



TEST REPORT

Report No.	RTL/CO/NS24546/24TA1201	Date Issued	25/10/2024
Total No. of Pages	3	Page No.	1 of 3
Name and Address of Client (As Given by Client)	Pipewell Industries Sdn. Bhd. No. 43, Jalan 1/6, Bandar Teknologi Kajang, 43500 Semenyih, Selangor Darul Ehsan.		
Project Reference	Mainhole		
Type of Testing	Compressive Strength of Concrete Core		
Test Method	BS EN 12504-1:2019		
Job No.	24TA1201		
Specimen Received Date	22/10/2024		
Tested By	Muhammad Haziq Hainizan		
Approved Signatory	Ir. Lim Keh Seng		
Test Commencement Date	23/10/2024 (Specimen Preparation)		
Test Completion Date	24/10/2024		
Location of Coring	Mantin, Negeri Sembilan.		
Testing Location	The testing was carried out in RTL Lab Sdn. Bhd.		

The test result(s) is obtained from the test(s) done on the specimen(s) submitted and we are NOT liable for the authenticity of the specimen(s) received. The report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without the written approval from the Laboratory Manager of our company. RTL Lab holds no responsibility on the consequence related to any legal action.

Approved Signatory:

Name : Ir. Lim Keh Seng

Date : 25/10/2024

TEST REPORT

(CONCRETE)

Type of Test : Compressive Strength of Concrete Core
BS EN 12504-1:2019

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Section A : Client's Information

Client : Pipewell Industries Sdn. Bhd.
Project* : Mainhole
Report No. : RTL/CO/NS24546/24TA1201

Job No. : 24TA1201
Date Received : 22/10/2024
Date Tested : 24/10/2024

Section B : Specimens Information

Specimens Reference		1	2	-
Date of Casting*		N/A	N/A	-
Date of Coring / Drilling*		22/10/2024	22/10/2024	-
Age of Specimen at Test	days	N/A	N/A	-
Direction of Coring*		Vertical	Vertical	-
Concrete Grade*		N/A	N/A	-
Location of Core in Structure*		Mainhole	Mainhole	-
Estimated Maximum Size of Aggregate*	mm	N/A	N/A	-

Note: "*" information provided by client

Section C : Preparation of Specimens

Original Core Length (as received)	mm	104.34	105.71	104.96	106.17	105.43	105.98	-	-	-
	Avg.:	105.00			105.86			Avg.:		
Core Diameter, ϕ_c	mm	50.24	50.11	50.36	50.05	50.50	50.36	-	-	-
		50.37	50.16	50.17	50.29	50.41	50.10	-	-	-
	Avg.:	50.24			50.29			Avg.:		
Diameter of Steel bar (1), ϕ_r	mm	4.02	3.91	4.10	-	-	-	-	-	-
		Avg.:	4.01			-			Avg.:	
Diameter of Steel bar (2), ϕ_r	mm	3.94	4.10	3.85	-	-	-	-	-	-
		Avg.:	3.96			-			Avg.:	
Distance of Axis of Bar from Nearer End (1), h	mm	25.42	25.10	Avg.: 25.26	-	-	Avg.:	-	-	Avg.:
Distance of Axis of Bar from Nearer End (2), h	mm	19.68	19.24	Avg.: 19.46	-	-	Avg.:	-	-	Avg.:
Length of Trimmed Core	mm	49.18	48.97	49.26	49.05	48.51	48.63	-	-	-
		Avg.:	49.14			48.73			Avg.:	
Mass of Core Specimen in Air	g	217.0			194.0			-		
Density #	kg/m ³	2270			2290			-		
Compaction (by excess voidage of) **	%	0.5			0.5			-		
Presence of Honeycombing / Cracks		Yes			Yes			-		

Notes:

- "**" In accordance to Table NA.1 - Excess Voidage
- "#" Volume by Water Displacement. Recorded to the nearest 10 kg/m³ (EN 12390-7)



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Section D : Specimens after Preparation and Test Data

Length after Capping, L	mm	53.24	52.87	52.96	52.84	52.76	52.95	-	-	-
		Avg.: 53.02			Avg.: 52.85			Avg.: -		
Length / Diameter ratio, L/∅c		1.06			1.05			-		
Storage Condition		Sealed Container			Sealed Container			-		
Surface Moisture Condition		Dry			Dry			-		
Maximum Load, F	kN	55.30			29.67			-		
Cross-Sectional Area	$A = \pi \times \left(\frac{\phi_c}{2}\right)^2$ mm ²	1982.00			1985.94			-		
Compressive Strength ***	$\sigma = \frac{F}{A} \times 1000$ N/mm ²	27.9			14.9			-		

Note: "****" Expressed to the nearest 0.1 N/mm²

Section E : Assessment based on BS EN 12390-3:2019

Type of Failure	Satisfactory	Satisfactory	-
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Section G : Equipment Used

Machine ID : CTM-001 (500)

Caliper / Ruler ID : CLP-001

Measuring Tape ID : MT-001

Balance ID : WB-002/WB-003

Notes:

1. The results only related to the item(s) tested as according to the stated test standard.
2. The testing was conducted at RTL Lab Sdn. Bhd.
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End of Report

Approved Signatory:



Name : Ir. Lim Keh Seng
Date : 25/10/2024