



Wills Brothers 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 2, North Abutment Stem Wall		
CONCRETE SUPPLIER:	Roadstone Plant , Castlemine, Four Mile House, Co Roscommon		
SAMPLE No:	BC/126		BC/126
TIME SAMPLED:	13:30		13:30

MIX DESCRIPTION	C40/50 50% GGBS			C40/50 50% GGBS		
Cube Set Number	BC/126	BC/126	BC/126	BC/126		
LABORATORY REFERENCE No	A	B	C	D		
BS EN 12350-2: 2009 MEASURED SLUMP	140			140		
DATE SAMPLED / CAST	26.06.13			26.06.13		
DATE RECEIVED	26.06.13			26.06.13		
DATE TESTED	03.07.13	24.07.13	24.07.13	21.08.13		
AGE AT TEST - DAYS	7	28	28	56		
DIMENSIONS / NOMINAL SIZE (mm)	100	100	100	100		
MASS (Kgs)	2.392	2.387	2.399			
DENSITY (Kg/M3)	2380	2342	2352			
MAXIMUM LOAD AT FAILURE KN	401.4	646.4	646.9			
COMPRESSIVE STRENGTH N/mm2	40.1	64.5	64.7			

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 Carborundum 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..... 3.7.13

COMPLETE REPORT.....DATE..... 24.7.13

Authorised signatory - P/E. Johnson R. Rooney

Signed.....