



| FTY=17KSI                     |                           |                           |                           |
|-------------------------------|---------------------------|---------------------------|---------------------------|
| Positive and Negative Bending |                           |                           |                           |
|                               | 0.032                     | 0.040                     | 0.050                     |
| Y=                            | 0.438 in                  | 0.438 in                  | 0.438 in                  |
| S=                            | 0.092 in <sup>3</sup> /ft | 0.117 in <sup>3</sup> /ft | 0.147 in <sup>3</sup> /ft |
| I=                            | 0.040 in <sup>4</sup> /ft | 0.051 in <sup>4</sup> /ft | 0.065 in <sup>4</sup> /ft |
| M <sub>a</sub> =              | 0.074 ft-k/ft             | 0.096 ft-k/ft             | 0.123 ft-k/ft             |
| P <sub>c,int</sub> =          | 0.528 k/ft                | 0.847 k/ft                | 1.351 k/ft                |
| P <sub>c,end</sub> =          | 0.257 k/ft                | 0.412 k/ft                | 0.658 k/ft                |

| 0.032" Aluminum |                           |        |         |                           |        |         |                           |        |         |
|-----------------|---------------------------|--------|---------|---------------------------|--------|---------|---------------------------|--------|---------|
| Load (psf)      | L/240 Deflection Criteria |        |         | L/180 Deflection Criteria |        |         | L/120 Deflection Criteria |        |         |
|                 | Span Condition            |        |         | Span Condition            |        |         | Span Condition            |        |         |
|                 | Single                    | Double | Triple  | Single                    | Double | Triple  | Single                    | Double | Triple  |
| 10              | *4'-5"                    | *6'-0" | *5'-6"  | *4'-11"                   | *6'-7" | *6'-1"  | *5'-7"                    | 7'-5"  | *6'-11" |
| 15              | *3'-11"                   | *5'-3" | *4'-10" | *4'-3"                    | *5'-9" | *5'-4"  | *4'-11"                   | 6'-0"  | *6'-1"  |
| 20              | *3'-6"                    | *4'-9" | *4'-4"  | *3'-11"                   | 5'-2"  | *4'-10" | *4'-5"                    | 5'-2"  | *5'-6"  |
| 25              | *3'-3"                    | *4'-5" | *4'-1"  | *3'-7"                    | 4'-7"  | *4'-5"  | *4'-2"                    | 4'-7"  | *5'-1"  |
| 30              | *3'-1"                    | *4'-2" | *3'-10" | *3'-5"                    | 4'-2"  | *4'-2"  | *3'-11"                   | 4'-2"  | 4'-8"   |
| 35              | *2'-11"                   | 3'-10" | *3'-7"  | *3'-3"                    | 3'-10" | *4'-0"  | *3'-8"                    | 3'-10" | 4'-3"   |
| 40              | *2'-9"                    | 3'-6"  | *3'-5"  | *3'-1"                    | 3'-6"  | *3'-10" | *3'-6"                    | 3'-6"  | 4'-0"   |
| 45              | *2'-8"                    | 3'-4"  | *3'-4"  | *2'-11"                   | 3'-4"  | *3'-8"  | *3'-5"                    | 3'-4"  | 3'-9"   |
| 50              | *2'-7"                    | 3'-1"  | *3'-2"  | *2'-10"                   | 3'-1"  | 3'-6"   | *3'-3"                    | 3'-1"  | 3'-6"   |
| 55              | *2'-6"                    | 2'-11" | *3'-1"  | *2'-9"                    | 2'-11" | 3'-4"   | *3'-2"                    | 2'-11" | 3'-4"   |
| 60              | *2'-5"                    | 2'-10" | *3'-0"  | *2'-8"                    | 2'-10" | 3'-2"   | 3'-1"                     | 2'-10" | 3'-2"   |
| 65              | *2'-4"                    | 2'-8"  | *2'-11" | *2'-7"                    | 2'-8"  | 3'-0"   | 3'-0"                     | 2'-8"  | 3'-0"   |
| 70              | *2'-4"                    | 2'-7"  | *2'-10" | *2'-6"                    | 2'-7"  | 2'-10"  | 2'-10"                    | 2'-7"  | 2'-10"  |
| 75              | *2'-3"                    | 2'-5"  | 2'-9"   | *2'-6"                    | 2'-5"  | 2'-9"   | 2'-9"                     | 2'-5"  | 2'-9"   |
| 80              | *2'-2"                    | 2'-4"  | 2'-8"   | *2'-5"                    | 2'-4"  | 2'-8"   | 2'-8"                     | 2'-4"  | 2'-8"   |
| 85              | *2'-2"                    | 2'-3"  | 2'-7"   | *2'-5"                    | 2'-3"  | 2'-7"   | 2'-7"                     | 2'-3"  | 2'-7"   |
| 90              | *2'-1"                    | 2'-2"  | 2'-6"   | *2'-4"                    | 2'-2"  | 2'-6"   | 2'-6"                     | 2'-2"  | 2'-6"   |
| 95              | *2'-1"                    | 2'-2"  | 2'-5"   | *2'-3"                    | 2'-2"  | 2'-5"   | 2'-5"                     | 2'-2"  | 2'-5"   |
| 100             | *2'-1"                    | 2'-1"  | 2'-4"   | *2'-3"                    | 2'-1"  | 2'-4"   | 2'-5"                     | 2'-1"  | 2'-4"   |

| 0.040" Aluminum |                           |        |         |                           |        |         |                           |        |         |
|-----------------|---------------------------|--------|---------|---------------------------|--------|---------|---------------------------|--------|---------|
| Load (psf)      | L/240 Deflection Criteria |        |         | L/180 Deflection Criteria |        |         | L/120 Deflection Criteria |        |         |
|                 | Span Condition            |        |         | Span Condition            |        |         | Span Condition            |        |         |
|                 | Single                    | Double | Triple  | Single                    | Double | Triple  | Single                    | Double | Triple  |
| 10              | *4'-10"                   | *6'-6" | *6'-0"  | *5'-4"                    | *7'-1" | *6'-7"  | *6'-1"                    | *8'-2" | *7'-6"  |
| 15              | *4'-2"                    | *5'-8" | *5'-2"  | *4'-8"                    | *6'-3" | *5'-9"  | *5'-4"                    | 6'-11" | *6'-7"  |
| 20              | *3'-10"                   | *5'-1" | *4'-9"  | *4'-2"                    | *5'-8" | *5'-2"  | *4'-10"                   | 6'-0"  | *6'-0"  |
| 25              | *3'-6"                    | *4'-9" | *4'-5"  | *3'-11"                   | *5'-3" | *4'-10" | *4'-6"                    | 5'-4"  | *5'-6"  |
| 30              | *3'-4"                    | *4'-6" | *4'-1"  | *3'-8"                    | 4'-10" | *4'-6"  | *4'-2"                    | 4'-10" | *5'-2"  |
| 35              | *3'-2"                    | *4'-3" | *3'-11" | *3'-6"                    | 4'-5"  | *4'-4"  | *4'-0"                    | 4'-5"  | *4'-11" |
| 40              | *3'-0"                    | *4'-1" | *3'-9"  | *3'-4"                    | 4'-2"  | *4'-1"  | *3'-10"                   | 4'-2"  | 4'-8"   |
| 45              | *2'-11"                   | 3'-11" | *3'-7"  | *3'-2"                    | 3'-11" | *4'-0"  | *3'-8"                    | 3'-11" | 4'-4"   |
| 50              | *2'-10"                   | 3'-8"  | *3'-6"  | *3'-1"                    | 3'-8"  | *3'-10" | *3'-6"                    | 3'-8"  | 4'-1"   |
| 55              | *2'-9"                    | 3'-6"  | *3'-4"  | *3'-0"                    | 3'-6"  | *3'-8"  | *3'-5"                    | 3'-6"  | 3'-11"  |
| 60              | *2'-8"                    | 3'-4"  | *3'-3"  | *2'-11"                   | 3'-4"  | *3'-7"  | *3'-4"                    | 3'-4"  | 3'-9"   |
| 65              | *2'-7"                    | 3'-2"  | *3'-2"  | *2'-10"                   | 3'-2"  | *3'-6"  | *3'-3"                    | 3'-2"  | 3'-7"   |
| 70              | *2'-6"                    | 3'-1"  | *3'-1"  | *2'-9"                    | 3'-1"  | *3'-5"  | *3'-2"                    | 3'-1"  | 3'-5"   |
| 75              | *2'-5"                    | 2'-11" | *3'-0"  | *2'-8"                    | 2'-11" | 3'-3"   | *3'-1"                    | 2'-11" | 3'-3"   |
| 80              | *2'-5"                    | 2'-10" | *3'-0"  | *2'-8"                    | 2'-10" | 3'-2"   | *3'-0"                    | 2'-10" | 3'-2"   |
| 85              | *2'-4"                    | 2'-9"  | *2'-11" | *2'-7"                    | 2'-9"  | 3'-1"   | 2'-11"                    | 2'-9"  | 3'-1"   |
| 90              | *2'-4"                    | 2'-8"  | *2'-10" | *2'-6"                    | 2'-8"  | 3'-0"   | 2'-10"                    | 2'-8"  | 3'-0"   |
| 95              | *2'-3"                    | 2'-7"  | *2'-10" | *2'-6"                    | 2'-7"  | 2'-11"  | 2'-9"                     | 2'-7"  | 2'-11"  |
| 100             | *2'-3"                    | 2'-6"  | *2'-9"  | *2'-5"                    | 2'-6"  | 2'-9"   | 2'-9"                     | 2'-6"  | 2'-9"   |

| 0.050" Aluminum |                           |         |         |                           |        |         |                           |         |         |
|-----------------|---------------------------|---------|---------|---------------------------|--------|---------|---------------------------|---------|---------|
| Load (psf)      | L/240 Deflection Criteria |         |         | L/180 Deflection Criteria |        |         | L/120 Deflection Criteria |         |         |
|                 | Span Condition            |         |         | Span Condition            |        |         | Span Condition            |         |         |
|                 | Single                    | Double  | Triple  | Single                    | Double | Triple  | Single                    | Double  | Triple  |
| 10              | *5'-3"                    | *7'-0"  | *6'-5"  | *5'-9"                    | *7'-8" | *7'-1"  | *6'-7"                    | *8'-10" | *8'-2"  |
| 15              | *4'-7"                    | *6'-1"  | *5'-8"  | *5'-0"                    | *6'-9" | *6'-2"  | *5'-9"                    | *7'-8"  | *7'-1"  |
| 20              | *4'-2"                    | *5'-6"  | *5'-1"  | *4'-7"                    | *6'-1" | *5'-8"  | *5'-3"                    | 6'-10"  | *6'-5"  |
| 25              | *3'-10"                   | *5'-2"  | *4'-9"  | *4'-3"                    | *5'-8" | *5'-3"  | *4'-10"                   | 6'-1"   | *6'-0"  |
| 30              | *3'-7"                    | *4'-10" | *4'-5"  | *4'-0"                    | *5'-4" | *4'-11" | *4'-7"                    | 5'-7"   | *5'-8"  |
| 35              | *3'-5"                    | *4'-7"  | *4'-3"  | *3'-9"                    | *5'-1" | *4'-8"  | *4'-4"                    | 5'-2"   | *5'-4"  |
| 40              | *3'-3"                    | *4'-5"  | *4'-1"  | *3'-7"                    | 4'-9"  | *4'-5"  | *4'-2"                    | 4'-9"   | *5'-1"  |
| 45              | *3'-2"                    | *4'-3"  | *3'-11" | *3'-6"                    | 4'-6"  | *4'-3"  | *4'-0"                    | 4'-6"   | *4'-11" |
| 50              | *3'-0"                    | *4'-1"  | *3'-9"  | *3'-4"                    | 4'-3"  | *4'-2"  | *3'-10"                   | 4'-3"   | *4'-9"  |
| 55              | *2'-11"                   | *3'-11" | *3'-8"  | *3'-3"                    | 4'-1"  | *4'-0"  | *3'-8"                    | 4'-1"   | 4'-6"   |
| 60              | *2'-10"                   | *3'-10" | *3'-6"  | *3'-2"                    | 3'-10" | *3'-11" | *3'-7"                    | 3'-10"  | 4'-4"   |
| 65              | *2'-9"                    | 3'-8"   | *3'-5"  | *3'-1"                    | 3'-8"  | *3'-9"  | *3'-6"                    | 3'-8"   | 4'-2"   |
| 70              | *2'-8"                    | 3'-7"   | *3'-4"  | *3'-0"                    | 3'-7"  | *3'-8"  | *3'-5"                    | 3'-7"   | 4'-0"   |
| 75              | *2'-8"                    | 3'-5"   | *3'-3"  | *2'-11"                   | 3'-5"  | *3'-7"  | *3'-4"                    | 3'-5"   | 3'-10"  |
| 80              | *2'-7"                    | 3'-4"   | *3'-2"  | *2'-10"                   | 3'-4"  | *3'-6"  | *3'-3"                    | 3'-4"   | 3'-9"   |
| 85              | *2'-6"                    | 3'-2"   | *3'-2"  | *2'-9"                    | 3'-2"  | *3'-5"  | *3'-2"                    | 3'-2"   | 3'-7"   |
| 90              | *2'-6"                    | 3'-1"   | *3'-1"  | *2'-9"                    | 3'-1"  | *3'-5"  | *3'-2"                    | 3'-1"   | 3'-6"   |
| 95              | *2'-5"                    | 3'-0"   | *3'-0"  | *2'-8"                    | 3'-0"  | *3'-4"  | *3'-1"                    | 3'-0"   | 3'-5"   |
| 100             | *2'-5"                    | 2'-11"  | *3'-0"  | *2'-8"                    | 2'-11" | *3'-3"  | *3'-0"                    | 2'-11"  | 3'-3"   |

- Notes:
1. Minimum 1.5" bearing assumed.
  2. Connection of panel to supporting structure not investigated.
  3. Design thickness assumed 0.002" less than nominal thickness.
  4. Span lengths indicated by \* are controlled by deflection.
  6. Since allowable loads and spans can be affected by actual conditions of use, information in these tables is intended for use by those qualified to assess these effects.