

**CURING, DENSITY & COMPRESSIVE STRENGTH OF 150mm<sup>2</sup> CONCRETE CUBES**

**LINCS**

**LABORATORY**  
Lincolnshire County Council

**1101**

REPORT No.

LABORATORY USE ONLY  
 BS EN 12390-1:2021 (DIMENSIONS)  BS EN 12390-2:2019 (CURING)  BS EN 12390-7:2019 (DENSITY)  BS EN 12390-3:2019 (STRENGTH)

RESULTS VIA  JOB NUMBER

CUBES MADE IN UKAS CALIBRATED MOULDS?  YES / NO CURRENT MOULD CALIBRATION CERTIFICATE SUPPLIED?  YES / NO

**ALL SHADED BOXES IN THIS SECTION & AGE OF TEST TO BE COMPLETED BY THE CLIENT / CONTRACTOR BEFORE SUBMISSION TO LAB**

CLIENT

SITE

SUPPLIER  SOURCE

DATE SAMPLED  TIME SAMPLED

TIME CUBES MADE  PLACE CUBES MADE

DATE CUBES STRIPPED  TIME CUBES STRIPPED

CUBES MADE BY  COMPACTION METHOD  HAND\* / VIBRATING HAMMER

NOMINAL SIZE OF CUBES  mm CURING METHOD ON SITE  AIR / WATER

DESIGN SLUMP  mm MEASURED SLUMP  mm

CUBES FROM CONCRETE USED IN

CHARACTERISTIC STRENGTH  \* TAMPING BLOWS/LAYER

LABORATORY USE ONLY  
 DATE CUBES RECEIVED IN LAB   
 DATE CUBES PLACED IN TANKS  STORE ALL CUBES BELOW  Mpa @ 28 days

LAB SAMPLE No.		C	/2	C	/2	C	/2
CLIENT CUBE No.							
<b>CONDITION OF CUBES ON RECEIPT</b>							
APPARENT LEVEL OF COMPACTION							
APPARENT MOISTURE STATE							
STANDARD OF CORNERS AND EDGES							
CONDITION OF FLOATED FACE							
APPEARANCE OF MOULDED FACES							
FLATNESS OF LOAD BEARING FACES (Pass = ± 0.09 mm)		PASS / FAIL		PASS / FAIL		PASS / FAIL	
PERPENDICULARITY OF SIDES wrt BASE (Pass = < 0.5 mm)		PASS / FAIL		PASS / FAIL		PASS / FAIL	
MEAN DIMENSIONS (mm)	H	145.5 - 154.5		H			
	L	145.5 - 154.5		L			
	W	145.5 - 154.5		W			
<b>INFORMATION NOTED AT TEST</b>							
DATE OF TEST							
TIME OF TEST							
ROOM TEMPERATURE (20± 5°C)							
AGE OF TEST (DAYS)							
MOISTURE STATE AT TEST		MOIST	SATURATED	MOIST	SATURATED	MOIST	SATURATED
MASS IN AIR (SATURATED) k g							
SATURATED DENSITY (TO 10kg/m <sup>3</sup> ) kg/m <sup>3</sup>							
FAIL LOAD kN							
COMPRESSIVE STRENGTH (TO 0.1 Mpa) Mpa							
FAILURE MODE (Figure 2 Failure Type)		UNUSUAL / NORMAL ( )		UNUSUAL / NORMAL ( )		UNUSUAL / NORMAL ( )	
TESTED BY							
INTERIM RESULTS GIVEN							
CERTIFIED BY							

# NOTES FOR "AS RECEIVED" CONDITION OF CUBES

LINCS

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- APPARENT LEVEL OF COMPACTION : SATISFACTORY / POOR / SLIGHTLY VOIDED  
S P SV
- APPARENT MOISTURE STATE : MOIST / DRY  
M D
- STANDARD OF CORNERS AND EDGES : SATISFACTORY / CHIPPED / POORLY COMPACTED  
S C PC
- APPEARANCE OF FLOATED FACE : SATISFACTORY / SCORED / CONCAVE / CONVEX / SLOPING / UNEVEN  
S SC CC CV SL UE
- APPEARANCE OF MOULDED FACES : SATISFACTORY / EXPOSED AGGREGATE / OTHER – SEE REMARKS  
S EA

(THIS IS ONLY A GUIDE, OTHER COMMENTS MAY BE USED)

## MEASUREMENT OF CUBES

	1	2	3	4	MEAN
H1					
H2					
L1					
L2					
W					

SAMPLE No. C \_\_\_\_\_ /2

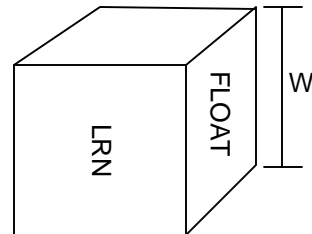
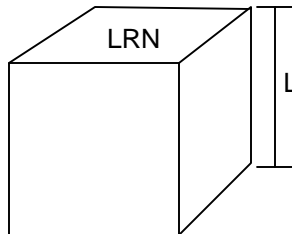
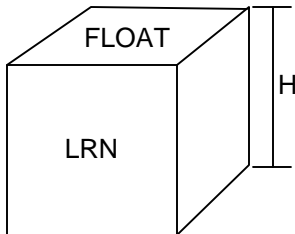
	1	2	3	4	MEAN
H1					
H2					
L1					
L2					
W					

SAMPLE No. C \_\_\_\_\_ /2

	1	2	3	4	MEAN
H1					
H2					
L1					
L2					
W					

SAMPLE No. C \_\_\_\_\_ /2

## NOTATION



## FORMULAE

VOLUME = HEIGHT x LENGTH x WIDTH (m<sup>3</sup>)

STRENGTH =  $\frac{\text{LOAD}}{\text{HEIGHT x LENGTH}}$  (N/mm<sup>2</sup>)

DENSITY =  $\frac{\text{MASS}}{\text{VOLUME}}$  (kg/m<sup>3</sup>)

REMARKS