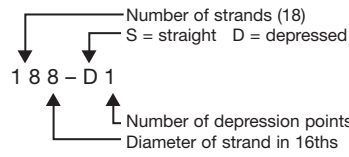


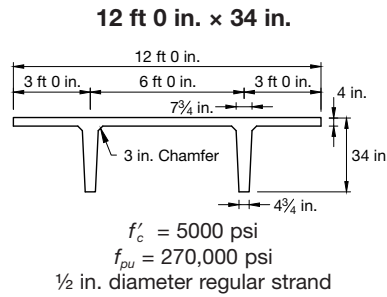
### 3.5 Pretopped Double-Tee Load Tables (cont.)

#### Strand Pattern Designation



These components are typically used in parking structures. Loads do not include any superimposed dead loads. Loads shown are live load. Long-term cambers do not include live load.

Key  
 193 – Superimposed service load capacity, lb/ft<sup>2</sup>  
 0.7 – Estimated camber at erection, in.  
 1.0 – Estimated long-time camber, in.



|                |   | Normalweight            | Lightweight             |
|----------------|---|-------------------------|-------------------------|
| A              | = | 951 in. <sup>2</sup>    | 951 in. <sup>2</sup>    |
| I              | = | 85,054 in. <sup>4</sup> | 85,054 in. <sup>4</sup> |
| y <sub>b</sub> | = | 25.77 in.               | 25.77 in.               |
| y <sub>t</sub> | = | 8.23 in.                | 8.23 in.                |
| S <sub>b</sub> | = | 3301 in. <sup>3</sup>   | 3301 in. <sup>3</sup>   |
| S <sub>t</sub> | = | 10,334 in. <sup>3</sup> | 10,334 in. <sup>3</sup> |
| wt             | = | 991 lb/ft               | 759 lb/ft               |
| DL             | = | 83 lb/ft <sup>2</sup>   | 63 lb/ft <sup>2</sup>   |
| V/S            | = | 2.32 in.                | 2.32 in.                |

Check with regional producers for availability.

12DT34

Table of superimposed service load capacity, lb/ft<sup>2</sup>, and cambers, in.

Normalweight—no topping

| Strand pattern | y <sub>s</sub> (end)<br>y <sub>s</sub> (center),<br>in. | Span, ft |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |    |    |    |    |    |  |
|----------------|---|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|----|----|----|----|----|--|
|                |   | 40       | 42  | 44  | 46  | 48  | 50  | 52  | 54  | 56  | 58  | 60  | 62  | 64  | 66  | 68  | 70  | 72  | 74   | 76  | 78  | 80 | 82 | 84 | 86 | 88 |  |
| 128-S          | 7.00  | 193      | 169 | 149 | 131 | 115 | 101 | 88  | 77  | 67  | 59  | 51  | 43  | 37  | 31  | 25  |     |     |      |     |     |    |    |    |    |    |  |
|                | 7.00  | 0.7      | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 |     |     |      |     |     |    |    |    |    |    |  |
| 148-S          | 8.00  | 197      | 174 | 154 | 136 | 120 | 107 | 94  | 83  | 73  | 64  | 56  | 49  | 42  | 36  | 30  | 25  |     |      |     |     |    |    |    |    |    |  |
|                | 8.00  | 0.9      | 0.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.3 | 0.1 |     |      |     |     |    |    |    |    |    |  |
| 168-S          | 9.00  | 197      | 174 | 155 | 138 | 123 | 109 | 97  | 86  | 76  | 67  | 59  | 52  | 45  | 39  | 34  | 28  |     |      |     |     |    |    |    |    |    |  |
|                | 9.00  | 1.0      | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 0.9 | 0.7 | 0.6 | 0.4 | 0.2 |     |      |     |     |    |    |    |    |    |  |
| 188-S          | 10.00   | 192      | 171 | 153 | 137 | 122 | 109 | 97  | 87  | 77  | 69  | 61  | 53  | 47  | 41  | 35  | 30  |     |      |     |     |    |    |    |    |    |  |
|                | 10.00   | 1.1      | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.0 | 0.8 | 0.7 | 0.5 | 0.3 |      |     |     |    |    |    |    |    |  |
| 188-D1         | 14.39   | 180      | 162 | 147 | 132 | 119 | 108 | 97  | 88  | 79  | 71  | 63  | 57  | 50  | 45  | 39  | 34  | 28  |      |     |     |    |    |    |    |    |  |
|                | 4.00  | 1.6      | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | 1.4 | 1.3 | 1.1 | 0.9 | 0.6  | 0.4 | 0.1 |    |    |    |    |    |  |
| 208-D1         | 15.50   | 183      | 166 | 150 | 136 | 123 | 112 | 101 | 92  | 82  | 74  | 67  | 61  | 55  | 49  | 43  | 37  | 31  | 26   |     |     |    |    |    |    |    |  |
|                | 4.25  | 1.8      | 1.8 | 1.9 | 1.9 | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 | 1.7 | 1.6 | 1.5 | 1.3 | 1.1 | 0.9 | 0.6 | 0.3 | -0.1 |     |     |    |    |    |    |    |  |

12LDT34

Table of superimposed service load capacity, lb/ft<sup>2</sup>, and cambers, in.

Lightweight—no topping

| Strand pattern | y <sub>s</sub> (end)<br>y <sub>s</sub> (center),<br>in. | Span, ft |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |
|----------------|---|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|
|                |   | 42       | 44  | 46  | 48  | 50  | 52  | 54  | 56  | 58  | 60  | 62  | 64  | 66  | 68  | 70  | 72  | 74  | 76  | 78  | 80  | 82  | 84  | 86 | 88 | 90 | 92 | 94 |
| 128-S          | 7.00  | 184      | 164 | 146 | 130 | 116 | 103 | 92  | 82  | 73  | 65  | 58  | 52  | 46  | 40  | 35  | 31  | 26  |     |     |     |     |     |    |    |    |    |    |
|                | 7.00  | 1.2      | 1.3 | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.2 | 1.1 | 0.9 | 0.7 |     |     |     |     |     |     |    |    |    |    |    |
| 148-S          | 8.00  | 189      | 169 | 151 | 135 | 121 | 109 | 98  | 88  | 79  | 71  | 64  | 57  | 51  | 45  | 40  | 35  | 31  | 27  |     |     |     |     |    |    |    |    |    |
|                | 8.00  | 1.5      | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 1.7 | 1.6 | 1.5 | 1.3 | 1.1 | 0.9 |     |     |     |     |    |    |    |    |    |
| 168-S          | 9.00  | 189      | 170 | 153 | 137 | 124 | 112 | 101 | 91  | 82  | 74  | 67  | 60  | 54  | 48  | 43  | 38  | 34  | 30  | 26  |     |     |     |    |    |    |    |    |
|                | 9.00  | 1.8      | 1.8 | 1.9 | 2.0 | 2.1 | 2.1 | 2.1 | 2.2 | 2.2 | 2.2 | 2.1 | 2.1 | 2.0 | 1.9 | 1.8 | 1.6 | 1.4 | 1.2 | 0.9 |     |     |     |    |    |    |    |    |
| 188-S          | 10.00   | 186      | 168 | 152 | 137 | 124 | 112 | 102 | 92  | 83  | 76  | 68  | 62  | 56  | 50  | 45  | 40  | 36  | 32  | 28  |     |     |     |    |    |    |    |    |
|                | 10.00   | 2.0      | 2.1 | 2.2 | 2.2 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.3 | 2.1 | 2.0 | 1.8 | 1.6 | 1.3 | 1.0 |     |     |     |    |    |    |    |    |
| 188-D1         | 14.39   | 195      | 177 | 161 | 147 | 134 | 123 | 112 | 103 | 94  | 86  | 78  | 71  | 64  | 57  | 53  | 48  | 44  | 40  | 36  | 33  | 29  | 25  |    |    |    |    |    |
|                | 4.00  | 2.6      | 2.7 | 2.8 | 3.0 | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.1 | 3.0 | 2.9 | 2.7 | 2.6 | 2.4 | 2.1 | 1.8 | 1.5 | 1.1 | 0.6 |    |    |    |    |    |
| 208-D1         | 15.50   | 198      | 180 | 165 | 151 | 138 | 127 | 116 | 107 | 98  | 89  | 80  | 73  | 66  | 59  | 53  | 48  | 44  | 41  | 37  | 34  | 31  | 28  |    |    |    |    |    |
|                | 4.25  | 2.9      | 3.1 | 3.2 | 3.3 | 3.4 | 3.6 | 3.6 | 3.7 | 3.8 | 3.8 | 3.7 | 3.7 | 3.6 | 3.4 | 3.3 | 3.1 | 2.9 | 2.6 | 2.3 | 2.0 | 1.6 | 1.2 |    |    |    |    |    |

Strength is based on strain compatibility; bottom tension is limited to 12√f<sub>c</sub>; see pages 3–8 through 3–11 for explanation. Shaded values require release strengths higher than 3500 psi.