTS	39	39
Total Sulphur	%	0.005	MCERTS	0.252	0.353
Water Soluble Nitrate (2:1) as N (leachate equivalent)	mg/l	2	NONE	< 2.0	< 2.0

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	6.6	67
Magnesium (leachate equivalent)	mg/l	2.5	NONE	3.3	33





Analytical Report Number : 22-63057 Project / Site name: Euston Tower

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2303222	Heading 3	Face S030A	0.2	Brown clay and loam.
2303223	Heading 3	Face S032A	1.95	Brown clay.





Analytical Report Number : 22-63057 Project / Site name: Euston Tower

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Magnesium, water soluble, in soil Determination of water soluble magnesium by extraction with water followed by ICP-OES.		In-house method based on TRL 447	L038-PL	D	NONE
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	w	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total Sulphate in soil as %	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Total Sulphur in soil as %	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Water Soluble Nitrate (2:1) as N in soil	Determination of nitrate by reaction with sodium salicylate and colorimetry.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN- 82/C-04579.08, 2:1 extraction.	L078-PL	w	NONE
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

CONCEPT SITE INVESTIGATIONS			Summary Tes	(Si	ingle-Sta	ge)	al Compre	ession		eported:	16/06/2022		
Site Location: Euston Tower					BS 1377 : Part 7: 1990 Clause 8 Client: McGee					Job	No.:	22/3686	
BH No.	Sample Type	Sample No	Depth top (m)	_	Description			Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
Heading 1	UT100	Face U1/5020	0.35	Very stiff, extremely closely brown slightly micaceous s occasional pockets of light (<30mm)	75	3.8	2.00	1.58	27	245	123	Brittle	
Heading 1	UT100	Face U25021	1.45	Very stiff, extremely closely brown slightly micaceous s pockets of light brown silty	100	4.6	1.99	1.58	26	168	84	Brittle	
Heading 2	UT100	Face U3/5022	0.15	Very stiff, dark brown slight CLAY	75	4.0	1.97	1.54	28	126	63	Brittle	
Heading 2	UT100	Face U4/5023	1.50	Very stiff, extremely closely brown slightly micaceous s pocket (<65mm) of claystor (<20mm) at 1.71m	100	4.1	2.00	1.58	27	242	121	Brittle	
		·	te only to the	items tested or sampled.									
Date - samples received: 20/04/2022											(L)		
			Checked/Approved by: Date Approved:	KM 01/06/2022	AGS association or destroys of destroys of a STAR Tel: 02087401553					ASSOCIATION OF GROTIER PROC. 4. b. association of a			
Approved S	Signatories	::	L Griffin L	LG (QA Technical & Lab Mngr)	– K Mazerant KM (Lab	o Mngr)		Email: Lab(@conceptconsult	ants.co.uk			UKAS JESTING 4503

CONCEPT SITE INVESTIGATIONS			Summary Tes	Summary Test Report - Undrained Triaxial Compression (Single-Stage) BS 1377 : Part 7: 1990 Clause 8					Date Reported: Job No.:		16/06/2022 22/3686		
Sit	e Locati	on:	Euston 7	Tower	•	Client:	McGee						
BH No.	Sample Type	Sample No	Depth top (m)	Descriptio	on	Cell pressure kN/m2	Strain at failure %	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
Heading 3	UT100	RHS OF PILE C2 S040	0.25	Stiff to very stiff, dark brown silty CLAY with white flecks	75	7.6	1.98	1.54	28	168	84	Brittle	
Heading 3	UT100	LHS OF PILE C2 S041		Very stiff, extremely closely brown slightly micaceous s shell fragments (<1mm)	100	6.4	1.96	1.52	29	215	108	Brittle	
Heading 3	UT100	LHS OF PILE R1 S042	0.10	Very stiff, dark brown mottle micaceous silty CLAY with (<1mm)	75	6.6	1.92	1.49	29	124	62	Brittle	
Heading 3	UT100	LHS OF PILE R1 S043	1.40	Very stiff, dark brown slight CLAY with rare shell fragm rare pyrite nodules (<12mm	ents (<1mm) and	100	2.8	1.98	1.55	28	186	93	Brittle
Date - samp	oles receive	d:	te only to the	items tested or sampled. 25/05/2022									
				Checked/Approved by: Date Approved: - K Mazerant KM (Lab	KM 15/06/2022 o Mngr)		Т	OONGEPT lel Road, Londor el: 02087401553 @conceptconsult	}		AGS	ASSOCIATION OF MEDITATION CLAIM UKAS UKAS INSTITUTE 4503	



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Concept Site Investigations Client:

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Lynn Griffin Contact: Site Address: **Euston Tower**

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686 Job Number: 22-60188 Date Sampled: Not Given Date Received: 18/05/2022 Date Tested: 03/06/2022 Sampled By: Not Given

Test Results:

Laboratory Reference: 2286735 Heading 1 Hole No.:

Face S001 Sample Reference: Grevish brown CLAY Sample Description:

Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1. Sample Preparation:

Test Number Length Diameter **Bulk Density** Moisture Content Dry Density Membrane Correction

1	
77.05	mm
37.64	mm
2.01	Mg/m3
26	%
1.59	Mg/m3
0.73	kPa

Rate of Strain Cell Pressure Axial Strain at failure Deviator Stress, (σ 1 - σ 3)f Undrained Shear Strength, cu Mode of Failure

Membrane thickness

2.00	%/min
100	kPa
4.8	%
350	kPa
175	kPa ½(σ1 - σ3)f
Brittle	1

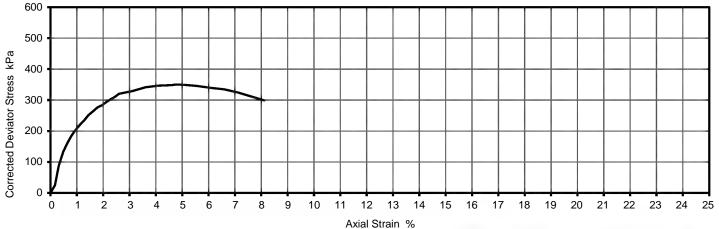
mm

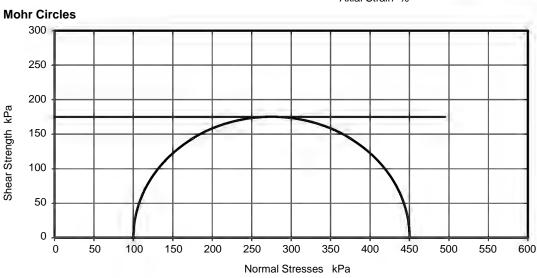
Depth Top [m]: 0.15

Sample Type: U

Depth Base [m]: Not Given

Deviator Stress v Axial Strain







Position within sample



Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed: Dugariska

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Anna Page 1 of 1

Date Reported: 13/06/2022

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

GF 184.12



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Concept Site Investigations Client:

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin Site Address: **Euston Tower**

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686 Job Number: 22-60188 Date Sampled: Not Given Date Received: 18/05/2022 Date Tested: 03/06/2022 Sampled By: Not Given

Test Results:

Laboratory Reference: 2286735_1 Depth Top [m]: 0.15 Heading 1 Depth Base [m]: Not Given Hole No.: Face S001 Sample Reference: Sample Type: U

Greyish brown CLAY Sample Description:

Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1. Sample Preparation:

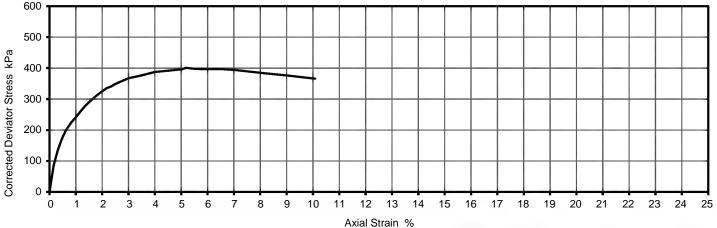
Test Number	1	
Length	76.96	mm
Diameter	37.47	mm
Bulk Density	2.04	Mg/m3
Moisture Content	26	%
Dry Density	1.62	Mg/m3
Membrane Correction	0.81	kPa

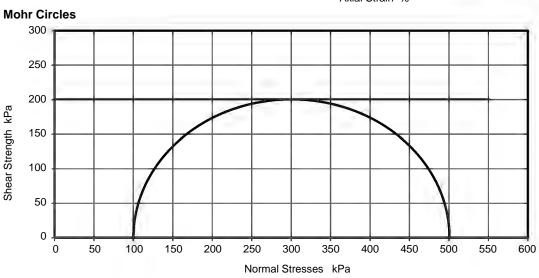
Rate of Strain	
Cell Pressure	
Axial Strain at failure	
Deviator Stress, (σ1 - σ3)f	
Undrained Shear Strength, cu	
Mode of Failure	
Membrane thickness	

2.00	%/min
100	kPa
5.2	%
401	kPa
200	kPa ½(σ1 - σ3)f
Brittle	1

0.21

Deviator Stress v Axial Strain





Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This

report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



Position within sample



Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Page 1 of 1

Date Reported: 13/06/2022

GF 184.12

Anna

Dugariska



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022
Sampled By: Not Given

½(σ1 - σ3)f

Test Results:

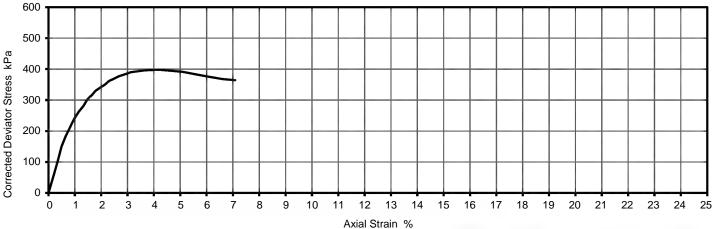
Laboratory Reference:2286736Depth Top [m]: 0.80Hole No.:Heading 1Depth Base [m]: Not GivenSample Reference:Face S002Sample Type: U

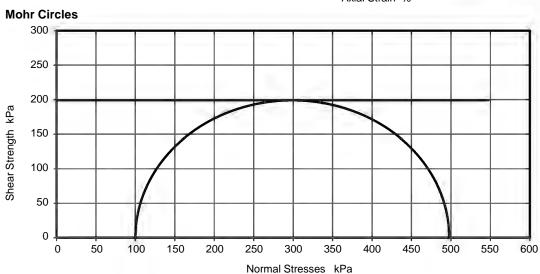
Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Test Number	1]	Rate of Strain	2.00	%/min
Length	76.93	mm	Cell Pressure	100	kPa
Diameter	37.62	mm	Axial Strain at failure	4.1	%
Bulk Density	2.01	Mg/m3	Deviator Stress, (σ 1 - σ 3)f	398	kPa
Moisture Content	23	%	Undrained Shear Strength, cu	199	kPa ½
Dry Density	1.63	Mg/m3	Mode of Failure	Brittle]
Membrane Correction	0.66	kPa	Membrane thickness	0.22	mm

Deviator Stress v Axial Strain







Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Dugariska

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Auna
Page 1 of 1

or and on behalf of i2 Analytical L

Date Reported: 13/06/2022

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DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Concept Site Investigations Client:

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Lynn Griffin Contact: Site Address: **Euston Tower**

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686 Job Number: 22-60188 Date Sampled: Not Given Date Received: 18/05/2022 Date Tested: 03/06/2022 Sampled By: Not Given

Test Results:

Laboratory Reference: 2286736_1 Heading 1 Hole No.: Face S002 Sample Reference:

Grevish brown CLAY Sample Description:

Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1. Sample Preparation:

Test Number Length Diameter **Bulk Density** Moisture Content Dry Density Membrane Correction

1]
77.16	mm
37.68	mm
2.02	Mg/m3
27	%
1.59	Mg/m3
0.45	kPa

Rate of Strain Cell Pressure Axial Strain at failure Deviator Stress, (σ 1 - σ 3)f Undrained Shear Strength, cu Mode of Failure

Membrane thickness

2.00	%/min
100	kPa
3.0	%
379	kPa
189	kPa ½(σ1 - σ3)f
Brittle	

 1_{mm}

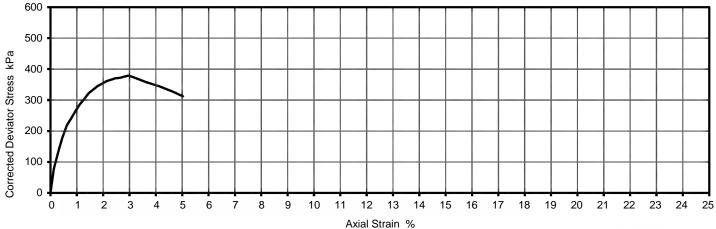
0.21

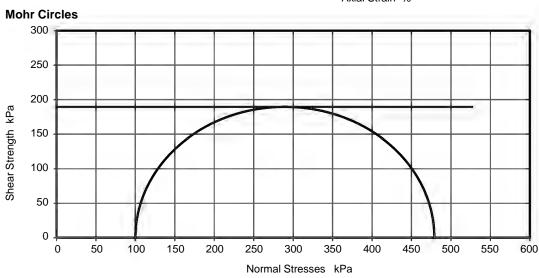
Depth Top [m]: 0.80

Sample Type: U

Depth Base [m]: Not Given

Deviator Stress v Axial Strain







Position within sample



Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed: Dugariska

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Anna Page 1 of 1

Date Reported: 13/06/2022



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Concept Site Investigations Client:

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Lynn Griffin Contact: Site Address: **Euston Tower**

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686 Job Number: 22-60188 Date Sampled: Not Given Date Received: 18/05/2022 Date Tested: 03/06/2022 Sampled By: Not Given

Test Results:

Laboratory Reference: 2286737 Depth Top [m]: 1.65 Heading 1 Depth Base [m]: Not Given Hole No.: Face S003 Sample Reference: Sample Type: U

Grevish brown CLAY Sample Description:

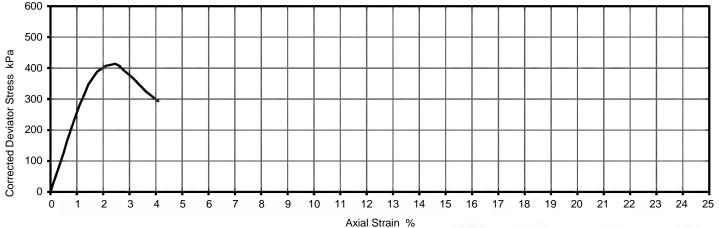
Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1. Sample Preparation:

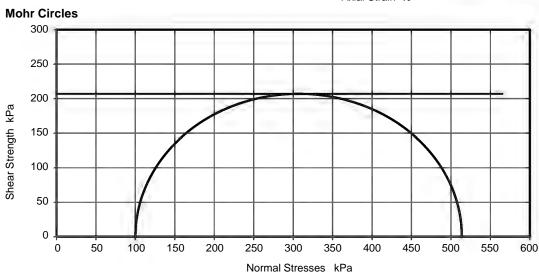
Test Number	1	
Length	76.78	mm
Diameter	37.58	mm
Bulk Density	2.03	Mg/m3
Moisture Content	25	%
Dry Density	1.62	Mg/m3
Membrane Correction	0.39	kPa

Rate of Strain Cell Pressure Axial Strain at failure Deviator Stress, (σ 1 - σ 3)f Undrained Shear Strength, cu Mode of Failure Membrane thickness

2.00	%/min
100	kPa
2.4	%
414	kPa
207	kPa ½(σ1-σ3)f
Brittle	1

Deviator Stress v Axial Strain





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Position within sample



Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Anna Page 1 of 1

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DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022
Sampled By: Not Given

Test Results:

Laboratory Reference:2286738Depth Top [m]: 0.10Hole No.:Heading 2Depth Base [m]: Not GivenSample Reference:Face S004Sample Type: U

Sample Description: Yellowish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Test Number	1	
Length	76.15	mm
Diameter	37.44	mm
Bulk Density	1.97	Mg/m3
Moisture Content	29	%
Dry Density	1.53	Mg/m3
Membrane Correction	0.78	kPa

Rate of Strain

Cell Pressure

Axial Strain at failure

Deviator Stress, (σ1 - σ3)f

Undrained Shear Strength, cu

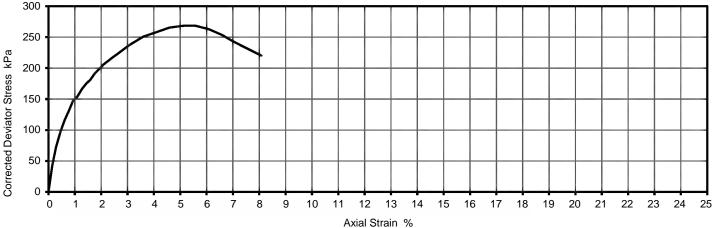
Mode of Failure

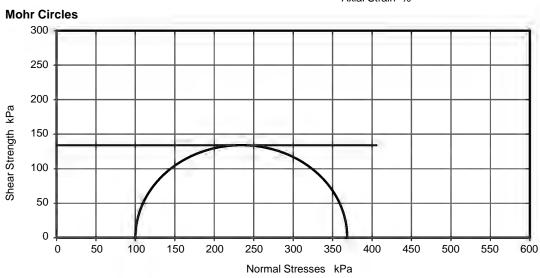
Membrane thickness

5.3	%	
269	kPa	
134	kPa	½(σ1 - σ3)f
Brittle		
0.20	mm	

%/min

Deviator Stress v Axial Strain





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Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Dugariska

Anna Dudzinska PL Deputy Head of Reporting Team for and on behalf of i2 Analytical Ltd

Auna
Page 1 of 1

Date Reported: 13/06/2022

GF 184.12



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

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W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022
Sampled By: Not Given

Test Results:

Laboratory Reference:2286738_1Depth Top [m]: 0.10Hole No.:Heading 2Depth Base [m]: Not GivenSample Reference:Face S004Sample Type: U

Sample Description: Yellowish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

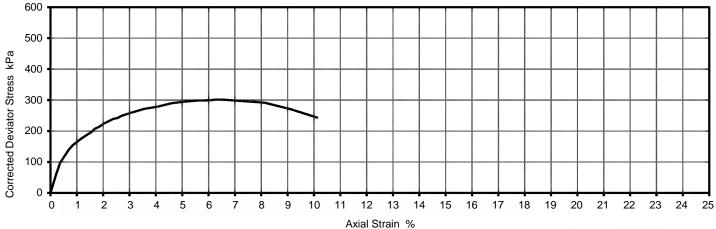
Test Number	1	
Length	76.00	mm
Diameter	37.34	mm
Bulk Density	1.95	Mg/m3
Moisture Content	30	%
Dry Density	1.50	Mg/m3
Membrane Correction	0.91	kPa

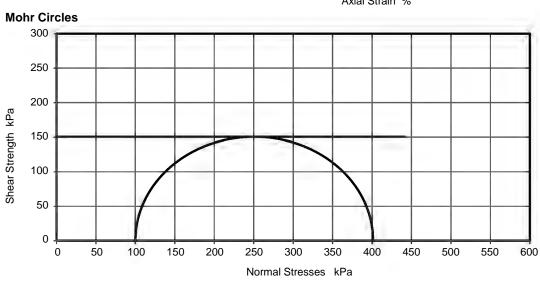
Rate of Strain
Cell Pressure
Axial Strain at failure
Deviator Stress, (σ1 - σ3)f
Undrained Shear Strength, cu
Mode of Failure
Membrane thickness

2.00	%/mii	n
100	kPa	
6.3	%	
301	kPa	
151	kPa	½(σ1 - σ3)f
Brittle		

0.21

Deviator Stress v Axial Strain







Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Dugariska

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

Anna Page 1 of 1

Date Reported: 13/06/2022



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

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W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022
Sampled By: Not Given

Test Results:

Laboratory Reference:2286739Depth Top [m]: 1.00Hole No.:Heading 2Depth Base [m]: Not GivenSample Reference:Face S005Sample Type: U

Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

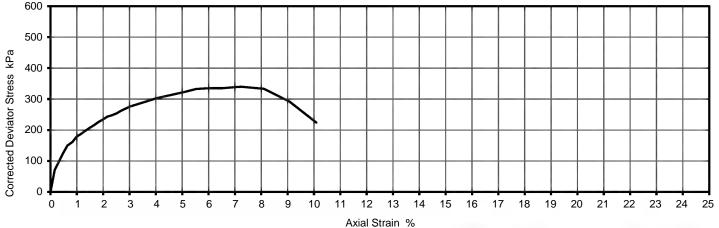
Test Number	1	
Length	76.54	mm
Diameter	36.10	mm
Bulk Density	2.08	Mg/m3
Moisture Content	24	%
Dry Density	1.69	Mg/m3
Membrane Correction	1.04	kPa

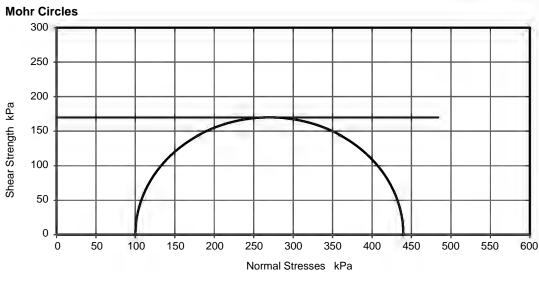
Rate of Strain
Cell Pressure
Axial Strain at failure
Deviator Stress, (\sigma 1 - \sigma 3)f
Undrained Shear Strength, cu
Mode of Failure
Membrane thickness

2.00	%/min
100	kPa
7.2	%
340	kPa
170	kPa ½(σ1 - σ3)f
Brittle	1

0.21

Deviator Stress v Axial Strain







Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

Anna Page 1 of 1

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Date Reported: 13/06/2022

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DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



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Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022
Sampled By: Not Given

Test Results:

Laboratory Reference:2286740Depth Top [m]: 2.00Hole No.:Heading 2Depth Base [m]: Not GivenSample Reference:Face S006Sample Type: U

Sample Reference: Face S006
Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

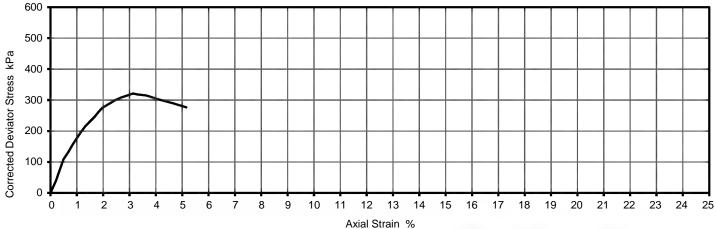
Test Number	1	
Length	75.30	mm
Diameter	37.51	mm
Bulk Density	2.00	Mg/m3
Moisture Content	27	%
Dry Density	1.57	Mg/m3
Membrane Correction	0.50	kPa

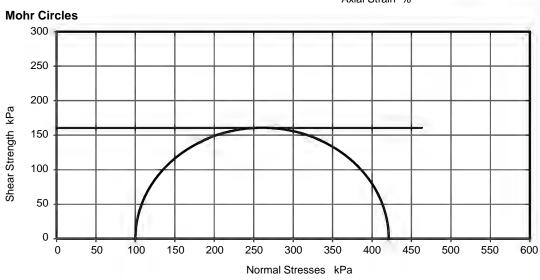
Rate of Strain
Cell Pressure
Axial Strain at failure
Deviator Stress, (σ1 - σ3)f
Undrained Shear Strength, cu
Mode of Failure
Membrane thickness

2.00	%/min
100	kPa
3.1	%
321	kPa
161	kPa ½(σ1 - σ3)f
Brittle	1

0.22

Deviator Stress v Axial Strain







Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

Auna
Page 1 of 1

Dugariska

Date Reported: 13/06/2022

GF 184.12



DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd Unit 8 Harrowden Road Brackmills Industrial Estate Northampton NN4 7EB



Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Concept Site Investigations

Client Address: Unit 8, Warple Mews,

Warple Way, London

W3 0RF

Contact: Lynn Griffin
Site Address: Euston Tower

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 22 3686
Job Number: 22-60188
Date Sampled: Not Given
Date Received: 18/05/2022
Date Tested: 03/06/2022

Sampled By: Not Given

Test Results:

Laboratory Reference:2286740_1Depth Top [m]: 2.00Hole No.:Heading 2Depth Base [m]: Not GivenSample Reference:Face S006Sample Type: U

Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Test Number	1	
Length	76.26	mm
Diameter	37.16	mm
Bulk Density	2.04	Mg/m3
Moisture Content	27	%
Dry Density	1.60	Mg/m3
Membrane Correction	0.55	kPa

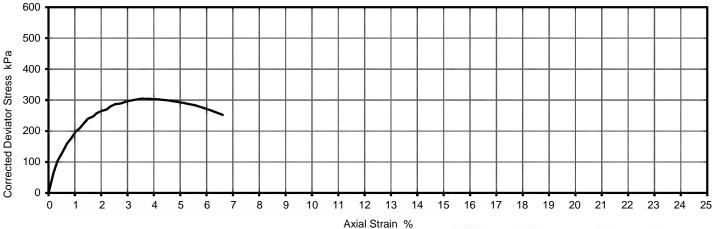
Rate of Strain	
Cell Pressure	
Axial Strain at failure	
Deviator Stress, (σ1 - σ3)f	
Undrained Shear Strength, cu	
Mode of Failure	
Membrane thickness	

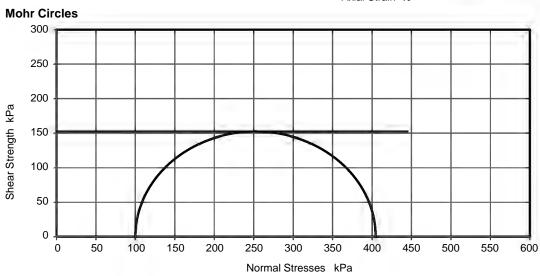
2.00	%/min
100	kPa
3.5	%
305	kPa
152	kPa ½(σ1
Brittle	

0.21

 $-\sigma3$)f

Deviator Stress v Axial Strain







Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377. This is provided for information only.

Remarks:

Signed:

Anna Dudzinska
PL Deputy Head of Reporting Team
for and on behalf of i2 Analytical Ltd

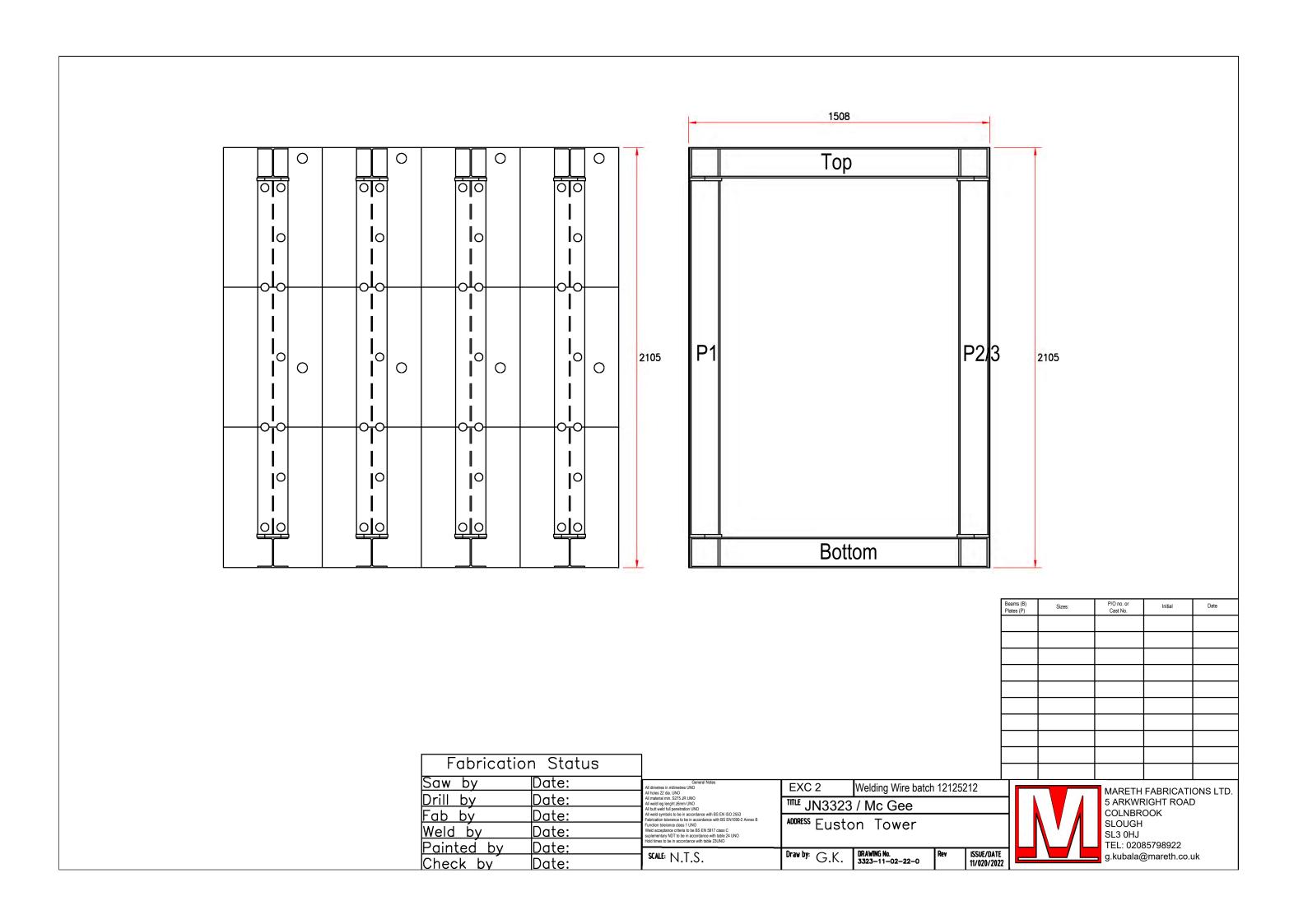
Anna Page 1 of 1

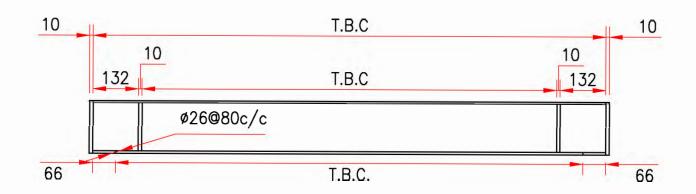
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Date Reported: 13/06/2022

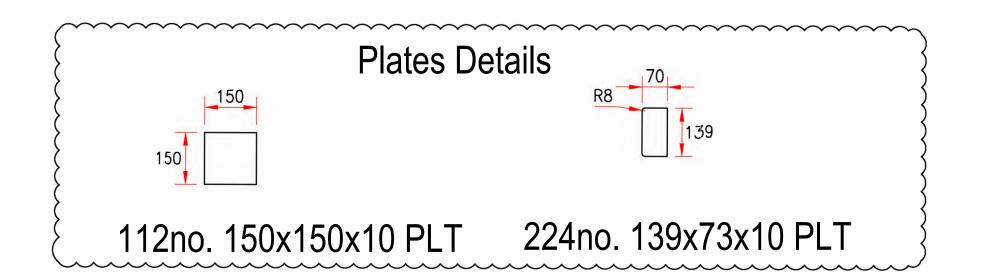
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56no. 152x152x23 UC Top/Bottom



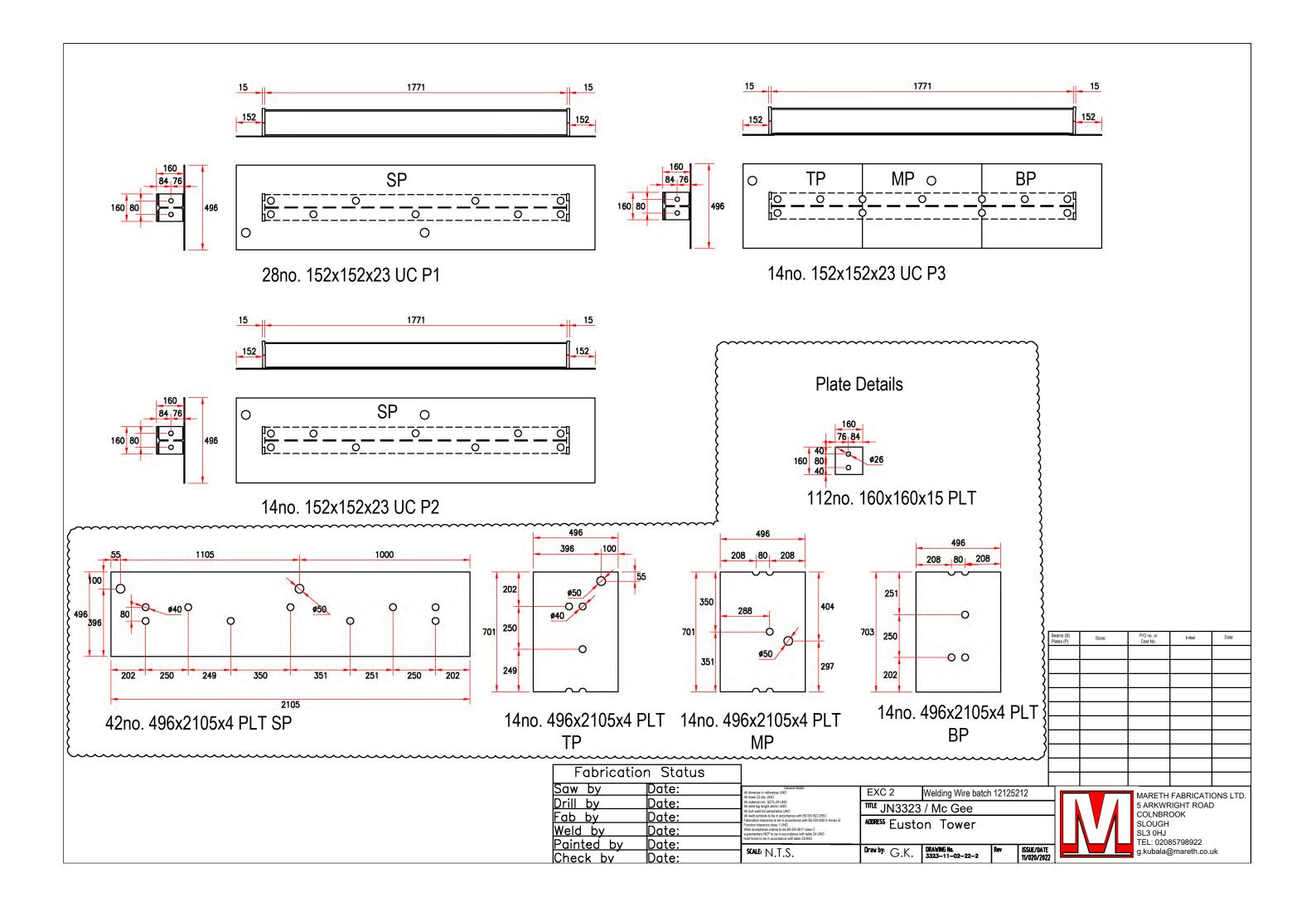
Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

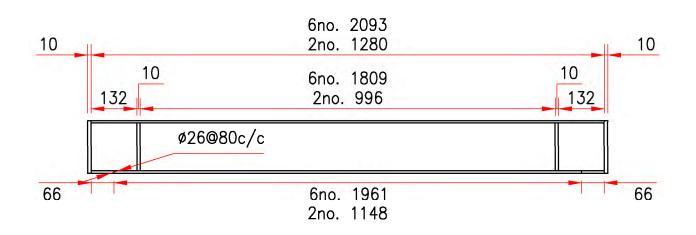
MARETH FABRICATIONS LTD.

5 ARKWRIGHT ROAD

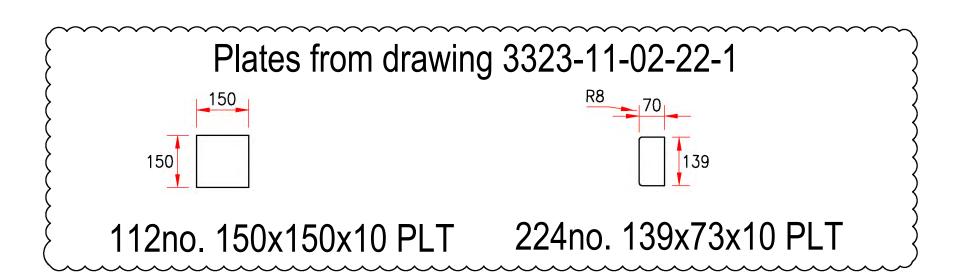
TEL: 02085798922 g.kubala@mareth.co.uk

Status					-
Date:	General Notes All dimetres in milimetres UNO All holes 22 dia 1 INO	EXC 2	Welding Wire batc	h 12125	<u> </u> 212
	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553	TITLE JN3323 / Mc Gee ADDRESS Euston Tower			
Date:	Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO				
<u>Date:</u> Date:	SCALE: N.T.S.	Draw by: G.K.	DRAWING No. 3323-11-02-22-1	Rev	ISSUE/DATE 11/020/2022
	Date: Date: Date: Date:	All dimetres in millimetres UNO All holes 22 dia. UNO All halerial min. S275 JR UNO All material min. S275 JR UNO All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN 1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO SCALF: N.L.T. C	Date:	Date:	Date:





8no. 152x152x23 UC Top/Bottom

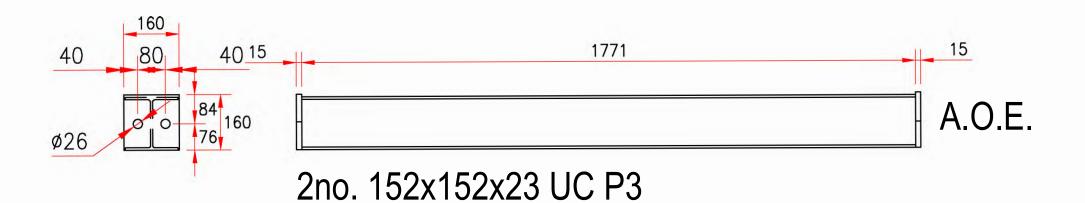


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

5 ARKWRIGHT ROAD

TEL: 02085798922 g.kubala@mareth.co.uk

Fabricat	ion Status					-	
Saw by	Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire bate	h 12125	<u> </u>	T
Drill by	<u>Date:</u>	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO	TITLE JN3323 / Mc Gee				
Meld by	<u>Date:</u> Date:	All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO	ADDRESS Euston Tower				
Painted by	Date:	Hold times to be in accordance with table 23UNO SCALE: N.T.S.	Draw by: G.K.	DRAWING No.	Rev	ISSUE/DATE	┨╏
Check by	Date:	1 1.1.0.	1 0.14.	3323-11-02-22-3		11/020/2022	



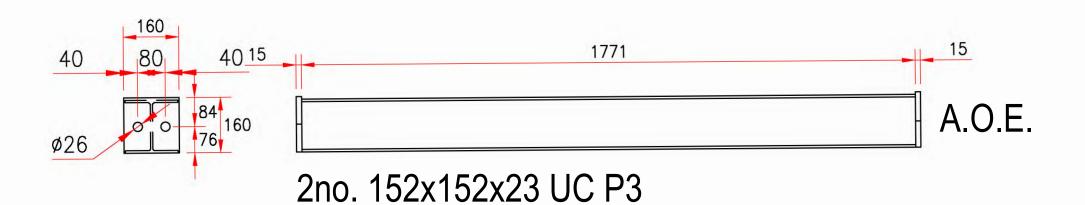
Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

MARETH FABRICATIONS LTD. 5 ARKWRIGHT ROAD COLNBROOK SLOUGH

SL3 0HJ TEL: 02085798922

g.kubala@mareth.co.uk

_			7	ion Status	Fabrication
┸┎	Welding Wire batch 12125212	EXC 2	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	Date:	Saw by
J١	/ Mc Gee	TITLE JN3323	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO	Date:	Drill by
Ш	ADDRESS Euston Tower			Date:	Hab by Weld by
	DRAWING No. Rev ISSUE/DATE 11/020/2022	Draw by: G.K.	Hold times to be in accordance with table 23UNO SCALE: N.T.S.	Date:	Painted by
	on Tower DRAWING No. Rev ISSUE/DAT	ADDRESS Eusto	All weld leg lenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO	Date: Date:	Fab by Weld by

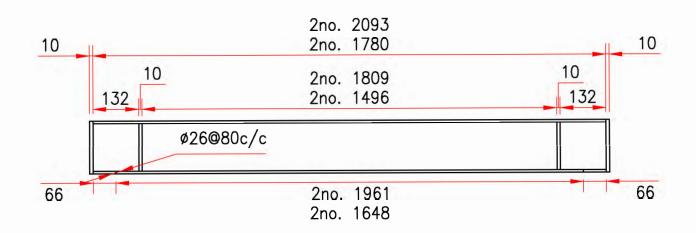


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No	Initial	Date

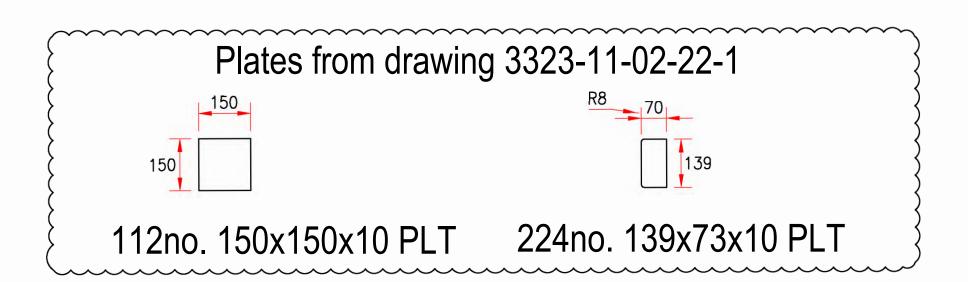
Fabricat	ion Status					_	
Saw by	Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire batch	า 121252	212	
Drill by	Date:	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO	ADDRESS Euston Tower				
Fab by	Date:	All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO					٦
Weld by	<u>Date:</u>	Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO					
<u>Painted</u> by	<u>Date:</u>	scale: N.T.S.	Draw by: G.K.	DRAWING No.	Rev	ISSUE/DATE	
Check by	Date:	14.1.3.	J 0.K.	3323-11-02-22-5		26/02/2022	!

MARETH FABRICATIONS LTD. 5 ARKWRIGHT ROAD COLNBROOK SLOUGH SL3 0HJ TEL: 02085798922

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4no. 152x152x23 UC Top/Bottom

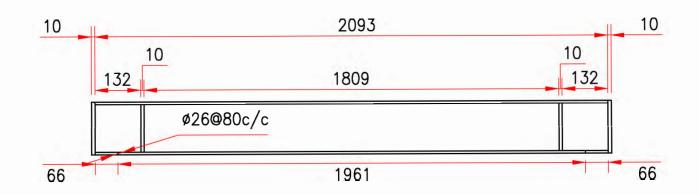


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

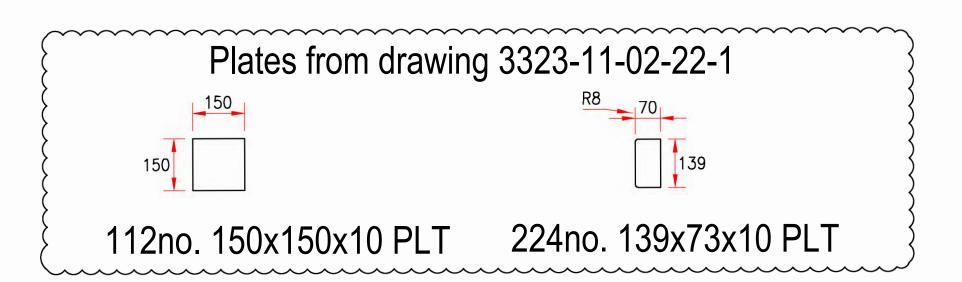
5 ARKWRIGHT ROAD

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Eabrication Status	7					
Fabrication Status						
Saw by Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire batch	121252	12	I
Drill by Date:	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO	TITLE JN3323	/ Mc Gee			11
<u>Fab by Date:</u>	All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO	ADDRESS Euston Tower				11
Weld by Date:	Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO					П
Painted by Date:	SCALE: N.T.S.	Draw by: G.K.	DRAWING No.	Rev	ISSUE/DATE	1
Check by Date:	14.1.3.		3323-11-02-22-6		26/02/2022	



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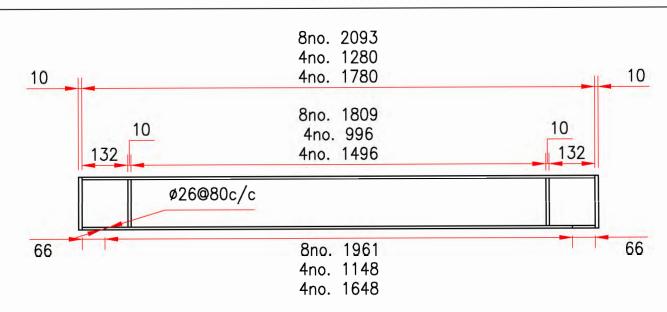


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

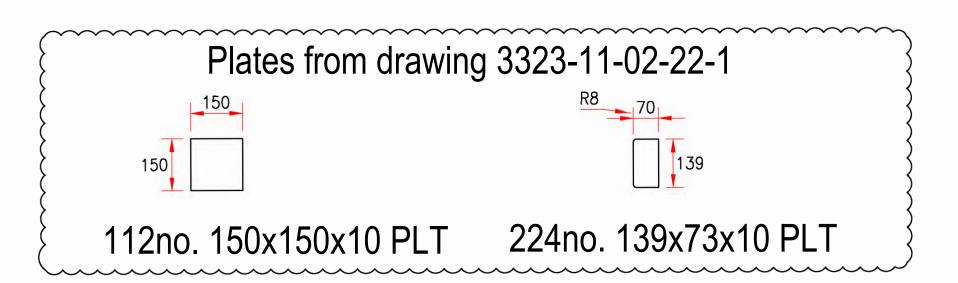
5 ARKWRIGHT ROAD

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Fabricati	ion Status						
Saw by	Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire batc	h 121252	212	
Drill by	<u>Date:</u>	All material min. S275 JR UNO All weld leg lenght z6mm UNO All but weld full penetration UNO	TITLE JN3323	6 / Mc Gee			11
Fab by	Date:	All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO	ADDRESS Euston Tower				11
Weld by	Date:	Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO	Lust	JII TOWCI			П
Painted by	Date:	Hold times to be in accordance with table 23UNO	Draw hv: C	DRAWING No.	Rev	ISSUE/DATE	┨┠
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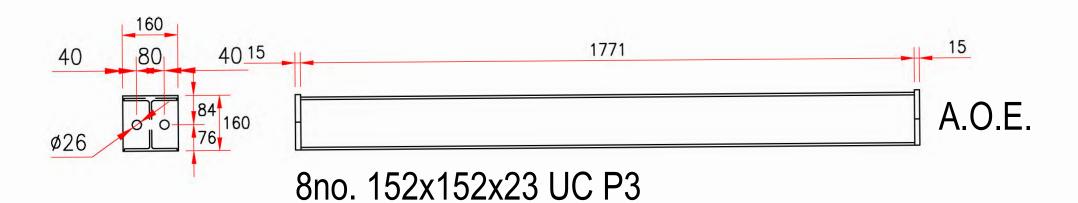


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

5 ARKWRIGHT ROAD

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Fabrication Status						
Saw by Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire batch	121252	212	T
Drill by Date:	All material min. \$275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO				1	
Fab by Date:	All weld symbols to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO	ADDRESS Euston Tower				٦١
Weld by Date:	Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO Hold times to be in accordance with table 23UNO		311 100001			Ш
Painted by Date:	SCALE: N.T.S.	Draw by: G.K.	DRAWING No.	Rev	ISSUE/DATE	
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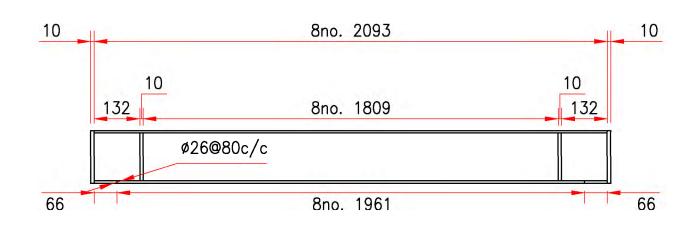
Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

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Saw by Date: All dimetres in milimetres UNO All holes 22 dia, UNO	EXC 2 Welding Wire batch 12125212
Drill by Date: All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO	TITLE JN3323 / Mc Gee
Fabrication tolerance to be in accordance Function tolerance aloss 1 UNO Weld by Date: Fabrication tolerance to be in accordance Function tolerance class 1 UNO weld acceptance criteria to be BS EN 58' supplementary NDT to be in accordance we	with BS EN1090-2 Annex B 17 class C ith table 24 UNO ADDRESS Euston Tower
Painted by Date: Check by Date: SCALE: N.T.S.	Draw by: G.K. DRAWING No. 3323-11-02-22-9 Rev 08/03/2022

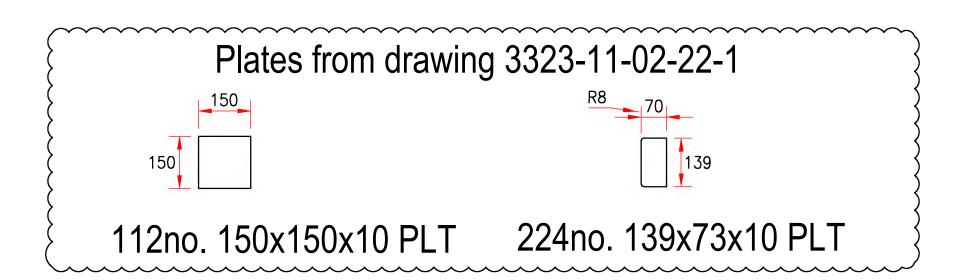
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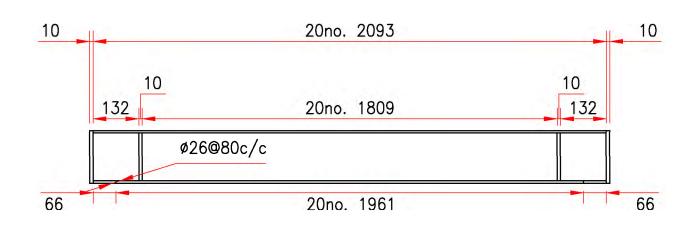


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

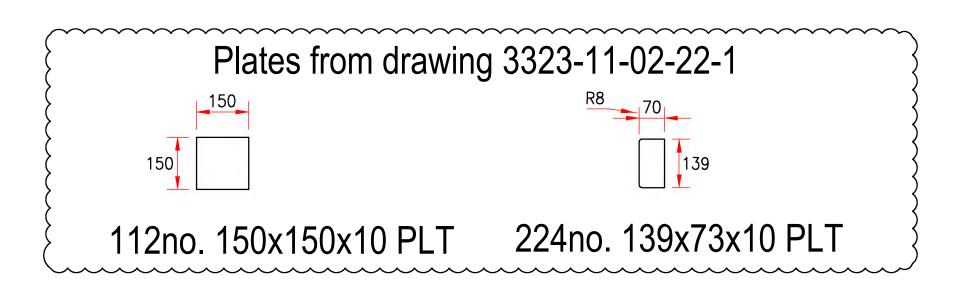
5 ARKWRIGHT ROAD

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Fabricat	ion Status					-	
Saw by	Date:	General Notes All dimetres in milimetres UNO All holes 22 dia. UNO	EXC 2	Welding Wire ba	atch 12125	<u> </u> 212	Т
Drill by	Date:	All material min. S275 JR UNO All weld leg lenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553	S275 JR UNO Int z6mm UNO penetration UNO				
Weld by	Date: Date:	Fabrication tolerance to be in accordance with BS EN ISO 2553 Fabrication tolerance to be in accordance with BS EN 1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO	ADDRESS Eus	ston Tower			
Painted by Check by	<u>Date:</u> Date:	Hold times to be in accordance with table 23UNO SCALE: N.T.S.	Draw by: G.I	DRAWING No. 3323-11-02-22-1	Rev	ISSUE/DATE 14/03/2022	
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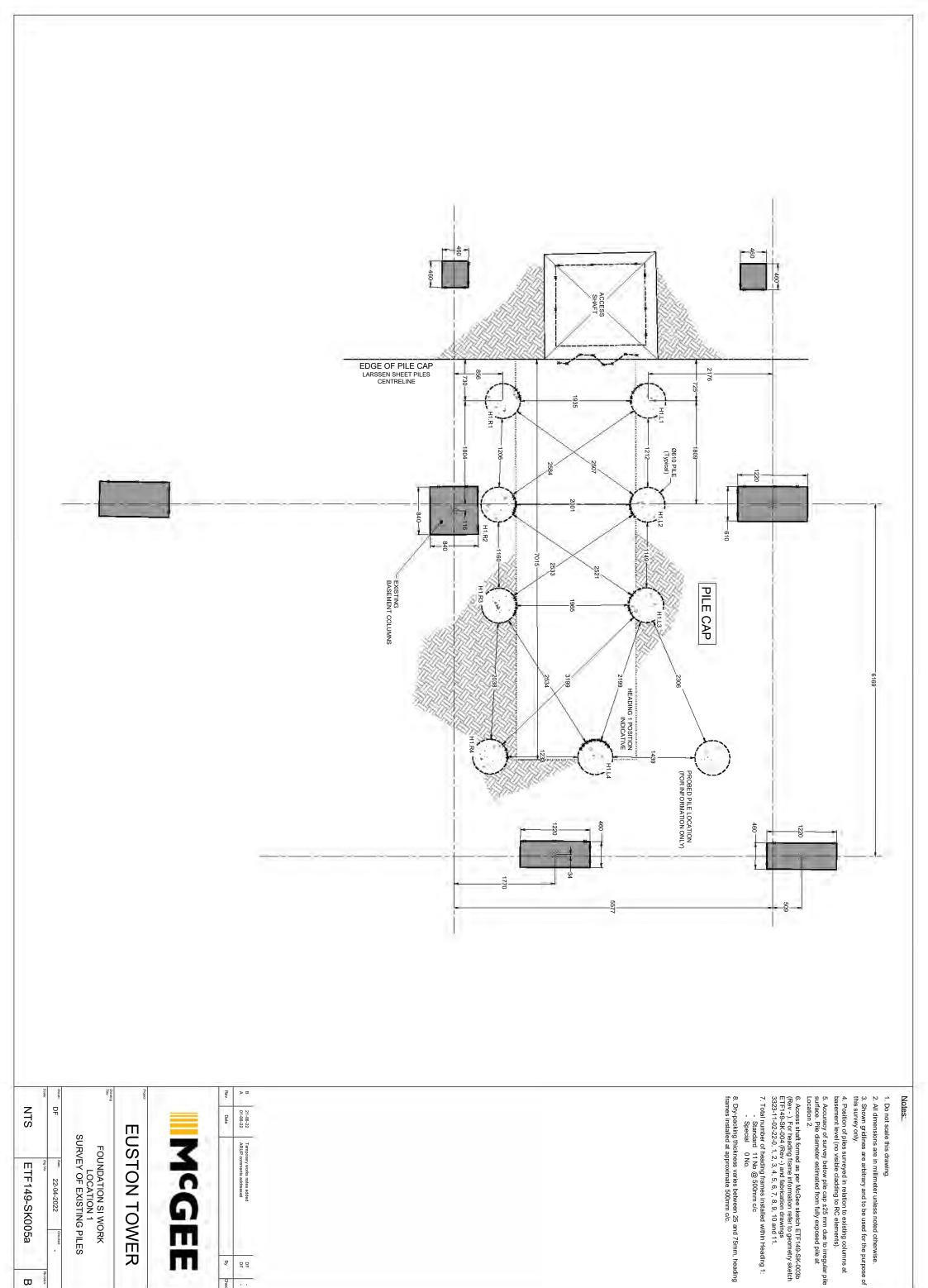


Beams (B) Plates (P)	Sizes:	P/O no. or Cast No.	Initial	Date

5 ARKWRIGHT ROAD

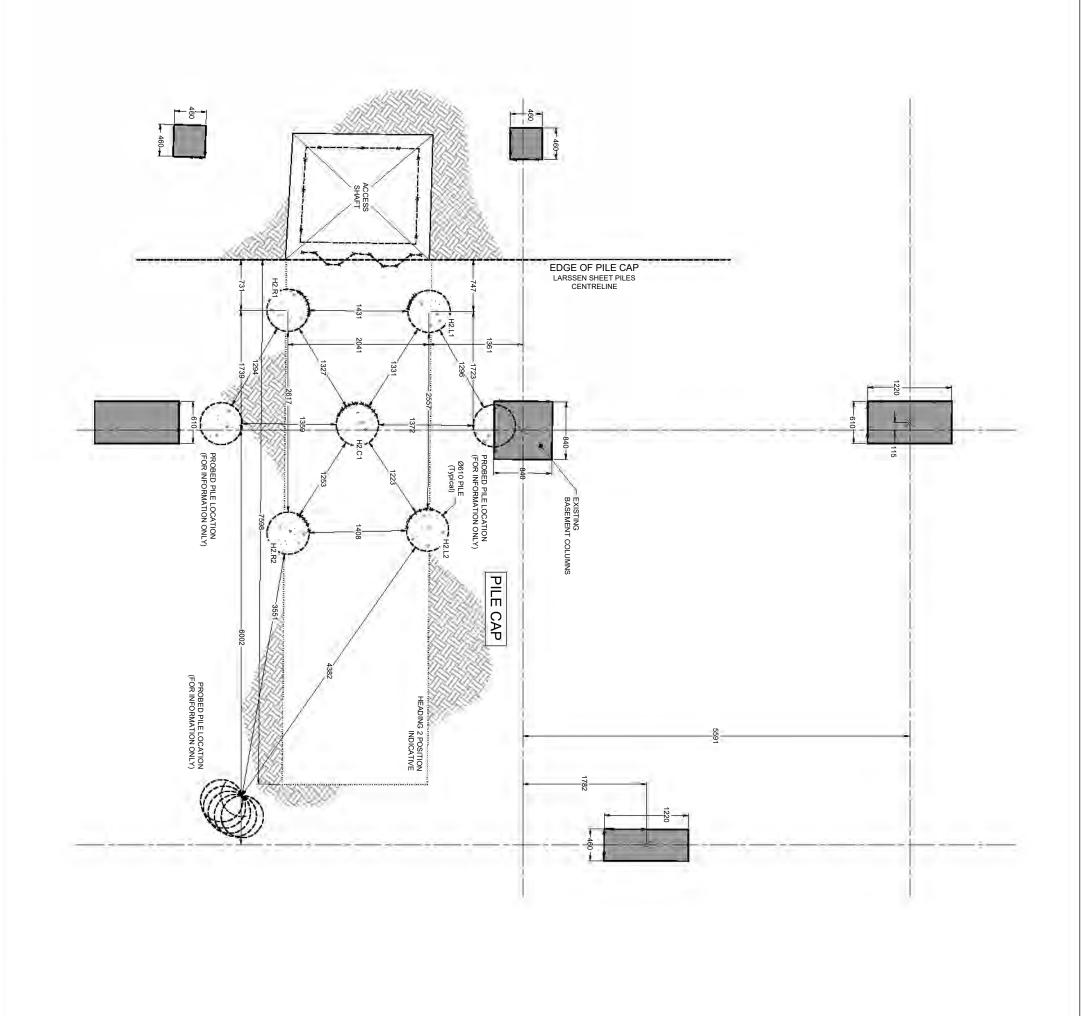
TEL: 02085798922 g.kubala@mareth.co.uk

Fabricat	ion Status							<u> </u>
Saw by	Date:	General Notes	1		.			Ļ
	Date:	All dimetres in milimetres UNO All holes 22 dia. UNO All material min. S275 JR UNO	EXC 2		Welding Wire batcl	h 12125	5212	4
	Date:	All weld leg lenght z6mm UNO All butt weld full penetration UNO All weld symbols to be in accordance with BS EN ISO 2553	TITLE JN3323 / Mc Gee					
Weld by	Date:	Fabrication tolerance to be in accordance with BS EN1090-2 Annex B Function tolerance class 1 UNO Weld acceptance criteria to be BS EN 5817 class C suplementary NDT to be in accordance with table 24 UNO	ADDRESS Euston Tower					
Painted by	Date:	Hold times to be in accordance with table 23UNO	Draw by:	> V	DRAWING No.	Rev	ISSUE/DATE	-
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By DF

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- Do not scale this drawing.
- 2. All dimensions are in millimeter unless noted otherwise.
- Shown gridlines are arbitrary and to be used for the purpose of this survey only.
- Position of piles surveyed in relation to existing columns at basement level (no visible cladding to RC elements).

- Accuracy of survey below pile cap ±25 mm due to irregular pile surface. Pile diameter estimated from fully exposed pile at Location 2.

8. Dry-packing thickness varies between 25 and 75mm, heading frames installed at approximate 500mm c/c.

7. Total number of heading frames installed within Heading 2:
 Standard 10 No.
 Special 2 No.

6. Access shaft formed as per McGee sketch ETF149-SK-003b (Rev -). For heading frame information refer to geometry sketch ETF149-SK-004 (Rev -) and fabrication drawings 3323-11-02-22-0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11.

FOUNDATION SI WORK LOCATION 2 SURVEY OF EXISTING PILES ETF149-SK005b

EUSTON TOWER

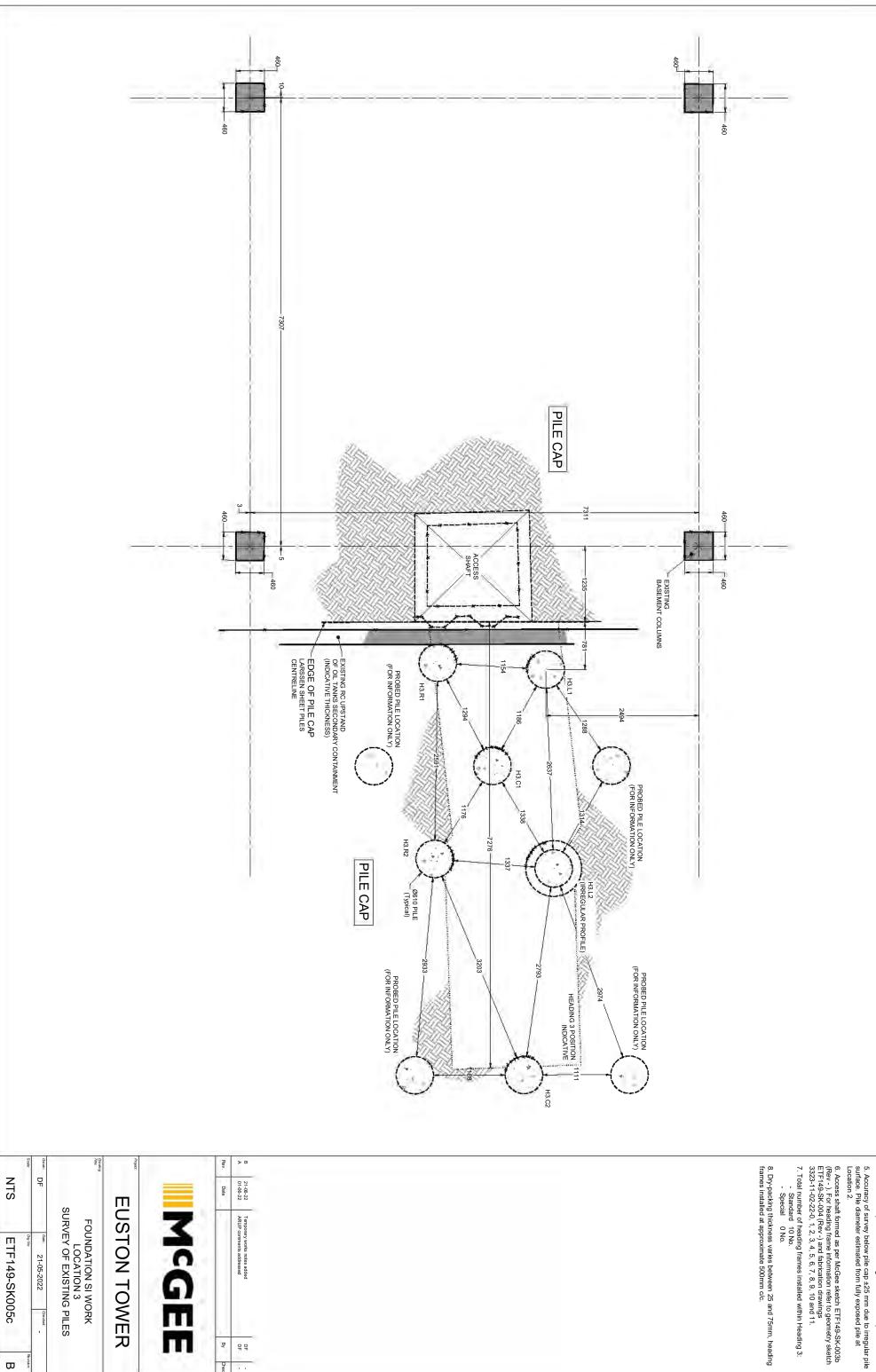
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Do not scale this drawing.

2. All dimensions are in millimeter unless noted otherwise.

Shown gridlines are arbitrary and to be used for the purpose of this survey only.

Position of piles surveyed in relation to existing columns at basement level (no visible cladding to RC elements).

Ву 무무

ETF149-SK005c

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