



Wills Bros Laboratory

File No3.03.....

Contract No....

Sheet...1...of.....1.

N5 Ballaghaderreen Bypass

Site Laboratory , N5 Ballaghaderreen, Co Roscommon

Standard Proforma

SP9/CR3 -B

TEST REPORT AND CERTIFICATE OF TEST OF COMPRESSIVE STRENGTH OF CONCRETE CUBES TO BS EN 12390-3:2009

SAMPLE LOCATION:	Structure 6, South Pier Base
CONCRETE SUPPLIER:	Roadstone Plant, Castlemine, Four Mile House, Co. Roscommon
SAMPLE No:	BC/174
TIME SAMPLED:	14.45

MIX DESCRIPTION	C32/40		
Cube Set Number	BC/174	BC/174	BC/174
LABORATORY REFERENCE No	A	B	C
BS EN 12350-2: 2009 MEASURED SLUMP	70		
DATE SAMPLED / CAST	24.07.13		
DATE RECEIVED	24.07.13		
DATE TESTED	31.07.13	21.08.13	21.08.13
AGE AT TEST - DAYS	7	28	28
DIMENSIONS / NOMINAL SIZE (mm)	100	100	100
MASS (Kgs)	2.402	2.398	2.424
DENSITY (Kg/M3)	2410	2410	2410
MAXIMUM LOAD AT FAILURE KN	427.7	444.8	463.5
COMPRESSIVE STRENGTH N/mm2	43.0	45.0	46.5

REMARKS

KEY TO REMARKS

- 1. Air cured Cubes, Immersed in Water for 5 Minutes Prior to Test.
- Mass / Density Determined As Received.
- 2. Fins Removed By Carbourundum Stone.
- 3. Abnormal Mode of Failure
- 4. Poor Compaction
- 5. Honeycombing
- 6. Cube Not Square
- 7. Damaged corners
- 8. Damaged Edges
- 9. Damaged Faces

The Following Applies unless stated Otherwise:

- * Test Condition Saturated
- * Mass and Density at test Saturated
- * Specimen Made In Accordance with BS EN 12390-2: 2009
- * Cube Densities Determined By Displacement Method BS EN 12390-7: 2009
- * Stored , Cured And Tested In Accordance with BS EN 12390-3: 2009
- * Cube Failure Normal

MATERIALS ENGINEER / ASSISTANT-MAT-ENG.

INTERIM REPORT(S).....DATE..... 31-7-2013.....

COMPLETE REPORT.....DATE..... 21-8-2013.....

Authorised signatory - P.E. Johnson / R. Rooney

Signed.....