



TEST REPORT

Tested at : "ACTS Central Laboratory, Beirut,
Sanayeh area, George Assy st.
P.O.Box: 14/5918-Code:1105-2080
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Client: الشركة المتوسطة للتجارة و التعميدات
LAB ZAHLE
03/160050

Compressive Strength of Concrete Cores (ASTM C42)

Contractor : -----
Consultant : -----
Project : Evaluation of Material
Sample Type : Concrete Core

Work Order No. : ACTS-2106685
Sample Received on: 8-Apr-21
Date of Testing : 9-Apr-21
Extracted By : ACTS

Drilling Details

Date of Drilling : 8-Apr-21
Location of Drilled Samples : Concrete Pipe 1500
Standard Method : ASTM C42

Core Ref.	C1	C2	-----	-----	-----	-----
Structural Ref.	Concrete Pipe 1500	Concrete Pipe 1500	-----	-----	-----	-----
Direction of drilling	Vertical	Vertical	-----	-----	-----	-----
Time of Drilling	-	-	-----	-----	-----	-----
Moisture History	Time of sealing after drilling	-	-----	-----	-----	-----
	Date of sealing after end preparation	-	-----	-----	-----	-----
	Time of sealing after end preparation	-	-----	-----	-----	-----
Time of Testing	-	-	-----	-----	-----	-----
Cast Date	-	-	-----	-----	-----	-----
Age (days)	14	14	-----	-----	-----	-----
Average Diameter (mm)	75.0	75.0	-----	-----	-----	-----
Length of core after drilling (mm)	125	110	-----	-----	-----	-----
Length of capped core (mm)	-----	-----	-----	-----	-----	-----
Length of uncapped core (mm)	106	93	-----	-----	-----	-----
Nominal Max Size of Aggregate (mm)	19	19	-----	-----	-----	-----
Weight in air (g)	1139	1009	-----	-----	-----	-----
Area (mm ²)	4418	4418	-----	-----	-----	-----
Load (kN)	197.8	203.2	-----	-----	-----	-----
$\lambda(L/D)$	1.41	1.24	-----	-----	-----	-----
Correction factor for length	0.949	0.928	-----	-----	-----	-----
Density (kg/m ³)	2440	2460	-----	-----	-----	-----
Compressive Strength (MPa)	42.5	42.7	-----	-----	-----	-----
Type of Fracture	2-A	2-A	-----	-----	-----	-----
Defects	-	-	-----	-----	-----	-----

Remark : According to ACI 318 " The mean compressive strength of a set of three cores shall equal or exceed 0.85 fc with no individual core less than 0.75fc "

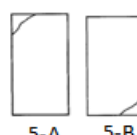
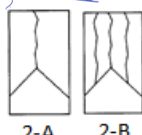
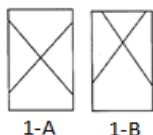
The test was done after a day from drilling as per customer request.

Reviewed by : Ghiwa Zreik

Admin Assistant

Approved by: Ghiwa Zreik

Admin Assistant



This test is under the scope of ISO 17025 accreditation.

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