

# **BRC**

# **Roll-Formed**

# **Products**



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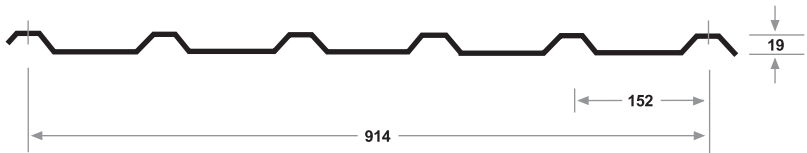
Rev.Date: 2001/06/25  
Rev. No: 1.0  
BRC-QD-030

# CLADDING

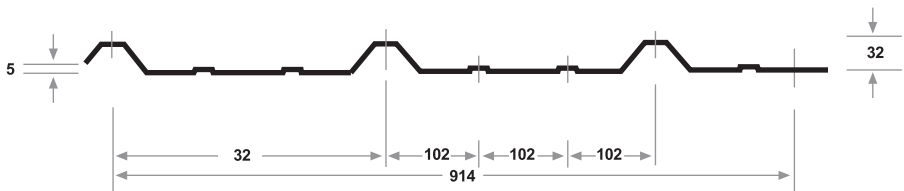
## 8/3 Panel Profile



## "U" Panel Profile



## "R" Panel Profile



**Profiles are available  
in Permaclad and Colourclad**

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# PERMACLAD

## Technical Data Sheet

### I. Product Description

Permaclad is a steel substrate coated on both sides with an alloy of Aluminium and Zinc by a hot-dipping process.

### II. Technical Characteristics

|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| <b>Quality:</b>               | Structural quality steel base to ASTM A792M, Grade 345A |
| <b>Min. Tensile strength:</b> | 450 N/mm <sup>2</sup>                                   |
| <b>Min. Yield strength:</b>   | 345 N/mm <sup>2</sup>                                   |
| <b>Min. Elongation:</b>       | 12% in 50mm                                             |

#### Coating characteristics

|                             |                                                          |
|-----------------------------|----------------------------------------------------------|
| <b>Coating composition:</b> | 55% Al, 43.4% Zn, 1.6% Si                                |
| <b>Min. coating mass:</b>   | AZ185 - 185 g/m <sup>2</sup> each side (25 microns/side) |
| <b>Surface finish:</b>      | smooth, spangle                                          |
| <b>Surface protection:</b>  | Chromated, resin-coated                                  |
| <b>Specific weight:</b>     | 3.75 g/cm <sup>3</sup>                                   |

#### Formability

Very good behaviour

- in bending
- in roll-forming
- in drawing

#### High temperature behaviour

- no discoloration to 315°C (600°F)

#### Heat reflectivity

- similar behaviour to aluminized steel up 315 C°(600 F)°

#### Painting

- very good paintability
- excellent adherence

NOTE: Resin coated finish can be painted immediately however, if any oil appears on the surface this should be cleaned with a mild detergent solution. Recommended paint is a water based acrylic such as Harris Permaclad roof paint.

#### Weldability

similar behaviour to galvanised steel for:

- spot-welding
- seam resistance welding
- arc welding, etc.

NOTE: 75% less fumes generated, as compared with galvanised steel.

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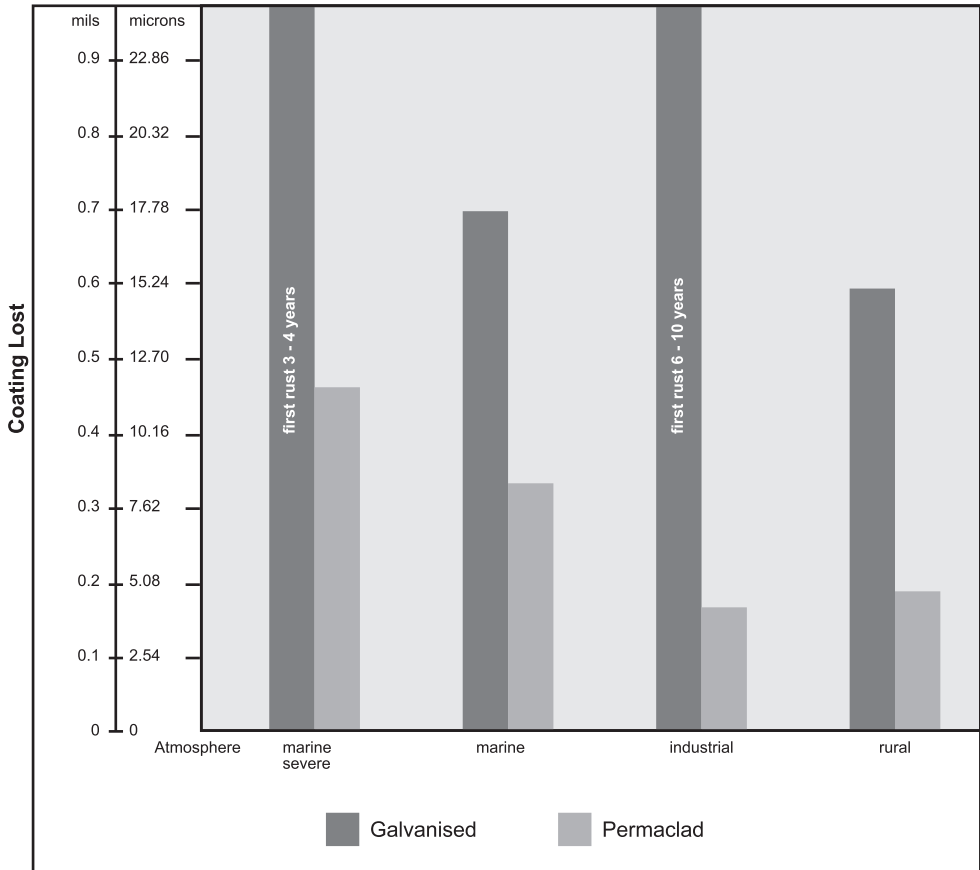
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# PERMACLAD

## III. Corrosion Resistance

Corrosion losses of PERMACLAD and GALVANISED sheets after 13 years exposure in the atmosphere (average top and bottom surface)



## Recommendations

- Avoid contact with lead, copper, copper salts, treated timber.
- For transport, handling and storage, take precautions as for galvanised steel sheet.

## NOTE:

- Corrosion resistance is 2-6 times greater than for galvanised sheets with equal coating thickness.

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# COLOURCLAD

## Technical Data Sheet

### I. Product Description

Colourclad is an aesthetically pleasing sheet product that is comprised of a steel substrate coated on both sides with an alloy of Aluminium and Zinc, a corrosion inhibitive primer coat and an oven cured paint finish.

### II. Technical Characteristics

|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| <b>Quality:</b>               | Structural quality steel base to ASTM A792M, Grade 345A |
| <b>Min. Tensile strength:</b> | 450 N/mm <sup>2</sup>                                   |
| <b>Min. Yield strength:</b>   | 345 N/mm <sup>2</sup>                                   |
| <b>Min. Elongation:</b>       | 12% in 50mm                                             |

#### Coating characteristics

|                             |                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------|
| <b>Coating composition:</b> | 55% Al, 43.4% Zn, 1.6% Si                                                              |
| <b>Min. coating mass:</b>   | AZ185 - 185 g/m <sup>2</sup> each side (25 microns/side)                               |
| <b>Primer coating 1:</b>    | Min. 5 microns Epoxy primer on each side                                               |
| <b>Paint Finish 1:</b>      | 20 microns modified Polyester on each side (light colours)                             |
| <b>Primer coating 2:</b>    | Min. 5 microns Polyurethane on each side                                               |
| <b>Paint Finish 2:</b>      | 20 microns Poly Vinylidene di-flouride (PVF <sub>2</sub> ) on each side (dark colours) |
| <b>Specific weight:</b>     | 3.75 g/cm <sup>3</sup>                                                                 |

### IV. General Properties

- Excellent formability
- Excellent chemical resistance
- Excellent resistance to abrasion and erosion
- Very good resistance to corrosion
- Colour and gloss limitation

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# COLOURCLAD

## **V. Over-painting Recommendations**

- Remove residual surface Lubricants by washing the surface with a solution of a household detergent using a mop / soft broom.
- Rinse thoroughly with fresh water and allow to dry.
- If the area is small enough to permit sanding then remove surface-gloss by sandpapering lightly with a 320-400 grade paper. This will improve paint adhesion.
- Apply the selected paint finish to the clean prepared surface.

## **VI. Repair Recommendations**

Old damaged areas where base metal has been exposed, and rust is apparent, can be repaired as follows:

- Remove all rust carefully with a wire brush
- Sweep away all loose particles
- Apply a thin layer of a two pack Epoxy primer to any rust affected areas
- Apply selected paint finish to the clean prepared surface.

# **Cladding Load Span Tables**

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# LIMIT STATE THEORY

The load/span tables give in this Tehnical Manual have been calculated according to the latest EUROPEAN RECOMMENDATIONS, based upon LIMIT STATE DESIGN. The load/span tables in this report DO NOT contain a safety factor; in limit state design, the safety factor is applied to the design.

For Limit State Design calculatoins, the ULTIMATE LIMIT STATE LOAD (i.e. the load at which the profile will become permanently damaged) should be taken as the lowest value for the various modes of failure (i.e. bending, shear or web buckling). The dead, imposed and/or wind loads acting upon the profiled sheet should each be multiplied by a PARTIAL SAFETY LOAD (Y).

The sum of the FACTORED LOADS should not exceed the Ultimate Limit State Load.

The ULTIMATE SERVICEABILITY LOAD is taken as the load which produces the maximum permitted deflection. The sum of UNFACTORED LOADS should the Ultimate Serviceability load.

The European Recommendaions advise the use of the following

Partial Safety Factors.

|                      |       |
|----------------------|-------|
| DEAD LOAD (maximum)* | Y=1.3 |
| (minimum)*           | Y=1.0 |
| IMPOSED LOAD         | Y=1.5 |
| WIND LOAD            | Y=1.5 |

\*NB Take the most unfavourable value of Y for Dead Load.

Where several independent non-permanent load act upon the profile the greatest effect shall be maintained at the full design value, but the other may be reduced by a factor of 0.5.

## Examples

Let G = Dead Load

Q = Imposed Load

W = Wind Load

### Dead and Imposed Load

(Effects Additive)

Factored Load =  $1.3G + 1.5Q$

### Dead and Wind Load

(Effects Subtracted)

Factored Load =  $1.0G + 1.5W$

### Dead, Imposed and Wind Load

(Effects Additive)

Imposed Load > Wind Load

Factored Load =  $1.3G + 1.5Q + 1.5 \times 0.5W = 1.3G + 1.5Q + 0.75W$

Imposed Load < Wind Load

Factored Load =  $1.3G + 1.5 \times 0.5Q + 1.5W = 1.3G + 0.75Q + 1.5W$

To produce load/span tables giving safe working loads (i.e. load/span tables with built in safety factors), the load/span tables given in this Technical Manual should be modified as follows.

- a) for Imposed
  - i) Subtract 1.3 times the Self Weight from the Ultimate Load
  - ii) Divide the result by 1.5
- b) for Suction Loads
  - i) Subtract the Self Weight from the Ultimate Load
  - ii) Divide the result by 1.5

**N.B. The Serviceability Loads DO NOT require modification.**

The Safe Working load the lower value modified Ultimate Limit Load and the unmodified Serviceability Load.

**N.B. This method is only suitable for conditions where there is a wind load or an imposed load but NOT BOTH. Further it does not allow for dead loads other than the self weight of the profiled sheet to be included. IT SHOULD BE NOTED that this modification to the load/span tables IS NOT strictly in accordance with Limit State principles and should therefore be used with great care, if in doubt check FACTORED LOADS against the UNMODIFIED LOAD/SPAN TABLES**

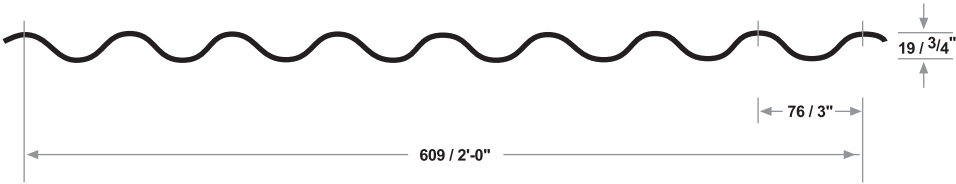
#### **Examples**

- a) **Imposed Loading**

|                         |                           |                         |
|-------------------------|---------------------------|-------------------------|
| Dead Load               | = 0.047 kN/m <sup>2</sup> |                         |
| Ultimate Limit Load     |                           |                         |
| Stress                  | = 3.22 kN/m <sup>2</sup>  |                         |
| Shear                   | = 30.62 kN/m <sup>2</sup> |                         |
| Buckling                | = 4.46 kN/m <sup>2</sup>  |                         |
| Serviceability Load     | = 2.57 kN/m <sup>2</sup>  |                         |
| Ultimate Limit Load     | = 3.22 kN/m <sup>2</sup>  |                         |
| Corrected Ultimate Load | = (3.22-0.047x1.3)/1.5    | = 2.1k N/m <sup>2</sup> |
|                         |                           | = 2.1k N/m <sup>2</sup> |
- b) **Suction Loading**

|                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| Ultimate Limit Load     | = 3.22k N/m <sup>2</sup> |                          |
| Corrected Ultimate Load | = (3.22-0.047)1.5        | = 2.1 kN/m <sup>2</sup>  |
| SAFE WORKING LOAD       |                          | = 2.11 kN/m <sup>2</sup> |

# 8/3 Corrugated Panel



## SECTION PROPERTIES (GRADE D MATERIAL)

Minimum yeild stress: 350.0 N/mm<sup>2</sup>  
Blodget Method Used: (Limit State)

| THICKNESS | WEIGHT<br>(kg/m <sup>2</sup> ) | RAW<br>MATERIAL<br>GIRTH (mm) | (mm <sup>4</sup> /m) | (mm <sup>3</sup> /m) | (Nm/m)  |
|-----------|--------------------------------|-------------------------------|----------------------|----------------------|---------|
| 0.40      | 4.93                           | 743                           | 1.835E4              | 1.896E3              | 6.634E5 |
| 0.50      | 6.18                           | 743                           | 2.345E4              | 2.410E3              | 8.434E5 |
| 0.60      | 7.43                           | 743                           | 2.854E4              | 2.918E3              | 1.021E6 |

# 8/3 Corrugated Panel



## SINGLE SPAN UDL DOWNWARD LOADING MINIMUM YEILD STRESS: 350.0 N/MM<sup>2</sup>

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.36 | 1.73 | 1.33                      | 1.05 | 0.85 | 0.70 | 0.59 |
| Service Span/180 | 0.48 | 0.30 | 0.20                      | 0.14 | 0.10 | 0.08 | 0.06 |

### Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.00 | 2.20 | 1.69                      | 1.33 | 1.08 | 0.89 | 0.75 |
| Service Span/180 | 0.61 | 0.38 | 0.26                      | 0.18 | 0.13 | 0.10 | 0.08 |

### Thickness 0.6 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.63 | 2.67 | 2.04                      | 1.61 | 1.31 | 1.08 | 0.91 |
| Service Span/180 | 0.74 | 0.47 | 0.31                      | 0.22 | 0.16 | 0.12 | 0.09 |

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# 8/3 Corrugated Panel



## DOUBLE SPAN UDL DOWNWARD LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.36 | 1.73 | 1.33                      | 1.33 | 1.05 | 0.70 | 0.59 |
| Service Span/180 | 1.14 | 0.72 | 0.48                      | 0.34 | 0.25 | 0.19 | 0.14 |

Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.00 | 2.20 | 1.69                      | 1.33 | 1.08 | 0.89 | 0.75 |
| Service Span/180 | 1.46 | 0.92 | 0.62                      | 0.43 | 0.32 | 0.24 | 0.18 |

Thickness 0.6 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.63 | 2.67 | 2.04                      | 1.61 | 1.31 | 1.08 | 0.91 |
| Service Span/180 | 1.78 | 1.12 | 0.75                      | 0.53 | 0.38 | 0.29 | 0.22 |

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# 8/3 Corrugated Panel



## MULTI SPAN UDL DOWNWARD LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.95 | 2.17 | 1.66                      | 1.33 | 1.06 | 0.88 | 0.74 |
| Service Span/180 | 0.90 | 0.57 | 0.38                      | 0.27 | 0.19 | 0.15 | 0.11 |

Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.75 | 2.75 | 2.11                      | 1.67 | 1.35 | 1.12 | 0.94 |
| Service Span/180 | 1.15 | 0.72 | 0.48                      | 0.34 | 0.25 | 0.19 | 0.14 |

Thickness 0.6 mm

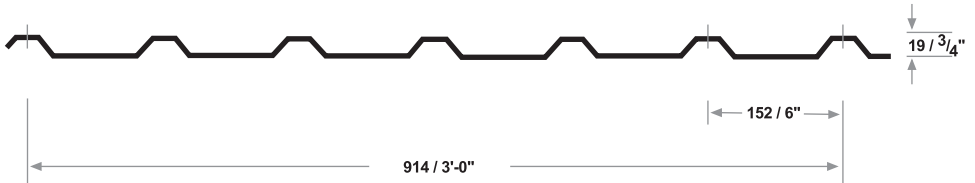
| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 4.54 | 3.34 | 2.55                      | 2.02 | 1.63 | 1.35 | 1.13 |
| Service Span/180 | 1.40 | 0.88 | 0.59                      | 0.41 | 0.30 | 0.23 | 0.17 |

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# "U" Panel



## Section Weight

| Thickness<br>(mm) | Raw Material<br>Girth (mm) | Weight<br>kg/m <sup>2</sup> | Undeveloped/Developed Ratio |
|-------------------|----------------------------|-----------------------------|-----------------------------|
| 0.400             | 1086                       | 3.57                        | 1.14538                     |
| 0.500             | 1086                       | 4.47                        | 1.14395                     |
| 0.600             | 1086                       | 5.38                        | 1.14252                     |

## Section Properties (Grade D Material)

Z & Mr. Calculated for stress  
I. Calculated for stress  
European Design Method Used

350.0 N/mm<sup>2</sup>  
233.3 N/mm<sup>2</sup>  
(Limit Sate)

| Top Flange<br>in Compression |                           |                           |                | Bottom Flange<br>in Compression |                           |                |
|------------------------------|---------------------------|---------------------------|----------------|---------------------------------|---------------------------|----------------|
| Thickness<br>(mm)            | I<br>(mm <sup>4</sup> /m) | Z<br>(mm <sup>3</sup> /m) | Mr.<br>(kNm/m) | I<br>(mm <sup>4</sup> /m)       | Z<br>(mm <sup>3</sup> /m) | Mr.<br>(kNm/m) |
| 0.400                        | .0200E6                   | 1216.7                    | .426           | .0157E6                         | 1152.3                    | .403           |
| 0.500                        | .0278E6                   | 1744.2                    | .610           | .0216E6                         | 1684.8                    | .590           |
| 0.600                        | .0363E6                   | 2337.1                    | .818           | .0280E6                         | 2303.5                    | .806           |

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# "U" Panel



## SINGLE SPAN SIMPLY SUPPORTED UDL IMPOSED LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50  | 1.75  | kN/m <sup>2</sup><br>2.00 | 2.25  | 2.50  | 2.75  | 3.00  |
|------------------|-------|-------|---------------------------|-------|-------|-------|-------|
| Ultimate Stress  | 1.47  | 1.07  | 0.81                      | 0.63  | 0.50  | 0.41  | 0.34  |
| Shear            | 24.09 | 20.65 | 18.06                     | 16.06 | 14.45 | 13.41 | 12.04 |
| Buckle           | 14.55 | 12.47 | 10.91                     | 9.70  | 8.73  | 7.94  | 7.27  |
| Service Span/180 | 0.57  | 0.35  | 0.23                      | 0.17  | 0.11  | 0.07  | 0.05  |

Thickness 0.4 mm

| Span (m)         | 1.50  | 1.75  | kN/m <sup>2</sup><br>2.00 | 2.25  | 2.50  | 2.75  | 3.00  |
|------------------|-------|-------|---------------------------|-------|-------|-------|-------|
| Ultimate Stress  | 2.12  | 1.54  | 1.17                      | 0.91  | 0.73  | 0.59  | 0.49  |
| Shear            | 35.86 | 30.74 | 26.90                     | 23.91 | 21.52 | 19.59 | 17.93 |
| Buckle           | 21.65 | 18.55 | 16.24                     | 14.43 | 12.99 | 11.81 | 10.82 |
| Service Span/180 | 0.81  | 0.51  | 0.33                      | 0.21  | 0.14  | 0.09  | 0.06  |

Thickness 0.4 mm

| Span (m)         | 1.50  | 1.75  | kN/m <sup>2</sup><br>2.00 | 2.25  | 2.50  | 2.75  | 3.00  |
|------------------|-------|-------|---------------------------|-------|-------|-------|-------|
| Ultimate Stress  | 2.84  | 2.07  | 1.57                      | 1.23  | 0.98  | 0.80  | 0.66  |
| Shear            | 43.66 | 37.42 | 32.74                     | 29.11 | 26.20 | 23.81 | 21.83 |
| Buckle           | 29.84 | 25.57 | 22.38                     | 19.89 | 17.90 | 16.27 | 14.92 |
| Service Span/180 | 1.03  | 0.63  | 0.40                      | 0.26  | 0.17  | 0.11  | 0.07  |

# "U" Panel



## SINGLE SPAN SIMPLY SUPPORTED UDL SUCTION LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50  | 1.75  | kN/m <sup>2</sup><br>2.00 | 2.25  | 2.50  | 2.75  | 3.00  |
|------------------|-------|-------|---------------------------|-------|-------|-------|-------|
| Ultimate Stress  | 1.47  | 1.09  | 0.84                      | 0.67  | 0.55  | 0.46  | 0.39  |
| Shear            | 24.09 | 20.65 | 18.06                     | 16.06 | 14.45 | 13.41 | 12.04 |
| Buckle           | 14.55 | 12.47 | 10.91                     | 9.70  | 8.73  | 7.94  | 7.27  |
| Service Span/180 | 0.54  | 0.37  | 0.26                      | 0.19  | 0.15  | 0.12  | 0.10  |

Thickness 0.4 mm

| Span (m)         | 1.50  | 1.75  | kN/m <sup>2</sup><br>2.00 | 2.25  | 2.50  | 2.75  | 3.00  |
|------------------|-------|-------|---------------------------|-------|-------|-------|-------|
| Ultimate Stress  | 2.14  | 1.58  | 1.22                      | 0.97  | 0.80  | 0.66  | 0.56  |
| Shear            | 35.86 | 30.74 | 26.90                     | 23.91 | 21.52 | 19.56 | 17.93 |
| Buckle           | 21.65 | 18.55 | 16.24                     | 14.43 | 12.99 | 11.81 | 10.82 |
| Service Span/180 | 0.75  | 0.50  | 0.36                      | 0.26  | 0.20  | 0.16  | 0.13  |

Thickness 0.4 mm

| Span (m)         | 1.50  | 1.75  | kN/m <sup>2</sup><br>2.00 | 2.25  | 2.50  | 2.75  | 3.00  |
|------------------|-------|-------|---------------------------|-------|-------|-------|-------|
| Ultimate Stress  | 2.92  | 2.16  | 1.66                      | 1.32  | 1.08  | 0.90  | 0.77  |
| Shear            | 43.66 | 37.42 | 32.74                     | 29.11 | 26.20 | 23.81 | 21.83 |
| Buckle           | 29.84 | 25.57 | 22.38                     | 19.89 | 17.90 | 16.27 | 14.92 |
| Service Span/180 | 0.97  | 0.65  | 0.45                      | 0.33  | 0.26  | 0.20  | 0.17  |

# "U" Panel



## DOUBLE SPAN SIMPLY SUPPORTED UDL IMPOSED LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 1.39 | 1.01 | 0.77                      | 0.60 | 0.47 | 0.39 | 0.32 |
| Shear            | 1.74 | 1.29 | 0.99                      | 0.79 | 0.64 | 0.53 | 0.45 |
| Buckle           | 1.44 | 1.09 | 0.85                      | 0.68 | 0.56 | 0.47 | 0.40 |
| Service Span/180 | 1.36 | 0.86 | 0.58                      | 0.40 | 0.29 | 0.21 | 0.17 |

Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.04 | 1.49 | 1.13                      | 0.88 | 0.70 | 0.57 | 0.47 |
| Shear            | 2.54 | 1.88 | 1.45                      | 1.16 | 0.94 | 0.78 | 0.66 |
| Buckle           | 2.11 | 1.59 | 1.25                      | 1.00 | 0.82 | 0.69 | 0.58 |
| Service Span/180 | 1.90 | 1.22 | 0.82                      | 0.59 | 0.41 | 0.30 | 0.22 |

Thickness 0.6 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.80 | 2.04 | 1.55                      | 1.21 | 0.97 | 0.79 | 0.65 |
| Shear            | 3.44 | 2.56 | 1.97                      | 1.57 | 1.28 | 1.06 | 0.89 |
| Buckle           | 2.89 | 2.18 | 1.71                      | 1.37 | 1.13 | 0.94 | 0.80 |
| Service Span/180 | 2.53 | 1.59 | 1.05                      | 0.72 | 0.50 | 0.36 | 0.26 |

# "U" Panel



## DOUBLE SPAN SIMPLY SUPPORTED UDL SUCTION LOADING MINIMUM YIELD STRESS: 350.0 n/MM

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 1.55 | 1.14 | 0.88                      | 0.70 | 0.58 | 0.48 | 0.41 |
| Shear            | 1.82 | 1.35 | 1.05                      | 0.83 | 0.68 | 0.56 | 0.47 |
| Buckle           | 1.50 | 1.14 | 0.89                      | 0.72 | 0.59 | 0.49 | 0.42 |
| Service Span/180 | 1.22 | 0.80 | 0.55                      | 0.41 | 0.31 | 0.25 | 0.20 |

Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.21 | 1.64 | 1.26                      | 1.01 | 0.82 | 0.69 | 0.58 |
| Shear            | 2.62 | 1.95 | 1.50                      | 1.19 | 0.97 | 0.81 | 0.68 |
| Buckle           | 2.17 | 1.64 | 1.28                      | 1.03 | 0.85 | 0.71 | 0.60 |
| Service Span/180 | 1.68 | 1.08 | 0.76                      | 0.56 | 0.43 | 0.33 | 0.26 |

Thickness 0.6 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.96 | 2.19 | 1.69                      | 1.34 | 1.10 | 0.91 | 0.78 |
| Shear            | 3.49 | 2.59 | 2.00                      | 1.59 | 1.30 | 1.08 | 0.91 |
| Buckle           | 2.92 | 2.21 | 1.73                      | 1.39 | 1.14 | 0.95 | 0.81 |
| Service Span/180 | 2.18 | 1.40 | 0.98                      | 0.72 | 0.54 | 0.42 | 0.34 |

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# "U" Panel



## MULTI SPAN SIMPLY SUPPORTED UDL IMPOSED LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 1.75 | 1.28 | 0.97                      | 0.76 | 0.60 | 0.49 | 0.41 |
| Shear            | 2.14 | 1.59 | 1.23                      | 0.98 | 0.80 | 0.66 | 0.56 |
| Buckle           | 1.76 | 1.34 | 1.05                      | 0.84 | 0.69 | 0.58 | 0.49 |
| Service Span/180 | 1.09 | 0.69 | 0.45                      | 0.32 | 0.23 | 0.17 | 0.12 |

Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.57 | 1.87 | 1.42                      | 1.11 | 0.89 | 0.73 | 0.60 |
| Shear            | 3.13 | 2.33 | 1.80                      | 1.43 | 1.17 | 0.97 | 0.82 |
| Buckle           | 2.59 | 1.96 | 1.54                      | 1.24 | 1.02 | 0.85 | 0.72 |
| Service Span/180 | 1.52 | 0.97 | 0.67                      | 0.45 | 0.31 | 0.22 | 0.16 |

Thickness 0.6 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.52 | 2.57 | 1.95                      | 1.53 | 1.23 | 1.00 | 0.83 |
| Shear            | 4.24 | 3.16 | 2.44                      | 1.94 | 1.58 | 1.32 | 1.11 |
| Buckle           | 3.54 | 2.68 | 2.10                      | 1.69 | 1.39 | 1.16 | 0.99 |
| Service Span/180 | 2.01 | 1.24 | 0.81                      | 0.55 | 0.38 | 0.27 | 0.19 |

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# "U" Panel



## MULTI SPAN SIMPLY SUPPORTED UDL SUCTION LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 1.92 | 1.42 | 1.10                      | 0.87 | 0.71 | 0.60 | 0.51 |
| Shear            | 2.25 | 1.67 | 1.29                      | 1.03 | 0.84 | 0.70 | 0.59 |
| Buckle           | 1.84 | 1.40 | 1.10                      | 0.88 | 0.73 | 0.61 | 0.52 |
| Service Span/180 | 0.99 | 0.64 | 0.45                      | 0.33 | 0.26 | 0.20 | 0.16 |

Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.75 | 2.03 | 1.57                      | 1.25 | 1.02 | 0.85 | 0.72 |
| Shear            | 3.23 | 2.40 | 1.86                      | 1.48 | 1.20 | 1.00 | 0.84 |
| Buckle           | 2.66 | 2.02 | 1.58                      | 1.27 | 1.05 | 0.88 | 0.75 |
| Service Span/180 | 1.36 | 0.88 | 0.62                      | 0.46 | 0.35 | 0.27 | 0.22 |

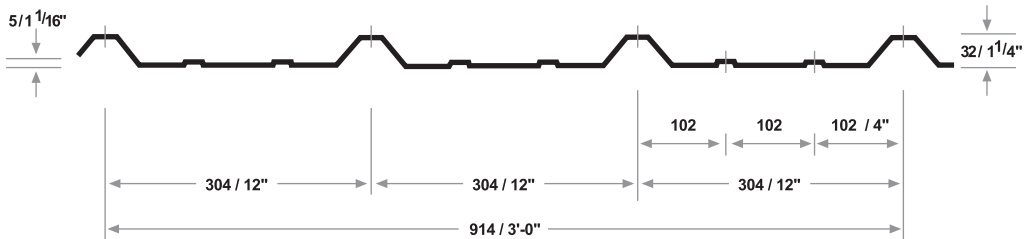
Thickness 0.6 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.69 | 2.72 | 2.09                      | 1.67 | 1.36 | 1.13 | 0.96 |
| Shear            | 4.30 | 3.20 | 2.47                      | 1.97 | 1.61 | 1.33 | 1.13 |
| Buckle           | 3.58 | 2.71 | 2.13                      | 1.71 | 1.41 | 1.18 | 1.00 |
| Service Span/180 | 1.72 | 1.14 | 0.80                      | 0.58 | 0.44 | 0.34 | 0.28 |

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# "R" Panel



## Section Weights

| Thickness<br>(mm) | Raw Material<br>Girth (mm) | Weight<br>(kg/m ) | Undeveloped/Developed Ratio |
|-------------------|----------------------------|-------------------|-----------------------------|
| 0.400             | 1086                       | 3.44              | 1.10728                     |
| 0.500             | 1086                       | 4.31              | 1.10680                     |
| 0.600             | 1086                       | 5.18              | 1.10633                     |

## Section Properties (Grade D Material)

Z & Mr. Calculated for stress 350.0 N/mm2  
 I. Calculated for Stress 233.3 N/mm2  
 European Design Method used (Limit State)

| Thickness<br>(mm) | Top Flange<br>in Compression |                           |                | Bottom Flange<br>in Compression |                           |                |
|-------------------|------------------------------|---------------------------|----------------|---------------------------------|---------------------------|----------------|
|                   | I <sup>4</sup><br>(mm /m)    | Z <sup>3</sup><br>(mm /m) | Mr.<br>(kNm/m) | I <sup>4</sup><br>(mm /m)       | Z <sup>3</sup><br>(mm /m) | Mr.<br>(kNm/m) |
| 0.400             | .348E6                       | 1086.7                    | .380           | .0246E6                         | 1714.8                    | .600           |
| 0.500             | .531E6                       | 1723.7                    | .603           | .0287E6                         | 2392.9                    | .838           |
| 0.600             | .0690E6                      | 2510.4                    | .879           | .0318E6                         | 3118.9                    | 1.092          |

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# "R" Panel



## SINGLE SPAN SIMPLY SUPPORTED UDL IMPOSED LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 1.31 | 0.95 | 0.72                      | 0.56 | 0.45 | 0.36 | 0.30 |
| Shear            | 8.15 | 6.98 | 6.11                      | 5.43 | 4.89 | 4.44 | 4.07 |
| Buckle           | 6.76 | 5.80 | 5.07                      | 4.51 | 4.06 | 3.69 | 3.38 |
| Service Span/180 | 0.96 | 0.64 | 0.43                      | 0.30 | 0.21 | 0.15 | 0.11 |

Thickness 0.5 mm

| Span (m)         | 1.50  | 1.75  | kN/m <sup>2</sup><br>2.00 | 2.25  | 2.50 | 2.75 | 3.00 |
|------------------|-------|-------|---------------------------|-------|------|------|------|
| Ultimate Stress  | 2.09  | 1.52  | 1.16                      | 0.90  | 0.72 | 0.59 | 0.49 |
| Shear            | 16.31 | 13.98 | 12.23                     | 10.87 | 9.79 | 8.90 | 8.16 |
| Buckle           | 10.06 | 8.62  | 7.55                      | 6.71  | 6.04 | 5.49 | 5.03 |
| Service Span/180 | 1.42  | 0.91  | 0.59                      | 0.40  | 0.28 | 0.20 | 0.14 |

Thickness 0.6 mm

| Span (m)         | 1.50  | 1.75  | kN/m <sup>2</sup><br>2.00 | 2.25  | 2.50  | 2.75  | 3.00  |
|------------------|-------|-------|---------------------------|-------|-------|-------|-------|
| Ultimate Stress  | 3.06  | 2.23  | 1.70                      | 1.33  | 1.06  | 0.87  | 0.72  |
| Shear            | 24.17 | 20.72 | 18.13                     | 16.12 | 14.50 | 13.19 | 12.09 |
| Buckle           | 13.87 | 11.89 | 10.40                     | 9.24  | 8.32  | 7.56  | 6.93  |
| Service Span/180 | 1.80  | 1.11  | 0.72                      | 0.49  | 0.34  | 0.24  | 0.17  |

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# "R" Panel



## SINGLE SPAN SIMPLY SUPPORTED UDL SUCTION LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.16 | 1.60 | 1.23                      | 0.98 | 0.80 | 0.67 | 0.56 |
| Shear            | 8.15 | 6.98 | 6.11                      | 5.43 | 4.89 | 4.44 | 4.07 |
| Buckle           | 6.76 | 5.80 | 5.07                      | 4.51 | 4.06 | 3.69 | 3.38 |
| Service Span/180 | 1.14 | 0.74 | 0.51                      | 0.37 | 0.28 | 0.21 | 0.17 |

Thickness 0.5 mm

| Span (m)         | 1.50  | 1.75  | kN/m <sup>2</sup><br>2.00 | 2.25  | 2.50 | 2.75 | 3.00 |
|------------------|-------|-------|---------------------------|-------|------|------|------|
| Ultimate Stress  | 3.02  | 2.23  | 1.71                      | 1.36  | 1.11 | 0.93 | 0.78 |
| Shear            | 16.31 | 13.98 | 12.23                     | 10.87 | 9.79 | 8.90 | 8.16 |
| Buckle           | 10.06 | 8.62  | 7.75                      | 6.71  | 6.04 | 5.49 | 5.03 |
| Service Span/180 | 1.52  | 0.98  | 0.67                      | 0.48  | 0.36 | 0.28 | 0.23 |

Thickness 0.6 mm

| Span (m)         | 1.50  | 1.75  | kN/m <sup>2</sup><br>2.00 | 2.25  | 2.50  | 2.75  | 3.00  |
|------------------|-------|-------|---------------------------|-------|-------|-------|-------|
| Ultimate Stress  | 3.93  | 2.90  | 2.23                      | 1.77  | 1.45  | 1.20  | 1.02  |
| Shear            | 24.17 | 20.72 | 18.13                     | 16.12 | 14.50 | 13.19 | 12.09 |
| Buckle           | 13.87 | 11.89 | 10.40                     | 9.24  | 8.32  | 7.56  | 6.93  |
| Service Span/180 | 1.87  | 1.20  | 0.82                      | 0.59  | 0.44  | 0.35  | 0.28  |

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# "R" Panel



## DOUBLE SPAN SIMPLY SUPPORTED UDL IMPOSED LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.09 | 1.53 | 1.16                      | 0.91 | 0.73 | 0.59 | 0.49 |
| Shear            | 2.09 | 1.59 | 1.25                      | 1.01 | 0.83 | 0.70 | 0.60 |
| Buckle           | 1.49 | 1.17 | 0.94                      | 0.78 | 0.65 | 0.55 | 0.48 |
| Service Span/180 | 2.18 | 1.39 | 0.97                      | 0.70 | 0.53 | 0.40 | 0.30 |

Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.93 | 2.14 | 1.62                      | 1.27 | 1.02 | 0.83 | 0.69 |
| Shear            | 3.15 | 2.38 | 1.86                      | 1.49 | 1.23 | 1.02 | 0.87 |
| Buckle           | 2.14 | 1.67 | 1.35                      | 1.11 | 0.93 | 0.79 | 0.68 |
| Service Span/180 | 3.34 | 2.14 | 1.44                      | 1.04 | 0.74 | 0.54 | 0.41 |

Thickness 0.6 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.82 | 2.79 | 2.12                      | 1.66 | 1.34 | 1.09 | 0.91 |
| Shear            | 4.20 | 3.16 | 2.47                      | 1.98 | 1.62 | 1.35 | 1.15 |
| Buckle           | 2.85 | 2.23 | 1.79                      | 1.47 | 1.23 | 1.04 | 0.90 |
| Service Span/180 | 4.34 | 2.75 | 1.82                      | 1.26 | 0.90 | 0.66 | 0.50 |

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# "R" Panel



## DOUBLE SPAN SIMPLY SUPPORTED UDL SUCTION LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 1.38 | 1.02 | 0.79                      | 0.63 | 0.52 | 0.43 | 0.37 |
| Shear            | 1.46 | 1.10 | 0.86                      | 0.69 | 0.56 | 0.47 | 0.40 |
| Buckle           | 1.13 | 0.87 | 0.69                      | 0.56 | 0.47 | 0.40 | 0.34 |
| Service Span/180 | 2.62 | 1.69 | 1.15                      | 0.83 | 0.62 | 0.47 | 0.37 |

Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.18 | 1.62 | 1.25                      | 0.99 | 0.81 | 0.68 | 0.58 |
| Shear            | 2.39 | 1.80 | 1.40                      | 1.12 | 0.91 | 0.76 | 0.64 |
| Buckle           | 1.75 | 1.35 | 1.08                      | 0.88 | 0.73 | 0.62 | 0.53 |
| Service Span/180 | 3.49 | 2.26 | 1.54                      | 1.10 | 0.81 | 0.62 | 0.49 |

Thickness 0.6 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.17 | 2.34 | 1.81                      | 1.44 | 1.17 | 0.98 | 0.83 |
| Shear            | 3.50 | 2.62 | 2.04                      | 1.63 | 1.33 | 1.11 | 0.94 |
| Buckle           | 2.50 | 1.93 | 1.54                      | 1.26 | 1.05 | 0.89 | 0.76 |
| Service Span/180 | 4.39 | 2.79 | 1.90                      | 1.35 | 1.00 | 0.76 | 0.60 |

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## MULTI SPAN SIMPLY SUPPORTED UDL IMPOSED LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.63 | 1.92 | 1.46                      | 1.15 | 0.92 | 0.75 | 0.63 |
| Shear            | 2.49 | 1.91 | 1.51                      | 1.22 | 1.01 | 0.85 | 0.72 |
| Buckle           | 1.79 | 1.40 | 1.14                      | 0.94 | 0.79 | 0.67 | 0.58 |
| Service Span/180 | 1.72 | 1.14 | 0.79                      | 0.58 | 0.42 | 0.31 | 0.24 |

Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.67 | 2.68 | 2.04                      | 1.60 | 1.29 | 1.06 | 0.88 |
| Shear            | 3.80 | 2.88 | 2.26                      | 1.82 | 1.50 | 1.25 | 1.06 |
| Buckle           | 2.57 | 2.01 | 1.63                      | 1.34 | 1.13 | 0.96 | 0.83 |
| Service Span/180 | 2.67 | 1.70 | 1.14                      | 0.80 | 0.57 | 0.42 | 0.31 |

Thickness 0.6 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 4.79 | 3.50 | 2.67                      | 2.09 | 1.68 | 1.38 | 1.15 |
| Shear            | 5.08 | 3.84 | 3.00                      | 2.42 | 1.98 | 1.66 | 1.41 |
| Buckle           | 3.43 | 2.68 | 2.16                      | 1.78 | 1.49 | 1.27 | 1.09 |
| Service Span/180 | 3.45 | 2.15 | 1.42                      | 0.98 | 0.70 | 0.51 | 0.38 |

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# "R" Panel



## MULTI SPAN SIMPLY SUPPORTED UDL SUCTION LOADING MINIMUM YIELD STRESS: 350.0 N/mm<sup>2</sup>

Thickness 0.4 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 1.72 | 1.27 | 0.98                      | 0.78 | 0.64 | 0.53 | 0.45 |
| Shear            | 1.76 | 1.33 | 1.04                      | 0.84 | 0.69 | 0.58 | 0.49 |
| Buckle           | 1.36 | 1.06 | 0.84                      | 0.69 | 0.57 | 0.48 | 0.41 |
| Service Span/180 | 2.09 | 1.34 | 0.92                      | 0.66 | 0.49 | 0.38 | 0.30 |

Thickness 0.5 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 2.72 | 2.01 | 1.55                      | 1.23 | 1.00 | 0.84 | 0.71 |
| Shear            | 2.91 | 2.19 | 1.71                      | 1.37 | 1.12 | 0.94 | 0.79 |
| Buckle           | 2.11 | 1.64 | 1.31                      | 1.07 | 0.89 | 0.76 | 0.65 |
| Service Span/180 | 2.78 | 1.80 | 1.22                      | 0.87 | 0.65 | 0.50 | 0.39 |

Thickness 0.6 mm

| Span (m)         | 1.50 | 1.75 | kN/m <sup>2</sup><br>2.00 | 2.25 | 2.50 | 2.75 | 3.00 |
|------------------|------|------|---------------------------|------|------|------|------|
| Ultimate Stress  | 3.95 | 2.92 | 2.24                      | 1.78 | 1.45 | 1.21 | 1.02 |
| Shear            | 4.25 | 3.20 | 2.49                      | 2.00 | 1.64 | 1.37 | 1.16 |
| Buckle           | 3.01 | 2.34 | 1.87                      | 1.54 | 1.28 | 1.09 | 0.93 |
| Service Span/180 | 3.48 | 2.22 | 1.51                      | 1.08 | 0.80 | 0.61 | 0.48 |

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# Cladding Accessories

|                                                                                     |                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p>Wood grip screws (self-drilling)</p> <p>Size: 1 1/2" &amp; 1".</p> <p>Heads available in Permaclad and PVF2 colour finishes. Suggested spacing every 1ft along wood purlin.</p>                                                                   |
|    | <p>Stitching screws (self-drilling)</p> <p>Size: 3/4"</p> <p>Heads available in Permaclad and and PVF2 finishes. Suggested spacing every 24in. along slide lap.</p>                                                                                  |
|    | <p>Galvanized nails with conical shaped washers (drive screws)</p> <p>Size: 2 1/2"</p> <p>Suggested spacing every 9in. along wood purlin.</p>                                                                                                        |
|  | <p>Filler blocks: to fit U-panel, R-panel and 8/3 Profiles. Used at eaves (inside filler blocks), under Ridgecaps (outside filler blocks) and on hip diagonals (foam filler). The 8/3 filler block can be used in all areas for the 8/3 profile.</p> |
|  | <p>Tape Seal</p> <p>Mastic roll with strippable paper used for sealing laps on cladding.</p>                                                                                                                                                         |

*See installation Guide for further details*

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