भारतीय मानक
Indian Standard

IS 3370 (Part 4/Sec 1) : 2021

जलीय तरल पदार्थों को प्रतिधारित करने के लिए कंक्रीट संरचनाएं — रीति संहिता

भाग 4 डिजाइन तालिकाएं

अनुभाग 1 प्लेटें

(पहला पुनरीक्षण)

Concrete Structures for Retaining Aqueous Liquids — Code of Practice

Part 4 Design Tables

Section 1 Plates

(First Revision)

ICS 23.020.10; 91.010.30; 91.080.40

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Cement and Concrete Sectional Committee, CED 02

FOREWORD

This Indian Standard (Part 4/Sec 1) (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Cement and Concrete Sectional Committee had been approved by the Civil Engineering Division Council.

The design and construction methods in reinforced concrete and prestressed concrete structures for retaining aqueous liquids are influenced by the prevailing construction practices, the physical properties of the materials and the climatic condition. To lay down uniform requirements of structures for the retaining liquids giving due consideration to the above mentioned factors, this standard has been published in four parts, the other parts in the series are:

Part 1 General requirements

Part 2 Plain and reinforced concrete

Part 3 Prestressed concrete

This standard was first published in 1967. This revision has been brought out with a view to keeping abreast with the rapid development in the field of structural analysis and the results available from finite element analyses of rectangular plates and tanks, and circular tanks (without prestressing), and also to bring further modifications in the light of experience gained while applying the earlier version of this standard. In this revision, the title of the standard has been modified from 'Concrete structures for storage of liquids — Code of practice: Part 4 Design tables' to 'Concrete structures for retaining aqueous liquids — Code of practice: Part 4 Design tables' for better representation of the contents of the revised standard. Furthermore, this standard (Part 4) has been trifurcated into 3 sections for giving due emphasis to each topic covered and convenience of use and handling.

Section 1 Plates

Section 2 Rectangular tanks

Section 3 Circular tanks

This standard (Part 4/Sec 1) deals with design tables for plates for use as an aid in the design of walls and slabs of liquid retaining tanks. The object of the design tables covered in this part is mainly to present data for ready reference of designers and as an aid to speedy design calculations. The designer has the option to adopt any established method of analysis, such as classical elastic plate analysis, finite element analysis or use of design tables given in this standard as long as the design complies with the requirements of IS 3370 (Parts 1 to 3), and the structural adequacy and safety is ensured.

Tables relating to design of rectangular as well as cylindrical tanks have been given and by proper combination of various tables it may be possible to design different types of tanks involving many sets of conditions for rectangular and cylindrical containers built in or on ground. Some of the data given in the tables for design of plates may be used for design of members of the earth retaining structures subjected to earth pressure for which hydrostatic type of loading may be suitably substituted by earth pressure in the design calculations.

In this standard, it has been assumed that the design of liquid retaining structures, whether of plain, reinforced or prestressed concrete is entrusted to a qualified engineer and that the execution of the work is carried out under the direction of a qualified and experienced engineer.

The requirements of IS 456 : 2000 'Plain and reinforced concrete — Code of practice (*fourth revision*)' and IS 1343 : 2012 'Prestressed concrete — Code of practice (*second revision*)', in so far as they apply, shall be deemed to form part of this standard except where otherwise laid down in this standard.

Following are the significant modifications incorporated in this revision:

a) The shear and moment coefficients for rectangular plates have been revised and enlarged to cover wider range of loading configurations, end-restraint conditions, and width/height ratios.

b) The deflection coefficients have been included for rectangular plates.

c) The title of the standard has been modified to address the actual coverage.

(*Continued to third cover*)

Indian Standard

CONCRETE STRUCTURES FOR RETAINING AQUEOUS LIQUIDS — CODE OF PRACTICE

PART 4 DESIGN TABLES

Section 1 Plates

(First Revision)

1 SCOPE

This standard (Part 4/Sec 1) gives design tables of shear, deflection and moment coefficients of plates for use as an aid in the design of rectangular reinforced concrete structures for retaining liquids.

2 REFERENCE

The following standard contain provisions, which through reference in this text constitute provisions of this standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below:

IS No.	*Title*
456 : 2000	Plain and reinforced concrete — Code of practice (*fourth revision*)

3 RECTANGULAR TANKS

3.1 Plate Analysis Results for Individual Panels

The design coefficients for deflection (δ_c), shear (V_c) and moments (M_{xc}, M_{yc}, M_{xyc}) for individual plates with different loading configurations and end-restraint conditions (*see* **3.1.4**) obtained from finite element analyses of thin plates subjected to out of plane loads have been tabulated in Tables 2 to 131.

3.1.1 *Shear*

Shear per unit width, V, in N/m is given by the following equation:

$$V = V_c\, q\, a$$

where

V_c = shear coefficient (*see* col 3 of Table 1);

q = *kwa*, pressure at bottom of plate for triangular load distribution, N/m^2;

= *kw*, pressure uniformly applied along height of plate, N/m^2;

k = coefficient for active or passive earth pressure, whichever is applicable

= 1, for aqueous liquids;

w = unit weight of liquid (or soil), N/m^3; and

a = height of loaded portion of plate, m.

3.1.2 *Deflection*

Deflection, δ, in mm, is given by the following equation:

$$\delta = 12\, \delta_c\, q\, a^4\, (1 - \mu^2) / (1\,000\, E_c\, t^3)$$

where

δ_c = deflection coefficient (*see* column 4 of Table 1);

q = *kwa*, pressure at bottom of plate for triangular load distribution, MPa

= *kw*, pressure uniformly applied along height of plate, MPa;

k = coefficient for active or passive earth pressure, as applicable.

= 1, for aqueous liquids;

w = unit weight of liquid (or soil), N/mm^3;

a = height of loaded portion of plate, mm;

μ = Poisson's ratio of concrete (may be taken as 0.15, in absence of test results);

E_c = Modulus of elasticity of concrete, MPa (*see* IS 456); and

t = thickness of plate, mm.

3.1.3 *Moment*

Moment per unit width, in Nm/m is given by the following equations:

$$M_x = M_{xc}\, q\, a^2/1\,000$$
$$M_y = M_{yc}\, q\, a^2/1\,000$$
$$M_{xy} = M_{xyc}\, q\, a^2/1\,000$$

where

M_x = moment per unit width about the x-axis stretching the fibres in the y-direction when the plate is in the x-y plane. The moment is used to determine steel in the y-direction of the plate (*see* Fig.1);

M_y = moment per unit width about the y-axis stretching the fibres in the x-direction when the plate is in the x-y plane, or in the z-direction when the plate is in the y-z plane. The moment

is used to determine steel in the x or z direction of the plate (*see* Fig.1);

M_{xy} = torsion moment per unit width for the plate in the x-y plane. The moment is used to determine steel in the y-direction of the plate (*see* Fig.1);

M_{xc} = moment coefficient for computation of M_x (*see* col 5 of Table 1);

M_{yc} = moment coefficient for computation of M_y (*see* col 5 of Table 1); and

M_{xyc} = moment coefficient for computation of M_{xy} (*see* col 5 of Table 1).

3.1.4 *Loading Configurations and End-restraint Conditions*

The various loading configurations and end-restraint conditions of plates for which shear (V_c), deflection (δ_c) and moments (M_{xc}, M_{yc}, M_{xyc}) coefficients have been tabulated in Tables 2 to 131 are given in Table 1.

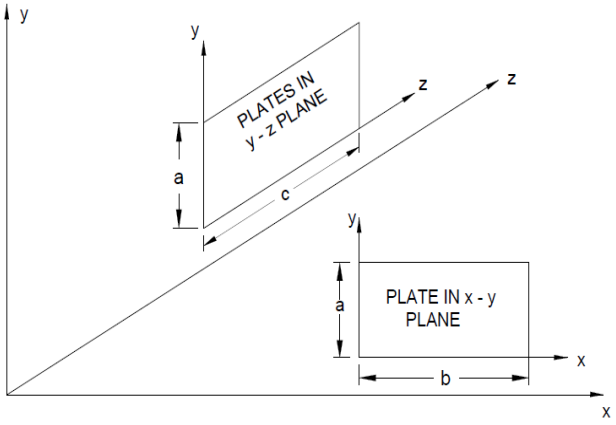
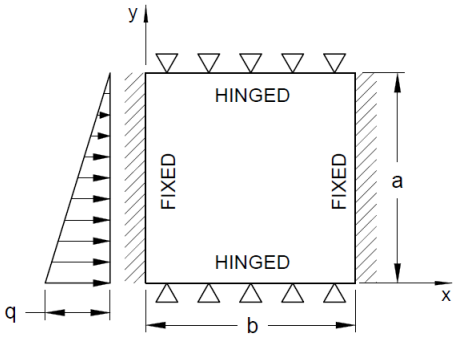


FIG.1 COORDINATE SYSTEM FOR PLATES

Table 1 Loading Configurations and End-restraint Conditions for Plates

(*Clauses* 3.1.1, 3.1.2, 3.1.3 *and* 3.1.4)

Case	Figure	Tables of (Reference to)		
		Shear Coefficients, V_c	Deflection Coefficients, δ_c	Moment Coefficients, M_{xc}, M_{yc} and M_{xyc}
(1)	(2)	(3)	(4)	(5)
Case 1		Table 2	Tables 3 and 4	Tables 5 to 14

a) Top hinged, bottom hinged and both sides fixed, subjected to triangular loading

Table 1 (*Continued*)

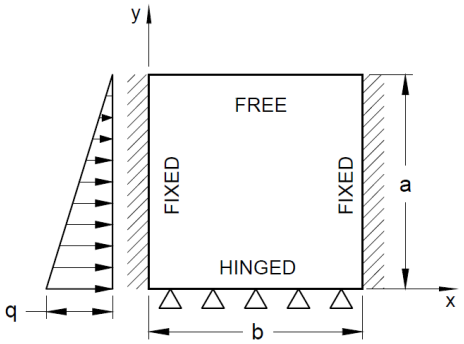
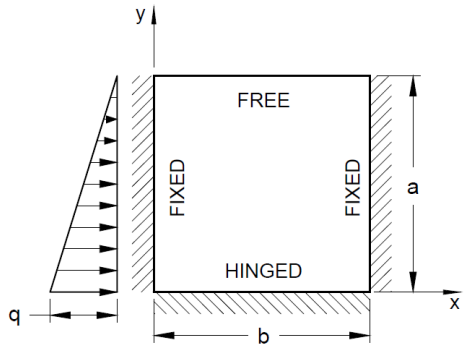
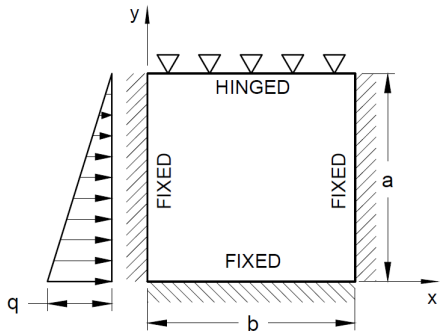
Case	Figure	Tables of (Reference to)		
		Shear Coefficients, V_c	Deflection Coefficients, δ_c	Moment Coefficients, M_{xc}, M_{yc} and M_{xyc}
(1)	(2)	(3)	(4)	(5)
Case 2		Table 15	Tables 16 and 17	Tables 18 to 27
	b) Top free, bottom hinged and both sides fixed, subjected to triangular loading			
Case 3		Table 28	Tables 29 and 30	Tables 31 to 40
	c) Top free, bottom fixed and both sides fixed, subjected to triangular loading			
Case 4		Table 41	Tables 42 and 43	Tables 44 to 53
	d) Top hinged, bottom fixed and both sides fixed, subjected to triangular loading			

Table 1 (*Continued*)

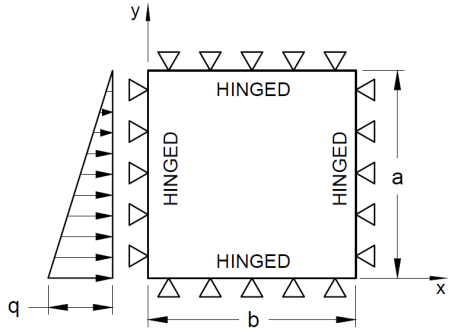
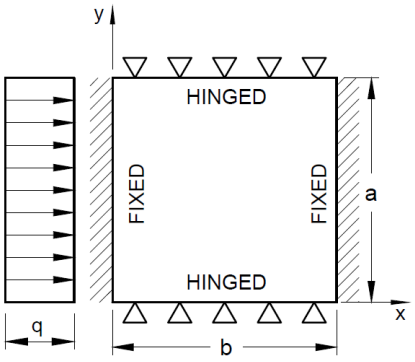
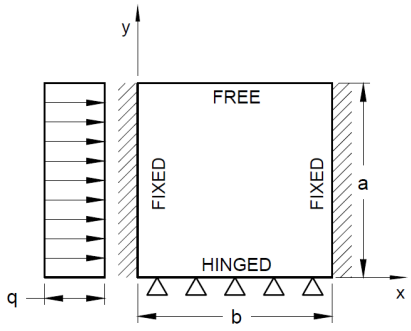
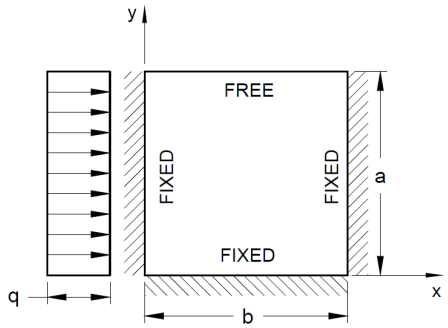
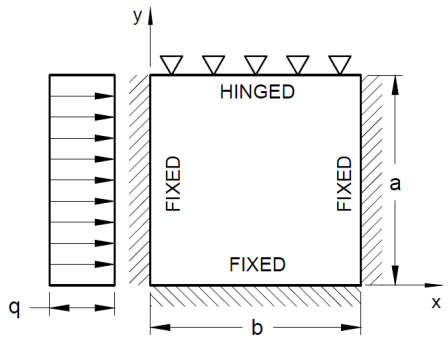
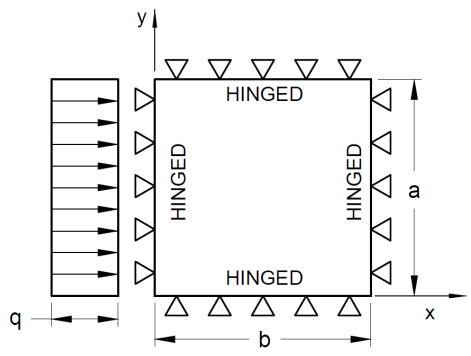
Case	Figure	Tables of (Reference to)		
		Shear Coefficients, V_c	Deflection Coefficients, δ_c	Moment Coefficients, M_{xc}, M_{yc} and M_{xyc}
(1)	(2)	(3)	(4)	(5)
Case 5	 e) Four sides hinged, subjected to triangular loading	Table 54	Tables 55 and 56	Tables 57 to 66
Case 6	 f) Top hinged, bottom hinged and both sides fixed, subjected to uniformly distributed loading	Table 67	Tables 68 and 69	Tables 70 to 79
Case 7	 g) Top free, bottom hinged and both sides fixed, subjected to uniformly distributed loading	Table 80	Tables 81 and 82	Tables 83 to 92

Table 1 (*Concluded*)

Case	Figure	Tables of (Reference to)		
		Shear Coefficients, V_c	Deflection Coefficients, δ_c	Moment Coefficients, M_{xc}, M_{yc} and M_{xyc}
(1)	(2)	(3)	(4)	(5)
Case 8		Table 93	Tables 94 and 95	Tables 96 to 105
	h) Top free, bottom fixed and both sides fixed, subjected to uniformly distributed loading			
Case 9		Table 106	Tables 107 and 108	Tables 109 to 118
	j) Top hinged, bottom fixed and both sides fixed, subjected to uniformly distributed loading			
Case 10		Table 119	Tables 120 and 121	Tables 122 to 131
	k) Four sides hinged, subjected to uniformly distributed loading			

3.2 General Assumptions in Design

The panel has horizontal tension due to the reaction to (or shear force in) the adjoining perpendicular wall panel. If the other panel is at an angle other than 90°, the in-plane horizontal tension may be estimated by static equilibrium considering the reactions on edge on panels. Shear at a vertical edge of a panel becomes tension in the adjoining panel, if both the panels are perpendicular.

The coefficients for individual panels with fixed side edges apply to continuous walls without any modification, provided there is no rotation about vertical edges. Case 10 shows a typical roof or bottom rectangular slab. Similarly, case 3 and case 8 are typical cases in which wall slab, counterfort and base slab are all built integrally.

Horizontal span of wall shall be the effective span, which will be clear span plus wall thickness. If width of counterfort is less than thickness of wall, effective span will be clear span plus width of counterfort.

Top edge of wall may be assumed to be free for an open top tank, if no other restraint is provided at top edge. If a walk-way is provided, it provides stiffness to reduce horizontal deflections and thus, the wall may be treated as hinged at top. If wall has a monolithically built roof slab, the junction of wall and slab both members will tend to rotate in the same direction due to loading, hence slab does not resist the large portion of the possible rotation of wall top, and *vice-versa*. Therefore, the wall top may be treated as hinged.

For ground supported tanks, bottom edge of wall panel may be assumed as per the following:

a) If foundation strata is rock or hard soil (corrected standard penetration '*N*' value > 30 or refusal), the rotation of wall base will be very small, and may be assumed to be fixed at bottom.

b) For soft soils in foundation ($N < 15$), moments and shear may be taken as the algebraic sum of the one third of difference (between fixed and hinged condition) and hinged case. Moment and shear at bottom edge may be taken as average of fixed and hinged end-restraint case.

c) In cases other than covered in (a) and (b), the base provides partial restrain against rotation, and wall base may be assumed to be partially fixed that is, a condition in between fixed and hinged. Design moments and shear in wall (except bottom edge) may be taken as average of fixed base and hinged base end-restraint. However, design moment and shear at bottom edge should be reduced by one third of the difference of fixed and hinged end-restraint cases from fixed end-restraint case.

Table 2 Shear Coefficients for Panels having Case 1 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

LOCATION \ b/a	4.0	3.0	2.5	2.0	1.75	1.5	1.25	1.0	0.75	0.5
Bottom edge - midpoint	0.33	0.33	0.32	0.30	0.28	0.26	0.23	0.20	0.16	0.11
Side edge - maximum	0.41	0.41	0.41	0.40	0.39	0.38	0.35	0.32	0.26	0.20
Side edge - midpoint	0.37	0.37	0.37	0.36	0.35	0.33	0.30	0.26	0.20	0.13
Top edge - midpoint	0.17	0.16	0.15	0.13	0.12	0.10	0.07	0.05	0.03	0.01

Table 3 Deflection Coefficients along Mid-height ($y = a/2$) for Panels having Case 1 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

x / b/a	END	0.1b 0.9b	0.2b 0.8b	0.3b 0.7b	0.4b 0.6b	0.5b
4.0	0	2.60	6.20	8.70	10.10	10.50
3.0	0	1.60	4.20	6.40	7.70	8.10
2.5	0	1.10	3.10	4.80	6.00	6.30
2.0	0	0.70	2.00	3.20	4.00	4.30
1.75	0	0.50	1.50	2.40	3.00	3.20
1.5	0	0.40	1.00	1.70	2.10	2.30
1.25	0	0.20	0.60	1.10	1.40	1.50
1.0	0	0.10	0.30	0.60	0.70	0.80
0.75	0	0.00	0.10	0.20	0.30	0.30
0.5	0	0.00	0.00	0.00	0.00	0.00

Table 4 Deflection Coefficients along Mid-span (x = *b*/2) for Panels having Case 1 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

y / b/a	BOT.	0.1a	0.2a	0.3a	0.4a	0.5a	0.6a	0.7a	0.8a	0.9a	TOP
4.0	0	2.10	4.00	5.30	6.10	6.30	5.90	5.00	3.60	1.90	0
3.0	0	2.00	3.70	4.90	5.70	5.80	5.40	4.60	3.30	1.70	0
2.5	0	1.80	3.30	4.50	5.10	5.20	4.90	4.10	2.90	1.50	0
2.0	0	1.50	2.70	3.60	4.10	4.20	3.90	3.30	2.30	1.20	0
1.75	0	1.20	2.30	3.00	3.40	3.50	3.20	2.70	1.90	1.00	0
1.5	0	1.00	1.80	2.40	2.60	2.70	2.40	2.00	1.40	0.70	0
1.25	0	0.70	1.20	1.60	1.80	1.80	1.60	1.30	0.90	0.50	0
1.0	0	0.40	0.70	0.90	1.00	1.00	0.80	0.70	0.50	0.20	0
0.75	0	0.20	0.30	0.40	0.40	0.40	0.30	0.20	0.20	0.10	0
0.5	0	0.10	0.10	0.10	0.10	0.10	0.10	0.00	0.00	0.00	0

Table 5 Moment Coefficients for Panels having Case 1 Arrangements for *b/a* = 4.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	17	0	0	10	0	0	4	0	0	2	0	0	0	0
0.9a	-3	0	-16	5	17	2	11	10	5	15	4	4	16	1	4	16	0	4
0.8a	-6	0	-32	10	15	4	22	9	9	28	4	8	31	1	7	31	0	7
0.7a	-9	0	-45	15	11	6	32	6	12	40	3	11	44	1	10	44	0	10
0.6a	-11	0	-56	19	7	7	40	4	15	50	1	14	54	0	12	55	0	12
0.5a	-12	0	-62	22	2	9	46	0	17	56	0	15	60	0	14	61	0	13
0.4a	-13	0	-64	24	4	10	48	3	17	58	1	15	62	0	14	63	0	14
0.3a	-12	0	-59	25	10	10	46	6	15	54	3	14	58	1	13	58	0	13
0.2a	-10	0	-48	22	15	8	38	9	12	44	4	11	47	1	10	47	0	10
0.1a	-6	0	-28	15	19	5	23	10	7	27	4	7	28	1	6	28	0	6
BOT.	0	0	0	0	20	0	0	11	0	0	4	0	0	2	0	0	0	0

Table 6 Moment Coefficients for Panels having Case 1 Arrangements for *b/a* = 3.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	17	0	0	14	0	0	8	0	0	3	0	0	0	0
0.9a	-3	0	-16	3	17	0	9	14	4	12	8	5	14	3	4	15	0	4
0.8a	-6	0	-32	6	15	0	17	12	8	24	7	9	28	3	8	29	0	8
0.7a	-9	0	-45	9	12	0	25	9	11	35	5	13	39	2	12	41	0	11
0.6a	-11	0	-56	11	7	0	31	5	14	43	3	15	49	1	14	51	0	14
0.5a	-12	0	-62	14	2	1	36	1	16	49	0	17	55	0	16	57	0	15
0.4a	-13	0	-64	16	4	2	38	4	16	51	2	17	57	1	16	59	0	16
0.3a	-12	0	-59	17	10	3	37	8	15	48	5	16	53	2	15	55	0	14
0.2a	-10	0	-48	15	15	4	32	12	12	40	7	12	44	3	12	45	0	11
0.1a	-6	0	-28	11	20	3	20	14	7	24	8	7	26	3	7	27	0	7
BOT.	0	0	0	0	21	0	0	15	0	0	8	0	0	4	0	0	0	0

Table 7 Moment Coefficients for Panels having Case 1 Arrangements for *b/a* = 2.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	16	0	0	15	0	0	10	0	0	5	0	0	0	0
0.9a	-3	0	-16	2	16	-2	7	15	3	10	10	5	12	5	5	13	0	5
0.8a	-6	0	-32	4	14	-3	13	13	7	20	8	9	24	4	9	26	0	9
0.7a	-9	0	-45	6	11	-4	20	10	10	29	6	13	35	3	13	37	0	13
0.6a	-11	0	-56	7	7	-4	25	6	12	37	4	16	44	2	16	46	0	16
0.5a	-12	0	-62	9	2	-4	29	1	14	42	0	18	49	0	18	52	0	17
0.4a	-13	0	-64	11	3	-3	31	4	14	45	3	18	51	1	18	54	0	17
0.3a	-12	0	-59	12	9	-1	31	9	13	43	6	16	49	3	16	51	0	16
0.2a	-10	0	-48	12	15	0	27	13	11	36	8	13	40	4	13	42	0	13
0.1a	-6	0	-28	9	19	1	17	16	6	22	10	7	24	5	7	25	0	7
BOT.	0	0	0	0	21	0	0	17	0	0	11	0	0	5	0	0	0	0

Table 8 Moment Coefficients for Panels having Case 1 Arrangements for *b/a* = 2.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	14	0	0	15	0	0	11	0	0	6	0	0	0	0
0.9a	-3	0	-16	1	14	-3	5	15	2	8	11	5	10	6	5	10	0	5
0.8a	-6	0	-32	2	12	-6	9	13	5	15	9	9	19	5	10	20	0	11
0.7a	-9	0	-45	2	10	-9	14	10	7	22	7	13	28	4	14	2	0	15
0.6a	-11	0	-56	3	7	-10	18	6	9	28	4	16	35	2	18	37	0	18
0.5a	-12	0	-62	5	2	-10	21	1	10	33	1	17	40	0	19	42	0	20
0.4a	-12	0	-64	6	3	-9	23	4	11	35	3	18	42	2	19	45	0	20
0.3a	-11	0	-59	7	8	-7	24	9	11	35	7	16	41	3	18	43	0	18
0.2a	-9	0	-48	8	13	-4	21	14	9	30	10	13	34	5	14	36	0	14
0.1a	-6	0	-28	6	17	-1	14	17	5	19	12	7	21	6	8	22	0	8
BOT.	0	0	0	0	19	0	0	18	0	0	12	0	0	6	0	0	0	0

Table 9 Moment Coefficients for Panels having Case 1 Arrangements for *b/a* = 1.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	13	0	0	14	0	0	11	0	0	6	0	0	0	0
0.9a	-3	0	-15	0	12	-4	3	14	2	6	11	4	8	6	5	8	0	6
0.8a	-6	0	-29	0	11	-8	7	12	3	12	9	8	15	5	10	17	0	11
0.7a	-8	0	-41	1	9	-10	10	10	5	18	7	12	23	4	15	24	0	15
0.6a	-10	0	-51	2	6	-12	13	6	7	23	4	15	29	2	18	31	0	19
0.5a	-11	0	-57	2	2	-13	16	2	8	27	1	17	33	0	20	36	0	20
0.4a	-12	0	-59	4	2	-12	18	3	9	30	3	17	36	2	20	38	0	21
0.3a	-11	0	-55	5	7	-9	19	8	9	30	7	16	35	3	18	37	0	19
0.2a	-9	0	-45	6	12	-6	18	13	8	26	10	12	30	5	14	32	0	15
0.1a	-5	0	-27	5	16	-2	12	16	5	17	12	7	19	6	8	20	0	8
BOT.	0	0	0	0	18	0	0	18	0	0	13	0	0	6	0	0	0	0

Table 10 Moment Coefficients for Panels having Case 1 Arrangements for *b/a* = 1.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	10	0	0	12	0	0	10	0	0	5	0	0	0	0
0.9a	-3	0	-13	0	10	-4	2	12	1	4	10	4	6	5	5	6	0	6
0.8a	-5	0	-26	0	9	-8	5	11	2	9	9	8	11	5	10	12	0	11
0.7a	-7	0	-37	0	7	-12	7	9	3	13	7	11	17	4	14	18	0	15
0.6a	-9	0	-46	0	5	-14	9	6	4	17	4	13	22	2	17	23	0	19
0.5a	-10	0	-52	1	2	-15	12	2	5	20	1	15	26	0	19	28	0	21
0.4a	-11	0	-54	1	1	-14	13	2	6	23	2	16	29	1	20	30	0	21
0.3a	-10	0	-51	3	5	-11	15	7	7	24	6	15	29	3	18	31	0	19
0.2a	-8	0	-42	4	10	-8	14	12	6	21	9	12	25	5	14	27	0	15
0.1a	-5	0	-25	4	14	-3	10	15	4	14	11	7	17	6	8	17	0	8
BOT.	0	0	0	0	16	0	0	16	0	0	12	0	0	6	0	0	0	0

Table 11 Moment Coefficients for Panels having Case 1 Arrangements for *b/a* = 1.25

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	8	0	0	9	0	0	8	0	0	4	0	0	0	0
0.9a	-2	0	-11	-1	7	-4	1	9	0	3	8	3	3	4	5	4	0	5
0.8a	-4	0	-22	-1	7	-8	2	8	1	5	7	6	7	4	9	8	0	10
0.7a	-6	0	-32	-1	6	-11	4	7	1	8	6	9	11	3	13	12	0	14
0.6a	-8	0	-40	-1	4	-14	5	5	2	11	4	11	14	2	16	15	0	17
0.5a	-9	0	-45	-1	2	-15	7	2	3	13	1	13	18	1	18	19	0	19
0.4a	-9	0	-47	0	1	-15	9	1	4	16	2	14	20	1	18	22	0	19
0.3a	-9	0	-45	1	4	-13	10	5	4	17	5	13	21	3	17	23	0	18
0.2a	-8	0	-38	2	7	-9	10	9	4	16	8	11	20	4	13	21	0	14
0.1a	-5	0	-23	2	11	-4	8	12	3	11	10	6	14	5	8	14	0	8
BOT.	0	0	0	0	13	0	0	14	0	0	11	0	0	6	0	0	0	0

Table 12 Moment Coefficients for Panels having Case 1 Arrangements for *b/a* = 1.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	5	0	0	6	0	0	5	0	0	3	0	0	0	0
0.9a	-2	0	-8	-1	4	-3	0	6	0	1	5	2	2	3	3	2	0	4
0.8a	-3	0	-16	-1	4	-7	1	5	0	2	5	4	3	3	7	4	0	8
0.7a	-5	0	-24	-2	4	-10	1	5	0	4	4	6	5	2	10	6	0	11
0.6a	-6	0	-30	-2	3	-12	2	4	0	5	3	8	7	2	13	8	0	14
0.5a	-7	0	-35	-2	2	-13	3	2	1	7	1	10	10	1	14	11	0	16
0.4a	-8	0	-38	-1	0	-14	4	0	2	9	0	10	12	0	15	13	0	17
0.3a	-7	0	-37	-1	2	-12	6	3	2	11	3	10	14	2	14	15	0	16
0.2a	-6	0	-31	0	5	-9	7	6	3	11	5	9	14	3	12	15	0	13
0.1a	-4	0	-20	1	8	-4	6	9	2	9	7	5	10	4	7	11	0	7
BOT.	0	0	0	0	9	0	0	10	0	0	8	0	0	4	0	0	0	0

Table 13 Moment Coefficients for Panels having Case 1 Arrangements for *b/a* = 0.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	2	0	0	3	0	0	2	0	0	1	0	0	0	0
0.9a	-1	0	-5	0	2	-2	0	3	0	0	2	1	1	1	2	1	0	2
0.8a	-2	0	-10	-1	2	-4	0	3	0	1	2	3	1	1	4	1	0	5
0.7a	-3	0	-14	-1	2	-6	0	3	0	1	2	4	2	1	6	2	0	7
0.6a	-4	0	-19	-1	2	-8	0	2	0	2	2	5	3	1	8	3	0	9
0.5a	-4	0	-22	-2	1	-10	1	2	0	3	2	6	4	1	10	5	0	11
0.4a	-5	0	-25	-2	1	-10	2	1	0	4	0	7	6	0	11	6	0	12
0.3a	-5	0	-26	-1	1	-10	2	1	1	5	1	7	7	1	11	8	0	12
0.2a	-5	0	-23	0	2	-8	3	3	1	6	3	6	8	2	9	9	0	10
0.1a	-3	0	-15	0	4	-4	4	6	1	6	5	4	7	3	6	7	0	6
BOT.	0	0	0	0	6	0	0	7	0	0	5	0	0	3	0	0	0	0

Table 14 Moment Coefficients for Panels having Case 1 Arrangements for *b/a* = 0.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0
0.9a	0	0	-2	0	1	-1	0	1	0	0	1	1	0	0	1	0	0	1
0.8a	-1	0	-4	0	1	-2	0	1	0	0	1	1	0	0	2	0	0	2
0.7a	-1	0	-6	-1	1	-3	0	1	0	0	1	2	1	0	3	1	0	3
0.6a	-2	0	-8	-1	1	-4	0	1	0	0	1	2	1	0	4	1	0	4
0.5a	-2	0	-11	-1	1	-5	0	1	0	1	1	3	1	0	5	1	0	5
0.4a	-2	0	-12	-1	0	-6	0	1	0	1	0	3	2	0	5	2	0	6
0.3a	-3	0	-14	-1	0	-6	0	0	0	2	0	4	2	0	6	3	0	7
0.2a	-3	0	-14	-1	1	-5	1	1	0	3	1	4	3	0	6	4	0	6
0.1a	-2	0	-10	0	2	-3	2	2	1	3	2	3	4	1	4	4	0	4
BOT.	0	0	0	0	3	0	0	3	0	0	3	0	0	2	0	0	0	0

Table 15 Shear Coefficients for Panels having Case 2 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

LOCATION \ b/a	4.0	3.0	2.5	2.0	1.75	1.5	1.25	1.0	0.75	0.5
Bottom edge - midpoint	0.39	0.36	0.33	0.31	0.28	0.26	0.23	0.19	0.15	0.11
Side edge - maximum	1.14	0.76	0.58	0.41	0.39	0.37	0.35	0.31	0.26	0.20
Side edge - midpoint	0.51	0.45	0.43	0.39	0.37	0.34	0.30	0.25	0.19	0.13

Table 16 Deflection Coefficients along Mid-height (*y* = *a*/2) for Panels having Case 2 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

b/a \ x	END	0.1b 0.9b	0.2b 0.8b	0.3b 0.7b	0.4b 0.6b	0.5b
4.0	0	10.50	29.40	46.30	57.40	61.30
3.0	0	4.50	13.00	21.00	26.40	28.30
2.5	0	2.60	7.70	12.50	15.80	16.90
2.0	0	1.30	3.90	6.50	8.20	8.80
1.75	0	0.90	2.60	4.30	5.50	5.90
1.5	0	0.50	1.60	2.70	3.50	3.70
1.25	0	0.30	0.90	1.50	2.00	2.10
1.0	0	0.10	0.40	0.70	1.00	1.00
0.75	0	0.10	0.20	0.30	0.30	0.40
0.5	0	0.00	0.00	0.10	0.10	0.10

Table 17 Deflection Coefficients along Mid-span (x = *b*/2) for Panels Having Case 2 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

y / b/a	BOT.	0.1a	0.2a	0.3a	0.4a	0.5a	0.6a	0.7a	0.8a	0.9a	TOP
4.0	0	13.00	25.70	38.00	49.90	61.30	72.20	82.70	92.9	103.10	113.20
3.0	0	6.30	12.40	18.10	23.40	28.30	32.80	37.00	40.90	44.80	48.70
2.5	0	4.00	7.70	11.20	14.30	16.90	19.30	21.40	23.30	25.10	26.90
2.0	0	2.30	4.40	6.20	7.70	8.80	9.80	10.50	11.10	11.60	12.20
1.75	0	1.60	3.10	4.30	5.30	5.90	6.40	6.70	6.90	7.10	7.30
1.5	0	1.10	2.10	2.90	3.40	3.70	3.90	3.90	3.90	3.80	3.80
1.25	0	0.70	1.30	1.80	2.00	2.10	2.10	2.00	1.90	1.80	1.70
1.0	0	0.40	0.70	0.90	1.00	1.00	1.00	0.90	0.80	0.70	0.60
0.75	0	0.20	0.30	0.40	0.40	0.40	0.30	0.30	0.20	0.20	0.10
0.5	0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00	0.00	0.00

Table 18 Moment Coefficients for Panels having Case 2 Arrangements for *b/a* = 4.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-53	0	-267	0	57	-83	0	64	21	0	51	66	0	28	84	0	0	89
0.9a	-63	0	-317	-9	53	-77	4	63	20	10	50	62	13	27	79	14	0	83
0.8a	-55	0	-277	-12	53	-70	10	63	20	21	51	58	26	28	73	27	0	77
0.7a	-49	0	-244	-10	54	-62	17	64	21	31	51	55	38	28	68	40	0	71
0.6a	-43	0	-217	-5	56	-52	204	66	21	40	53	50	47	29	62	49	0	65
0.5a	-38	0	-190	1	60	-43	30	69	20	46	54	45	54	29	55	56	0	57
0.4a	-32	0	-162	7	63	-32	34	72	19	49	56	39	56	30	47	58	0	49
0.3a	-26	0	-131	11	67	-22	35	75	16	47	58	32	53	31	38	54	0	39
0.2a	-19	0	-95	13	71	-13	30	77	13	39	59	23	43	31	27	44	0	28
0.1a	-10	0	-52	10	74	-6	19	79	7	24	60	12	26	31	14	27	0	15
BOT.	0	0	0	0	75	0	0	79	0	0	60	0	0	32	0	0	0	0

Table 19 Moment Coefficients for Panels having Case 2 Arrangements for *b/a* = 3.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-31	0	-154	0	27	-72	0	34	7	0	28	48	0	16	68	0	0	74
0.9a	-41	0	-205	-8	24	-67	2	32	7	7	28	46	10	16	64	11	0	70
0.8a	-37	0	-185	-11	24	-61	6	32	8	16	28	44	21	16	61	22	0	66
0.7a	-34	0	-169	-9	25	-54	11	33	10	24	29	42	31	16	57	33	0	61
0.6a	-31	0	-155	-5	27	-47	17	36	11	32	30	39	39	17	52	42	0	56
0.5a	-28	0	-140	0	30	-38	23	39	12	38	32	36	46	18	47	48	0	50
0.4a	-25	0	-123	5	34	-29	27	42	12	41	35	32	48	19	41	51	0	43
0.3a	-20	0	-102	8	38	-20	29	46	12	40	37	26	46	20	33	48	0	35
0.2a	-15	0	-75	10	43	-12	26	49	10	34	38	19	39	21	24	40	0	25
0.1a	-8	0	-42	8	46	-5	17	51	6	21	39	11	24	21	13	24	0	13
BOT.	0	0	0	0	47	0	0	51	0	0	40	0	0	21	0	0	0	0

Table 20 Moment Coefficients for Panels having Case 2 Arrangements for *b/a* = 2.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-26	0	-130	0	15	-60	0	20	1	0	18	37	0	10	56	0	0	62
0.9a	-30	0	-150	-7	12	-56	1	18	2	5	17	36	8	10	53	9	0	59
0.8a	-28	0	-140	9	12	-52	4	18	3	12	17	35	17	10	51	18	0	56
0.7a	-26	0	-131	-8	13	-47	8	19	5	19	18	34	25	10	48	27	0	53
0.6a	-25	0	-124	-4	15	-41	14	22	7	26	20	33	33	11	45	36	0	49
0.5a	-23	0	-115	-1	18	-34	19	25	9	32	22	31	39	12	41	42	0	44
0.4a	-21	0	-104	3	22	-27	23	29	10	36	24	28	43	13	36	45	0	39
0.3a	-1	0	-88	6	26	-19	24	32	10	36	26	23	42	15	30	43	0	32
0.2a	-13	0	-66	8	31	-11	22	36	8	31	28	17	35	15	22	36	0	23
0.1a	-7	0	-37	7	34	-5	15	38	5	19	30	10	22	16	12	22	0	12
BOT.	0	0	0	0	36	0	0	39	0	0	30	0	0	16	0	0	0	0

Table 21 Moment Coefficients for Panels having Case 2 Arrangements for *b/a* = 2.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-17	0	-83	0	5	-45	0	9	-3	0	8	25	0	5	41	0	0	46
0.9a	-20	0	-98	-6	3	-42	0	7	-2	3	7	25	5	4	40	6	0	44
0.8a	-19	0	-96	-7	3	-40	2	7	0	8	7	25	12	4	39	13	0	43
0.7a	-19	0	-94	-6	4	-37	5	8	22	14	8	25	19	5	38	20	0	42
0.6a	-19	0	-93	-4	6	-33	10	10	4	19	10	25	25	6	36	27	0	40
0.5a	-18	0	-90	-1	8	-29	14	13	6	25	12	24	31	7	34	33	0	37
0.4a	-17	0	-83	1	12	-23	17	17	7	28	15	23	35	8	30	37	0	33
0.3a	-15	0	-73	4	16	-17	19	21	8	29	17	20	35	10	26	37	0	27
0.2a	-11	0	-56	5	20	-11	18	24	7	26	19	15	30	11	19	32	0	20
0.1a	-6	0	-32	5	24	-5	13	27	4	17	21	8	19	11	10	20	0	11
BOT.	0	0	0	0	26	0	0	28	0	0	22	0	0	12	0	0	0	0

Table 22 Moment Coefficients for Panels having Case 2 Arrangements for *b/a* = 1.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-12	0	-58	0	2	-36	0	4	-4	0	5	19	0	3	33	0	0	37
0.9a	-15	0	-75	-5	0	-34	0	3	-3	2	3	19	4	2	32	4	0	36
0.8a	-15	0	-75	-6	0	-33	1	2	-1	6	3	20	9	2	32	10	0	36
0.7a	-15	0	-77	-5	1	-31	4	3	0	11	4	20	15	3	32	16	0	35
0.6a	-15	0	-77	-4	2	-29	7	5	2	16	5	21	21	3	31	22	0	34
0.5a	-15	0	-77	-2	4	-26	11	8	4	20	8	21	26	5	30	28	0	32
0.4a	-15	0	-73	0	8	-21	14	11	6	24	10	20	30	6	27	32	0	29
0.3a	-13	0	-65	2	12	-16	16	15	6	25	13	18	30	7	23	32	0	25
0.2a	-10	0	-51	4	16	-10	16	19	6	23	15	14	27	8	17	28	0	18
0.1a	-6	0	-30	4	20	-5	11	22	4	15	17	8	17	9	10	18	0	10
BOT.	0	0	0	0	21	0	0	23	0	0	18	0	0	10	0	0	0	0

Table 23 Moment Coefficients for Panels having Case 2 Arrangements for *b/a* = 1.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-8	0	-37	0	1	-27	0	1	-4	0	2	13	0	1	24	0	0	27
0.9a	-11	0	-53	-4	2	-25	-1	0	-3	1	1	14	2	1	24	3	0	27
0.8a	-11	0	-56	-5	2	-25	0	1	-2	4	0	15	6	0	24	7	0	28
0.7a	-12	0	-59	-4	1	-25	2	0	0	7	1	16	11	1	25	12	0	28
0.6a	-12	0	-62	-3	0	-24	5	1	1	12	2	17	16	1	26	17	0	28
0.5a	-13	0	-63	-2	2	-22	8	4	3	16	4	17	20	2	25	22	0	28
0.4a	-12	0	-62	0	4	-19	11	7	4	19	6	17	24	4	24	26	0	26
0.3a	-11	0	-56	1	8	-15	13	11	5	21	9	16	25	5	21	27	0	22
0.2a	-9	0	-45	3	12	-10	13	14	5	19	12	12	23	7	16	24	0	17
0.1a	-5	0	-27	3	15	-5	9	17	3	13	14	7	15	7	9	16	0	9
BOT.	0	0	0	0	17	0	0	19	0	0	14	0	0	8	0	0	0	0

Table 24 Moment Coefficients for Panels having Case 2 Arrangements for *b/a* = 1.25

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-4	0	-20	0	2	-18	0	1	-3	0	0	8	0	0	16	0	0	18
0.9a	-7	0	-34	-3	3	-17	-1	2	-3	0	1	9	1	0	16	1	0	18
0.8a	-8	0	-38	-4	3	-18	0	3	-2	2	2	10	3	1	17	4	0	20
0.7a	-9	0	-43	-3	2	-19	1	2	-1	4	1	11	7	1	19	7	0	21
0.6a	-9	0	-47	-3	2	-19	3	1	0	8	0	13	10	0	20	11	0	22
0.5a	-10	0	-50	-2	0	-19	5	1	2	11	1	14	14	1	20	16	0	22
0.4a	-10	0	-50	-1	2	-17	7	3	3	14	3	14	18	2	20	19	0	22
0.3a	-9	0	-47	0	5	-14	9	7	4	16	6	13	20	3	18	21	0	19
0.2a	-8	0	-39	1	8	-10	10	10	4	15	9	11	19	5	14	20	0	15
0.1a	-5	0	-23	2	11	-5	8	13	3	11	11	6	13	6	8	14	0	9
BOT.	0	0	0	0	13	0	0	14	0	0	11	0	0	6	0	0	0	0

Table 25 Moment Coefficients for Panels having Case 2 Arrangements for *b/a* = 1.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-2	0	-9	0	2	-10	0	1	-2	0	1	4	0	0	8	0	0	10
0.9a	-4	0	-19	-2	2	-10	-1	2	-2	0	2	5	0	1	9	0	0	11
0.8a	-5	0	-23	-2	2	-11	-1	3	-1	1	2	6	1	1	11	1	0	12
0.7a	-6	0	-28	-2	2	-13	0	3	-1	2	2	7	3	1	12	4	0	14
0.6a	-6	0	-32	-2	2	-14	1	2	0	4	2	9	6	1	14	6	0	16
0.5a	-7	0	-36	-2	1	-15	2	1	0	6	1	10	9	0	15	9	0	17
0.4a	-8	0	-38	-2	0	-14	4	1	1	8	1	11	11	1	16	12	0	17
0.3a	-7	0	-37	-1	2	-12	5	3	2	10	3	10	13	2	15	14	0	16
0.2a	-6	0	-32	0	5	-9	6	6	3	11	6	9	14	3	12	14	0	13
0.1a	-4	0	-20	1	8	-4	6	9	2	8	8	5	10	4	7	11	0	7
BOT.	0	0	0	0	9	0	0	11	0	0	8	0	0	5	0	0	0	0

Table 26 Moment Coefficients for Panels having Case 2 Arrangements for *b/a* = 0.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-1	0	-4	0	1	-4	0	1	-1	0	1	2	0	0	3	0	0	4
0.9a	-2	0	-8	-1	1	-4	0	1	-1	0	1	2	0	1	4	0	0	5
0.8a	-2	0	-12	-1	1	-6	0	2	-1	0	1	3	0	1	5	0	0	6
0.7a	-3	0	-15	-1	2	-7	0	2	-1	1	2	4	1	1	7	1	0	8
0.6a	-4	0	-19	-2	1	-9	0	2	-1	2	2	5	2	1	8	3	0	9
0.5a	-5	0	-23	-2	1	-10	1	1	0	3	1	6	4	1	10	4	0	11
0.4a	-5	0	-25	-2	1	-10	1	0	0	4	0	7	5	0	11	6	0	12
0.3a	-5	0	-26	-1	1	-10	2	1	1	5	1	7	7	1	11	8	0	12
0.2a	-5	0	-23	0	2	-8	3	3	1	6	3	6	8	2	9	9	0	10
0.1a	-3	0	-15	0	4	-4	4	6	1	6	5	4	7	3	6	7	0	6
BOT.	0	0	0	0	6	0	0	7	0	0	5	0	0	3	0	0	0	0

Table 27 Moment Coefficients for Panels having Case 2 Arrangements for *b/a* = 0.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	-1	0	0	-1	0	0	0	0	0	0	0	0	1	0	0	1
0.9a	-1	0	-3	0	0	-1	0	0	0	0	0	1	0	0	1	0	0	2
0.8a	-1	0	-4	0	0	-2	0	1	0	0	1	1	0	0	2	0	0	2
0.7a	-1	0	-6	-1	1	-3	0	1	0	0	1	2	0	0	3	1	0	3
0.6a	-2	0	-8	-1	1	-4	0	1	0	0	1	2	1	0	4	1	0	4
0.5a	-2	0	-11	-1	1	-5	0	1	0	1	1	3	1	0	5	1	0	5
0.4a	-2	0	-12	-1	0	-6	0	1	0	1	0	3	2	0	5	2	0	6
0.3a	-3	0	-14	-1	0	-6	0	0	0	2	0	4	2	0	6	3	0	7
0.2a	-3	0	-14	-1	1	-5	1	1	0	3	1	4	3	0	6	4	0	6
0.1a	-2	0	-10	0	2	-3	2	2	1	3	2	3	4	1	4	4	0	4
BOT.	0	0	0	0	3	0	0	3	0	0	3	0	0	2	0	0	0	0

Table 28 Shear Coefficients for Panels having Case 3 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

LOCATION \ b/a	4.0	3.0	2.5	2.0	1.75	1.5	1.25	1.0	0.75	0.5
Bottom edge - midpoint	0.50	0.50	0.48	0.45	0.43	0.40	0.36	0.32	0.26	0.19
Side edge - maximum	0.38	0.37	0.33	0.27	0.26	0.26	0.25	0.24	0.22	0.17
Side edge - midpoint	0.23	0.24	0.25	0.26	0.26	0.26	0.25	0.23	0.19	0.13

Table 29 Deflection Coefficients along Mid-height (*y* = *a*/2) for Panels having Case 3 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

x / b/a	END	0.1b / 0.9b	0.2b / 0.8b	0.3b / 0.7b	0.4b / 0.6b	0.5b
4.0	0	2.60	6.20	8.70	10.10	10.50
3.0	0	1.60	4.20	6.40	7.70	8.10
2.5	0	1.10	3.10	4.80	6.00	6.30
2.0	0	0.70	2.00	3.20	4.00	4.30
1.75	0	0.50	1.50	2.40	3.00	3.20
1.5	0	0.40	1.00	1.70	2.10	2.30
1.25	0	0.20	0.60	1.10	1.40	1.50
1.0	0	0.10	0.30	0.60	0.70	0.80
0.75	0	0.00	0.10	0.20	0.30	0.30
0.5	0	0.00	0.00	0.10	0.10	0.10

Table 30 Deflection Coefficients along Mid-span (x = *b*/2) for Panels having Case 3 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

y / b/a	BOT.	0.1a	0.2a	0.3a	0.4a	0.5a	0.6a	0.7a	0.8a	0.9a	TOP
4.0	0	0.70	2.40	4.70	7.50	10.50	13.60	16.70	19.70	22.70	25.80
3.0	0	0.60	1.90	3.80	5.90	8.10	10.30	12.40	14.40	16.40	18.40
2.5	0	0.50	1.60	3.10	4.70	6.30	7.90	9.30	10.70	12.00	13.20
2.0	0	0.40	1.20	2.20	3.30	4.30	5.10	5.90	6.50	7.10	7.70
1.75	0	0.30	1.00	1.80	2.60	3.20	3.80	4.20	4.60	4.90	5.20
1.5	0	0.20	0.80	1.30	1.90	2.30	2.60	2.80	2.90	3.00	3.10
1.25	0	0.20	0.60	0.90	1.30	1.50	1.60	1.60	1.60	1.50	1.50
1.0	0	0.10	0.40	0.60	0.70	0.80	0.80	0.70	0.70	0.60	0.60
0.75	0	0.10	0.20	0.30	0.30	0.30	0.30	0.30	0.20	0.20	0.10
0.5	0	0.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.00	0.00

Table 31 Moment Coefficients for Panels having Case 3 Arrangements for *b/a* = 4.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-20	0	-99	0	19	-14	0	19	13	0	14	17	0	7	16	0	0	15
0.9a	-20	0	-98	-2	18	-12	2	19	13	3	14	16	3	7	14	3	0	13
0.8a	-17	0	-85	-1	18	-10	5	19	12	6	14	15	5	7	13	5	0	12
0.7a	-15	0	-75	0	18	-7	6	19	11	7	14	13	5	7	11	5	0	10
0.6a	-13	0	-65	2	19	-5	6	20	10	5	13	10	2	6	8	1	0	7
0.5a	-11	0	-56	2	20	-3	4	19	8	-1	13	7	-5	6	5	-6	0	4
0.4a	-9	0	-45	1	20	-1	-3	18	5	-12	11	3	-18	5	0	-20	0	-1
0.3a	-6	0	-32	-3	19	-1	-16	16	1	-29	10	-3	-37	4	-5	-39	0	-6
0.2a	-4	0	-18	-12	16	-2	-35	12	-5	-53	7	-9	-64	3	-12	-67	0	-12
0.1a	-1	0	-5	-27	10	-5	-63	7	-12	-87	4	-17	-99	2	-20	-103	0	-20
BOT.	0	0	0	-50	0	-10	-101	0	-20	-130	0	-26	-145	0	-29	-149	0	-30

Table 32 Moment Coefficients for Panels having Case 3 Arrangements for *b/a* = 3.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-17	0	-87	0	15	-24	0	17	8	0	14	20	0	7	24	0	0	24
0.9a	-18	0	-91	-3	13	-22	2	16	8	4	13	19	5	7	22	5	0	22
0.8a	-16	0	-80	-3	13	-19	4	17	8	7	14	17	8	7	20	9	0	20
0.7a	-14	0	-71	-2	14	-16	6	17	8	10	14	16	11	8	17	11	0	17
0.6a	-13	0	-63	0	15	-12	7	18	8	10	14	14	10	8	14	10	0	14
0.5a	-11	0	-55	1	16	-8	7	19	7	7	14	11	5	7	11	5	0	10
0.4a	-9	0	-44	1	17	-5	3	18	5	-1	13	7	-4	7	6	-6	0	5
0.3a	-6	0	-32	-1	17	-3	-6	17	2	-14	12	1	-21	6	0	-23	0	-1
0.2a	-4	0	-18	-7	15	-2	-21	14	-2	-35	9	-5	-45	5	-7	-48	0	-8
0.1a	-1	0	-5	-17	10	-4	-44	8	-8	-65	5	-12	-78	3	-15	-82	0	-16
BOT.	0	0	0	-35	0	-7	-77	0	-15	-106	0	-21	-122	0	-24	-127	0	-25

Table 33 Moment Coefficients for Panels having Case 3 Arrangements for *b/a* = 2.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-15	0	-77	0	11	-28	0	14	4	0	11	20	0	6	26	0	0	28
0.9a	-16	0	-82	-4	9	-25	1	13	4	4	11	18	5	6	24	5	0	26
0.8a	-15	0	-74	-4	9	-22	3	13	5	7	11	17	9	6	22	10	0	24
0.7a	-13	0	-67	-3	10	-19	6	14	6	10	12	16	13	7	20	13	0	21
0.6a	-12	0	-61	-1	11	-15	7	15	6	12	13	14	13	7	17	14	0	18
0.5a	-11	0	-53	1	13	-11	8	16	6	10	13	12	11	7	14	11	0	14
0.4a	-9	0	-44	1	14	-7	5	16	5	5	13	8	3	7	9	3	0	9
0.3a	-6	0	-32	0	14	-4	-1	16	3	-6	12	4	-10	6	3	-12	0	3
0.2a	-4	0	-18	-4	13	-3	-13	13	-1	-24	10	-2	-31	5	-4	-34	0	-4
0.1a	-1	0	-6	-12	9	-3	-33	9	-6	-51	6	-9	-62	3	-12	-66	0	-12
BOT.	0	0	0	-27	0	-5	-63	0	-13	-89	0	-18	-104	0	-21	-109	0	-22

Table 34 Moment Coefficients for Panels having Case 3 Arrangements for *b/a* = 2.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-12	0	-61	0	6	-27	0	8	0	0	7	17	0	4	25	0	0	28
0.9a	-13	0	-66	-4	5	-25	0	7	1	3	7	16	4	4	24	5	0	26
0.8a	-12	0	-62	-4	5	-23	2	8	2	6	7	16	9	4	22	10	0	24
0.7a	-12	0	-59	-3	5	-20	5	8	3	10	8	15	13	5	21	14	0	22
0.6a	-11	0	-55	-1	7	-16	7	10	4	12	9	14	15	5	19	16	0	20
0.5a	-10	0	-50	0	8	-13	8	12	5	13	10	12	15	6	16	15	0	16
0.4a	-8	0	-42	1	10	-9	7	13	5	10	11	10	10	6	12	10	0	12
0.3a	-6	0	-32	1	11	-5	3	13	3	2	11	6	0	6	6	0	0	6
0.2a	-4	0	-19	-2	11	-3	-6	12	1	-12	9	0	-17	5	0	-19	0	-1
0.1a	-1	0	-6	-8	8	-2	-22	8	-4	-35	6	-6	-44	3	-8	-47	0	-8
BOT.	0	0	0	-20	0	-4	-48	0	-10	-69	0	-14	-82	0	-16	-86	0	-17

Table 35 Moment Coefficients for Panels having Case 3 Arrangements for *b/a* = 1.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-10	0	-48	0	3	-25	0	5	-1	0	5	14	0	3	23	0	0	25
0.9a	-11	0	-55	-3	2	-23	0	4	0	2	4	14	4	3	22	4	0	24
0.8a	-11	0	-54	-4	2	-21	2	4	1	5	5	14	8	3	21	8	0	23
0.7a	-10	0	-52	-3	3	-19	4	5	2	9	5	14	12	3	20	13	0	22
0.6a	-10	0	-50	-1	4	-16	6	7	3	12	6	13	15	4	18	16	0	20
0.5a	-9	0	-47	0	6	-13	8	9	4	13	8	12	15	4	16	16	0	17
0.4a	-8	0	-40	1	8	-10	7	10	4	11	9	10	13	5	12	13	0	13
0.3a	-6	0	-31	1	10	-6	4	12	3	5	9	7	5	5	8	4	0	8
0.2a	-4	0	-19	-1	10	-3	-3	11	1	-7	8	2	-10	4	1	-11	0	1
0.1a	-1	0	-6	-6	0	-2	-17	8	-3	-27	6	-4	-34	3	-6	-36	0	-6
BOT.	0	0	0	-16	0	-3	-40	0	-8	-59	0	-12	-70	0	-14	-73	0	-15

Table 36 Moment Coefficients for Panels having Case 3 Arrangements for *b/a* = 1.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-7	0	-34	0	1	-21	0	3	-2	0	3	11	0	2	19	0	0	21
0.9a	-9	0	-43	-3	0	-19	0	2	-1	2	2	11	3	1	18	3	0	21
0.8a	-9	0	-44	-3	0	-18	1	1	0	4	2	11	6	1	18	7	0	20
0.7a	-9	0	-44	-3	1	-17	3	2	1	7	3	12	10	2	18	11	0	20
0.6a	-9	0	-44	-2	2	-15	5	4	2	10	4	12	13	2	17	14	0	19
0.5a	-9	0	-43	0	4	-13	7	6	3	12	5	11	14	3	15	15	0	17
0.4a	-8	0	-38	0	6	-10	7	8	4	11	7	10	13	4	13	14	0	13
0.3a	-6	0	-30	1	8	-7	5	9	3	7	8	7	8	4	8	8	0	9
0.2a	-4	0	-19	-1	8	-4	-1	10	1	-2	7	3	-4	4	3	-5	0	3
0.1a	-1	0	-6	-4	7	-2	-12	7	-2	-20	5	-3	-25	3	-4	-27	0	-4
BOT.	0	0	0	-13	0	-3	-32	0	-6	-48	0	-10	-57	0	-11	-61	0	-12

Table 37 Moment Coefficients for Panels having Case 3 Arrangements for *b/a* = 1.25

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-4	0	-20	0	1	-15	0	0	-2	0	1	8	0	0	14	0	0	16
0.9a	-6	0	-30	-2	1	-15	0	1	-2	1	0	8	1	0	14	2	0	16
0.8a	-7	0	-33	-3	1	-15	0	1	-1	3	0	9	4	0	14	4	0	16
0.7a	-7	0	-35	-2	1	-14	2	0	0	5	0	9	7	0	15	8	0	16
0.6a	-7	0	-37	-2	0	-14	4	1	1	8	1	10	10	1	15	11	0	16
0.5a	-7	0	-37	-1	2	-12	5	3	2	9	3	10	12	2	14	13	0	15
0.4a	-7	0	-34	0	4	-10	6	5	3	10	5	9	12	3	12	13	0	13
0.3a	-6	0	-28	0	6	-7	5	7	3	8	6	7	9	3	9	10	0	9
0.2a	-4	0	-18	0	7	-4	1	8	2	1	6	4	0	3	4	0	0	4
0.1a	-1	0	-6	-3	6	-2	-8	6	-1	-13	5	-1	-16	3	-2	-18	0	-2
BOT.	0	0	0	-9	0	-2	-25	0	-5	-37	0	-7	-45	0	-9	-48	0	-10

Table 38 Moment Coefficients for Panels having Case 3 Arrangements for *b/a* = 1.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-2	0	-10	0	1	-9	0	1	-2	0	0	4	0	0	8	0	0	9
0.9a	-4	0	-18	-2	2	-9	0	2	-1	0	1	5	0	1	9	1	0	10
0.8a	-4	0	-21	-2	2	-10	0	2	-1	1	1	6	2	1	10	2	0	11
0.7a	-5	0	-25	-2	2	-11	1	2	0	3	1	7	4	1	11	4	0	12
0.6a	-6	0	-28	-2	1	-11	2	1	0	5	0	8	6	0	12	7	0	13
0.5a	-6	0	-30	-1	0	-11	3	1	1	6	1	8	9	1	12	9	0	13
0.4a	-6	0	-29	-1	2	-10	4	3	2	8	2	8	10	1	11	10	0	12
0.3a	-5	0	-25	0	3	-7	4	5	2	7	4	7	9	2	9	9	0	10
0.2a	-3	0	-17	0	5	-4	2	6	1	3	5	4	3	3	5	3	0	5
0.1a	-1	0	-6	-2	5	-2	-4	5	0	-7	44	0	-9	2	0	-10	0	0
BOT.	0	0	0	-6	0	-1	-18	0	-4	-27	0	-5	-33	0	-7	-35	0	-7

Table 39 Moment Coefficients for Panels having Case 3 Arrangements for *b/a* = 0.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-1	0	-4	0	1	-4	0	1	-1	0	1	2	0	0	4	0	0	4
0.9a	-2	0	-8	-1	1	-4	0	1	-1	0	1	2	0	1	4	0	0	5
0.8a	-2	0	-11	-1	1	-6	0	2	-1	0	1	3	1	1	5	1	0	6
0.7a	-3	0	-15	-1	1	-7	0	2	-1	1	1	4	2	1	7	2	0	7
0.6a	-4	0	-18	-1	1	-8	0	1	0	2	1	5	3	1	8	3	0	9
0.5a	-4	0	-21	-1	1	-8	1	1	0	3	0	6	4	0	9	5	0	10
0.4a	-4	0	-22	-1	0	-8	2	1	0	4	1	6	6	0	9	6	0	10
0.3a	-4	0	-20	-1	2	-7	2	2	1	5	2	5	6	1	8	7	0	9
0.2a	-3	0	-15	0	3	-5	2	4	1	3	3	4	4	2	5	5	0	6
0.1a	-1	0	-6	-1	3	-2	-1	4	0	-2	3	1	-3	2	1	3	0	1
BOT.	0	0	0	-4	0	-1	-11	0	-2	-17	0	-3	-21	0	-4	-23	0	-5

Table 40 Moment Coefficients for Panels having Case 3 Arrangements for *b/a* = 0.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	-1	0	0	-1	0	0	0	0	0	0	0	0	1	0	0	1
0.9a	-1	0	-3	0	0	-1	0	0	0	0	0	1	0	0	1	0	0	2
0.8a	-1	0	-4	0	0	-2	0	1	0	0	1	1	0	0	2	0	0	2
0.7a	-1	0	-6	-1	1	-3	0	1	0	0	1	2	0	0	3	1	0	3
0.6a	-2	0	-8	-1	1	-4	0	1	0	0	1	2	1	0	4	1	0	4
0.5a	-2	0	-10	-1	0	-5	0	1	0	1	1	3	1	0	5	1	0	5
0.4a	-2	0	-12	-1	0	-5	0	0	0	1	0	3	2	0	5	2	0	6
0.3a	-2	0	-12	-1	0	-5	1	0	0	2	0	3	3	0	5	3	0	6
0.2a	-2	0	-11	0	1	-4	1	1	0	2	1	3	3	1	4	3	0	5
0.1a	-1	0	-5	0	2	-2	0	2	0	0	2	1	0	1	2	0	0	2
BOT.	0	0	0	-2	0	0	5	0	-1	-9	0	-2	-11	0	-2	-11	0	-2

Table 41 Shear Coefficients for Panels having Case 4 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

LOCATION / b/a	4.0	3.0	2.5	2.0	1.75	1.5	1.25	1.0	0.75	0.5
Bottom edge - midpoint	0.40	0.40	0.40	0.39	0.39	0.38	0.36	0.32	0.26	0.20
Side edge - maximum	0.26	0.26	0.26	0.27	0.26	0.26	0.25	0.24	0.22	0.17
Side edge - midpoint	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.23	0.19	0.13
Top edge - midpoint	0.10	0.11	0.11	0.11	0.11	0.11	0.09	0.07	0.05	0.03

Table 42 Deflection Coefficients along mid-height (*y* = *a*/2) for Panels having Case 4 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

x / b/a	END	0.1b 0.9b	0.2b 0.8b	0.3b 0.7b	0.4b 0.6b	0.5b
4.0	0	1.20	2.00	2.30	2.30	2.30
3.0	0	0.80	1.70	2.10	2.30	2.30
2.5	0	0.60	1.40	1.90	2.20	2.20
2.0	0	0.50	1.10	1.70	1.90	2.00
1.75	0	0.40	1.00	1.50	1.70	1.80
1.5	0	0.30	0.80	1.20	1.50	1.60
1.25	0	0.20	0.50	0.90	1.10	1.20
1.0	0	0.10	0.30	0.50	0.70	0.70
0.75	0	0.00	0.10	0.20	0.30	0.30
0.5	0	0.00	0.00	0.10	0.10	0.10

Table 43 Deflection Coefficients along Mid-span (x = *b*/2) for Panels having Case 4 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

b/a \ y	BOT.	0.1a	0.2a	0.3a	0.4a	0.5a	0.6a	0.7a	0.8a	0.9a	TOP
4.0	0	0.30	0.90	1.50	2.00	2.30	2.40	2.10	1.50	0.80	0
3.0	0	0.30	0.90	1.50	2.00	2.30	2.30	2.00	1.50	0.80	0
2.5	0	0.30	0.80	1.50	2.00	2.20	2.20	2.00	1.50	0.80	0
2.0	0	0.20	0.80	1.40	1.80	2.00	2.00	1.80	1.30	0.70	0
1.75	0	0.20	0.70	1.20	1.60	1.80	1.80	1.60	1.20	0.60	0
1.5	0	0.20	0.60	1.10	1.40	1.60	1.50	1.30	1.00	0.50	0
1.25	0	0.20	0.50	0.80	1.10	1.20	1.10	1.00	0.70	0.40	0
1.0	0	0.10	0.40	0.60	0.70	0.70	0.70	0.60	0.40	0.20	0
0.75	0	0.10	0.20	0.30	0.30	0.30	0.30	0.20	0.20	0.10	0
0.5	0	0.00	0.10	0.10	0.10	0.10	0.10	0.00	0.00	0.00	0

Table 44 Moment Coefficients for Panels having Case 4 Arrangements for *b/a* = 4.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	9	0	0	4	0	0	1	0	0	0	0	0	0	0
0.9a	-2	0	-11	4	9	2	8	4	3	9	1	2	10	0	2	10	0	2
0.8a	-2	0	-21	8	7	4	15	3	5	18	1	4	19	0	4	19	0	4
0.7a	-6	0	-29	11	5	6	21	2	7	25	0	6	25	0	5	25	0	5
0.6a	-7	0	-35	14	2	7	25	0	9	29	0	7	29	0	6	29	0	6
0.5a	-7	0	-37	15	1	8	26	1	9	29	0	7	29	0	6	29	0	6
0.4a	-7	0	-35	14	5	7	22	2	7	24	1	6	24	0	5	24	0	5
0.3a	-6	0	-29	10	7	6	13	3	5	13	1	3	13	0	3	13	0	3
0.2a	-4	0	-18	1	7	2	-3	3	1	-5	1	-1	-5	0	-1	-5	0	-1
0.1a	-1	0	-6	-15	5	-2	-27	2	-5	-31	0	-6	31	0	-6	-31	0	-6
BOT.	0	0	0	-41	0	-8	-61	0	-12	-66	0	-13	-67	0	-13	-67	0	-13

Table 45 Moment Coefficients for Panels having Case 4 Arrangements for *b/a* = 3.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	10	0	0	6	0	0	3	0	0	1	0	0	0	0
0.9a	-2	0	-11	3	9	1	7	6	3	9	3	3	9	1	2	10	0	2
0.8a	-4	0	-21	5	8	2	13	5	6	16	2	5	18	1	4	18	0	4
0.7a	-6	0	-29	7	5	3	18	3	8	23	1	7	25	0	6	25	0	6
0.6a	-7	0	-35	9	2	3	21	1	9	26	0	8	28	0	7	29	0	7
0.5a	-7	0	-37	10	1	4	22	1	9	27	1	8	29	0	7	29	0	7
0.4a	-7	0	-35	10	5	4	19	3	8	23	2	7	24	1	6	24	0	5
0.3a	-6	0	-29	7	7	4	12	5	6	13	2	4	13	1	3	13	0	3
0.2a	-4	0	-18	1	8	2	-1	5	2	-4	2	0	-5	1	-1	-5	0	-1
0.1a	-1	0	-6	-11	6	-1	-23	3	-4	-28	1	-5	-31	0	-6	-31	0	-6
BOT.	0	0	0	-31	0	-6	-54	0	-11	-63	0	-13	-66	0	-13	-66	0	-13

Table 46 Moment Coefficients for Panels having Case 4 Arrangements for *b/a* = 2.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	10	0	0	8	0	0	4	0	0	2	0	0	0	0
0.9a	-2	0	-11	2	9	0	5	7	3	8	4	3	9	2	3	9	0	3
0.8a	-4	0	-21	4	8	0	11	6	5	15	3	6	17	1	5	18	0	5
0.7a	-6	0	-29	5	5	0	15	4	7	21	2	8	23	1	7	24	0	7
0.6a	-7	0	-35	7	2	0	18	1	9	24	0	9	27	0	8	28	0	8
0.5a	-7	0	-37	7	1	1	19	2	9	25	1	9	28	0	8	28	0	8
0.4a	-7	0	-35	7	4	2	17	4	8	22	2	8	23	1	7	24	0	6
0.3a	-6	0	-29	6	7	2	11	6	6	13	3	5	13	1	4	13	0	4
0.2a	-4	0	-18	1	8	1	0	6	2	-2	3	1	-4	1	0	-4	0	0
0.1a	-1	0	-6	-8	7	-1	-19	4	-3	-20	2	-5	-29	1	-6	-30	0	-6
BOT.	0	0	0	-25	0	-5	-49	0	-10	-60	0	-12	-64	0	-13	-65	0	-13

Table 47 Moment Coefficients for Panels having Case 4 Arrangements for *b/a* = 2.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	9	0	0	9	0	0	6	0	0	3	0	0	0	0
0.9a	-2	0	-11	1	9	-1	4	8	2	6	6	3	8	3	3	8	0	3
0.8a	-4	0	-21	2	7	-3	8	7	4	12	4	6	15	2	6	16	0	6
0.7a	-6	0	-29	3	5	-3	11	5	6	17	3	8	21	1	8	22	0	8
0.6a	-7	0	-34	4	2	-3	14	2	7	21	1	10	24	0	10	25	0	9
0.5a	-7	0	-37	5	1	-3	15	1	8	22	1	10	25	1	10	26	0	9
0.4a	-7	0	-35	5	4	-2	14	4	7	19	3	9	22	2	8	22	0	8
0.3a	-6	0	-29	4	7	-1	10	7	6	12	4	6	13	2	5	13	0	5
0.2a	-4	0	-18	1	8	0	1	7	3	-1	4	2	-2	2	1	-3	0	1
0.1a	-1	0	-6	-6	7	-1	-15	5	-2	-22	3	-4	-26	1	-5	-27	0	-5
BOT.	0	0	0	-19	0	-4	-41	0	-8	-54	0	-11	-60	0	-12	-62	0	-12

Table 48 Moment Cefficients for Panels having Case 4 Arangements for *b/a* = 1.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	8	0	0	9	0	0	6	0	0	3	0	0	0	0
0.9a	-2	0	-11	1	8	-2	3	8	2	5	6	3	7	3	4	7	0	4
0.8a	-4	0	-21	1	7	-4	6	7	3	10	5	6	13	2	7	14	0	7
0.7a	-6	0	-29	2	5	-5	9	5	5	15	3	8	18	2	9	19	0	9
0.6a	-7	0	-34	2	2	-6	11	2	6	18	1	10	22	0	11	23	0	11
0.5a	-7	0	-36	3	1	-5	12	1	7	19	1	10	23	1	11	24	0	11
0.4a	-7	0	-35	3	4	-4	12	4	6	17	3	9	20	2	9	21	0	9
0.3a	-6	0	-28	3	6	-3	9	7	5	12	5	7	13	2	6	13	0	6
0.2a	-4	0	-18	1	8	-1	1	8	3	0	5	3	-1	2	2	-1	0	2
0.1a	-1	0	-6	-5	7	-1	-13	6	-2	-19	4	-3	-24	2	-4	-25	0	-4
BOT.	0	0	0	-6	0	0	-36	0	-7	-50	0	-10	-57	0	-11	-59	0	-12

Table 49 Moment Coefficients for Panels having Case 4 Arrangements for *b/a* = 1.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	7	0	0	9	0	0	7	0	0	3	0	0	0	0
0.9a	-2	0	-10	0	7	-3	2	8	1	4	6	3	5	3	4	6	0	4
0.8a	-4	0	-20	0	6	-5	5	7	2	8	5	6	10	3	7	11	0	7
0.7a	-6	0	-28	1	5	-7	7	5	4	12	4	8	15	2	10	16	0	10
0.6a	-7	0	-33	1	2	-8	9	2	4	15	1	10	18	1	11	19	0	12
0.5a	-7	0	-36	2	0	-8	10	1	6	16	1	10	20	1	12	21	0	12
0.4a	-7	0	-34	2	3	-6	10	4	6	15	3	9	18	2	10	19	0	11
0.3a	-6	0	-28	2	6	-4	7	7	4	11	5	7	12	3	8	13	0	8
0.2a	-4	0	-18	0	7	-2	2	8	2	1	6	3	1	3	3	0	0	3
0.1a	-1	0	-6	-4	6	-1	-10	6	1	-16	4	-2	-20	2	-3	-21	0	-3
BOT.	0	0	0	-13	0	-3	-31	0	-6	-44	0	-9	-51	0	-10	-53	0	-11

Table 50 Moment Coefficients for Panels having Case 4 Arrangements for *b/a* = 1.25

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	6	0	0	7	0	0	6	0	0	3	0	0	0	0
0.9a	-2	0	-9	0	6	-3	1	7	1	3	6	3	4	3	4	4	0	4
0.8a	-4	0	-18	0	5	-6	3	6	1	6	5	5	7	3	7	8	0	8
0.7a	-5	0	-25	0	4	-8	4	5	2	8	4	7	11	2	10	11	0	10
0.6a	-6	0	-31	0	2	-9	6	2	3	10	2	9	13	1	12	14	0	12
0.5a	-7	0	-33	0	0	-9	7	0	3	12	1	9	15	0	12	16	0	13
0.4a	-6	0	-32	1	2	-8	7	3	4	12	3	9	15	2	11	16	0	12
0.3a	-5	0	-27	1	5	-6	6	6	3	9	5	7	11	3	8	12	0	9
0.2a	-4	0	-18	0	6	-3	2	7	2	2	6	4	2	3	4	2	0	4
0.1a	-1	0	-6	-3	6	-2	-7	6	-1	-11	4	-1	-15	2	-2	-16	0	-2
BOT.	0	0	0	-9	0	-2	-25	0	-5	-36	0	-7	-43	0	-9	-45	0	-9

Table 51 Moment Coefficients for Panels having Case 4 Arrangements for *b/a* = 1.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	4	0	0	5	0	0	4	0	0	3	0	0	0	0
0.9a	-2	0	-8	0	4	-3	1	5	0	1	4	2	2	2	3	2	0	3
0.8a	-3	0	-15	-1	4	-6	1	5	0	3	4	4	4	2	6	4	0	7
0.7a	-4	0	-21	-1	3	-8	2	4	1	4	3	6	6	2	9	7	0	9
0.6a	-5	0	-26	-1	2	-9	3	2	1	6	2	7	8	1	10	9	0	11
0.5a	-6	0	-29	-1	1	-10	4	0	1	7	0	8	10	0	11	11	0	12
0.4a	-6	0	-28	0	1	-9	4	2	2	8	2	8	11	1	11	11	0	12
0.3a	-5	0	-25	0	3	-7	4	4	2	7	4	7	19	2	9	10	0	9
0.2a	-3	0	-17	0	5	-4	2	6	2	3	5	4	14	3	5	4	0	5
0.1a	-1	0	-6	-2	5	-2	-4	5	0	-7	4	0	-9	2	0	-9	0	0
BOT.	0	0	0	-6	0	-1	-18	0	-4	-27	0	-5	-33	0	-7	-35	0	-7

Table 52 Moment Coefficients for Panels having Case 4 Arrangements for *b/a* = 0.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	2	0	0	3	0	0	2	0	0	1	0	0	0	0
0.9a	-1	0	-5	0	2	-2	0	3	0	0	2	1	1	1	2	1	0	2
0.8a	-2	0	-9	-1	2	-4	0	3	0	1	2	3	1	1	4	2	0	5
0.7a	-3	0	-14	-1	2	-6	0	2	0	2	2	4	2	1	6	3	0	7
0.6a	-4	0	-18	-1	1	-7	1	2	0	2	1	5	3	1	8	4	0	8
0.5a	-4	0	-20	-1	1	-8	1	1	0	3	1	6	5	0	9	5	0	10
0.4a	-4	0	-22	-1	0	-8	2	0	1	4	1	6	6	0	9	6	0	10
0.3a	-4	0	-20	-1	2	-7	2	2	1	5	2	6	6	1	8	7	0	9
0.2a	-3	0	-15	0	3	-5	2	4	1	3	3	4	4	2	5	5	0	6
0.1a	-1	0	-6	-1	3	-2	-1	4	0	-2	3	1	-3	2	1	-3	0	1
BOT.	0	0	0	-4	0	-1	-11	0	-2	-17	0	-3	-21	0	-4	-23	0	-5

Table 53 Moment Coefficients for Panels having Case 4 Arrangements for *b/a* = 0.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0
0.9a	0	0	-2	0	1	-1	0	1	0	0	1	1	0	0	1	0	0	1
0.8a	-1	0	-4	0	1	-2	0	1	0	0	1	1	0	0	2	0	0	2
0.7a	-1	0	-6	-1	1	-3	0	1	0	0	1	2	1	0	3	1	0	3
0.6a	2	0	-8	-1	1	-4	0	1	0	1	1	2	1	0	4	1	0	4
0.5a	2	0	-10	-1	1	-5	0	1	0	1	1	3	1	0	5	1	0	5
0.4a	2	0	-12	-1	0	-6	0	0	0	1	0	3	2	0	5	2	0	6
0.3a	2	0	-12	-1	0	-5	1	0	0	2	0	3	3	0	5	3	0	6
0.2a	2	0	-11	0	1	-4	1	1	0	2	1	3	3	1	4	3	0	5
0.1a	-1	0	-5	0	2	-2	0	2	0	0	2	1	0	1	2	0	0	2
BOT.	0	0	0	-2	0	0	-5	0	-1	-9	0	-2	-11	0	-2	-11	0	-2

Table 54 Shear Coefficients for Panels having Case 5 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

LOCATION / b/a	4.0	3.0	2.5	2.0	1.75	1.5	1.25	1.0	0.75	0.5
Bottom edge - midpoint	0.33	0.33	0.32	0.32	0.31	0.29	0.27	0.25	0.21	0.15
Side edge - maximum	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.18	0.14
Side edge - midpoint	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.17	0.15	0.12
Top edge - midpoint	0.17	0.16	0.16	0.15	0.11	0.13	0.11	0.06	0.06	0.03

Table 55 Deflection Coefficients along Mid-height (*y* = *a*/2) for Panels having Case 5 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

x / b/a	END	0.1b 0.9b	0.2b 0.8b	0.3b 0.7b	0.4b 0.6b	0.5b
4.0	0	3.50	5.30	6.10	6.30	6.40
3.0	0	2.80	4.60	5.50	6.00	6.10
2.5	0	2.30	4.00	5.10	5.60	5.70
2.0	0	1.90	3.30	4.30	4.90	5.10
1.75	0	1.60	2.90	3.80	4.40	4.50
1.5	0	1.30	2.40	3.20	3.70	3.90
1.25	0	1.00	1.90	2.50	2.90	3.00
1.0	0	0.70	1.20	1.70	1.90	2.00
0.75	0	0.30	0.60	0.90	1.00	1.00
0.5	0	0.10	0.20	0.30	0.30	0.30

Table 56 Deflection Coefficients along Mid-span (x = *b*/2) for Panels having Case 5 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

y / b/a	BOT.	0.1a	0.2a	0.3a	0.4a	0.5a	0.6a	0.7a	0.8a	0.9a	TOP
4.0	0	2.10	4.00	5.40	6.20	6.40	6.00	5.00	3.60	1.90	0
3.0	0	2.00	3.80	5.20	5.90	6.10	5.70	4.80	3.40	1.80	0
2.5	0	1.90	3.60	4.90	5.60	5.70	5.40	4.50	3.20	1.70	0
2.0	0	1.70	3.20	4.30	4.90	5.10	4.70	3.90	2.80	1.50	0
1.75	0	1.60	2.90	3.90	4.40	4.50	4.20	3.50	2.50	1.30	0
1.5	0	1.30	2.50	3.30	3.80	3.90	3.60	3.00	2.10	1.10	0
1.25	0	1.10	2.00	2.60	3.00	3.00	2.80	2.30	1.60	0.80	0
1.0	0	0.80	1.40	1.80	2.00	2.00	1.90	1.50	1.10	0.60	0
0.75	0	0.40	0.80	1.00	1.10	1.00	0.90	0.80	0.50	0.30	0
0.5	0	0.20	0.30	0.30	0.30	0.30	0.30	0.20	0.10	0.10	0

Table 57 Moment Coefficients for Panels having Case 5 Arrangements for *b/a* = 4.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	23	0	0	16	0	0	7	0	0	3	0	0	1	0	0	0	0
0.9a	0	22	0	9	15	5	13	7	5	15	3	4	16	1	4	16	0	3
0.8a	0	20	0	17	13	9	26	6	9	30	2	8	31	1	7	32	0	7
0.7a	0	16	0	24	10	13	37	4	12	42	2	11	44	1	10	45	0	10
0.6a	0	10	0	31	6	16	46	2	15	52	1	13	55	0	12	55	0	12
0.5a	0	3	0	35	1	18	52	0	17	59	0	14	61	0	13	62	0	13
0.4a	0	5	0	37	4	18	55	2	17	60	1	15	63	0	14	63	0	13
0.3a	0	13	0	36	9	17	51	4	15	56	2	14	58	1	13	59	0	12
0.2a	0	21	0	30	14	13	42	6	12	46	2	11	47	1	10	48	0	10
0.1a	0	27	0	19	17	8	25	7	7	27	3	6	28	1	6	28	0	6
BOT.	0	31	0	0	18	0	0	8	0	0	3	0	0	1	0	0	0	0

Table 58 Moment Coefficients for Panels having Case 5 Arrangements for *b/a* = 3.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	23	0	0	18	0	0	11	0	0	6	0	0	2	0	0	0	0
0.9a	0	22	0	7	18	4	11	10	5	14	5	4	15	2	4	15	0	4
0.8a	0	20	0	13	15	8	22	9	9	27	5	9	29	2	8	30	0	8
0.7a	0	16	0	19	12	12	32	7	13	39	3	12	42	1	11	43	0	11
0.6a	0	10	0	24	7	15	70	4	16	48	2	15	52	1	13	53	0	13
0.5a	0	3	0	28	2	17	45	0	18	54	0	16	58	0	15	59	0	14
0.4a	0	5	0	30	5	17	47	3	18	56	2	16	60	1	15	61	0	15
0.3a	0	13	0	29	11	16	45	6	17	53	3	15	56	1	14	57	0	13
0.2a	0	21	0	25	16	13	37	9	13	43	5	12	45	2	11	46	0	11
0.1a	0	27	0	16	20	8	23	11	8	26	5	7	27	2	6	27	0	6
BOT.	0	31	0	0	21	0	0	12	0	0	6	0	0	2	0	0	0	0

Table 59 Moment Coefficients for Panels having Case 5 Arrangements for *b/a* = 2.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	23	0	0	19	0	0	13	0	0	7	0	0	3	0	0	0	0
0.9a	0	22	0	6	19	4	10	12	5	13	7	5	14	3	4	14	0	4
0.8a	0	20	0	11	16	8	20	11	10	25	6	9	27	3	9	28	0	8
0.7a	0	16	0	17	13	11	28	8	14	35	5	13	39	2	12	40	0	12
0.6a	0	10	0	21	8	14	35	5	17	44	3	16	48	1	15	50	0	14
0.5a	0	3	0	24	2	16	40	1	18	50	0	18	55	0	16	56	0	16
0.4a	0	5	0	26	5	16	42	4	19	52	2	18	56	1	17	58	0	16
0.3a	0	13	0	25	11	15	41	8	17	49	4	16	53	2	15	54	0	15
0.2a	0	21	0	22	17	13	34	11	14	40	6	13	43	3	12	44	0	13
0.1a	0	27	0	14	21	7	21	13	8	24	7	7	26	3	7	26	0	7
BOT.	0	31	0	0	23	0	0	14	0	0	8	0	0	3	0	0	0	0

Table 60 Moment Coefficients for Panels having Case 5 Arrangements for *b/a* = 2.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	23	0	0	20	0	0	15	0	0	9	0	0	4	0	0	0	0
0.9a	0	22	0	5	19	4	8	14	5	11	9	5	12	4	5	13	0	5
0.8a	0	19	0	9	17	7	16	12	10	21	8	10	24	4	10	25	0	10
0.7a	0	15	0	13	13	10	23	9	14	30	6	14	34	3	14	35	0	14
0.6a	0	10	0	17	5	13	30	6	17	38	3	17	43	2	17	44	0	17
0.5a	0	3	0	20	2	14	34	1	19	43	0	19	48	0	19	50	0	18
0.4a	0	4	0	21	4	15	36	4	19	45	3	19	50	1	19	52	0	18
0.3a	0	12	0	21	11	14	35	9	17	43	5	17	48	3	17	49	0	17
0.2a	0	21	0	18	18	12	30	13	14	36	8	14	40	4	13	11	0	13
0.1a	0	27	0	12	22	7	19	16	8	22	9	8	24	4	8	25	0	8
BOT.	0	30	0	0	24	0	0	17	0	0	10	0	0	5	0	0	0	0

Table 61 Moment Coefficients for Panels having Case 5 Arrangements for *b/a* = 1.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	22	0	0	20	0	0	15	0	0	10	0	0	5	0	0	0	0
0.9a	0	21	0	4	19	3	7	15	5	10	10	5	11	5	5	11	0	5
0.8a	0	19	0	8	17	7	14	13	10	19	8	10	21	4	11	22	0	11
0.7a	0	15	0	11	13	10	21	10	14	27	6	15	31	3	15	32	0	15
0.6a	0	10	0	15	8	12	26	6	17	34	4	18	38	2	18	40	0	18
0.5a	0	3	0	17	2	14	30	1	19	39	1	20	44	0	20	45	0	20
0.4a	0	4	0	18	4	14	32	4	19	41	3	20	46	1	20	48	0	20
0.3a	0	12	0	18	11	13	31	9	17	40	6	18	44	3	18	45	0	18
0.2a	0	20	0	16	18	11	27	13	14	33	8	14	37	4	14	38	0	14
0.1a	0	26	0	11	23	7	17	16	8	21	10	8	22	5	8	23	0	8
BOT.	0	30	0	0	25	0	0	17	0	0	11	0	0	5	0	0	0	0

Table 62 Moment Coefficients for Panels having Case 5 Arrangements for *b/a* = 1.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	21	0	0	19	0	0	15	0	0	10	0	0	5	0	0	0	0
0.9a	0	20	0	3	18	3	6	14	5	8	10	6	9	5	6	10	0	6
0.8a	0	18	0	6	16	6	12	13	9	16	9	11	18	4	11	19	0	11
0.7a	0	14	0	9	13	9	17	10	13	23	7	15	26	3	16	27	0	16
0.6a	0	19	0	12	8	11	22	6	16	29	4	19	33	2	19	34	0	19
0.5a	0	3	0	14	3	13	25	2	18	33	1	20	38	0	20	39	0	20
0.4a	0	4	0	15	4	13	27	4	19	35	3	21	40	1	21	42	0	21
0.3a	0	11	0	16	11	13	27	9	17	35	6	19	39	3	19	40	0	19
0.2a	0	19	0	14	17	11	24	13	14	30	9	15	33	4	15	34	0	15
0.1a	0	25	0	10	22	6	15	17	8	19	11	9	20	5	9	21	0	9
BOT.	0	28	0	0	24	0	0	18	0	0	12	0	0	6	0	0	0	0

Table 63 Moment Coefficients for Panels having Case 5 Arrangements for *b/a* = 1.25

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	18	0	0	17	0	0	14	0	0	10	0	0	5	0	0	0	0
0.9a	0	18	0	2	17	3	5	13	5	6	9	6	7	5	6	7	0	6
0.8a	0	16	0	5	15	6	9	12	9	12	8	11	14	4	12	14	0	12
0.7a	0	13	0	7	12	8	13	9	13	17	6	15	20	3	16	21	0	17
0.6a	0	8	0	9	8	10	17	6	16	22	4	19	26	2	20	27	0	20
0.5a	0	3	0	11	3	11	20	2	18	26	1	21	30	0	22	31	0	22
0.4a	0	3	0	12	3	12	22	3	18	29	2	21	33	1	22	34	0	22
0.3a	0	10	0	12	10	12	22	8	17	28	6	19	32	3	20	34	0	20
0.2a	0	17	0	11	16	10	20	13	14	25	9	15	28	4	16	29	0	16
0.1a	0	23	0	8	21	6	13	16	8	16	11	9	18	5	9	18	0	9
BOT.	0	26	0	0	23	0	0	17	0	0	12	0	0	6	0	0	0	0

Table 64 Moment Coefficients for Panels having Case 5 Arrangements for *b/a* = 1.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	15	0	0	14	0	0	11	0	0	8	0	0	4	0	0	0	0
0.9a	0	14	0	2	13	2	3	11	4	4	8	5	5	4	6	5	0	6
0.8a	0	13	0	3	12	5	6	10	8	8	7	10	9	4	11	10	0	11
0.7a	0	11	0	5	10	7	9	8	11	12	6	14	14	3	16	14	0	16
0.6a	0	7	0	6	7	9	11	5	14	15	4	18	18	2	19	18	0	20
0.5a	0	3	0	8	3	10	14	2	16	18	1	20	21	1	22	22	0	22
0.4a	0	2	0	9	2	10	15	2	17	21	2	20	24	1	22	25	0	22
0.3a	0	8	0	9	8	10	16	6	16	21	5	19	24	2	20	25	0	20
0.2a	0	14	0	8	13	9	15	11	13	19	8	15	22	4	16	23	0	16
0.1a	0	19	0	6	18	5	10	14	8	13	10	9	14	5	9	15	0	9
BOT.	0	22	0	0	20	0	0	16	0	0	11	0	0	5	0	0	0	0

Table 65 Moment Coefficients for Panels having Case 5 Arrangements for *b/a* = 0.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	9	0	0	9	0	0	7	0	0	5	0	0	3	0	0	0	0
0.9a	0	9	0	1	9	2	1	7	3	2	5	4	2	3	5	2	0	5
0.8a	0	9	0	2	8	4	3	7	6	4	5	8	5	2	9	5	0	10
0.7a	0	7	0	2	7	5	5	6	9	6	4	12	7	2	13	7	0	14
0.6a	0	5	0	3	5	7	6	4	11	8	3	15	9	1	16	10	0	17
0.5a	0	3	0	4	2	8	8	2	13	10	1	17	12	1	19	12	0	19
0.4a	0	1	0	5	1	8	9	1	14	12	1	17	14	0	19	15	0	20
0.3a	0	5	0	6	5	8	10	4	13	13	3	16	15	2	18	16	0	19
0.2a	0	9	0	5	9	7	10	7	11	13	5	13	15	3	15	15	0	15
0.1a	0	14	0	4	13	4	7	11	7	9	7	8	11	4	8	11	0	9
BOT.	0	17	0	0	15	0	0	12	0	0	8	0	0	4	0	0	0	0

Table 66 Moment Coefficients for Panels having Case 5 Arrangements for *b/a* = 0.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	4	0	0	4	0	0	3	0	0	2	0	0	1	0	0	0	0
0.9a	0	4	0	0	4	1	0	3	2	1	2	2	1	1	3	1	0	3
0.8a	0	4	0	1	3	2	1	3	4	1	2	5	2	1	5	2	0	6
0.7a	0	3	0	1	3	3	2	3	5	2	2	7	2	1	8	2	0	8
0.6a	0	3	0	1	3	4	2	2	7	3	2	9	3	1	10	3	0	11
0.5a	0	2	0	2	2	5	3	1	8	4	1	11	4	1	12	5	0	12
0.4a	0	1	0	2	0	5	4	0	9	5	0	12	6	0	13	6	0	14
0.3a	0	1	0	2	1	5	4	1	9	6	1	11	7	0	13	7	0	13
0.2a	0	4	0	3	4	5	5	3	8	6	2	10	7	1	11	8	0	11
0.1a	0	7	0	2	7	3	4	6	5	5	4	6	6	2	7	6	0	7
BOT.	0	9	0	0	9	0	0	7	0	0	5	0	0	2	0	0	0	0

Table 67 Shear Coefficients for Panels having Case 6 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3)

LOCATION \ b/a	4.0	3.0	2.5	2.0	1.75	1.5	1.25	1.0	0.75	0.5
Bottom edge - midpoint	0.50	0.48	0.47	0.43	0.40	0.36	0.31	0.24	0.18	0.12
Side edge - maximum	0.74	0.74	0.74	0.72	0.70	0.67	0.60	0.52	0.40	0.26
Side edge - midpoint	0.74	0.74	0.74	0.72	0.70	0.67	0.60	0.52	0.40	0.26
Top edge - midpoint	0.50	0.48	0.47	0.43	0.40	0.36	0.31	0.24	0.18	0.12

Table 68 Deflection Coefficients along Mid-height (*y* = *a*/2) for Panels having Case 6 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

x / b/a	END	0.1b / 0.9b	0.2b / 0.8b	0.3b / 0.7b	0.4b / 0.6b	0.5b
4.0	0	4.60	9.30	11.60	12.40	12.70
3.0	0	3.10	7.20	9.90	11.30	11.70
2.5	0	2.40	5.90	8.50	10.00	10.50
2.0	0	1.60	4.30	6.60	8.00	8.40
1.75	0	1.20	3.40	5.30	6.60	7.00
1.5	0	0.90	2.50	4.00	5.00	5.30
1.25	0	0.50	1.60	2.60	3.30	3.50
1.0	0	0.30	0.80	1.40	1.80	1.90
0.75	0	0.10	0.30	0.50	0.70	0.70
0.5	0	0.00	0.10	0.10	0.20	0.20

Table 69 Deflection Coefficients along Mid-span (x = *b*/2) for Panels having Case 6 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

y / b/a	BOT	0.1a	0.2a	0.3a	0.4a	0.5a	0.6a	0.7a	0.8a	0.9a	TOP
4.0	0	4.00	7.50	10.30	12.10	12.70	12.10	10.30	7.50	4.00	0
3.0	0	3.70	6.90	9.50	11.10	11.70	11.10	9.50	6.90	3.70	0
2.5	0	3.30	6.30	8.50	10.00	10.50	10.00	8.50	6.30	3.30	0
2.0	0	2.70	5.00	6.90	8.00	8.40	8.00	6.90	5.00	2.70	0
1.75	0	2.20	4.20	5.70	6.70	7.00	6.70	5.70	4.20	2.20	0
1.5	0	1.70	3.20	4.40	5.10	5.30	5.10	4.40	3.20	1.70	0
1.25	0	1.20	2.20	2.90	3.40	3.50	3.40	2.90	2.20	1.20	0
1.0	0	0.70	1.20	1.60	1.80	1.90	1.80	1.60	1.20	0.70	0
0.75	0	0.30	0.50	0.60	0.70	0.70	0.70	0.60	0.50	0.30	0
0.5	0	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.10	0.10	0

Table 70 Moment Coefficients for Panels having Case 6 Arrangements for *b/a* = 4.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	37	0	0	21	0	0	9	0	0	3	0	0	0	0
0.9a	-9	0	-45	20	36	7	35	20	12	41	9	11	43	3	10	44	0	10
0.8a	-16	0	-80	32	30	12	60	17	21	73	7	19	77	2	18	78	0	17
0.7a	-21	0	-105	39	22	15	78	13	28	95	5	25	101	2	23	103	0	22
0.6a	-24	0	-120	43	12	17	88	7	32	108	3	299	115	1	27	117	0	26
0.5a	-25	0	-125	44	0	18	91	0	34	112	0	31	120	0	28	122	0	27
0.4a	-24	0	-120	43	12	17	88	7	32	108	3	29	115	1	27	117	0	26
0.3a	-21	0	-105	39	22	15	78	13	28	95	5	25	101	2	23	103	0	22
0.2a	-16	0	-80	32	30	12	60	17	21	73	7	19	77	2	18	78	0	17
0.1a	-9	0	-45	20	36	7	35	20	12	41	9	11	43	3	10	44	0	10
BOT.	0	0	0	0	37	0	0	21	0	0	9	0	0	3	0	0	0	0

Table 71 Moment Coefficients for Panels having Case 6 Arrangements for *b/a* = 3.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	38	0	0	29	0	0	16	0	0	7	0	0	0	0
0.9a	-9	0	-45	14	36	2	28	28	11	36	16	12	40	7	11	41	0	11
0.8a	-16	0	-80	21	30	3	48	24	220	64	13	21	71	6	20	73	0	19
0.7a	-21	0	-105	25	22	3	62	17	26	83	10	28	93	4	27	96	0	26
0.6a	-24	0	-120	27	12	3	69	9	30	94	5	32	106	2	31	109	0	30
0.5a	-25	0	-125	28	0	3	72	0	31	97	0	34	110	0	32	114	0	31
0.4a	-24	0	-120	27	12	3	69	9	30	94	5	32	106	2	31	109	0	30
0.3a	-21	0	-105	25	22	3	62	17	26	83	10	28	93	4	27	96	0	26
0.2a	-16	0	-80	21	30	3	48	24	20	64	13	21	71	6	20	73	0	19
0.1a	-9	0	-45	14	36	2	28	28	11	36	16	12	40	7	11	41	0	11
BOT.	0	0	0	0	37	0	0	29	0	0	16	0	0	7	0	0	0	0

Table 72 Moment Coefficients for Panels having Case 6 Arrangements for *b/a* = 2.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	37	0	0	33	0	0	21	0	0	10	0	0	0	0
0.9a	-9	0	-44	10	35	-1	24	31	10	32	20	12	37	9	12	38	0	12
0.8a	-16	0	-79	15	29	-3	40	26	18	56	17	22	65	8	22	67	0	22
0.7a	-21	0	-104	18	21	-5	51	19	23	72	12	29	84	6	29	87	0	29
0.6a	-24	0	-118	18	11	-7	56	10	26	82	7	34	95	3	34	99	0	33
0.5a	-25	0	-123	19	0	-8	58	0	27	85	0	35	99	0	35	103	0	35
0.4a	-24	0	-118	18	11	-7	56	10	26	82	7	34	95	3	34	99	0	33
0.3a	-21	0	-104	18	21	-5	51	19	23	72	12	29	84	6	29	87	0	29
0.2a	-16	0	-79	15	29	-3	40	26	18	56	17	22	65	8	22	67	0	22
0.1a	-9	0	-44	10	35	-1	24	31	10	32	20	12	37	9	12	38	0	12
BOT.	0	0	0	0	37	0	0	33	0	0	21	0	0	10	0	0	0	0

Table 73 Moment Coefficients for Panels having Case 6 Arrangements for *b/a* = 2.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	33	0	0	33	0	0	24	0	0	12	0	0	0	0
0.9a	-9	0	-43	7	31	-5	19	32	8	27	23	12	31	11	13	32	0	13
0.8a	-15	0	-77	9	26	-10	30	27	14	45	19	22	53	10	24	56	0	24
0.7a	-20	0	-100	10	18	-15	37	19	18	57	14	29	69	7	32	72	0	33
0.6a	-23	0	-114	9	9	-19	41	10	20	64	8	33	77	4	37	82	0	38
0.5a	-24	0	-119	9	0	-20	42	0	21	66	0	35	80	0	39	85	0	39
0.4a	-23	0	-114	9	9	-19	41	10	20	64	8	33	77	4	37	82	0	38
0.3a	-20	0	-100	10	18	-15	37	19	18	57	14	29	69	7	32	72	0	33
0.2a	-15	0	-77	9	26	-10	30	27	14	45	19	22	53	10	24	56	0	24
0.1a	-9	0	-43	7	31	-5	19	32	8	27	23	12	31	11	13	32	0	13
BOT.	0	0	0	0	33	0	0	33	0	0	24	0	0	12	0	0	0	0

Table 74 Moment Coefficients for Panels having Case 6 Arrangements for *b/a* = 1.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	30	0	0	32	0	0	24	0	0	12	0	0	0	0
0.9a	-8	0	-42	5	28	-6	16	30	6	23	23	12	27	12	14	28	0	14
0.8a	-15	0	-73	6	23	-13	25	26	11	38	19	21	46	10	25	48	0	25
0.7a	-19	0	-96	6	16	-20	30	18	14	47	14	28	58	7	33	61	0	34
0.6a	-22	0	-109	5	8	-24	32	10	15	52	7	32	65	4	38	69	0	39
0.5a	-23	0	-104	5	0	-25	33	0	16	54	0	33	67	0	39	71	0	41
0.4a	-22	0	-109	5	8	-24	32	10	15	52	7	32	65	4	38	69	0	39
0.3a	-19	0	-96	6	16	-20	30	18	14	47	14	28	58	7	33	61	0	34
0.2a	-15	0	-73	6	23	-13	25	26	11	38	19	21	46	10	25	48	0	25
0.1a	-8	0	-42	5	28	-6	16	30	6	23	23	12	27	12	14	28	0	14
BOT.	0	0	0	0	30	0	0	32	0	0	24	0	0	12	0	0	0	0

Table 75 Moment Coefficients for Panels having Case 6 Arrangements for *b/a* = 1.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	26	0	0	29	0	0	22	0	0	12	0	0	0	0
0.9a	-8	0	-39	3	24	-8	12	27	5	19	21	11	22	11	13	23	0	14
0.8a	-14	0	-68	3	19	-16	19	23	8	30	18	19	37	10	24	39	0	25
0.7a	-18	0	-89	2	13	-23	22	16	10	36	13	25	46	7	32	49	0	34
0.6a	-20	0	-101	1	7	-28	23	8	11	40	7	29	52	4	37	54	0	39
0.5a	-21	0	-105	1	0	-29	23	0	11	41	0	30	52	0	39	55	0	41
0.4a	-20	0	-101	1	7	-28	23	8	11	40	7	29	50	4	37	54	0	39
0.3a	-18	0	-89	2	13	-23	22	16	10	36	13	25	46	7	32	49	0	34
0.2a	-14	0	-68	3	19	-16	19	23	8	30	18	19	37	10	24	39	0	25
0.1a	-8	0	-39	3	24	-8	12	27	5	19	21	11	22	11	13	23	0	14
BOT.	0	0	0	0	26	0	0	29	0	0	22	0	0	12	0	0	0	0

Table 76 Moment Coefficients for Panels having Case 6 Arrangements for *b/a* = 1.25

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	20	0	0	23	0	0	19	0	0	10	0	0	0	0
0.9a	-7	0	-34	2	19	-8	9	22	3	14	18	9	17	10	12	18	0	13
0.8a	-12	0	-60	1	15	-17	13	18	5	21	15	17	27	8	22	29	0	24
0.7a	-15	0	-77	-1	10	-24	14	13	6	25	10	22	32	6	30	34	0	32
0.6a	-17	0	-87	-2	5	-29	14	6	6	27	5	25	34	3	34	37	0	37
0.5a	-18	0	-90	-2	0	-30	14	0	6	27	0	26	35	0	35	38	0	38
0.4a	-17	0	-87	-2	5	-29	14	6	6	27	5	25	34	3	34	37	0	37
0.3a	-15	0	-77	-1	10	-24	14	13	6	25	10	22	32	6	30	34	0	32
0.2a	-12	0	-60	1	15	-17	13	18	5	21	15	17	27	8	22	29	0	24
0.1a	-7	0	-34	2	19	-8	9	22	3	14	18	9	17	10	12	18	0	13
BOT.	0	0	0	0	20	0	0	23	0	0	19	0	0	10	0	0	0	0

Table 77 Moment Coefficients for Panels having Case 6 Arrangements for *b/a* = 1.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	14	0	0	16	0	0	13	0	0	7	0	0	0	0
0.9a	-6	0	-28	1	12	-8	6	15	2	10	13	8	12	7	10	13	0	11
0.8a	-10	0	-48	-1	9	-16	7	12	3	14	10	13	17	6	19	19	0	20
0.7a	-12	0	-60	-2	6	-22	7	8	2	15	7	17	19	4	24	21	0	27
0.6a	-14	0	-68	-3	3	-25	7	4	2	15	4	19	20	2	28	21	0	30
0.5a	-14	0	-70	-3	0	-27	6	0	2	15	0	19	20	0	29	22	0	32
0.4a	-14	0	-68	-3	3	-25	7	4	2	15	4	19	20	2	28	21	0	30
0.3a	-12	0	-60	-2	6	-22	7	8	2	15	7	17	19	4	24	21	0	27
0.2a	-10	0	-48	-1	9	-16	7	12	3	14	10	13	17	6	19	19	0	20
0.1a	-6	0	-28	1	12	-8	6	15	2	10	13	8	12	7	10	13	0	11
BOT.	0	0	0	0	14	0	0	16	0	0	13	0	0	7	0	0	0	0

Table 78 Moment Coefficients for Panels having Case 6 Arrangements for *b/a* = 0.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	8	0	0	10	0	0	8	0	0	4	0	0	0	0
0.9a	-4	0	-20	0	7	-6	4	8	1	6	7	5	7	4	8	8	0	8
0.8a	-7	0	-33	-1	4	-12	3	6	1	7	5	9	9	3	13	10	0	15
0.7a	-8	0	-40	-2	3	-16	3	4	0	7	3	11	9	2	17	10	0	19
0.6a	-9	0	-44	-3	1	-18	2	2	0	6	2	12	8	1	19	9	0	21
0.5a	-9	0	-45	-3	0	-19	2	0	0	6	0	12	8	0	19	9	0	22
0.4a	-9	0	-44	-3	1	-18	2	2	0	6	2	12	8	1	19	9	0	21
0.3a	-8	0	-40	-2	3	-16	3	4	0	7	3	11	9	2	17	10	0	19
0.2a	-7	0	-33	-1	4	-12	3	6	1	7	4	9	9	3	13	10	0	15
0.1a	-4	0	-20	0	7	-6	4	8	1	6	7	5	7	4	8	8	0	8
BOT.	0	0	0	0	8	0	0	10	0	0	8	0	0	4	0	0	0	0

Table 79 Moment Coefficients for Panels having Case 6 Arrangements for *b/a* = 0.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	4	0	0	4	0	0	3	0	0	2	0	0	0	0
0.9a	-2	0	-12	0	2	-4	2	3	1	3	3	3	4	2	5	4	0	5
0.8a	-4	0	-18	-1	1	-7	1	2	0	3	2	5	4	1	7	4	0	8
0.7a	-4	0	-20	-2	0	-9	0	1	0	2	1	5	3	0	9	3	0	10
0.6a	-4	0	-21	-2	0	-9	0	0	1	2	0	5	2	0	9	3	0	10
0.5a	-4	0	-21	-2	0	-10	0	0	1	1	0	6	2	0	9	3	0	10
0.4a	-4	0	-21	-2	0	-9	0	0	1	2	0	5	2	0	9	3	0	10
0.3a	-4	0	-20	-2	0	-9	0	1	0	2	1	5	3	0	9	3	0	10
0.2a	-4	0	-18	-1	1	-7	1	2	0	3	2	5	4	1	7	4	0	8
0.1a	-2	0	-12	0	2	-4	2	3	1	3	3	3	4	2	5	4	0	5
BOT.	0	0	0	0	4	0	0	4	0	0	3	0	0	2	0	0	0	0

Table 80 Shear Coefficients for Panels having Case 7 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

LOCATION \ b/a	4.0	3.0	2.5	2.0	1.75	1.5	1.25	1.0	0.75	0.5
Bottom edge - midpoint	0.68	0.61	0.52	0.45	0.40	0.35	0.30	0.24	0.18	0.12
Side edge - maximum	3.74	2.61	2.10	1.45	1.30	1.00	0.78	0.58	0.40	0.26
Side edge - midpoint	1.17	1.02	0.94	0.83	0.76	0.69	0.60	0.50	0.38	0.25

Table 81 Deflection Coefficients along Mid-height (*y* = *a*/2) for Panels having Case 7 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

x / b/a	END	0.1b / 0.9b	0.2b / 0.8b	0.3b / 0.7b	0.4b / 0.6b	0.5b
4.0	0	29.90	84.90	134.90	167.90	179.30
3.0	0	12.40	36.50	59.60	75.40	80.90
2.5	0	7.00	20.80	34.50	43.90	47.20
2.0	0	3.40	10.20	17.10	21.90	23.60
1.75	0	2.20	6.60	11.00	14.20	15.30
1.5	0	1.30	3.90	6.60	8.50	9.20
1.25	0	0.70	2.10	3.50	4.60	4.90
1.0	0	0.30	0.90	1.60	2.10	2.30
0.75	0	0.10	0.30	0.60	0.70	0.80
0.5	0	0.00	0.10	0.10	0.10	0.20

Table 82 Deflection Coefficients along Mid-span (x = *b*/2) for Panels having Case 7 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

y / b/a	BOT.	0.1a	0.2a	0.3a	0.4a	0.5a	0.6a	0.7a	0.8a	0.9a	TOP
4.0	0	36.90	73.50	109.50	144.80	179.30	213.00	246.10	278.70	311.00	343.40
3.0	0	17.10	33.80	50.20	65.80	80.90	95.40	109.30	122.80	136.30	149.80
2.5	0	10.20	20.20	29.70	38.70	47.20	55.20	62.80	70.10	77.20	84.50
2.0	0	5.30	10.40	15.20	19.60	23.60	27.20	30.50	33.60	36.70	39.80
1.75	0	3.60	7.00	10.10	12.90	15.30	17.50	19.40	21.20	22.90	24.70
1.5	0	2.30	4.40	6.20	7.80	9.20	10.30	11.30	12.20	13.00	13.90
1.25	0	1.30	2.50	3.50	4.30	4.90	5.40	5.80	6.20	6.50	6.90
1.0	0	0.70	1.20	1.70	2.00	2.30	2.40	2.50	2.60	2.70	2.80
0.75	0	0.30	0.50	0.60	0.70	0.80	0.80	0.80	0.80	0.80	0.90
0.5	0	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table 83 Moment Coefficients for Panels having Case 7 Arrangements for *b/a* = 4.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-177	0	-885	0	189	-240	0	202	69	0	156	199	0	84	252	0	0	266
0.9a	-199	0	-995	-26	178	-225	11	197	64	28	155	186	36	83	235	38	0	248
0.8a	-169	0	-845	-39	176	-206	21	197	60	50	155	172	64	84	217	67	0	229
0.7a	-144	0	-722	-40	179	-186	29	200	56	66	157	157	83	85	197	88	0	207
0.6a	-123	0	-616	-33	183	-163	37	204	52	77	160	441	96	86	175	101	0	184
0.5a	-104	0	-518	-22	187	-137	42	210	46	81	164	122	101	88	151	106	0	159
0.4a	-84	0	-422	-12	192	-110	45	216	40	80	167	102	97	90	125	103	0	131
0.3a	-65	0	-324	-2	196	-82	43	221	32	72	171	79	86	91	97	90	0	102
0.2a	-45	0	-223	4	200	-53	36	226	23	56	174	55	67	92	67	70	0	70
0.1a	-23	0	-116	6	203	-26	22	228	12	33	175	84	38	93	34	40	0	36
BOT.	0	0	0	0	204	0	0	229	0	0	176	0	0	93	0	0	0	0

Table 84 Moment Coefficients for Panels having Case 7 Arrangements for *b/a* = 3.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-109	0	-544	0	101	-209	0	116	28	0	92	149	0	51	206	0	0	223
0.9a	-132	0	-660	-24	92	-195	6	110	26	21	90	139	28	50	193	31	0	208
0.8a	-114	0	-569	-34	91	-179	12	109	25	37	89	130	50	50	179	54	0	193
0.7a	-99	0	-496	-33	94	-162	18	112	24	49	92	119	66	51	163	71	0	176
0.6a	-86	0	-430	-26	97	-142	25	116	24	58	95	107	77	52	146	82	0	157
0.5a	-74	0	-368	-17	101	-119	30	122	22	63	99	94	81	54	127	87	0	137
0.4a	-61	0	-305	-9	105	-95	34	127	20	63	103	79	80	57	106	85	0	114
0.3a	-48	0	-239	-1	110	-70	34	133	18	58	107	62	71	59	83	76	0	88
0.2a	-33	0	-167	4	115	-46	30	137	13	47	110	43	56	60	57	59	0	61
0.1a	-18	0	-88	5	118	-22	19	140	8	28	112	23	33	61	30	34	0	32
BOT.	-109	0	-544	0	101	-209	0	116	28	0	92	149	0	51	206	0	0	223

Table 85 Moment Coefficients for Panels having Case 7 Arrangements for *b/a* = 2.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-93	0	-464	0	64	-178	0	77	12	0	62	118	0	35	172	0	0	188
0.9a	-99	0	-496	-22	56	-166	3	71	11	16	59	111	23	33	161	25	0	177
0.8a	-87	0	-434	-29	56	-153	7	70	11	29	59	104	41	33	150	44	0	164
0.7a	-77	0	-384	-27	58	-138	13	72	12	39	61	96	54	34	138	59	0	151
0.6a	-68	0	-338	-21	61	-122	19	77	13	47	64	87	63	36	124	68	0	136
0.5a	-59	0	-293	-14	65	-103	24	82	13	51	68	77	67	38	109	72	0	118
0.4a	-49	0	-247	-8	69	-82	28	87	13	52	72	65	67	40	91	72	0	99
0.3a	-39	0	-195	-2	74	-61	28	92	12	49	76	52	61	42	72	65	0	77
0.2a	-28	0	-138	3	79	-40	25	97	10	40	79	37	49	44	50	51	0	54
0.1a	-15	0	-73	4	83	-19	17	100	6	24	81	19	29	45	26	30	0	28
BOT.	0	0	0	0	85	0	0	101	0	0	82	0	0	45	0	0	0	0

Table 86 Moment Coefficients for Panels having Case 7 Arrangements for *b/a* = 2.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-65	0	-326	0	34	-137	0	43	0	0	36	84	0	20	130	0	0	144
0.9a	-68	0	-340	-18	28	-127	1	38	1	11	33	80	17	19	123	18	0	136
0.8a	-61	0	-304	-23	29	-118	4	37	2	20	32	75	29	18	115	32	0	128
0.7a	-55	0	-274	-21	30	-108	8	39	3	28	34	71	39	19	107	43	0	118
0.6a	-49	0	-247	-16	32	-96	12	42	5	34	37	65	46	21	97	51	0	107
0.5a	-44	0	-219	-11	35	-82	17	47	6	38	40	58	51	23	86	55	0	95
0.4a	-37	0	-187	-7	39	-66	20	52	7	40	44	50	51	25	73	55	0	80
0.3a	-30	0	-151	-2	44	-50	22	57	8	38	48	41	48	27	58	51	0	63
0.2a	-22	0	-109	2	49	-32	20	61	7	32	51	29	39	28	41	42	0	44
0.1a	-12	0	-59	3	53	-16	14	64	4	20	53	16	24	30	21	25	0	23
BOT.	0	0	0	0	55	0	0	66	0	0	54	0	0	30	0	0	0	0

Table 87 Moment Coefficients for Panels having Case 7 Arrangements for *b/a* = 1.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-44	0	-221	0	22	-114	0	30	-3	0	25	67	0	14	107	0	0	119
0.9a	-53	0	-267	-16	17	-105	0	25	-2	9	22	64	13	13	101	15	0	113
0.8a	-48	0	-242	-19	18	-99	2	24	-1	16	21	61	23	12	95	26	0	106
0.7a	-44	0	-221	-17	19	-91	5	25	0	21	22	58	31	13	89	34	0	99
0.6a	-40	0	-202	-14	21	-81	9	28	2	27	25	54	37	14	82	41	0	91
0.5a	-36	0	-182	-10	24	-70	13	32	4	31	28	49	41	16	73	45	0	81
0.4a	-32	0	-158	-6	27	-57	16	37	5	33	32	43	43	18	63	46	0	69
0.3a	-26	0	-129	-2	32	-43	18	42	6	32	36	35	41	20	50	43	0	55
0.2a	-19	0	-94	1	37	-29	17	46	6	28	399	25	34	22	36	36	0	39
0.1a	-10	0	-51	3	41	-14	12	49	4	18	41	14	21	23	19	22	0	20
BOT.	0	0	0	0	42	0	0	51	0	0	42	0	0	23	0	0	0	0

Table 88 Moment Coefficients for Panels having Case 7 Arrangements for *b/a* = 1.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-37	0	-182	0	13	-89	0	19	-5	0	16	51	0	9	83	0	0	93
0.9a	-40	0	-200	13	9	-83	0	14	-4	6	13	49	10	8	79	11	0	89
0.8a	-37	0	-184	16	10	-78	1	14	-3	11	12	47	17	7	75	19	0	84
0.7a	-34	0	-141	14	11	-73	3	15	-2	15	13	45	23	8	71	26	0	79
0.6a	-32	0	-159	11	12	-66	6	17	0	20	15	42	28	9	66	31	0	74
0.5a	-29	0	-145	9	14	-58	9	20	2	23	18	39	31	10	60	34	0	66
0.4a	-26	0	-128	6	18	-48	12	24	3	25	21	35	33	12	52	36	0	57
0.3a	-21	0	-106	3	21	-37	14	29	4	26	25	29	33	14	42	35	0	46
0.2a	-16	0	-79	0	26	-25	13	33	4	23	28	21	28	16	30	30	0	33
0.1a	-37	0	-182	0	13	-89	0	19	-5	0	16	51	0	9	83	0	0	93
BOT.	-40	0	-200	13	9	-83	0	14	-4	6	13	49	10	8	79	11	0	89

Table 89 Moment Coefficients for Panels having Case 7 Arrangements for *b/a* = 1.25

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-25	0	-124	0	7	-64	0	11	-5	0	9	36	0	5	60	0	0	68
0.9a	-28	0	-139	-10	4	-60	-1	7	-4	4	7	34	7	4	57	7	0	65
0.8a	-26	0	-131	-12	5	-47	0	6	-3	7	6	34	11	3	55	13	0	62
0.7a	-25	0	-124	-11	5	-54	1	7	-2	10	6	33	15	4	53	17	0	59
0.6a	-24	0	-118	-9	6	-50	3	8	-1	13	8	31	19	5	50	21	0	56
0.5a	-22	0	-110	-7	7	-45	6	11	0	16	10	29	22	6	46	24	0	51
0.4a	-20	0	-99	-5	10	-39	8	14	2	18	13	27	24	7	41	26	0	45
0.3a	-17	0	-84	-3	13	-30	9	18	3	19	16	23	24	9	34	26	0	37
0.2a	-13	0	-63	-1	17	-21	10	22	3	17	18	17	22	10	25	23	0	27
0.1a	-7	0	-36	1	20	-10	8	25	3	12	21	10	15	11	13	15	0	15
BOT.	0	0	0	0	22	0	0	26	0	0	21	0	0	12	0	0	0	0

Table 90 Moment Coefficients for Panels having Case 7 Arrangements for *b/a* = 1.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-16	0	-77	0	3	-42	0	6	-4	0	5	23	0	3	39	0	0	44
0.9a	-18	0	-88	-7	2	-39	-1	3	-3	2	3	22	4	2	37	5	0	42
0.8a	-17	0	-84	-8	2	-38	-1	2	-3	4	2	22	7	1	36	8	0	41
0.7a	-16	0	-82	-7	2	-37	0	2	-2	6	2	21	9	1	35	10	0	40
0.6a	-16	0	-80	-7	2	-35	1	3	-2	7	3	21	11	2	34	12	0	39
0.5a	-15	0	-76	-6	3	-32	3	5	-1	9	5	20	13	3	32	14	0	36
0.4a	-14	0	-70	-4	5	-29	4	7	0	11	7	19	15	4	30	16	0	33
0.3a	-12	0	-61	-3	7	-23	6	9	1	12	9	17	16	5	25	17	0	28
0.2a	-10	0	-48	-1	10	-17	6	13	2	12	11	13	15	6	19	16	0	21
0.1a	-6	0	-28	1	12	-8	6	15	2	9	13	8	11	7	11	12	0	12
BOT.	0	0	0	0	14	0	0	17	0	0	14	0	0	8	0	0	0	0

Table 91 Moment Coefficients for Panels having Case 7 Arrangements for *b/a* = 0.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-9	0	-43	0	1	-23	0	3	-2	0	2	13	0	1	22	0	0	25
0.9a	-10	0	-49	-4	1	-22	-1	1	-2	1	1	12	2	1	21	3	0	24
0.8a	-9	0	-47	-4	0	-22	-1	0	-2	2	0	12	3	0	21	4	0	23
0.7a	-9	0	-47	-4	0	-21	0	0	-2	3	0	12	4	0	20	5	0	23
0.6a	-9	0	-46	-4	0	-21	0	1	-2	3	1	12	5	0	20	6	0	23
0.5a	-9	0	-46	-4	1	-20	1	1	1	4	1	12	6	1	20	7	0	22
0.4a	-9	0	-44	-3	1	-19	1	2	1	5	2	12	7	1	19	8	0	21
0.3a	-8	0	-40	-2	3	-16	2	4	0	6	3	11	9	2	17	9	0	19
0.2a	-7	0	-33	-1	4	-12	3	6	1	7	5	9	9	3	13	10	0	15
0.1a	-4	0	-20	-0	6	-6	-3	8	1	6	7	5	7	4	8	8	0	8
BOT.	0	0	0	0	8	0	0	9	0	0	8	0	0	4	0	0	0	0

Table 92 Moment Coefficients for Panels having Case 7 Arrangements for *b/a* = 0.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-4	0	-19	0	1	-10	0	1	-1	0	1	6	0	1	10	0	0	11
0.9a	-4	0	-21	-2	0	-10	0	0	-1	1	0	5	1	0	9	1	0	10
0.8a	-4	0	-21	-2	0	-10	0	0	-1	1	0	5	2	0	9	2	0	10
0.7a	-4	0	-21	-2	0	-10	0	0	-1	1	0	5	2	0	9	2	0	10
0.6a	-4	0	-21	-2	0	-10	0	0	-1	1	0	5	2	0	9	2	0	10
0.5a	-4	0	-21	-2	0	-10	0	0	-1	1	0	5	2	0	9	2	0	10
0.4a	-4	0	-21	-2	0	-9	0	0	1	1	0	5	2	0	9	3	0	10
0.3a	-4	0	-20	-2	0	-9	0	1	0	2	1	5	3	0	9	3	0	10
0.2a	-4	0	-18	-1	1	-7	1	2	0	3	2	5	4	1	7	4	0	8
0.1a	-2	0	-12	0	2	-4	2	3	1	3	3	3	4	2	5	4	0	5
BOT.	0	0	0	0	4	0	0	4	0	0	4	0	0	2	0	0	0	0

Table 93 Shear Coefficients for Panels having Case 8 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

LOCATION / b/a	4.0	3.0	2.5	2.0	1.75	1.5	1.25	1.0	0.75	0.5
Bottom edge - midpoint	1.03	1.01	0.96	0.85	0.75	0.66	0.56	0.45	0.33	0.22
Side edge - maximum	1.68	1.59	1.47	1.26	1.12	0.95	0.77	0.58	0.40	0.25
Side edge - midpoint	0.45	0.47	0.50	0.53	0.54	0.54	0.51	0.46	0.37	0.25

Table 94 Deflection Coefficients along Mid-height (*y* = *a*/2) for Panels having Case 8 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

x / b/a	END	0.1b 0.9b	0.2b 0.8b	0.3b 0.7b	0.4b 0.6b	0.5b
4.0	0	8.00	20.20	29.30	34.30	35.80
3.0	0	4.80	13.30	20.80	25.40	27.00
2.5	0	3.30	9.50	15.30	19.10	20.40
2.0	0	2.00	5.80	9.60	12.20	13.10
1.75	0	1.40	4.20	6.90	8.90	9.50
1.5	0	0.90	2.80	4.60	5.90	6.40
1.25	0	0.50	1.60	2.70	3.50	3.80
1.0	0	0.30	0.80	1.40	1.80	1.90
0.75	0	0.10	0.30	0.50	0.70	0.70
0.5	0	0.00	0.10	0.10	0.10	0.20

Table 95 Deflection Coefficients along Mid-span (x = *b*/2) for Panels having Case 8 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

y / b/a	BOT.	0.1a	0.2a	0.3a	0.4a	0.5a	0.6a	0.7a	0.8a	0.9a	TOP
4.0	0	2.00	7.40	15.20	24.90	35.80	47.50	59.60	71.80	84.20	96.50
3.0	0	1.60	5.80	11.80	19.00	27.00	35.30	43.70	52.20	60.60	69.00
2.5	0	1.30	4.60	9.20	14.60	20.40	26.40	32.40	38.30	44.10	50.00
2.0	0	0.90	3.10	6.20	9.60	13.10	16.60	20.00	23.20	26.40	29.60
1.75	0	0.70	2.40	4.60	7.10	9.50	11.90	14.10	16.20	18.20	20.30
1.5	0	0.50	1.70	3.20	4.80	6.40	7.80	9.00	10.20	11.30	12.40
1.25	0	0.40	1.10	2.10	3.00	3.80	4.50	5.10	5.80	6.00	6.60
1.0	0	0.20	0.70	1.10	1.60	1.90	2.10	2.30	2.50	2.50	2.80
0.75	0	0.10	0.30	0.50	0.60	0.70	0.80	0.80	0.80	0.80	0.90
0.5	0	0.00	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Table 96 Moment Coefficients for Panels having Case 8 Arrangements for *b/a* = 4.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-81	0	-404	0	82	-45	0	76	50	0	52	64	0	25	58	0	0	54
0.9a	-77	0	-380	-6	78	-41	7	75	46	9	52	58	8	25	52	7	0	48
0.8a	-62	0	-312	-10	78	-36	7	75	41	8	52	50	5	25	44	4	0	40
0.7a	-51	0	-253	-12	78	-32	1	74	34	2	51	40	-8	25	33	-10	0	30
0.6a	-40	0	-201	-13	78	-26	-10	73	26	-21	49	29	-31	24	21	-35	0	18
0.5a	-30	0	-152	-17	75	-22	-29	70	17	-49	46	15	-65	22	7	-71	0	4
0.4a	-21	0	-106	-25	70	-18	55	65	5	-88	42	0	-111	19	-8	-119	0	-11
0.3a	-13	0	-63	-37	61	-15	-90	56	-7	-138	35	-17	-168	16	-25	-178	0	-28
0.2a	-6	0	-28	-54	48	-14	-135	43	-22	-200	26	-35	-238	12	-44	-250	0	-47
0.1a	-1	0	-4	-76	29	-16	-192	25	-37	-276	14	-54	-321	6	-63	-335	0	-66
BOT.	0	0	0	-105	0	-21	-263	0	-53	-366	0	-73	-417	0	-83	-433	0	-87

Table 97 Moment Coefficients for Panels having Case 8 Arrangements for *b/a* = 3.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-76	0	-379	0	68	-83	0	70	33	0	53	75	0	28	87	0	0	89
0.9a	-72	0	-360	-11	63	-76	5	68	30	11	52	68	13	28	79	14	0	80
0.8a	-59	0	-294	-15	63	-68	6	68	27	15	53	60	18	28	69	18	0	701
0.7a	-48	0	-241	-15	64	-59	4	69	23	11	53	51	13	28	57	12	0	58
0.6a	-39	0	-193	-13	63	-49	2	69	18	0	53	40	2	28	43	3	0	43
0.5a	-30	0	-148	-13	62	-38	-12	68	12	-19	51	27	-56	27	28	-29	0	27
0.4a	-21	0	-105	-16	58	-28	-29	64	5	-47	48	12	-62	25	11	-67	0	10
0.3a	-13	0	-64	-23	52	-20	-53	57	3	-86	41	-3	-109	21	-7	-117	0	-9
0.2a	-6	0	-28	-33	41	-14	-86	44	13	-136	32	-20	-169	16	-27	-180	0	-29
0.1a	-1	0	-5	-47	25	-12	-128	26	24	-199	18	-38	-243	9	-47	-258	0	-50
BOT.	0	0	0	-64	0	-13	-183	0	37	-278	0	-56	-333	0	-67	-351	0	-70

Table 98 Moment Coefficients for Panels having Case 8 Arrangements for *b/a* = 2.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-67	0	-334	0	54	-96	0	60	20	0	47	74	0	25	96	0	0	102
0.9a	-65	0	-325	-13	49	-88	4	57	16	12	45	68	15	25	88	16	0	93
0.8a	-54	0	-269	-17	49	-79	6	57	17	17	46	61	22	25	78	24	0	82
0.7a	-45	0	-224	-15	50	-68	6	58	15	17	47	52	22	25	66	23	0	70
0.6a	-36	0	-182	-12	51	-56	3	59	12	10	47	42	13	26	53	13	0	56
0.5a	-28	0	-142	-11	50	-44	-4	59	9	-3	47	31	-5	25	38	-6	0	39
0.4a	-20	0	-102	-12	48	-32	-15	57	4	-24	45	18	-32	24	21	-35	0	22
0.3a	-13	0	-64	-15	44	-22	-33	51	2	-54	40	4	-70	21	3	-76	0	3
0.2a	-6	0	-29	-23	36	-14	-59	41	-9	-95	32	-12	-121	17	-16	-130	0	-17
0.1a	-1	0	-5	-34	22	-9	-93	25	-18	-149	19	-28	-186	10	-35	-199	0	-37
BOT.	0	0	0	-46	0	-9	-139	0	-28	-219	0	-44	-269	0	-54	-286	0	-57

Table 99 Moment Coefficients for Panels having Case 8 Arrangements for *b/a* = 2.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-55	0	-275	0	36	-97	0	42	8	0	34	65	0	19	93	0	0	102
0.9a	-53	0	-266	-14	31	-88	2	39	7	10	32	60	14	18	86	16	0	94
0.8a	-45	0	-226	-16	32	-79	4	39	7	16	32	55	23	18	78	25	0	85
0.7a	-38	0	-162	-14	33	-69	6	41	7	19	34	48	26	19	68	28	0	74
0.6a	-32	0	-161	-10	34	-57	6	43	6	17	35	41	23	20	57	24	0	61
0.5a	-26	0	-129	-8	35	-45	4	44	5	10	36	32	13	20	44	14	0	47
0.4a	-19	0	-96	-7	35	-33	-3	44	3	-3	36	21	-4	20	29	-5	0	31
0.3a	-12	0	-62	-9	33	-22	-14	41	0	-24	33	10	-31	18	13	34	0	13
0.2a	-6	0	-30	-13	28	-13	-33	34	-5	-54	27	-3	-70	15	-4	-75	0	-5
0.1a	-1	0	-6	-21	18	-7	-59	22	-11	-97	17	-17	-122	9	-22	-131	0	-23
BOT.	0	0	0	-30	0	-6	-96	0	-19	-155	0	-31	-193	0	-39	-206	0	-41

Table 100 Moment Coefficients for Panels having Case 8 Arrangements for *b/a* = 1.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-46	0	-228	0	26	-90	0	32	3	0	26	57	0	15	85	0	0	94
0.9a	-45	0	-226	-13	22	-82	1	28	3	9	24	53	13	14	79	14	0	87
0.8a	-39	0	-195	-15	23	-74	3	28	3	15	24	49	21	14	72	23	0	79
0.7a	-34	0	-170	-12	24	-65	5	30	4	18	26	44	25	14	64	27	0	70
0.6a	-29	0	-145	-9	25	-54	7	32	4	18	27	37	24	15	55	16	0	60
0.5a	-24	0	-119	-7	27	-43	6	34	4	14	29	30	18	16	43	20	0	47
0.4a	-18	0	-90	-5	28	-32	2	35	3	5	29	22	6	16	30	6	0	33
0.3a	-12	0	-60	-6	27	-21	-7	34	4	-11	28	11	-15	16	16	-16	0	17
0.2a	-6	0	-30	-9	24	-12	-21	29	-3	-35	24	0	-46	13	1	-50	0	0
0.1a	-1	0	-7	-16	16	-6	-43	19	-8	-71	15	-12	-91	8	-15	-98	0	-17
BOT.	-0	0	0	-23	0	-5	-75	0	-15	-122	0	-24	-153	0	-31	-164	0	-33

Table 101 Moment Coefficients for Panels having Case 8 Arrangements for *b/a* = 1.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-35	0	-176	0	17	-77	0	22	-1	0	18	46	0	10	73	0	0	81
0.9a	-36	0	-181	-12	13	-70	1	18	-1	7	16	43	10	9	68	12	0	75
0.8a	-32	0	-160	-13	14	-65	2	18	0	12	16	41	17	9	63	19	0	70
0.7a	-28	0	-142	-11	15	-57	4	20	1	15	17	37	21	10	57	24	0	63
0.6a	-25	0	-124	-8	16	-49	6	22	2	16	19	33	23	11	49	25	0	54
0.5a	-21	0	-105	-6	18	-39	6	24	2	15	21	27	20	12	40	22	0	44
0.4a	-16	0	-82	-4	20	-29	4	26	2	10	22	21	12	13	30	13	0	33
0.3a	-11	0	-56	-4	21	-20	-1	26	1	-1	22	13	-2	12	18	-2	0	19
0.2a	-6	0	-30	-6	19	-11	-12	23	-1	-20	19	3	-26	11	4	-28	0	5
0.1a	-1	0	-7	-11	13	-5	-29	16	-5	-49	13	-8	-62	7	-10	-67	0	-10
BOT.	-35	0	-176	0	17	-77	0	22	-1	0	18	46	0	10	73	0	0	81

Table 102 Moment Coefficients for Panels having Case 8 Arrangements for *b/a* = 1.25

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-25	0	-124	0	9	-60	0	13	-3	0	11	35	0	6	56	0	0	63
0.9a	-27	0	-133	-10	7	-55	0	9	-3	5	9	33	8	5	53	8	0	59
0.8a	-24	0	-121	-10	7	-51	1	9	-2	8	8	31	13	5	50	14	0	56
0.7a	-22	0	-111	-9	8	-47	3	11	-1	11	9	29	16	5	46	18	0	51
0.6a	-20	0	-110	-7	9	-41	4	12	0	13	11	27	18	6	41	20	0	46
0.5a	-17	0	-87	-5	11	-34	6	15	1	13	13	23	18	8	35	20	0	39
0.4a	-14	0	-71	-3	13	-26	5	17	2	11	15	18	14	8	27	16	0	30
0.3a	-10	0	-51	-3	14	-18	2	18	1	5	16	12	6	9	18	6	0	20
0.2a	-6	0	-28	-3	14	-10	-5	18	0	-8	15	5	-10	8	7	-11	0	8
0.1a	-2	0	-2	-7	10	-5	-18	13	-3	-29	10	-4	-38	6	-5	-41	0	-5
BOT.	0	0	-0	-12	0	-2	-40	0	-8	-65	0	-13	-82	0	-16	-87	0	-17

Table 103 Moment Coefficients for Panels having Case 8 Arrangements for *b/a* = 1.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-16	0	-78	0	4	-41	0	6	-3	0	6	23	0	3	38	0	0	43
0.9a	-17	0	-87	-7	2	-38	-1	4	-3	3	4	22	5	2	36	5	0	41
0.8a	-16	0	-82	-7	2	-36	0	3	-2	5	3	21	8	2	35	9	0	39
0.7a	-16	0	-78	-6	3	-34	1	4	-2	7	4	20	10	2	33	11	0	37
0.6a	-15	0	-73	-5	4	-31	2	5	-1	8	5	19	12	3	31	13	0	35
0.5a	-13	0	-66	-4	5	-27	3	7	0	9	6	18	13	4	27	14	0	31
0.4a	-11	0	-56	-3	7	-22	4	9	1	9	8	15	12	5	23	13	0	25
0.3a	-9	0	-43	-2	9	-16	3	11	1	7	10	11	9	6	16	9	0	18
0.2a	-5	0	-26	-2	9	-9	0	12	1	0	10	6	-1	6	8	-1	0	9
0.1a	-2	0	-8	-4	8	-4	-9	9	-1	-15	8	-1	-19	4	-1	-21	0	-1
BOT.	0	0	0	-8	0	-2	-26	0	-5	-42	0	-8	-53	0	-11	-66	0	-11

Table 104 Moment Coefficients for Panels having Case 8 Arrangements for *b/a* = 0.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-9	0	-43	0	1	-23	0	3	-2	0	2	13	0	1	22	0	0	25
0.9a	-10	0	-49	-4	1	-22	-1	1	-2	1	1	12	2	1	21	3	0	24
0.8a	-9	0	-47	-4	0	-22	-1	1	-2	2	1	12	4	0	20	4	0	23
0.7a	-9	0	-46	-4	0	-21	0	1	-2	3	1	12	5	0	20	5	0	23
0.6a	-9	0	-45	-4	1	-20	1	1	-1	4	1	12	6	1	20	7	0	22
0.5a	-9	0	-43	-3	1	-18	1	2	-1	5	2	11	7	1	18	8	0	21
0.4a	-8	0	-39	-3	2	-16	2	4	0	5	3	10	8	2	16	8	0	18
0.3a	-6	0	-32	-2	4	-12	2	5	1	5	5	9	7	3	13	8	0	14
0.2a	-4	0	-21	-1	5	-8	1	7	1	3	6	5	4	3	8	4	0	9
0.1a	-2	0	-8	-2	5	-3	-3	6	0	-5	5	1	-7	3	1	-7	0	1
BOT.	0	0	0	-4	0	-1	-14	0	-3	-24	0	-5	-30	0	-6	-32	0	-6

Table 105 Moment Coefficients for Panels having Case 8 Arrangements for *b/a* = 0.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	-4	0	-19	0	1	-10	0	1	-1	0	1	6	0	1	10	0	0	11
0.9a	-4	0	-21	-2	0	-10	0	0	-1	1	0	5	1	0	9	1	0	10
0.8a	-4	0	-21	-2	0	-10	0	0	-1	1	0	5	2	0	9	2	0	10
0.7a	-4	0	-21	-2	0	-10	0	0	-1	1	0	5	2	0	9	2	0	10
0.6a	-4	0	-21	-2	0	-10	0	0	x-1	1	0	5	2	0	9	2	0	10
0.5a	-4	0	-21	-2	0	-9	0	0	-1	1	0	5	2	0	9	3	0	10
0.4a	-4	0	-20	-2	0	-9	0	1	0	2	1	5	3	0	9	3	0	10
0.3a	-4	0	-18	-1	1	-8	1	1	0	2	1	5	3	1	8	4	0	9
0.2a	-3	0	-14	-1	2	-5	1	2	0	2	2	4	3	1	6	3	0	6
0.1a	-1	0	-6	0	2	-2	0	3	0	0	3	1	0	1	2	0	0	2
BOT.	0	0	-0	-2	0	0	-6	0	-1	-11	0	-2	-13	0	-3	-14	0	-3

Table 106 Shear Coefficients for Panels having Case 9 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

LOCATION / b/a	4.0	3.0	2.5	2.0	1.75	1.5	1.25	1.0	0.75	0.5
Bottom edge - midpoint	0.62	0.62	0.63	0.62	0.61	0.58	0.53	0.45	0.34	0.22
Side edge - maximum	0.55	0.56	0.56	0.56	0.56	0.56	0.53	0.48	0.39	0.26
Side edge - midpoint	0.53	0.54	0.54	0.54	0.54	0.54	0.52	0.47	0.38	0.26
Top edge - midpoint	0.39	0.39	0.40	0.39	0.39	0.39	0.35	0.32	0.25	0.18

Table 107 Deflection Coefficients along Mid-height (*y* = *a*/2) for Panels having Case 9 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

x / b/a	END	0.1b / 0.9b	0.2b / 0.8b	0.3b / 0.7b	0.4b / 0.6b	0.5b
4.0	0	2.50	4.40	5.10	5.20	5.20
3.0	0	1.80	3.70	4.70	5.00	5.10
2.5	0	1.40	3.20	4.30	4.80	5.00
2.0	0	1.00	2.50	3.60	4.30	4.50
1.75	0	0.80	2.10	3.20	3.80	4.10
1.5	0	0.60	1.70	2.60	3.20	3.40
1.25	0	0.40	1.20	1.90	2.40	2.60
1.0	0	0.20	0.70	1.10	1.50	1.60
0.75	0	0.10	0.30	0.50	0.60	0.70
0.5	0	0.00	0.10	0.10	0.10	0.20

Table 108 Deflection Coefficients along Mid-span (x = *b*/2) for Panels having Case 9 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

y / b/a	BOT.	0.1a	0.2a	0.3a	0.4a	0.5a	0.6a	0.7a	0.8a	0.9a	TOP
4.0	0	0.50	1.70	3.20	4.40	5.20	5.40	4.90	3.70	2.00	0
3.0	0	0.50	1.70	3.10	4.30	5.10	5.30	4.80	3.70	2.00	0
2.5	0	0.50	1.70	3.00	4.20	5.00	5.10	4.60	3.50	1.90	0
2.0	0	0.50	1.50	2.80	3.80	4.50	4.60	4.20	3.20	1.70	0
1.75	0	0.40	1.40	2.50	3.50	4.10	4.20	3.80	2.90	1.60	0
1.5	0	0.40	1.20	2.20	2.90	3.40	3.50	3.20	2.40	1.30	0
1.25	0	0.30	1.00	1.60	2.20	2.60	2.60	2.40	1.80	1.00	0
1.0	0	0.20	0.60	1.10	1.40	1.60	1.60	1.40	1.10	0.60	0
0.75	0	0.10	0.30	0.50	0.60	0.70	0.70	0.60	0.50	0.30	0
0.5	0	0.00	0.10	0.10	0.20	0.20	0.20	0.20	0.10	0.10	0

Table 109 Moment Coefficients for Panels having Case 9 Arrangements for *b/a* = 4.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	22	0	0	9	0	0	2	0	0	0	0	0	0	0
0.9a	-7	0	-35	18	21	7	28	8	9	32	2	7	32	0	7	32	0	7
0.8a	-12	0	-60	28	16	12	47	6	15	53	2	13	55	0	11	55	0	11
0.7a	-15	0	-75	33	10	16	58	4	19	65	1	16	67	0	14	67	0	14
0.6a	-16	0	-81	34	2	17	60	1	20	68	0	16	70	0	15	70	0	14
0.5a	-16	0	-79	31	5	16	54	2	19	61	1	15	62	0	13	63	0	13
0.4a	-14	0	-68	24	11	13	41	5	15	44	1	11	45	0	9	45	0	9
0.3a	-10	0	-50	12	15	9	18	6	8	18	2	5	18	0	4	18	0	4
0.2a	-6	0	-29	-6	15	3	-14	6	0	-19	1	3	-20	0	4	-20	0	4
0.1a	-2	0	-8	-32	11	-5	-57	4	-11	-65	1	-13	-67	0	-13	-67	0	-13
BOT.	0	0	0	-70	0	-14	-112	0	-22	-123	0	-25	-125	0	-25	-125	0	-25

Table 110 Moment Coefficients for Panels having Case 9 Arrangements for *b/a* = 3.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	25	0	0	15	0	0	7	0	0	2	0	0	0	0
0.9a	-7	0	-35	13	23	4	24	14	9	30	6	8	32	2	7	32	0	7
0.8a	-12	0	-60	20	18	7	40	11	16	50	5	14	53	2	13	54	0	12
0.7a	-15	0	-75	23	11	8	49	7	20	61	3	18	65	1	16	67	0	15
0.6a	-16	0	-81	23	2	8	50	1	21	63	0	19	68	0	17	69	0	16
0.5a	-16	0	-79	21	5	8	46	4	20	57	2	18	61	1	15	62	0	14
0.4a	-14	0	-68	16	1s2	7	35	8	17	42	4	14	44	1	11	45	0	10
0.3a	-10	0	-50	9	16	5	16	10	10	18	4	7	18	1	5	18	0	5
0.2a	-6	0	-29	-4	17	1	-10	10	2	-16	4	-1	-18	1	-3	-19	0	-3
0.1a	-2	0	-8	-22	12	-4	-48	7	-8	-61	3	-12	-65	1	-13	-67	0	-13
BOT.	0	0	0	-51	0	-10	-97	0	-19	-117	0	-23	-123	0	-25	-124	0	-25

Table 111 Moment Coefficients for Panels having Case 9 Arrangements for *b/a* = 2.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	25	0	0	19	0	0	10	0	0	4	0	0	0	0
0.9a	-7	0	-35	10	23	2	22	17	9	27	9	9	30	4	8	31	0	8
0.8a	-12	0	-60	15	18	3	35	14	15	46	7	16	51	3	14	52	0	14
0.7a	-15	0	-75	17	10	2	42	8	19	56	4	20	62	2	18	64	0	17
0.6a	-16	0	-81	17	2	2	43	2	20	58	1	21	65	0	19	67	0	18
0.5a	-16	0	-79	15	5	1	39	4	19	53	3	20	59	1	17	60	0	16
0.4a	-14	0	-68	12	12	1	30	10	16	39	5	16	43	2	13	44	0	12
0.3a	-10	0	-50	3	16	1	15	13	10	18	7	9	18	3	7	18	0	6
0.2a	-6	0	-29	-6	17	0	-8	13	3	-13	7	0	-17	3	2	-18	0	2
0.1a	-2	0	-8	-17	13	-3	-40	9	-7	-55	4	-10	-62	2	-12	-64	0	-13
BOT.	0	0	0	-40	0	-8	-86	0	-17	-110	0	-22	-119	0	-24	-122	0	-24

Table 112 Moment Coefficients for Panels having Case 9 Arrangements for *b/a* = 2.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	24	0	0	22	0	0	14	0	0	7	0	0	0	0
0.9a	-7	0	-35	7	22	-1	18	20	7	24	13	9	27	6	9	28	0	9
0.8a	-12	0	-60	10	17	-3	28	16	13	40	10	16	46	5	17	48	0	16
0.7a	-15	0	-75	10	10	-6	33	10	16	48	6	21	56	3	21	58	0	21
0.6a	-16	0	-81	10	2	-7	34	2	17	50	1	23	58	1	23	61	0	22
0.5a	-16	0	-79	9	5	-7	31	5	16	45	3	21	53	2	21	55	0	21
0.4a	-14	0	-68	7	11	-6	24	11	14	35	7	18	40	4	17	42	0	16
0.3a	-10	0	-50	4	15	-4	12	15	9	17	10	11	18	5	10	19	0	9
0.2a	-6	0	-29	-2	16	-3	-5	15	3	-10	10	2	-13	4	1	-14	0	0
0.1a	-2	0	-8	-13	12	-3	-32	11	-5	-47	7	-8	-55	3	-10	-58	0	-11
BOT.	0	0	0	-29	0	-6	-70	0	-14	-97	0	-19	-111	0	-22	-115	0	-23

Table 113 Moment Coefficients for Panels having Case 9 Arrangements for *b/a* = 1.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	23	0	0	22	0	0	15	0	0	8	0	0	0	0
0.9a	-7	0	-34	6	21	-3	15	21	7	22	14	9	25	7	10	26	0	10
0.8a	-12	0	-59	7	16	-7	24	16	11	35	11	17	41	6	18	43	0	18
0.7a	-15	0	-74	7	9	-10	28	10	14	42	7	21	50	3	23	53	0	23
0.6a	-16	0	-80	7	2	-12	28	2	14	44	2	23	52	1	25	55	0	25
0.5a	-16	0	-78	6	5	-12	26	5	14	40	4	22	48	2	23	51	0	23
0.4a	-13	0	-67	5	11	-10	20	11	12	31	8	18	37	4	19	39	0	19
0.3a	-10	0	-50	2	15	-8	11	15	8	16	11	12	18	5	12	19	0	12
0.2a	-6	0	-29	-2	16	-5	-4	16	3	-7	11	3	-10	5	3	-11	0	2
0.1a	-2	0	-8	-10	12	-3	-27	11	-4	-41	8	-7	-49	4	-9	-52	0	-9
BOT.	0	0	0	-23	0	-5	-60	0	-12	-87	0	-17	-102	0	-20	-107	0	-21

Table 114 Moment Coefficients for Panels having Case 9 Arrangements for *b/a* = 1.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	21	0	0	22	0	0	16	0	0	8	0	0	0	0
0.9a	-7	0	-34	4	19	-5	13	20	5	18	15	9	22	8	11	23	0	11
0.8a	-11	0	-57	4	14	-11	19	16	9	29	12	16	35	6	19	37	0	20
0.7a	-14	0	-72	4	8	-15	21	10	10	35	7	21	42	4	24	45	0	25
0.6a	-16	0	-78	3	2	-17	22	2	11	36	2	22	44	1	26	47	0	27
0.5a	-15	0	-76	3	4	-17	20	5	10	33	4	22	41	2	25	43	0	26
0.4a	-13	0	-66	2	9	-14	16	11	9	26	8	18	32	4	21	34	0	22
0.3a	-10	0	-49	1	13	-11	9	15	6	14	11	12	17	6	14	18	0	14
0.2a	-6	0	-28	-2	14	-6	-2	16	2	-5	12	5	-7	6	5	-7	0	4
0.1a	-2	0	-8	-8	11	-4	-21	12	-3	-33	8	-5	-41	4	-6	-44	0	-7
BOT.	0	0	0	-18	0	-4	-50	0	-10	-75	0	-12	-90	0	-18	-95	0	-19

Table 115 Moment Coefficients for Panels having Case 9 Arrangements for *b/a* = 1.25

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	18	0	0	20	0	0	15	0	0	8	0	0	0	0
0.9a	-6	0	-31	2	16	-7	10	18	4	14	14	9	17	8	11	18	0	11
0.8a	-11	0	-53	2	12	-13	13	14	6	22	11	15	27	6	19	29	0	20
0.7a	-13	0	-67	1	7	-18	15	9	7	25	7	19	32	4	25	34	0	26
0.6a	-14	0	-72	0	2	-21	15	2	7	26	2	21	3	1	27	36	0	29
0.5a	-14	0	-71	0	3	-21	14	4	7	24	3	20	31	2	26	33	0	28
0.4a	-12	0	-62	0	8	-18	11	9	6	20	7	17	26	4	22	27	0	24
0.3a	-9	0	-47	0	11	-13	7	13	4	12	10	12	15	6	16	16	0	16
0.2a	-6	0	-28	-2	12	-8	-1	14	2	-0	11	6	-2	6	7	-3	0	7
0.1a	-2	0	-8	-6	10	-4	-15	11	-2	-24	8	-3	-30	4	-4	-32	0	-4
BOT.	0	0	0	-13	0	-3	-38	0	-8	-59	0	-12	-73	0	-15	-77	0	-15

Table 116 Moment Coefficients for Panels having Case 9 Arrangements for *b/a* = 1.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	13	0	0	15	0	0	12	0	0	7	0	0	0	0
0.9a	-5	0	-27	-1	12	-7	6	14	2	10	11	7	12	6	10	13	0	11
0.8a	-9	0	-45	-0	8	-14	8	11	3	14	9	13	18	5	17	19	0	19
0.7a	-11	0	-56	-1	5	-19	8	6	3	16	5	16	20	3	22	22	0	24
0.6a	-12	0	-61	-2	1	-22	8	2	3	16	2	17	21	1	24	22	0	27
0.5a	-12	0	-60	-2	2	-21	7	2	3	15	2	17	20	1	24	21	0	26
0.4a	-11	0	-54	-2	5	-19	7	6	3	13	5	15	17	3	21	19	0	23
0.3a	-8	0	-42	-1	8	-14	5	10	2	9	8	11	12	5	16	13	0	17
0.2a	-5	0	-26	-1	9	-8	1	11	1	1	9	6	2	5	8	2	0	9
0.1a	-2	0	-8	-4	8	-3	-8	9	-1	-14	7	-1	-18	4	-1	-19	0	-1
BOT.	0	0	0	-8	0	-2	-26	0	-5	-41	0	-8	-52	0	-10	-55	0	-11

Table 117 Moment Coefficients for Panels having Case 9 Arrangements for *b/a* = 0.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	8	0	0	9	0	0	8	0	0	4	0	0	0	0
0.9a	-4	0	20	0	7	-6	4	8	1	6	7	5	8	4	8	8	0	8
0.8a	-7	0	33	1	4	-12	4	6	1	7	5	9	10	3	13	11	0	14
0.7a	-8	0	39	-2	2	-16	3	3	1	7	3	11	10	2	16	11	0	18
0.6a	-8	0	42	-3	1	-17	2	1	0	7	1	12	9	1	18	10	0	20
0.5a	-8	0	42	-3	1	-17	2	1	0	6	1	11	9	1	18	10	0	20
0.4a	-8	0	39	-2	2	-16	3	3	0	6	3	11	9	2	16	10	0	18
0.3a	-6	0	32	-2	4	-12	3	5	1	6	4	9	8	3	13	8	0	14
0.2a	-4	0	21	-1	5	-8	1	7	1	3	6	5	4	3	8	4	0	9
0.1a	-2	0	8	-2	5	-3	-3	6	0	-5	5	1	-7	3	1	-7	0	1
BOT.	0	0	0	-4	0	-1	-15	0	-3	-24	0	-5	-30	0	-6	-32	0	-6

Table 118 Moment Coefficients for Panels having Case 9 Arrangements for *b/a* = 0.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	0	0	0	4	0	0	4	0	0	3	0	0	2	0	0	0	0
0.9a	-2	0	-12	0	2	-4	2	3	1	3	3	3	4	2	5	4	0	5
0.8a	-4	0	-18	-1	1	-7	1	2	0	3	2	5	4	1	7	4	0	8
0.7a	-4	0	-20	-2	0	-9	0	1	0	2	1	5	3	0	9	3	0	10
0.6a	-4	0	-21	-2	0	-9	0	0	1	2	0	5	3	0	9	3	0	10
0.5a	-4	0	-21	-2	0	-9	0	0	1	2	0	5	2	0	9	3	0	10
0.4a	-4	0	-20	-2	0	-9	0	1	0	2	1	5	3	0	9	3	0	10
0.3a	-4	0	-18	-1	1	-8	1	1	0	2	1	5	3	1	8	4	0	9
0.2a	-3	0	-14	-1	2	-6	1	2	0	2	2	4	3	1	6	3	0	6
0.1a	-1	0	-6	0	2	-2	0	3	0	0	3	1	0	1	2	0	0	2
BOT.	0	0	0	-2	0	0	-6	0	-1	-11	0	-2	-13	0	-3	-14	0	-3

Table 119 Shear Coefficients for Panels having Case 10 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

LOCATION \ b/a	4.0	3.0	2.5	2.0	1.75	1.5	1.25	1.0	0.75	0.5
Bottom edge - midpoint	0.50	0.49	0.48	0.46	0.45	0.42	0.39	0.34	0.27	0.18
Side edge - maximum	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.34	0.30	0.23
Side edge - midpoint	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.34	0.30	0.23
Top edge - midpoint	0.50	0.49	0.48	0.46	0.45	0.42	0.39	0.34	0.27	0.18

Table 120 Deflection Coefficients along Mid-height (*y* = *a*/2) for Panels having Case 10 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

x / b/a	END	0.1b 0.9b	0.2b 0.8b	0.3b 0.7b	0.4b 0.6b	0.5b
4.0	0	7.00	10.60	12.10	12.70	12.80
3.0	0	5.50	9.10	11.10	12.00	12.20
2.5	0	4.70	8.10	10.10	11.20	11.50
2.0	0	3.80	6.70	8.70	9.80	10.10
1.75	0	3.20	5.80	7.70	8.70	9.10
1.5	0	2.60	4.90	6.50	7.40	7.70
1.25	0	2.00	3.70	5.00	5.80	6.00
1.0	0	1.30	2.50	3.30	3.90	4.10
0.75	0	0.70	1.30	1.70	2.00	2.10
0.5	0	0.20	0.40	0.50	0.60	0.60

Table 121 Deflection Coefficients along Mid-span (x = *b*/2) for Panels having Case 10 Arrangements for Various Width/Height Ratios

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

y / b/a	BOT.	0.1a	0.2a	0.3a	0.4a	0.5a	0.6a	0.7a	0.8a	0.9a	TOP
4.0	0	4.00	7.60	10.40	12.20	12.80	12.20	10.40	7.60	4.00	0
3.0	0	3.80	7.30	9.90	11.60	12.20	11.60	9.90	7.30	3.80	0
2.5	0	3.60	6.80	9.40	10.90	11.50	10.90	9.40	6.80	3.60	0
2.0	0	3.20	6.00	8.20	9.60	10.10	9.60	8.20	6.00	3.20	0
1.75	0	2.90	5.40	7.40	8.70	9.10	8.70	7.40	5.40	2.90	0
1.5	0	2.50	4.60	6.30	7.40	7.70	7.40	6.30	4.60	2.50	0
1.25	0	1.90	3.60	4.90	5.70	6.00	5.70	4.90	3.60	1.90	0
1.0	0	1.30	2.50	3.30	3.90	4.10	3.90	3.30	2.50	1.30	0
0.75	0	0.70	1.30	1.70	2.00	2.10	2.00	1.70	1.30	0.70	0
0.5	0	0.20	0.40	0.50	0.60	0.60	0.60	0.50	0.40	0.20	0

Table 122 Moment Coefficients for Panels having Case 10 Arrangements for *b/a* = 4.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	54	0	0	34	0	0	15	0	0	6	0	0	2	0	0	0	0
0.9a	0	50	0	28	32	13	39	14	12	43	5	10	44	2	10	44	0	9
0.8a	0	41	0	47	27	23	68	12	21	76	5	18	78	1	17	79	0	17
0.7a	0	29	0	60	20	30	88	9	28	99	3	24	103	1	22	104	0	22
0.6a	0	15	0	68	11	34	100	5	32	113	2	28	117	1	26	118	0	25
0.5a	0	0	0	70	0	36	104	0	33	117	0	29	122	0	27	123	0	26
0.4a	0	15	0	68	11	34	100	5	32	113	2	28	117	1	26	118	0	25
0.3a	0	29	0	60	20	30	88	9	28	99	3	24	103	1	22	104	0	22
0.2a	0	41	0	47	27	23	68	12	21	76	5	18	78	1	17	79	0	17
0.1a	0	50	0	28	32	13	39	14	12	44	5	10	44	2	10	44	0	9
BOT.	0	54	0	0	34	0	0	15	0	0	6	0	0	2	0	0	0	0

Table 123 Moment Coefficients for Panels having Case 10 Arrangements for *b/a* = 3.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	54	0	0	40	0	0	23	0	0	11	0	0	5	0	0	0	0
0.9a	0	50	0	23	38	12	34	22	12	40	11	11	42	4	10	43	0	10
0.8a	0	41	0	39	32	22	60	18	23	70	9	20	75	4	19	76	0	18
0.7a	0	29	0	4	23	28	77	13	30	91	7	27	98	3	25	100	0	24
0.6a	0	15	0	54	12	32	87	7	34	104	4	31	112	1	29	114	0	28
0.5a	0	0	0	56	0	34	90	0	36	108	0	33	116	0	30	118	0	29
0.4a	0	15	0	54	12	32	87	7	34	104	4	31	112	1	29	114	0	28
0.3a	0	29	0	49	23	28	77	13	30	91	7	27	98	3	25	100	0	24
0.2a	0	41	0	39	32	22	60	18	23	70	9	20	75	4	19	76	0	18
0.1a	0	50	0	23	38	12	34	22	12	40	11	11	42	4	10	43	0	10
BOT.	0	54	0	0	40	0	0	23	0	0	11	0	0	5	0	0	0	0

Table 124 Moment Coefficients for Panels having Case 10 Arrangements for *b/a* = 2.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	54	0	0	42	0	0	27	0	0	15	0	0	7	0	0	0	0
0.9a	0	50	0	20	401	11	31	26	13	37	14	12	40	6	11	41	0	11
0.8a	0	41	0	34	34	20	54	22	23	65	12	22	71	5	21	72	0	20
0.7a	0	29	0	42	24	27	69	16	31	84	9	29	92	4	27	94	0	27
0.6a	0	15	0	47	13	30	78	9	35	96	5	34	105	2	31	108	0	31
0.5a	0	0	0	48	0	32	81	0	37	100	0	35	109	0	33	112	0	32
0.4a	0	15	0	47	13	30	78	9	35	96	5	34	105	2	31	108	0	31
0.3a	0	29	0	42	24	27	69	16	31	84	9	29	92	4	27	94	0	27
0.2a	0	41	0	34	34	20	54	22	23	65	12	22	71	5	21	72	0	20
0.1a	0	50	0	20	40	11	31	26	13	37	14	12	40	6	11	41	0	11
BOT.	0	54	0	0	42	0	0	27	0	0	15	0	0	7	0	0	0	0

Table 125 Moment Coefficients for Panels having Case 10 Arrangements for *b/a* = 2.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	53	0	0	44	0	0	31	0	0	19	0	0	9	0	0	0	0
0.9a	0	49	0	17	42	11	27	30	13	33	18	13	36	9	13	37	0	13
0.8a	0	40	0	28	35	19	46	25	23	57	16	24	63	7	23	65	0	23
0.7a	0	28	0	34	25	24	58	18	31	74	11	32	82	5	31	85	0	30
0.6a	0	15	0	38	13	28	66	10	36	83	6	37	93	3	36	96	0	35
0.5a	0	0	0	39	0	29	68	0	37	86	0	38	97	0	37	100	0	37
0.4a	0	15	0	38	13	28	66	10	36	83	6	37	93	3	36	96	0	35
0.3a	0	28	0	34	25	24	58	18	31	74	11	32	82	5	31	85	0	30
0.2a	0	40	0	28	35	19	46	25	23	57	16	24	63	7	23	65	0	23
0.1a	0	49	0	17	42	11	27	30	13	33	18	13	36	9	13	37	0	13
BOT.	0	53	0	0	44	0	0	31	0	0	19	0	0	9	0	0	0	0

Table 126 Moment Coefficients for Panels having Case 10 Arrangements for *b/a* = 1.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	51	0	0	44	0	0	33	0	0	21	0	0	10	0	0	0	0
0.9a	0	48	0	15	42	10	24	31	13	30	20	14	33	10	14	34	0	14
0.8a	0	39	0	24	35	18	41	26	23	52	17	25	58	8	25	60	0	25
0.7a	0	27	0	30	25	23	52	19	31	66	12	33	75	6	33	77	0	33
0.6a	0	14	0	33	13	26	58	10	36	75	7	38	84	3	38	87	0	38
0.5a	0	0	0	34	0	27	60	0	37	77	0	40	87	0	40	91	0	40
0.4a	0	14	0	33	13	26	58	10	36	75	7	38	84	3	38	87	0	38
0.3a	0	27	0	30	25	23	52	19	31	66	12	33	75	6	33	77	0	33
0.2a	0	39	0	24	35	18	41	26	23	52	17	25	58	88	25	60	0	25
0.1a	0	48	0	15	42	10	24	31	13	30	20	14	33	10	14	34	0	14
BOT.	0	51	0	0	44	0	0	33	0	0	21	0	0	10	0	0	0	0

Table 127 Moment Coefficients for Panels having Case 10 Arrangements for *b/a* = 1.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	49	0	0	43	0	0	33	0	0	22	0	0	11	0	0	0	0
0.9a	0	45	0	13	41	10	21	31	13	27	21	14	30	10	14	31	0	14
0.8a	0	37	0	20	34	17	35	26	23	45	18	26	51	9	26	53	0	26
0.7a	0	26	0	25	24	21	44	19	31	57	13	14	65	6	35	67	0	35
0.6a	0	14	0	27	13	24	49	10	35	64	7	39	73	3	40	76	0	41
0.5a	0	0	0	28	0	25	50	0	37	66	0	41	75	0	42	78	0	43
0.4a	0	14	0	27	13	24	49	10	35	64	7	39	73	3	40	76	0	41
0.3a	0	26	0	25	24	21	44	19	31	57	13	34	65	6	35	67	0	35
0.2a	0	37	0	20	34	17	35	26	23	45	18	26	51	9	26	53	0	26
0.1a	0	45	0	13	41	10	21	31	13	27	21	14	30	10	14	31	0	14
BOT.	0	49	0	0	43	0	0	33	0	0	22	0	0	11	0	0	0	0

Table 128 Moment Coefficients for Panels having Case 10 Arrangements for *b/a* = 1.25

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	45	0	0	40	0	0	31	0	0	21	0	0	11	0	0	0	0
0.9a	0	41	0	10	38	9	18	30	13	22	20	14	25	10	15	26	0	15
0.8a	0	33	0	16	31	15	28	25	22	37	17	26	42	9	27	43	0	28
0.7a	0	23	0	20	22	20	35	18	30	46	12	34	52	6	36	55	0	37
0.6a	0	12	0	21	11	22	39	9	34	51	7	40	58	3	42	61	0	43
0.5a	0	0	0	22	0	23	40	0	35	52	0	41	60	0	44	63	0	45
0.4a	0	12	0	21	11	22	39	9	34	51	7	40	58	3	42	61	0	43
0.3a	0	23	0	20	22	20	35	18	30	46	12	34	52	6	36	55	0	37
0.2a	0	33	0	16	31	15	28	25	22	37	17	26	42	9	27	43	0	28
0.1a	0	41	0	10	38	9	18	30	13	22	20	14	25	10	15	26	0	15
BOT.	0	45	0	0	40	0	0	31	0	0	21	0	0	11	0	0	0	0

Table 129 Moment Coefficients for Panels having Case 10 Arrangements for *b/a* = 1.0

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	37	0	0	34	0	0	27	0	0	19	0	0	10	0	0	0	0
0.9a	0	34	0	8	31	8	13	22	12	17	18	14	19	9	15	20	0	15
0.8a	0	27	0	12	25	13	21	21	21	27	15	25	31	8	27	32	0	28
0.7a	0	19	0	14	18	17	25	15	27	33	10	33	38	5	36	39	0	37
0.6a	0	10	0	15	9	19	27	8	31	36	5	38	41	3	41	43	0	42
0.5a	0	0	0	15	0	20	28	0	32	37	0	39	42	0	43	44	0	44
0.4a	0	10	0	15	9	19	27	8	31	36	5	38	41	3	41	43	0	42
0.3a	0	19	0	14	18	17	25	15	27	33	10	33	38	5	36	39	0	37
0.2a	0	27	0	12	25	13	21	21	21	27	15	25	31	8	27	32	0	28
0.1a	0	34	0	8	31	8	13	25	12	17	18	14	19	9	15	20	0	15
BOT.	0	37	0	0	34	0	0	27	0	0	19	0	0	10	0	0	0	0

Table 130 Moment Coefficients for Panels having Case 10 Arrangements for *b/a* = 0.75

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b / 0.9b			0.2b / 0.8b			0.3b / 0.7b			0.4b / 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	26	0	0	24	0	0	19	0	0	14	0	0	7	0	0	0	0
0.9a	0	23	0	5	22	6	9	18	10	11	13	12	13	7	13	13	0	14
0.8a	0	18	0	7	17	11	13	14	17	17	10	21	19	5	24	20	0	24
0.7a	0	12	0	8	12	13	15	10	22	19	7	28	22	4	31	23	0	32
0.6a	0	6	0	8	6	15	15	5	25	20	4	32	23	2	36	25	0	37
0.5a	0	0	0	8	0	15	15	0	26	21	0	33	24	0	37	25	0	38
0.4a	0	6	0	8	6	15	15	5	25	20	4	32	23	2	36	25	0	37
0.3a	0	12	0	8	12	13	15	10	22	19	7	28	22	4	31	23	0	32
0.2a	0	18	0	7	17	11	13	14	17	17	10	21	19	5	24	20	0	24
0.1a	0	23	0	5	22	6	9	18	10	11	13	12	13	7	13	13	0	14
BOT.	0	26	0	0	24	0	0	19	0	0	14	0	0	7	0	0	0	0

Table 131 Moment Coefficients for Panels having Case 10 Arrangements for *b/a* = 0.5

(*Table* 1, *Clauses* 3.1 *and* 3.1.4)

Moment Coefficients	END			0.1b 0.9b			0.2b 0.8b			0.3b 0.7b			0.4b 0.6b			0.5b		
	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}	M_{xc}	M_{xyc}	M_{yc}
TOP	0	13	0	0	13	0	0	10	0	0	7	0	0	4	0	0	0	0
0.9a	0	11	0	3	11	4	5	9	7	6	6	9	7	3	9	7	0	10
0.8a	0	8	0	3	7	7	6	6	11	8	5	15	9	2	16	9	0	17
0.7a	0	5	0	3	5	8	6	4	14	8	3	18	9	2	21	10	0	22
0.6a	0	2	0	3	2	9	6	2	16	8	1	21	9	1	23	9	0	24
0.5a	0	0	0	3	0	9	6	0	16	8	0	21	9	0	24	9	0	25
0.4a	0	2	0	3	2	9	6	2	16	8	1	21	9	1	23	9	0	24
0.3a	0	5	0	3	5	8	6	4	14	8	3	18	9	2	21	10	0	22
0.2a	0	8	0	3	7	7	6	6	11	8	5	15	9	2	16	9	0	17
0.1a	0	11	0	3	11	4	5	9	7	6	6	9	7	3	9	7	0	10
BOT.	0	13	0	0	12	0	0	10	0	0	7	0	0	4	0	0	0	0

ANNEX A

(*Foreword*)

COMMITTEE COMPOSITION

Cement and Concrete Sectional Committee, CED 02

Organization	*Representative(s)*
In Personal Capacity (*Grace Villa, Kadamankulam P.O., Thiruvalla 689 583*)	Shri Jose Kurian (***Chairman***)
ACC Ltd, Mumbai	Shri Rajesh J. Modi Dr Manish V. Karandikar (*Alternate*)
Ambuja Cements Limited, Ahmedabad	Shri Umesh P. Soni Shri Sukuru Ramarao (*Alternate*)
Atomic Energy Regulatory Board, Mumbai	Shri L. R. Bishnoi Shri Sourav Acharya (*Alternate*)
Builders' Association of India, Mumbai	Shri Sushanta Kumar Basu Shri D. R. Sekor (*Alternate*)
Building Materials and Technology Promotion Council, New Delhi	Shri C. N. Jha
Cement Manufacturers' Association, Noida	Dr V. Ramachandra Ms Shashwati Ghosh (*Alternate*)
Central Public Works Department, New Delhi	Shri D. K. Garg Shri Naveen Kumar Bansal (*Alternate*)
Central Soil and Materials Research Station, New Delhi	Director Shri U. S. Vidyarthi (*Alternate*)
Central Water Commission, New Delhi	Director (CMDD) (N&W) Deputy Director (CMDD) (NW&S) (*Alternate)*
Conmat Technolgies Pvt Ltd, Kolkata	Dr A. K. Chatterjee Dr Subrato Chowdhury (*Alternate*)
Construction Chemicals Manufacturers' Association, Mumbai	Shri Samir Surlaker Shri Nilotpol Kar (*Alternate*)
CSIR – Central Building Research Institute, Roorkee	Shri S. K. Singh Shri Subhash Gurram (*Alternate*)
CSIR – Central Road Research Institute, New Delhi	Dr Rakesh Kumar Dr V. V. L. Kanta Rao (*Alternate*)
CSIR – Structural Engineering Research Centre, Chennai	Dr K. Ramanjaneyulu Dr P. Srinivasan (*Alternate*)
Delhi Development Authority, New Delhi	Shri Laxman Singh Shri Vijay Shankar (*Alternate*)
Department of Science and Technology, Ministry of Science and Technology, New Delhi	Shri S. S. Kohli
Engineers India Limited, New Delhi	Shri Rajanji Srivastava Shri Anurag Sinha (*Alternate*)
Gammon India Limited, Mumbai	Shri Shriram B. Kulkarni Shri Rahul Biradar (*Alternate*)
Hindustan Construction Company Limited, Mumbai	Shri Satish Kumar Sharma Shri Mukesh Valecha (*Alternate*)

Organization	*Representative(s)*
Housing and Urban Development Corporation Limited, New Delhi	Representative
Indian Association of Structural Engineers, New Delhi	Shri Mahesh Tandon Shri Ganesh Juneja (*Alternate*)
Indian Concrete Institute, Chennai	Shri Vivek Naik Secretary General (*Alternate*)
Indian Institute of Technology Delhi, New Delhi	Dr Shashank Bishnoi Dr Dipti Ranjan Sahoo (*Alternate*)
Indian Institute of Technology Madras, Chennai	Dr Devdas Menon Dr Manu Santhanam (*Alternate*)
Indian Institute of Technology Roorkee, Roorkee	Dr V. K. Gupta Dr Bhupinder Singh (*Alternate*)
Indian Roads Congress, New Delhi	Shri S. K. Nirmal Shri R. V. Patil (*Alternate*)
Military Engineer Services, Engineer-in-Chief's Branch, Army HQ, New Delhi	Maj Gen S. K. Srivastav Shri Man Singh (*Alternate*)
Ministry of Road Transport and Highways, New Delhi	Shri Y. Balakrishna Shri Sanjeev Kumar (*Alternate*)
National Council for Cement and Building Materials, Ballabgarh	Shri V. V. Arora Dr S. K. Chaturvedi (*Alternate*)
National Test House, Kolkata	Shri D. V. S. Prasad Dr Somit Neogi (*Alternate*)
Nuclear Power Corporation of India Ltd, Mumbai	Shri Arvind Shrivastava Shri Raghupati Roy (*Alternate*)
Nuvoco Vistas Corporation Limited, Mumbai	Shri Pranav Desai Shri Ravindra Khamparia (*Alternate*)
Public Works Department, Govt of Tamil Nadu, Chennai	Superintending Engineer Executive Engineer (*Alternate*)
The India Cements Limited, Chennai	Representative
The Indian Hume Pipe Company Limited, Mumbai	Shri P. R. Bhat Shri S. J. Shah (*Alternate*)
The Institution of Engineers (India), Kolkata	Dr H. C. Visvesvaraya Shri S. H. Jain (*Alternate*)
The Ramco Cements Limited, Chennai	Shri Balaji K. Moorthy Shri Anil Kumar Pillai (*Alternate*)
Ultra Tech Cement Ltd, Mumbai	Shri Surya Valluri Dr M. R. Kalgal (*Alternate*)
Voluntary Organization in Interest of Consumer Education, New Delhi	Shri M. A. U. Khan Shri B. Mukhopadhyay (*Alternate*)
In personal capacity [*B-803, Oberoi Exquisite, Oberoi Garden City, Goregaon (East), Mumbai*]	Shri A. K. Jain

Organization	*Representative(s)*
In personal capacity (*36, Old Sneh Nagar, Wardha Road, Nagpur*)	Shri L. K. Jain
In personal capacity (*EA-92, Maya Enclave, Hari Nagar, New Delhi*)	Shri R. C. Wason
BIS Directorate General	Shri Sanjay Pant, Scientist 'F' and Head (Civil Engineering) [Representing Director General (*Ex-officio*)]

Member Secretary
Shri S. Arun Kumar
Scientist 'E' (Civil Engineering), BIS

and

Shri Milind Gupta
Scientist 'C' (Civil Engineering), BIS

Concrete Subcommittee, CED 2:2

Organization	*Representative(s)*
In personal capacity (*Grace Villa, Kadamankulam P.O., Thiruvalla 689 583*)	Shri Jose Kurian (***Convener***)
ACC Limited, Mumbai	Shri Prahlad Mujumdar Shri Anil Kulkarni (*Alternate*)
Ambuja Cements Limited, Ahmedabad	Shri Umesh P. Soni Shri Sukuru Ramarao (*Alternate*)
AFCONS Infrastructure Limited, Mumbai	Shri Manish Mokal
Association of Consulting Civil Engineers (India), Bengaluru	Shri Avinash D. Shirode Shri K. K. Meghashyam (*Alternate*)
Atomic Energy Regulatory Board, Mumbai	Shri L. R. Bishnoi Shri Sourav Acharya (*Alternate*)
Building Materials and Technology Promotion Council, New Delhi	Shri Pankaj Gupta
Bureau of Design for Hydel and Irrigation Project, Bhopal	Shri S. K. Khare Shri Bhagwati Prasad Gupta (*Alternate*)
Bureau Veritas India Ltd, Mumbai	Representative
Central Public Works Department, New Delhi	Shri D. K. Garg Shri Rajesh Khare (*Alternate*)
Central Soil and Materials Research Station, New Delhi	Shri Rajeev Kumar Shri Raj Kumar (*Alternate*)
Creative Design Consultants & Engineers Pvt Ltd, Ghaizabad	Shri Aman Deep Garg Shri Manik Chatterjee (*Alternate*)
CSIR – Central Building Research Institute, Roorkee	Dr Rajesh Deolia Shri H. C. Arora (*Alternate*)
CSIR – Central Road Research Institute, New Delhi	Shri J. B. Sengupta Shri Satish Pandey (*Alternate*)
CSIR – Structural Engineering Research Centre, Chennai	Dr B. H. Bharathkumar Dr P. Srinivasan (*Alternate*)

Organization	*Representative(s)*
Department of Science and Technology, Ministry of Science and Technology, New Delhi	Shri S. S. Kohli
Elkem South Asia Pvt Ltd, Navi Mumbai	Shri Brajesh Malviya Shri Surendra Sharma (*Alternate*)
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(*Continued from second cover*)

The Sectional Committee responsible for the formulation of this standard has taken into consideration the views of engineers and technologists and has related the standard to the practices followed in the country in this field. Due weightage has also been given to the need for international coordination among the standards prevailing in different countries of the world. These considerations led the Sectional Committee to derive assistance from published materials of British Standards Institution and Portland Cement Association, Illinois, USA. Tables have been reproduced from the following publications of Portland Cement Association, Illinois, USA: Rectangular Concrete Tanks (*revised fifth edition*) and the same is thankfully acknowledged.

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