

## Viribeam Coated Purlin S350 Load Span

| Span (m) | Section         | # of Anti Sag Bars | Weight (kg/m) | Ultimate total UDL kN |         | load (kN) to reach deflection limit (L/180) |
|----------|-----------------|--------------------|---------------|-----------------------|---------|---------------------------------------------|
|          |                 |                    |               | Gravity               | Suction |                                             |
| 4.50     | S145065150 S350 | 0                  | 3.47          | 12.92                 | 10.30   | 14.25                                       |
|          | S145065200 S350 | 0                  | 4.61          | 18.70                 | 14.63   | 19.57                                       |
|          | S175065150 S350 | 0                  | 3.81          | 17.13                 | 12.11   | 22.14                                       |
|          | S175065200 S350 | 0                  | 5.07          | 24.99                 | 17.18   | 30.43                                       |
|          | S205065150 S350 | 0                  | 4.16          | 21.28                 | 14.05   | 32.23                                       |
|          | S205065200 S350 | 0                  | 5.53          | 30.30                 | 19.11   | 44.27                                       |
| 5.00     | S145065150 S350 | 0                  | 3.47          | 11.72                 | 10.17   | 11.53                                       |
|          | S145065200 S350 | 0                  | 4.61          | 17.07                 | 14.53   | 15.84                                       |
|          | S175065150 S350 | 0                  | 3.81          | 15.39                 | 11.88   | 17.95                                       |
|          | S175065200 S350 | 0                  | 5.07          | 22.36                 | 16.99   | 24.61                                       |
|          | S205065150 S350 | 0                  | 4.16          | 18.79                 | 13.51   | 26.12                                       |
|          | S205065200 S350 | 0                  | 5.53          | 26.85                 | 18.54   | 35.84                                       |
| 6.00     | S145065150 S350 | 0                  | 3.47          | 9.85                  | 9.59    | 8.02                                        |
|          | S145065200 S350 | 0                  | 4.61          | 14.40                 | 13.93   | 10.97                                       |
|          | S175065150 S350 | 0                  | 3.81          | 12.71                 | 11.28   | 12.42                                       |
|          | S175065200 S350 | 0                  | 5.07          | 18.49                 | 16.24   | 17.12                                       |
|          | S205065150 S350 | 0                  | 4.16          | 15.17                 | 12.52   | 18.14                                       |
|          | S205065200 S350 | 0                  | 5.53          | 21.77                 | 17.57   | 24.89                                       |
| 7.00     | S175065150 S350 | 1                  | 3.81          | 10.86                 | 9.07    | 9.10                                        |
|          | S175065200 S350 | 1                  | 5.07          | 15.81                 | 12.86   | 12.55                                       |
|          | S205065150 S350 | 1                  | 4.16          | 13.26                 | 11.14   | 13.32                                       |
|          | S205065200 S350 | 1                  | 5.53          | 19.16                 | 15.35   | 18.25                                       |
| 8.0      | S175065150 S350 | 2                  | 3.81          | 9.72                  | 8.08    | 6.96                                        |
|          | S175065200 S350 | 2                  | 5.07          | 14.07                 | 11.58   | 9.62                                        |
|          | S205065150 S350 | 2                  | 4.16          | 11.91                 | 9.74    | 10.18                                       |
|          | S205065200 S350 | 2                  | 5.53          | 17.25                 | 13.70   | 13.98                                       |
| 9.0      | S205065150 S350 | 2                  | 4.16          | 10.12                 | 7.98    | 8.04                                        |
|          | S205065200 S350 | 2                  | 5.53          | 14.55                 | 11.50   | 11.05                                       |