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RCC92_RIBBED_SLABS_TABLES_ [Compatibility Mode] - Microsoft Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW

Clipboard Font Alignment Number Styles Cells Editing

Project

Project Spreadsheets to BS 8110

Client Advisory Group

Location 2nd Floor slab

RIBBED SLAB DESIGN to BS 8110:1997 using table 3.12 coefficients

Original from RCC92.xls v1.1 as CD © 2000 BCA for RCC

REINFORCED CONCRETE COUNCIL

Made by: rtmw Date: 19-Sep-2013 Page: 119

Checked: chg Revision: prelim Job-No: R68

OPERATING INSTRUCTIONS

ENTER DATA IN BLUE CELLS ONLY

RED MESSAGES INDICATE ENTRY ERRORS

3 OR MORE SPANS WITH UOL

SINGLE LAYER REBAR ONLY

SHORTEST SPAN NOT < 6.120 m

MIN BAY WIDTH NOT < 4.902 m

T
R
for

As auto increased by
Side cover in spans = 69.1

LOCATION Suppos from grid A to grid E

STATUS VALID DESIGN

DIMENSIONS

N^o of spans: 5

Max Span: 7.200 m

depth o/a, h: 300 mm

topping depth, l: 100 mm

rib width: 150 mm

rib centres: 750 mm

Side slope: 1 in 10

Top cover (to links): 35 mm

Min No of bars: 2

Use Links? Y (T)es, (f)lo or (f)inimal

MATERIALS

f_{cu} N/mm²: 35

f_y N/mm²: 460

f_{yk} N/mm²: 250

h agg: 20 mm

G_o: 1.50

G_s: 1.05

Density: 24.0 kN/m³ (Normal weight concrete)

LOADING

Self Wt: 4.00 kN/m²

Dead: 1.50 kN/m²

Total Dead, g_k: 5.50 kN/m²

Imposed q_k: 5.00 kN/m²

Design load, n = 15.70 kN/m²

BENDING

	END SUPPORTS (A,B,F)	END SPANS	FIRST INT SUPPORTS	INTERIOR SPANS	INTERNAL SUPPORTS	BS8110 Reference
Width solid from DL	150	---	500	---	500	Table 3.12
M (kNm)	32.6	61.1	70.0	51.3	51.3	Fig 3.3
d (mm)	254	259	249	261	249	Fig 3.3
A _s (mm ²)	231	425	507	354	371	
A _s ' (mm ²)	0	0	0	0	0	

DEFLECTION

Lid Max: 39.894

Actual Lid: 27.799 OK

As auto increased by 17.8%

35.466

27.585 OK

As auto increased by 12.6%

TENSION REINFORCEMENT

Geometry and Loading

Indicative Bending Moment Diagram

Print Sheet

Print ALL Output

MAIN DETAILS Weight Graf Notes

READY

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