

# **LOAD TABLES AND MAXIMUM ALLOWED SPANS ECOPANEL FL**

## **1. INTRODUCTION**

In the present technical report are shown the load tables for the self-supporting double skin metal face thermo-insulating panels manufactured by ELASTRON S.A.:

**ECOPANEL FL - cold rooms / storage panels of nominal thickness 80-100-120-150-180 mm**

## **2. LOAD TABLES AND MAXIMUM ALLOWED SPANS**

The following tables have been calculated according the instruction and calculation formulas of the European Standard EN14509:2013, Annex E, Tables E.10.1 and E.10.2.

The following must be observed when using the tables:

- The characteristics loads are calculated in  $\text{daN/m}^2$
- The span tables refer to buildings with normal interior climate and they are not valid for buildings of particular conditions of very high and/or very low values of temperature and humidity.
- In the case of roof panels the values of the tables are valid only for the closed constructions as those are defined in the Eurocode 1.
- For colour groups I (very light) II (light) III (dark) consult the Table 1. that follows.
- For application the suitable maximum allowed span is the smallest than the ones mentioned in corresponding two tables snow load / wind suction load (for the tables of roof panels ) and wind - pressure / suction load (for the tables of wall cladding panels).
- The values in the tables have been calculate taking onto account the most unfavourable conditions of load. The maximum deflection arrow is  $L / 150$ .
- For static support systems with more than three spans, valid are the values reported in the tables with the three spans.
- In the loads of the panels in case of horizontal position (roof panels or false ceiling) should be added the weight of the panel reported in Table 2.

| RAL  | COLOURING       | GROUP |
|------|-----------------|-------|
| 9010 | pure white      | I     |
| 9001 | cream white     |       |
| 1013 | pearl white     |       |
| 1015 | light ivory     |       |
| 9002 | grey-white      |       |
| 1018 | zinc yellow     |       |
| 1016 | sulphur yellow  |       |
| 7035 | light grey      |       |
| 1001 | beige           | II    |
| 1002 | sand yellow     |       |
| 7038 | agate grey      |       |
| 7032 | cream grey      |       |
| 9006 | white aluminium |       |
| 1007 | chromium yellow |       |
| 1024 | ochre yellow    |       |
| 2003 | pastel orange   |       |
| 6021 | pale green      |       |
| 1020 | olive yellow    |       |
| 7001 | silver grey     |       |
| 2000 | yellow orange   |       |
| 6018 | yellow green    |       |
| 7002 | olive grey      |       |
| 6011 | reseda green    |       |
| 5012 | light blue      |       |
| 2004 | pure orange     |       |
| 8003 | orange brown    |       |
| 2001 | red orange      |       |

| RAL  | COLOURING        | GROUP |
|------|------------------|-------|
| 2002 | blood orange     | III   |
| 6010 | grass green      |       |
| 8025 | pale brown       |       |
| 8004 | copper brown     |       |
| 5007 | brilliant blue   |       |
| 6001 | emerald green    |       |
| 9000 | fire red         |       |
| 6002 | leave red        |       |
| 3002 | carmine red      |       |
| 6003 | olive green      |       |
| 3009 | oxide red        |       |
| 5009 | sky blue         |       |
| 7015 | slate grey       |       |
| 8007 | deer brown       |       |
| 7013 | brown grey       |       |
| 5010 | gentian blue     |       |
| 8011 | walnut brown     |       |
| 6005 | moor green       |       |
| 7016 | anthracite grey  |       |
| 3004 | scarlet red      |       |
| 5002 | ultramarine blue |       |
| 8014 | sepia brown      |       |
| 8016 | mahogany brown   |       |
| 6008 | brown green      |       |
| 5013 | cobalt blue      |       |

**Table 1. Colour group**

| Type        | Thickness (mm) | Weight (kg/m <sup>2</sup> ) | Load (daN/m <sup>2</sup> ) |
|-------------|----------------|-----------------------------|----------------------------|
| ECOPANEL-FL | 80             | 10.38                       | 10.2                       |
| ECOPANEL-FL | 100            | 11.18                       | 11.0                       |
| ECOPANEL-FL | 120            | 11.98                       | 11.8                       |
| ECOPANEL-FL | 150            | 13.18                       | 12.9                       |
| ECOPANEL-FL | 180            | 14.38                       | 14.1                       |

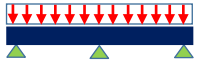
**Table 2. Panel's weight**

**Following the maximum allowed spans**

## ECOPANEL FL 80

### WIND PRESSURE LOAD

STEEL SHEET THICKNESS  $t=0.45/0.40\text{mm}$

| STATIC SYSTEM                                                                                    | COLOUR GROUP | UNOFORMLY DISTRIBUTED LAOD (daN/m <sup>2</sup> ) |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                                  |              | 50                                               | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  |
|                                                                                                  |              | MAXIMUM ALLOWABLE SPANS (m)                      |      |      |      |      |      |      |      |      |      |      |      |      |
| SINGLE SPAN<br> | I-II-III     | 5,26                                             | 4,52 | 4,04 | 3,67 | 3,39 | 3,16 | 2,96 | 2,79 | 2,64 | 2,51 | 2,40 | 2,19 | 2,03 |
| TWO SPANS<br>   | I            | 6,98                                             | 5,83 | 5,07 | 4,52 | 4,09 | 3,56 | 3,14 | 2,80 | 2,54 | 2,33 | 2,15 | 1,87 | 1,66 |
|                                                                                                  | II           | 6,74                                             | 5,64 | 4,92 | 4,38 | 3,97 | 3,56 | 3,14 | 2,80 | 2,54 | 2,33 | 2,15 | 1,87 | 1,66 |
|                                                                                                  | III          | 6,39                                             | 5,36 | 4,68 | 4,17 | 3,78 | 3,46 | 3,14 | 2,80 | 2,54 | 2,33 | 2,15 | 1,87 | 1,66 |
| THREE SPANS<br> | I            | 6,45                                             | 5,47 | 4,82 | 4,33 | 3,96 | 3,65 | 3,29 | 2,92 | 2,64 | 2,40 | 2,21 | 1,91 | 1,68 |
|                                                                                                  | II           | 6,19                                             | 5,27 | 4,65 | 4,19 | 3,83 | 3,54 | 3,29 | 2,92 | 2,64 | 2,40 | 2,21 | 1,91 | 1,68 |
|                                                                                                  | III          | 5,80                                             | 4,97 | 4,40 | 3,98 | 3,65 | 3,37 | 3,14 | 2,92 | 2,64 | 2,40 | 2,21 | 1,91 | 1,68 |

### WIND SUCTION LOAD

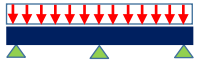
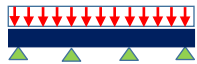
STEEL SHEET THICKNESS  $t=0.45/0.40\text{mm}$

| STATIC SYSTEM                                                                                      | COLOUR GROUP | UNOFORMLY DISTRIBUTED LAOD (daN/m <sup>2</sup> ) |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                                    |              | 50                                               | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  |
|                                                                                                    |              | MAXIMUM ALLOWABLE SPANS (m)                      |      |      |      |      |      |      |      |      |      |      |      |      |
| SINGLE SPAN<br> | I-II-III     | 5,26                                             | 4,52 | 4,04 | 3,67 | 3,39 | 3,16 | 2,96 | 2,79 | 2,64 | 2,51 | 2,40 | 2,19 | 2,03 |
| TWO SPANS<br>   | I            | 6,92                                             | 5,79 | 5,07 | 4,52 | 4,09 | 3,56 | 3,14 | 2,80 | 2,54 | 2,33 | 2,15 | 1,87 | 1,66 |
|                                                                                                    | II           | 6,23                                             | 5,27 | 4,70 | 4,32 | 3,97 | 3,56 | 3,14 | 2,80 | 2,54 | 2,33 | 2,15 | 1,87 | 1,66 |
|                                                                                                    | III          | 5,16                                             | 4,48 | 4,06 | 3,77 | 3,56 | 3,39 | 3,14 | 2,80 | 2,54 | 2,33 | 2,15 | 1,87 | 1,66 |
| THREE SPANS<br> | I            | 6,45                                             | 5,47 | 4,82 | 4,33 | 3,96 | 3,65 | 3,29 | 2,92 | 2,64 | 2,40 | 2,21 | 1,91 | 1,68 |
|                                                                                                    | II           | 6,19                                             | 5,27 | 4,65 | 4,19 | 3,83 | 3,54 | 3,29 | 2,92 | 2,64 | 2,40 | 2,21 | 1,91 | 1,68 |
|                                                                                                    | III          | 5,80                                             | 4,97 | 4,40 | 3,98 | 3,65 | 3,37 | 3,14 | 2,92 | 2,64 | 2,40 | 2,21 | 1,91 | 1,68 |

## ECOPANEL FL 100

### WIND PRESSURE LOAD

STEEL SHEET THICKNESS  $t=0.45/0.40\text{mm}$

| STATIC SYSTEM                                                                                    | COLOUR GROUP | UNOFORMLY DISTRIBUTED LAOD ( $\text{daN/m}^2$ ) |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                                  |              | 50                                              | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  |
|                                                                                                  |              | MAXIMUM ALLOWABLE SPANS (m)                     |      |      |      |      |      |      |      |      |      |      |      |      |
| SINGLE SPAN<br> | I-II-III     | 6,21                                            | 5,35 | 4,78 | 4,36 | 4,03 | 3,76 | 3,53 | 3,33 | 3,16 | 3,01 | 2,87 | 2,64 | 2,44 |
| TWO SPANS<br>   | I            | 8,26                                            | 6,93 | 6,05 | 5,41 | 4,91 | 4,47 | 3,93 | 3,51 | 3,18 | 2,91 | 2,68 | 2,33 | 2,07 |
|                                                                                                  | II           | 8,01                                            | 6,73 | 5,88 | 5,26 | 4,78 | 4,38 | 3,93 | 3,51 | 3,18 | 2,91 | 2,68 | 2,33 | 2,07 |
|                                                                                                  | III          | 7,63                                            | 6,43 | 5,63 | 5,04 | 4,58 | 4,20 | 3,89 | 3,51 | 3,18 | 2,91 | 2,68 | 2,33 | 2,07 |
| THREE SPANS<br> | I            | 7,63                                            | 6,48 | 5,72 | 5,16 | 4,73 | 4,37 | 4,07 | 3,66 | 3,30 | 3,01 | 2,76 | 2,38 | 2,10 |
|                                                                                                  | II           | 7,34                                            | 6,26 | 5,54 | 5,01 | 4,59 | 4,25 | 3,96 | 3,66 | 3,30 | 3,01 | 2,76 | 2,38 | 2,10 |
|                                                                                                  | III          | 6,92                                            | 5,94 | 5,28 | 4,78 | 4,39 | 4,07 | 3,79 | 3,56 | 3,30 | 3,01 | 2,76 | 2,38 | 2,10 |

### WIND SUCTION LOAD

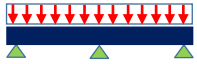
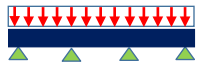
STEEL SHEET THICKNESS  $t=0.45/0.40\text{mm}$

| STATIC SYSTEM                                                                                      | COLOUR GROUP | UNOFORMLY DISTRIBUTED LAOD ( $\text{daN/m}^2$ ) |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                                    |              | 50                                              | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  |
|                                                                                                    |              | MAXIMUM ALLOWABLE SPANS (m)                     |      |      |      |      |      |      |      |      |      |      |      |      |
| SINGLE SPAN<br> | I-II-III     | 6,21                                            | 5,35 | 4,78 | 4,36 | 4,03 | 3,76 | 3,53 | 3,33 | 3,16 | 3,01 | 2,87 | 2,64 | 2,44 |
| TWO SPANS<br>   | I            | 7,78                                            | 6,51 | 5,77 | 5,26 | 4,89 | 4,47 | 3,93 | 3,51 | 3,18 | 2,91 | 2,68 | 2,33 | 2,07 |
|                                                                                                    | II           | 7,02                                            | 5,94 | 5,29 | 4,85 | 4,53 | 4,28 | 3,93 | 3,51 | 3,18 | 2,91 | 2,68 | 2,33 | 2,07 |
|                                                                                                    | III          | 5,83                                            | 5,05 | 4,58 | 4,25 | 4,01 | 3,82 | 3,66 | 3,51 | 3,18 | 2,91 | 2,68 | 2,33 | 2,07 |
| THREE SPANS<br> | I            | 7,63                                            | 6,48 | 5,72 | 5,16 | 4,73 | 4,37 | 4,07 | 3,66 | 3,30 | 3,01 | 2,76 | 2,38 | 2,10 |
|                                                                                                    | II           | 7,34                                            | 6,26 | 5,54 | 5,01 | 4,59 | 4,25 | 3,96 | 3,66 | 3,30 | 3,01 | 2,76 | 2,38 | 2,10 |
|                                                                                                    | III          | 6,92                                            | 5,94 | 5,28 | 4,78 | 4,39 | 4,07 | 3,79 | 3,56 | 3,30 | 3,01 | 2,76 | 2,38 | 2,10 |

## ECOPANEL FL 120

### WIND PRESSURE LOAD

STEEL SHEET THICKNESS  $t=0.45/0.40\text{mm}$

| STATIC SYSTEM                                                                                    | COLOUR GROUP | UNOFORMLY DISTRIBUTED LAOD (daN/m <sup>2</sup> ) |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                                  |              | 50                                               | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  |
|                                                                                                  |              | MAXIMUM ALLOWABLE SPANS (m)                      |      |      |      |      |      |      |      |      |      |      |      |      |
| SINGLE SPAN<br> | I-II-III     | 7,10                                             | 6,13 | 5,48 | 5,00 | 4,63 | 4,32 | 4,07 | 3,84 | 3,65 | 3,48 | 3,32 | 3,06 | 2,84 |
| TWO SPANS<br>   | I            | 9,47                                             | 7,96 | 6,97 | 6,25 | 5,69 | 5,23 | 4,73 | 4,22 | 3,82 | 3,49 | 3,22 | 2,79 | 2,47 |
|                                                                                                  | II           | 9,20                                             | 7,71 | 6,80 | 6,09 | 5,55 | 5,10 | 4,73 | 4,22 | 3,82 | 3,49 | 3,22 | 2,79 | 2,47 |
|                                                                                                  | III          | 8,05                                             | 6,81 | 6,08 | 5,58 | 5,21 | 4,91 | 4,55 | 4,22 | 3,82 | 3,49 | 3,22 | 2,79 | 2,47 |
| THREE SPANS<br> | I            | 8,73                                             | 7,44 | 6,58 | 5,95 | 5,45 | 5,05 | 4,71 | 4,40 | 3,97 | 3,61 | 3,32 | 2,86 | 2,52 |
|                                                                                                  | II           | 8,43                                             | 7,20 | 6,39 | 5,78 | 5,31 | 4,92 | 4,59 | 4,31 | 3,97 | 3,61 | 3,32 | 2,86 | 2,52 |
|                                                                                                  | III          | 7,98                                             | 6,86 | 6,10 | 5,54 | 5,09 | 4,73 | 4,42 | 4,15 | 3,92 | 3,61 | 3,32 | 2,86 | 2,52 |

### WIND SUCTION LOAD

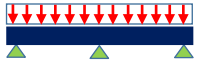
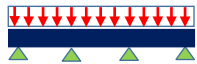
STEEL SHEET THICKNESS  $t=0.45/0.40\text{mm}$

| STATIC SYSTEM                                                                                      | COLOUR GROUP | UNOFORMLY DISTRIBUTED LAOD (daN/m <sup>2</sup> ) |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                                    |              | 50                                               | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  |
|                                                                                                    |              | MAXIMUM ALLOWABLE SPANS (m)                      |      |      |      |      |      |      |      |      |      |      |      |      |
| SINGLE SPAN<br> | I-II-III     | 7,10                                             | 6,13 | 5,48 | 5,00 | 4,63 | 4,32 | 4,07 | 3,84 | 3,65 | 3,48 | 3,32 | 3,06 | 2,84 |
| TWO SPANS<br>   | I            | 7,76                                             | 6,53 | 5,80 | 5,31 | 4,95 | 4,67 | 4,44 | 4,22 | 3,82 | 3,49 | 3,22 | 2,79 | 2,47 |
|                                                                                                    | II           | 6,87                                             | 5,86 | 5,26 | 4,85 | 4,55 | 4,31 | 4,12 | 3,96 | 3,82 | 3,49 | 3,22 | 2,79 | 2,47 |
|                                                                                                    | III          | 5,51                                             | 4,87 | 4,46 | 4,18 | 3,97 | 3,80 | 3,65 | 3,54 | 3,43 | 3,34 | 3,22 | 2,79 | 2,47 |
| THREE SPANS<br> | I            | 8,73                                             | 7,33 | 6,41 | 5,78 | 5,32 | 4,97 | 4,69 | 4,40 | 3,97 | 3,61 | 3,32 | 2,86 | 2,52 |
|                                                                                                    | II           | 8,01                                             | 6,64 | 5,83 | 5,28 | 4,88 | 4,57 | 4,32 | 4,11 | 3,94 | 3,61 | 3,32 | 2,86 | 2,52 |
|                                                                                                    | III          | 6,56                                             | 5,52 | 4,90 | 4,49 | 4,18 | 3,94 | 3,75 | 3,59 | 3,45 | 3,34 | 3,24 | 2,86 | 2,52 |

## ECOPANEL FL 150

### WIND PRESSURE LOAD

STEEL SHEET THICKNESS  $t=0.45/0.40\text{mm}$

| STATIC SYSTEM                                                                                    | COLOUR GROUP | UNOFORMLY DISTRIBUTED LAOD ( $\text{daN/m}^2$ ) |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                                  |              | 50                                              | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  |
|                                                                                                  |              | MAXIMUM ALLOWABLE SPANS (m)                     |      |      |      |      |      |      |      |      |      |      |      |      |
| SINGLE SPAN<br> | I-II-III     | 8,37                                            | 7,23 | 6,47 | 5,92 | 5,48 | 5,13 | 4,83 | 4,57 | 4,35 | 4,15 | 3,97 | 3,66 | 3,40 |
| TWO SPANS<br>   | I            | 10,56                                           | 8,80 | 7,75 | 7,05 | 6,53 | 6,09 | 5,68 | 5,29 | 4,78 | 4,36 | 4,02 | 3,48 | 3,08 |
|                                                                                                  | II           | 9,70                                            | 8,13 | 7,20 | 6,58 | 6,12 | 5,76 | 5,40 | 5,08 | 4,78 | 4,36 | 4,02 | 3,48 | 3,08 |
|                                                                                                  | III          | 8,33                                            | 7,09 | 6,36 | 5,86 | 5,49 | 5,20 | 4,97 | 4,69 | 4,46 | 4,26 | 4,02 | 3,48 | 3,08 |
| THREE SPANS<br> | I            | 10,30                                           | 8,79 | 7,79 | 7,06 | 6,49 | 6,01 | 5,62 | 5,29 | 4,97 | 4,52 | 4,15 | 3,57 | 3,14 |
|                                                                                                  | II           | 9,97                                            | 8,54 | 7,58 | 6,81 | 6,21 | 5,75 | 5,37 | 5,06 | 4,80 | 4,52 | 4,15 | 3,57 | 3,14 |
|                                                                                                  | III          | 9,48                                            | 8,12 | 7,04 | 6,30 | 5,76 | 5,34 | 5,00 | 4,72 | 4,48 | 4,27 | 4,09 | 3,57 | 3,14 |

### WIND SUCTION LOAD

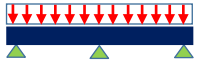
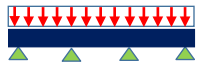
STEEL SHEET THICKNESS  $t=0.45/0.40\text{mm}$

| STATIC SYSTEM                                                                                      | COLOUR GROUP | UNOFORMLY DISTRIBUTED LAOD ( $\text{daN/m}^2$ ) |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                                    |              | 50                                              | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  |
|                                                                                                    |              | MAXIMUM ALLOWABLE SPANS (m)                     |      |      |      |      |      |      |      |      |      |      |      |      |
| SINGLE SPAN<br> | I-II-III     | 8,37                                            | 7,23 | 6,47 | 5,92 | 5,48 | 5,13 | 4,83 | 4,57 | 4,35 | 4,15 | 3,97 | 3,66 | 3,40 |
| TWO SPANS<br>   | I            | 7,74                                            | 6,57 | 5,87 | 5,40 | 5,05 | 4,78 | 4,56 | 4,38 | 4,22 | 4,09 | 3,97 | 3,48 | 3,08 |
|                                                                                                    | II           | 6,69                                            | 5,79 | 5,25 | 4,87 | 4,59 | 4,37 | 4,19 | 4,04 | 3,91 | 3,80 | 3,70 | 3,48 | 3,08 |
|                                                                                                    | III          | 5,18                                            | 4,68 | 4,36 | 4,13 | 3,95 | 3,80 | 3,68 | 3,57 | 3,48 | 3,40 | 3,32 | 3,20 | 3,08 |
| THREE SPANS<br> | I            | 8,86                                            | 7,33 | 6,43 | 5,82 | 5,37 | 5,03 | 4,75 | 4,52 | 4,33 | 4,16 | 4,02 | 3,57 | 3,14 |
|                                                                                                    | II           | 7,78                                            | 6,49 | 5,73 | 5,22 | 4,84 | 4,55 | 4,31 | 4,12 | 3,95 | 3,81 | 3,69 | 3,48 | 3,14 |
|                                                                                                    | III          | 5,99                                            | 5,13 | 4,63 | 4,28 | 4,02 | 3,82 | 3,65 | 3,51 | 3,40 | 3,29 | 3,20 | 3,05 | 2,93 |

## ECOPANEL FL 180

### WIND PRESSURE LOAD

STEEL SHEET THICKNESS  $t=0.45/0.40\text{mm}$

| STATIC SYSTEM                                                                                    | COLOUR GROUP | UNOFORMLY DISTRIBUTED LAOD ( $\text{daN/m}^2$ ) |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                                  |              | 50                                              | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  |
|                                                                                                  |              | MAXIMUM ALLOWABLE SPANS (m)                     |      |      |      |      |      |      |      |      |      |      |      |      |
| SINGLE SPAN<br> | I-II-III     | 9,56                                            | 8,26 | 7,41 | 6,78 | 6,29 | 5,88 | 5,55 | 5,26 | 5,00 | 4,78 | 4,58 | 4,23 | 3,94 |
| TWO SPANS<br>   | I            | 11,74                                           | 9,56 | 8,25 | 7,36 | 6,70 | 6,19 | 5,78 | 5,43 | 5,14 | 4,89 | 4,68 | 4,17 | 3,69 |
|                                                                                                  | II           | 10,16                                           | 8,54 | 7,58 | 6,90 | 6,30 | 5,83 | 5,45 | 5,14 | 4,88 | 4,65 | 4,45 | 4,12 | 3,69 |
|                                                                                                  | III          | 8,61                                            | 7,38 | 6,64 | 6,14 | 5,70 | 5,30 | 4,98 | 4,71 | 4,49 | 4,29 | 4,12 | 3,83 | 3,60 |
| THREE SPANS<br> | I            | 11,27                                           | 9,40 | 8,14 | 7,27 | 6,63 | 6,13 | 5,73 | 5,40 | 5,12 | 4,87 | 4,66 | 4,29 | 3,77 |
|                                                                                                  | II           | 10,76                                           | 8,91 | 7,71 | 6,90 | 6,29 | 5,83 | 5,45 | 5,14 | 4,87 | 4,65 | 4,45 | 4,12 | 3,77 |
|                                                                                                  | III          | 9,91                                            | 8,11 | 7,04 | 6,31 | 5,77 | 5,35 | 5,02 | 4,74 | 4,50 | 4,30 | 4,12 | 3,82 | 3,59 |

### WIND SUCTION LOAD

STEEL SHEET THICKNESS  $t=0.45/0.40\text{mm}$

| STATIC SYSTEM                                                                                      | COLOUR GROUP | UNOFORMLY DISTRIBUTED LAOD ( $\text{daN/m}^2$ ) |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                                    |              | 50                                              | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  | 275  | 300  | 350  | 400  |
|                                                                                                    |              | MAXIMUM ALLOWABLE SPANS (m)                     |      |      |      |      |      |      |      |      |      |      |      |      |
| SINGLE SPAN<br> | I-II-III     | 9,56                                            | 8,26 | 7,41 | 6,78 | 6,29 | 5,88 | 5,55 | 5,26 | 5,00 | 4,78 | 4,58 | 4,23 | 3,94 |
| TWO SPANS<br>   | I            | 7,73                                            | 6,61 | 5,95 | 5,49 | 5,15 | 4,89 | 4,68 | 4,50 | 4,34 | 4,21 | 4,10 | 3,90 | 3,69 |
|                                                                                                    | II           | 6,54                                            | 5,74 | 5,25 | 4,91 | 4,65 | 4,44 | 4,27 | 4,13 | 4,00 | 3,90 | 3,80 | 3,64 | 3,51 |
|                                                                                                    | III          | 4,96                                            | 4,58 | 4,31 | 4,11 | 3,95 | 3,82 | 3,71 | 3,62 | 3,53 | 3,46 | 3,39 | 3,27 | 3,17 |
| THREE SPANS<br> | I            | 8,84                                            | 7,34 | 6,46 | 5,86 | 5,42 | 5,09 | 4,81 | 4,59 | 4,40 | 4,24 | 4,09 | 3,86 | 3,67 |
|                                                                                                    | II           | 7,56                                            | 6,36 | 5,65 | 5,17 | 4,81 | 4,54 | 4,32 | 4,13 | 3,98 | 3,84 | 3,73 | 3,53 | 3,37 |
|                                                                                                    | III          | 5,48                                            | 4,81 | 4,40 | 4,11 | 3,90 | 3,72 | 3,58 | 3,46 | 3,36 | 3,27 | 3,19 | 3,05 | 2,94 |