

# SUPERPLANK™ GR205

## Simple Supported Beam-Single Span (Solid Top)



Superplank™ GR205 Decking  
24" wide x 1.5" high  
1500/1525/1625 Series



### Imperial

$E_b = 3.0 \text{ Msi}$        $G_b = 0.3 \text{ Msi}$       Characteristic longitudinal compressive strength ( $F_L^c$ ) = 30,000 psi  
 $I_x = 0.85 \text{ in}^4/\text{ft}$        $S_x = 0.80 \text{ in}^3/\text{ft}$       Characteristic in-plane shear strength ( $F_{LT}^v$ ) = 5,000 psi  
 $A_w = 0.72 \text{ in}^2/\text{ft}$       Weight = 2.55 psf      Solid Top Decking

| Span (in) | Allowable Concentrated Load Tables<br>(lb/ft width of panel) |      |      |                 |       |                   | Span (in) | Allowable Uniform Load Tables<br>(lb/ft <sup>2</sup> ) |      |      |                 |       |                   |
|-----------|--|------|------|-----------------|-------|-------------------|-----------|--|------|------|-----------------|-------|-------------------|
|           | L/D Ratios   |      |      | Deflection (in) |       | Max. Service Load |           | L/D Ratios   |      |      | Deflection (in) |       | Max. Service Load |
|           | 180  | 240  | 360  | 0.25            | 0.375 |                   |           | 180  | 240  | 360  | 0.25            | 0.375 |                   |
| 12        | 2396   | 1797 | 1198 | ****            | ****  | 2415              | 12        | ****   | **** | 2128 | ****            | ****  | 2415              |
| 18        | 1470   | 1103 | 735  | ****            | ****  | 2133              | 18        | ****   | 1252 | 835  | ****            | ****  | 1510              |
| 24        | 954  | 716  | 477  | ****            | ****  | 1600              | 24        | 795  | 596  | 397  | ****            | ****  | 1208              |
| 30        | 657  | 493  | 329  | 986             | ****  | 1280              | 30        | 432  | 324  | 216  | 649             | ****  | 966               |
| 36        | 476  | 357  | 238  | 595             | 893   | 1067              | 36        | 259  | 194  | 130  | 324             | 486   | 711               |
| 42        | 359  | 269  | 180  | 385             | 577   | 914               | 42        | 167  | 125  | 83   | 179             | 268   | 522               |
| 48        | 280  | 210  | 140  | 262             | 394   | 800               | 48        | 113  | 85   | 57   | 106             | 159   | 400               |
| 54        | 224  | 168  | 112  | 187             | 280   | 711               | 54        | 80   | 60   | 40   | 67              | 100   | 316               |
| 60        | 183  | 137  | 92   | 137             | 206   | 640               | 60        | 59   | 44   | 30   | 44              | 66    | 256               |
| 66        | 152  | 114  | 76   | 104             | 156   | 582               | 66        | 45   | 33   | 22   | 30              | 46    | 212               |
| 72        | 129  | 96   | 64   | 80              | 121   | 533               | 72        | 34   | 26   | 17   | 22              | 32    | 178               |
| 78        | 110  | 82   | 55   | 63              | 95    | 492               | 78        | 27   | 20   | 14   | 16              | 24    | 151               |
| 84        | 95   | 71   | 48   | 51              | 76    | 457               | 84        | 22   | 16   | 11   | 12              | 18    | 131               |
| 90        | 83   | 62   | 42   | 42              | 62    | 427               | 90        | 18   | 13   | 9    | 9               | 13    | 114               |
| 96        | 73   | 55   | 37   | 34              | 51    | 400               | 96        | 15   | 11   | 7    | 7               | 10    | 100               |

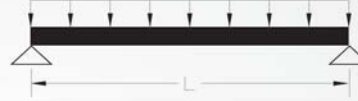
### Metric

$E_b = 20.7 \text{ Gpa}$        $G_b = 2.1 \text{ Gpa}$       Characteristic longitudinal compressive strength ( $F_L^c$ ) = 207 Mpa  
 $I_x = 1.17\text{E-}6 \text{ m}^4/\text{m}$        $S_x = 4.30\text{E-}5 \text{ m}^3/\text{m}$       Characteristic in-plane shear strength ( $F_{LT}^v$ ) = 34 Mpa  
 $A_w = 1.53\text{E-}4 \text{ m}^2/\text{m}$       Weight = 12.5 kg/m<sup>2</sup>      Solid Top Decking

| Span (m) | Allowable Concentrated Load Tables<br>(kN/m width of panel) |      |      |                 |      |                   | Span (m) | Allowable Uniform Load Tables<br>(kN/m <sup>2</sup> ) |      |      |                 |      |                   |
|----------|---|------|------|-----------------|------|-------------------|----------|---|------|------|-----------------|------|-------------------|
|          | L/D Ratios  |      |      | Deflection (mm) |      | Max. Service Load |          | L/D Ratios  |      |      | Deflection (mm) |      | Max. Service Load |
|          | 180   | 240  | 360  | 6               | 10   |                   |          | 180   | 240  | 360  | 6               | 10   |                   |
| 0.25     | ****  | 31.4 | 20.9 | ****            | **** | 35.2              | 0.25     | ****  | **** | **** | ****            | **** | 141.0             |
| 0.50     | 18.9  | 14.2 | 9.4  | ****            | **** | 28.5              | 0.50     | 63.8  | 47.9 | 31.9 | ****            | **** | 70.5              |
| 0.75     | 9.9   | 7.4  | 4.9  | 14.2            | **** | 19.0              | 0.75     | 21.6  | 16.2 | 10.8 | 31.2            | **** | 47.0              |
| 1.00     | 5.9   | 4.4  | 3.0  | 6.4             | 10.6 | 14.2              | 1.00     | 9.6   | 7.2  | 4.8  | 10.4            | 17.3 | 28.5              |
| 1.25     | 3.9   | 2.9  | 1.9  | 3.4             | 5.6  | 11.4              | 1.25     | 5.0   | 3.8  | 2.5  | 4.4             | 7.3  | 18.2              |
| 1.50     | 2.8   | 2.1  | 1.4  | 2.0             | 3.3  | 9.5               | 1.50     | 3.0   | 2.2  | 1.5  | 2.1             | 3.6  | 12.7              |
| 1.75     | 2.0   | 1.5  | 1.0  | 1.3             | 2.1  | 8.1               | 1.75     | 1.9   | 1.4  | 0.9  | 1.2             | 1.9  | 9.3               |
| 2.00     | 1.6   | 1.2  | 0.8  | 0.9             | 1.4  | 7.1               | 2.00     | 1.3   | 0.9  | 0.6  | 0.7             | 1.1  | 7.1               |
| 2.25     | 1.3   | 0.9  | 0.6  | 0.6             | 1.0  | 6.3               | 2.25     | 0.9   | 0.7  | 0.4  | 0.4             | 0.7  | 5.6               |
| 2.50     | 1.0   | 0.8  | 0.5  | 0.4             | 0.7  | 5.7               | 2.50     | 0.7   | 0.5  | 0.3  | 0.3             | 0.5  | 4.6               |
| 2.75     | 0.8   | 0.6  | 0.4  | 0.3             | 0.6  | 5.2               | 2.75     | 0.5   | 0.4  | 0.2  | 0.2             | 0.3  | 3.8               |
| 3.00     | 0.7   | 0.5  | 0.4  | 0.3             | 0.4  | 4.7               | 3.00     | 0.4   | 0.3  | 0.2  | 0.1             | 0.2  | 3.2               |

Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

## Simple Supported Beam-Single Span (Perforated Top)



**Superplank™ GR205 Decking**  
 24" wide x 1.5" high  
 1500/1525/1625 Series



### Imperial

$E_b = 3.0 \text{ Msi}$        $G_b = 0.3 \text{ Msi}$       Characteristic longitudinal compressive strength ( $F_L^c$ ) = 30,000 psi  
 $I_x = 0.79 \text{ in}^4/\text{ft}$        $S_x = 0.78 \text{ in}^3/\text{ft}$       Characteristic in-plane shear strength ( $F_{LT}^v$ ) = 5,000 psi  
 $A_w = 0.72 \text{ in}^2/\text{ft}$       Weight = 2.55 psf      12% Perforated Top

| Allowable Concentrated Load Tables<br>(lb/ft width of panel) |            |      |      |                 |       |                   | Allowable Uniform Load Tables<br>(lb/ft <sup>2</sup> ) |            |      |      |                 |       |                   |
|--|------------|------|------|-----------------|-------|-------------------|--|------------|------|------|-----------------|-------|-------------------|
| Span (in)  | L/D Ratios |      |      | Deflection (in) |       | Max. Service Load | Span (in)  | L/D Ratios |      |      | Deflection (in) |       | Max. Service Load |
|  | 180        | 240  | 360  | 0.25            | 0.375 |                   |  | 180        | 240  | 360  | 0.25            | 0.375 |                   |
| 12   | 2292       | 1719 | 1146 | ****            | ****  | 2415              | 12   | ****       | **** | 2026 | ****            | ****  | 2415              |
| 18   | 1383       | 1038 | 692  | ****            | ****  | 2085              | 18   | 1565       | 1174 | 783  | ****            | ****  | 1610              |
| 24   | 890        | 667  | 445  | ****            | ****  | 1564              | 24   | 739        | 554  | 369  | ****            | ****  | 1208              |
| 30   | 610        | 457  | 305  | 915             | ****  | 1251              | 30   | 400        | 300  | 200  | 601             | 901   | 966               |
| 36   | 440        | 330  | 220  | 551             | 826   | 1043              | 36   | 239        | 179  | 120  | 299             | 449   | 695               |
| 42   | 332        | 249  | 166  | 355             | 533   | 894               | 42   | 154        | 115  | 77   | 165             | 247   | 511               |
| 48   | 258        | 194  | 129  | 242             | 363   | 782               | 48   | 104        | 78   | 52   | 98              | 147   | 391               |
| 54   | 206        | 155  | 103  | 172             | 258   | 695               | 54   | 74         | 55   | 37   | 62              | 92    | 309               |
| 60   | 168        | 126  | 84   | 126             | 189   | 626               | 60   | 54         | 41   | 27   | 41              | 61    | 250               |
| 66   | 140        | 105  | 70   | 95              | 143   | 569               | 66   | 41         | 31   | 20   | 28              | 42    | 207               |
| 72   | 118        | 89   | 59   | 74              | 111   | 521               | 72   | 32         | 24   | 16   | 20              | 30    | 174               |
| 78   | 101        | 76   | 51   | 58              | 87    | 481               | 78   | 25         | 19   | 12   | 14              | 22    | 148               |
| 84   | 87         | 66   | 44   | 47              | 70    | 447               | 84   | 20         | 15   | 10   | 11              | 16    | 128               |
| 90   | 76         | 57   | 38   | 38              | 57    | 417               | 90   | 16         | 12   | 8    | 8               | 12    | 111               |
| 96   | 67         | 50   | 34   | 32              | 47    | 391               | 96   | 13         | 10   | 7    | 6               | 9     | 98                |

### Metric

$E_b = 20.7 \text{ Gpa}$        $G_b = 2.1 \text{ Gpa}$       Characteristic longitudinal compressive strength ( $F_L^c$ ) = 207 Mpa  
 $I_x = 1.07\text{E-}6 \text{ m}^4/\text{m}$        $S_x = 4.20\text{E-}5 \text{ m}^3/\text{m}$       Characteristic in-plane shear strength ( $F_{LT}^v$ ) = 34 Mpa  
 $A_w = 1.53\text{E-}4 \text{ m}^2/\text{m}$       Weight = 12.5 kg/m<sup>2</sup>      12% Perforated Top

| Allowable Concentrated Load Tables<br>(kN/m width of panel) |            |      |      |                 |      |                   | Allowable Uniform Load Tables<br>(kN/m <sup>2</sup> ) |            |      |      |                 |      |                   |
|---|------------|------|------|-----------------|------|-------------------|---|------------|------|------|-----------------|------|-------------------|
| Span (m)  | L/D Ratios |      |      | Deflection (mm) |      | Max. Service Load | Span (m)  | L/D Ratios |      |      | Deflection (mm) |      | Max. Service Load |
|   | 180        | 240  | 360  | 6               | 10   |                   |   | 180        | 240  | 360  | 6               | 10   |                   |
| 0.25  | ****       | 30.3 | 20.2 | ****            | **** | 35.2              | 0.25  | ****       | **** | **** | ****            | **** | 141.0             |
| 0.50  | 17.7       | 13.3 | 8.9  | ****            | **** | 27.8              | 0.50  | 59.7       | 44.8 | 29.8 | ****            | **** | 70.5              |
| 0.75  | 9.1        | 6.9  | 4.6  | 13.2            | **** | 18.6              | 0.75  | 20.0       | 15.0 | 10.0 | 28.9            | **** | 47.0              |
| 1.00  | 5.5        | 4.1  | 2.7  | 5.9             | 9.8  | 13.9              | 1.00  | 8.9        | 6.7  | 4.4  | 9.6             | 16.0 | 27.8              |
| 1.25  | 3.6        | 2.7  | 1.8  | 3.1             | 5.2  | 11.1              | 1.25  | 4.6        | 3.5  | 2.3  | 4.0             | 6.7  | 17.8              |
| 1.50  | 2.5        | 1.9  | 1.3  | 1.8             | 3.0  | 9.3               | 1.50  | 2.7        | 2.0  | 1.4  | 2.0             | 3.3  | 12.4              |
| 1.75  | 1.9        | 1.4  | 0.9  | 1.2             | 1.9  | 8.0               | 1.75  | 1.7        | 1.3  | 0.9  | 1.1             | 1.8  | 9.1               |
| 2.00  | 1.4        | 1.1  | 0.7  | 0.8             | 1.3  | 7.0               | 2.00  | 1.2        | 0.9  | 0.6  | 0.6             | 1.0  | 7.0               |
| 2.25  | 1.1        | 0.9  | 0.6  | 0.6             | 0.9  | 6.2               | 2.25  | 0.8        | 0.6  | 0.4  | 0.4             | 0.7  | 5.5               |
| 2.50  | 0.9        | 0.7  | 0.5  | 0.4             | 0.7  | 5.6               | 2.50  | 0.6        | 0.4  | 0.3  | 0.3             | 0.4  | 4.5               |
| 2.75  | 0.8        | 0.6  | 0.4  | 0.3             | 0.5  | 5.1               | 2.75  | 0.5        | 0.3  | 0.2  | 0.2             | 0.3  | 3.7               |
| 3.00  | 0.7        | 0.5  | 0.3  | 0.2             | 0.4  | 4.6               | 3.00  | 0.3        | 0.3  | 0.2  | 0.1             | 0.2  | 3.1               |

Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

# SUPERPLANK™ GR205

## Simple Supported Beam-Continuous Span (Solid Top)



Superplank™ GR205 Decking  
24" wide x 1.5" high  
1500/1525/1625 Series



### Imperial

$E_b = 3.0$  Msi       $G_b = 0.3$  Msi      Characteristic longitudinal compressive strength ( $F_L^c$ ) = 30,000 psi  
 $I_x = 0.85$  in<sup>4</sup>/ft       $S_x = 0.80$  in<sup>3</sup>/ft      Characteristic in-plane shear strength ( $F_{LT}^y$ ) = 5,000 psi  
 $A_W = 0.72$  in<sup>2</sup>/ft      Weight = 2.55 psf      Solid Top Decking

| Span (in) | Allowable Concentrated Load Tables<br>(lb/ft width of panel) |      |      |                 |       |                   | Span (in) | Allowable Uniform Load Tables<br>(lb/ft <sup>2</sup> ) |      |      |                 |       |                   |
|-----------|--|------|------|-----------------|-------|-------------------|-----------|--|------|------|-----------------|-------|-------------------|
|           | L/D Ratios   |      |      | Deflection (in) |       |                   |           | L/D Ratios   |      |      | Deflection (in) |       |                   |
|           | 180  | 240  | 360  | 0.25            | 0.375 | Max. Service Load |           | 180  | 240  | 360  | 0.25            | 0.375 | Max. Service Load |
| 12        | ****   | **** | 1395 | ****            | ****  | 2034              | 12        | ****   | **** | **** | ****            | ****  | 2013              |
| 18        | 1826   | 1369 | 913  | ****            | ****  | 2034              | 18        | ****   | **** | 1281 | ****            | ****  | 1342              |
| 24        | 1231   | 923  | 615  | ****            | ****  | 1969              | 24        | ****   | 981  | 654  | ****            | ****  | 1006              |
| 30        | 867  | 650  | 434  | 1301            | ****  | 1576              | 30        | 742  | 557  | 371  | ****            | ****  | 805               |
| 36        | 637  | 478  | 319  | 796             | 1195  | 1313              | 36        | 456  | 342  | 228  | 571             | ****  | 671               |
| 42        | 485  | 364  | 243  | 520             | 780   | 1125              | 42        | 299  | 224  | 149  | 320             | 480   | 575               |
| 48        | 380  | 285  | 190  | 357             | 535   | 985               | 48        | 205  | 154  | 103  | 192             | 289   | 500               |
| 54        | 306  | 229  | 153  | 255             | 382   | 875               | 54        | 147  | 110  | 73   | 122             | 183   | 395               |
| 60        | 250  | 188  | 125  | 188             | 282   | 788               | 60        | 108  | 81   | 54   | 81              | 122   | 320               |
| 66        | 209  | 157  | 104  | 142             | 214   | 716               | 66        | 82   | 62   | 41   | 56              | 84    | 264               |
| 72        | 177  | 133  | 88   | 110             | 166   | 656               | 72        | 64   | 48   | 32   | 40              | 60    | 222               |
| 78        | 151  | 114  | 76   | 87              | 131   | 606               | 78        | 51   | 38   | 25   | 29              | 44    | 189               |
| 84        | 131  | 98   | 66   | 70              | 105   | 563               | 84        | 41   | 30   | 20   | 22              | 33    | 163               |
| 90        | 115  | 86   | 57   | 57              | 86    | 525               | 90        | 33   | 25   | 17   | 17              | 25    | 142               |
| 96        | 101  | 76   | 51   | 47              | 71    | 492               | 96        | 27   | 21   | 14   | 13              | 19    | 125               |

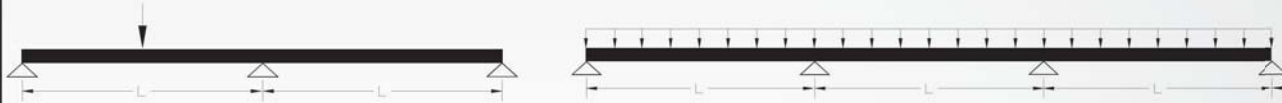
### Metric

$E_b = 20.7$  Gpa       $G_b = 2.1$  Gpa      Characteristic longitudinal compressive strength ( $F_L^c$ ) = 207 Mpa  
 $I_x = 1.17E-6$  m<sup>4</sup>/m       $S_x = 4.30E-5$  m<sup>3</sup>/m      Characteristic in-plane shear strength ( $F_{LT}^y$ ) = 34 Mpa  
 $A_W = 1.53E-4$  m<sup>2</sup>/m      Weight = 12.5 kg/m<sup>2</sup>      Solid Top Decking

| Span (m) | Allowable Concentrated Load Tables<br>(kN/m width of panel) |      |      |                 |      |                   | Span (m) | Allowable Uniform Load Tables<br>(kN/m <sup>2</sup> ) |      |      |                 |      |                   |
|----------|---|------|------|-----------------|------|-------------------|----------|---|------|------|-----------------|------|-------------------|
|          | L/D Ratios  |      |      | Deflection (mm) |      |                   |          | L/D Ratios  |      |      | Deflection (mm) |      |                   |
|          | 180   | 240  | 360  | 6               | 10   | Max. Service Load |          | 180   | 240  | 360  | 6               | 10   | Max. Service Load |
| 0.25     | ****  | **** | 23.6 | ****            | **** | 29.7              | 0.25     | ****  | **** | **** | ****            | **** | 117.5             |
| 0.50     | 23.8  | 17.8 | 11.9 | ****            | **** | 29.7              | 0.50     | ****  | **** | 50.2 | ****            | **** | 58.7              |
| 0.75     | 13.0  | 9.7  | 6.5  | 18.7            | **** | 23.4              | 0.75     | 37.0  | 27.8 | 18.5 | ****            | **** | 39.2              |
| 1.00     | 7.9   | 6.0  | 4.0  | 8.6             | 14.3 | 17.5              | 1.00     | 17.1  | 12.8 | 8.6  | 18.5            | **** | 29.4              |
| 1.25     | 5.3   | 4.0  | 2.7  | 4.6             | 7.6  | 14.0              | 1.25     | 9.2   | 6.9  | 4.6  | 7.9             | 13.2 | 22.8              |
| 1.50     | 3.8   | 2.8  | 1.9  | 2.7             | 4.5  | 11.7              | 1.50     | 5.4   | 4.1  | 2.7  | 3.9             | 6.5  | 15.8              |
| 1.75     | 2.8   | 2.1  | 1.4  | 1.7             | 2.9  | 10.0              | 1.75     | 3.5   | 2.6  | 1.7  | 2.1             | 3.6  | 11.6              |
| 2.00     | 2.2   | 1.6  | 1.1  | 1.2             | 2.0  | 8.8               | 2.00     | 2.4   | 1.8  | 1.2  | 1.3             | 2.1  | 8.9               |
| 2.25     | 1.7   | 1.3  | 0.9  | 0.8             | 1.4  | 7.8               | 2.25     | 1.7   | 1.2  | 0.8  | 0.8             | 1.3  | 7.0               |
| 2.50     | 1.4   | 1.1  | 0.7  | 0.6             | 1.0  | 7.0               | 2.50     | 1.2   | 0.9  | 0.6  | 0.5             | 0.9  | 5.7               |
| 2.75     | 1.2   | 0.9  | 0.6  | 0.5             | 0.8  | 6.4               | 2.75     | 0.9   | 0.7  | 0.5  | 0.4             | 0.6  | 4.7               |
| 3.00     | 1.0   | 0.7  | 0.5  | 0.4             | 0.6  | 5.8               | 3.00     | 0.7   | 0.5  | 0.4  | 0.3             | 0.4  | 4.0               |

Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.

## Simple Supported Beam-Continuous Span (Perforated Top)



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 1500/1525/1625 Series



### Imperial

$E_b = 3.0 \text{ Msi}$        $G_b = 0.3 \text{ Msi}$       Characteristic longitudinal compressive strength ( $F_L^c$ ) = 30,000 psi  
 $I_x = 0.79 \text{ in}^4/\text{ft}$        $S_x = 0.78 \text{ in}^3/\text{ft}$       Characteristic in-plane shear strength ( $F_{LT}^v$ ) = 5,000 psi  
 $A_w = 0.72 \text{ in}^2/\text{ft}$       Weight = 2.55 psf      12% Perforated Top

| Span (in) | Allowable Concentrated Load Tables<br>(lb/ft width of panel) |      |      |                 |       |                   | Span (in) | Allowable Uniform Load Tables<br>(lb/ft <sup>2</sup> ) |      |      |                 |       |                   |
|-----------|--|------|------|-----------------|-------|-------------------|-----------|--|------|------|-----------------|-------|-------------------|
|           | L/D Ratios   |      |      | Deflection (in) |       |                   |           | L/D Ratios   |      |      | Deflection (in) |       |                   |
|           | 180  | 240  | 360  | 0.25            | 0.375 | Max. Service Load |           | 180  | 240  | 360  | 0.25            | 0.375 | Max. Service Load |
| 12        | ****   | 2016 | 1344 | ****            | ****  | 2034              | 12        | ****   | **** | **** | ****            | ****  | 2013              |
| 18        | 1729   | 1297 | 864  | ****            | ****  | 2034              | 18        | ***  | **** | 1215 | ****            | ****  | 1342              |
| 24        | 1153   | 865  | 577  | ****            | ****  | 1925              | 24        | ****   | 921  | 614  | ****            | ****  | 1006              |
| 30        | 807  | 605  | 404  | 1211            | ****  | 1540              | 30        | 692  | 519  | 346  | ****            | ****  | 805               |
| 36        | 591  | 443  | 295  | 739             | 1108  | 1283              | 36        | 424  | 318  | 212  | 530             | ****  | 671               |
| 42        | 449  | 336  | 224  | 481             | 721   | 1100              | 42        | 276  | 207  | 138  | 296             | 444   | 575               |
| 48        | 351  | 263  | 176  | 329             | 494   | 963               | 48        | 190  | 142  | 95   | 178             | 267   | 489               |
| 54        | 282  | 211  | 141  | 235             | 352   | 856               | 54        | 135  | 102  | 68   | 113             | 169   | 386               |
| 60        | 231  | 173  | 115  | 173             | 260   | 770               | 60        | 100  | 75   | 50   | 75              | 112   | 313               |
| 66        | 192  | 144  | 96   | 131             | 197   | 700               | 66        | 76   | 57   | 38   | 52              | 77    | 259               |
| 72        | 163  | 122  | 81   | 102             | 152   | 642               | 72        | 59   | 44   | 29   | 37              | 55    | 217               |
| 78        | 139  | 104  | 70   | 80              | 121   | 582               | 78        | 46   | 35   | 23   | 27              | 40    | 185               |
| 84        | 121  | 90   | 60   | 65              | 97    | 550               | 84        | 37   | 28   | 19   | 20              | 30    | 150               |
| 90        | 105  | 79   | 53   | 53              | 79    | 513               | 90        | 30   | 23   | 15   | 15              | 23    | 139               |
| 96        | 93   | 70   | 46   | 44              | 65    | 481               | 96        | 25   | 19   | 13   | 12              | 18    | 122               |

### Metric

$E_b = 20.7 \text{ Gpa}$        $G_b = 2.1 \text{ Gpa}$       Characteristic longitudinal compressive strength ( $F_L^c$ ) = 207 Mpa  
 $I_x = 1.07\text{E-}6 \text{ m}^4/\text{m}$        $S_x = 4.20\text{E-}5 \text{ m}^3/\text{m}$       Characteristic in-plane shear strength ( $F_{LT}^v$ ) = 34 Mpa  
 $A_w = 1.53\text{E-}4 \text{ m}^2/\text{m}$       Weight = 12.5 kg/m<sup>2</sup>      12% Perforated Top

| Span (m) | Allowable Concentrated Load Tables<br>(kN/m width of panel) |      |      |                 |      |                   | Span (m) | Allowable Uniform Load Tables<br>(kN/m <sup>2</sup> ) |      |      |                 |      |                   |
|----------|---|------|------|-----------------|------|-------------------|----------|---|------|------|-----------------|------|-------------------|
|          | L/D Ratios  |      |      | Deflection (mm) |      |                   |          | L/D Ratios  |      |      | Deflection (mm) |      |                   |
|          | 180   | 240  | 360  | 6               | 10   | Max. Service Load |          | 180   | 240  | 360  | 6               | 10   | Max. Service Load |
| 0.25     | ****  | **** | 22.9 | ****            | **** | 29.7              | 0.25     | ****  | **** | **** | ****            | **** | 117.5             |
| 0.50     | 22.4  | 16.8 | 11.2 | ****            | **** | 29.7              | 0.50     | ****  | **** | 47.4 | ****            | **** | 58.7              |
| 0.75     | 12.1  | 9.1  | 6.0  | 17.4            | **** | 22.8              | 0.75     | 34.5  | 25.9 | 17.3 | ****            | **** | 39.2              |
| 1.00     | 7.4   | 5.5  | 3.7  | 7.9             | 13.2 | 17.1              | 1.00     | 15.8  | 11.9 | 7.9  | 17.1            | 28.5 | 29.4              |
| 1.25     | 4.9   | 3.7  | 2.4  | 4.2             | 7.0  | 13.7              | 1.25     | 8.5   | 6.3  | 4.2  | 7.3             | 12.2 | 22.3              |
| 1.50     | 3.5   | 2.6  | 1.7  | 2.5             | 4.2  | 11.4              | 1.50     | 5.0   | 3.8  | 2.5  | 3.6             | 6.0  | 15.5              |
| 1.75     | 2.6   | 1.9  | 1.3  | 1.6             | 2.7  | 9.8               | 1.75     | 3.2   | 2.4  | 1.6  | 2.0             | 3.3  | 11.4              |
| 2.00     | 2.0   | 1.5  | 1.0  | 1.1             | 1.8  | 8.6               | 2.00     | 2.2   | 1.6  | 1.1  | 1.2             | 1.9  | 8.7               |
| 2.25     | 1.6   | 1.2  | 0.8  | 0.8             | 1.3  | 7.6               | 2.25     | 1.5   | 1.1  | 0.8  | 0.7             | 1.2  | 6.9               |
| 2.50     | 1.3   | 1.0  | 0.6  | 0.6             | 0.9  | 6.9               | 2.50     | 1.1   | 0.8  | 0.6  | 0.5             | 0.8  | 5.6               |
| 2.75     | 1.1   | 0.8  | 0.5  | 0.4             | 0.7  | 6.2               | 2.75     | 0.8   | 0.6  | 0.4  | 0.3             | 0.6  | 4.6               |
| 3.00     | 0.9   | 0.7  | 0.5  | 0.3             | 0.5  | 5.7               | 3.00     | 0.7   | 0.5  | 0.3  | 0.2             | 0.4  | 3.9               |

Maximum allowable load is determined by a 2.5 safety factor in flexure and a 3.0 safety factor in shear.