

TEST REPORT
THERMAL TRANSMISSION PROPERTIES
Method: ASTM C518-17

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Client	Housam El Din Ibrahim Jaamour Factory Company & Partner for the Manufacture Block & Tiles	Report No.	JPR21000398
Contractor	Housam El Din Ibrahim Jaamour Factory Company & Partner for the Manufacture Block & Tiles	Request No.	JPQ21000080
Project Name	Private	Date Reported	August 22, 2021
Consultant	N.P	Sample No.	JPS21000274
Sample Description	Volcanic Block 40x20x20 cm 6 holes	Sampled By	Client's Rep.
Date Received	August 11, 2021	Date Tested	February 13, 2021

Test Results

Layer No	Description	Density (Kg/m ³)	Thickness (mm)	Thermal Conductivity (W/(m.K))	Thermal Resistance (m ² .K/W)
1	Volcanic Block	1346.7	22.0	0.2356	0.093
2	Air Void	---	67.0	---	0.180
3	Volcanic Block	1346.7	22.0	0.2356	0.093
4	Air Void	---	67.0	---	0.180
5	Volcanic Block	1346.7	22.0	0.2356	0.093
Total (R_T)					0.640

Thermal transmittance (U-Value)

Description	U-Value (W/(m ² .K))
Thermal Transmittance (U= 1/R _T)	1.56

Notes:

- * Thermal Transmission Properties by calculation method according to BS EN ISO 6946
- * This report represents submitted samples only




Eng. Mahmoud Jaber

Head of Material Department

This report relates only to the sample tested and shall only be reproduced in full with the written approval of ACES-Jeddah

Material & QC Departments

Concrete Blocks Test Report

Client	Housam El Din Ibrahim Jaamour Factory Company & Partner for the Manufacture Block & Tiles	Report No.	JMR21006140
Contractor	Housam El Din Ibrahim Jaamour Factory Company & Partner for the Manufacture Block & Tiles	Date Reported	17-Aug-2021
Consultant	N.P.	Sample No.	JMS21002334
Project No.	N.P.	Request No.	JMQ21001586
Project Name	Private	Client Reference	Verbal
Sample Description	400x200X200 mm Hollow Block 6-Holes	Sampled By	Client's Rep
Source	N.P.	Sample Brt. In By	Client's Rep
Test Method	ASTM C140/C140M-20a	Date Received	11-Aug-2021
Tested By	ACES	Date Tested	12-Aug-2021

Dimensions:

Type	Size	Block No.	Dimensions				
			Length (mm)	Width (mm)	Height (mm)	Web (mm)	Face (mm)
Hollow Block	400x200X200	1	400.0	200.0	200.0	22.2	22.7
		2	400.0	200.0	200.0	22.4	22.9

Test Results by Measured Dimensions:

Type	Size	Block No.	Dimensions			Dry Density (Kg/m ³)	Maximum Load KN	Weight (g)	Compressive Strength (Individual) (Mpa)	Ave. Comp. Strength (Mpa)
			Length (mm)	Width (mm)	Height (mm)					
Hollow Block	400x200X200	1	400	200	200	1771.7	138.4	13545	3.6	3.8
		2	400	200	200	1769.7	155.5	13694	4.0	

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