



Wills Bros Laboratory

File No3.03.....

Contract No....

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

N5 Ballaghaderreen

Site Laboratory , N5 Ballaghaderreen, Co Roscommon

Standard Proforma

SP9/CR3 -B

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

| | |
|--------------------|---------------------------------------|
| SAMPLE LOCATION: | Structure 5 Deck |
| CONCRETE SUPPLIER: | Roadstone, Four Mile House, Roscommon |
| SAMPLE No: | BC/327 |
| TIME SAMPLED: | 10.03 |

| | | | | | | |
|--------------------------------|-----------------|----------|----------|---|---|---|
| MIX DESCRIPTION | C40/50 50% GGBS | | | | | |
| Cube Set Number | BC/327 | BC/327 | BC/327 | 0 | 0 | 0 |
| LABORATORY REFERENCE No | A | B | C | D | | |
| MEASURED SLUMP | 115 | | | | | |
| DATE SAMPLED / CAST | 14.11.13 | | | | | |
| DATE RECEIVED | 14.11.13 | | | | | |
| DATE TESTED | 21.11.13 | 12.12.13 | 12.12.13 | | | |
| AGE AT TEST - DAYS | 7 | 28 | 28 | | | |
| DIMENSIONS / NOMINAL SIZE (mm) | 100 | 100 | 100 | | | |
| MASS (Kgs) | 2.411 | 2.409 | 2.415 | | | |
| DENSITY (Kg/M3) | 2410 | 2410 | 2420 | | | |
| MAXIMUM LOAD AT FAILURE KN | 333.4 | 536.6 | 500.3 | | | |
| COMPRESSIVE STRENGTH N/mm2 | 33.5 | 53.5 | 50.0 | | | |

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
- * Certificate Of Sampling, Specimen Preparation And Curing Available
- * Cube Densities Determined By Displacement Method BS 1881 : Part 114 : 1993
- * Stored , Cured And Tested In Accordance with BS 1881 : Parts 111 & 116 : 1983
- * Cube Failure Normal

MATERIALS ENGINEER / ASSISTANT MAT ENG

INTERIM REPORT(S).....DATE..... 21.11.13

COMPLETE REPORT.....DATE..... 12.12.13

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

Signed.....