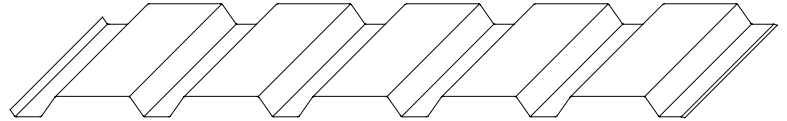


LOAD TABLES  
0.032 ALUMINUM  
ASTM B209  
3003-H14  
39 3/8" COVERAGE

# PENUMWALL PANEL BWS391

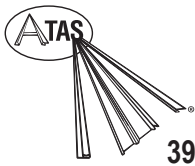


| $F_{TY} = 17 \text{ KSI}$ |                                 |                                 |
|---------------------------|---------------------------------|---------------------------------|
|                           | 0.032                           |                                 |
|                           | Top in<br>Compression           | Bottom in<br>Compression        |
| $Y_t =$                   | 0.4243 in                       | 0.4243 in                       |
| $Y_b =$                   | 0.8257 in                       | 0.8257 in                       |
| $S_t =$                   | $0.2554 \text{ in}^3/\text{ft}$ | $0.2554 \text{ in}^3/\text{ft}$ |
| $S_b =$                   | $0.1313 \text{ in}^3/\text{ft}$ | $0.1313 \text{ in}^3/\text{ft}$ |
| $I =$                     | $0.1084 \text{ in}^4/\text{ft}$ | $0.1084 \text{ in}^4/\text{ft}$ |
| $M_a =$                   | $0.0823 \text{ ft-k/ft}$        | $0.0742 \text{ ft-k/ft}$        |
| $P_{C,int} =$             | 296 lb/ft                       | 296 lb/ft                       |
| $P_{C,end} =$             | 128 lb/ft                       | 128 lb/ft                       |

| 0.032" Aluminum PenumWall/BWS391 Inward (Positive) Pressure |                                         |        |        |                                         |        |        |                                         |        |        |
|-------------------------------------------------------------|-----------------------------------------|--------|--------|-----------------------------------------|--------|--------|-----------------------------------------|--------|--------|
| Load (psf)                                                  | $\Delta \leq L/240$ Deflection Criteria |        |        | $\Delta \leq L/180$ Deflection Criteria |        |        | $\Delta \leq L/120$ Deflection Criteria |        |        |
|                                                             | Span Condition                          |        |        | Span Condition                          |        |        | Span Condition                          |        |        |
|                                                             | Single                                  | Double | Triple | Single                                  | Double | Triple | Single                                  | Double | Triple |
| 10                                                          | *6'-2"                                  | 7'-2"  | *7'-8" | *6'-10"                                 | 7'-2"  | 8'-1"  | *7'-10"                                 | 7'-2"  | 8'-1"  |
| 15                                                          | *5'-5"                                  | 5'-9"  | 6'-5"  | *6'-0"                                  | 5'-9"  | 6'-5"  | 6'-7"                                   | 5'-9"  | 6'-5"  |
| 20                                                          | *4'-11"                                 | 4'-10" | 5'-6"  | *5'-5"                                  | 4'-10" | 5'-6"  | 5'-8"                                   | 4'-10" | 5'-6"  |
| 25                                                          | *4'-7"                                  | 4'-3"  | 4'-10" | *5'-0"                                  | 4'-3"  | 4'-10" | 5'-1"                                   | 4'-3"  | 4'-10" |
| 30                                                          | *4'-3"                                  | 3'-10" | 4'-4"  | 4'-8"                                   | 3'-10" | 4'-4"  | 4'-8"                                   | 3'-10" | 4'-4"  |
| 35                                                          | *4'-1"                                  | 3'-6"  | 3'-11" | 4'-4"                                   | 3'-6"  | 3'-11" | 4'-4"                                   | 3'-6"  | 3'-11" |
| 40                                                          | *3'-11"                                 | 3'-2"  | 3'-7"  | 4'-0"                                   | 3'-2"  | 3'-7"  | 4'-0"                                   | 3'-2"  | 3'-7"  |
| 45                                                          | *3'-9"                                  | 3'-0"  | 3'-4"  | 3'-9"                                   | 3'-0"  | 3'-4"  | 3'-9"                                   | 3'-0"  | 3'-4"  |
| 50                                                          | 3'-7"                                   | 2'-9"  | 3'-1"  | 3'-7"                                   | 2'-9"  | 3'-1"  | 3'-7"                                   | 2'-9"  | 3'-1"  |
| 55                                                          | 3'-5"                                   | 2'-7"  | 2'-11" | 3'-5"                                   | 2'-7"  | 2'-11" | 3'-5"                                   | 2'-7"  | 2'-11" |
| 60                                                          | 3'-3"                                   | 2'-5"  | 2'-9"  | 3'-3"                                   | 2'-5"  | 2'-9"  | 3'-3"                                   | 2'-5"  | 2'-9"  |
| 65                                                          | 3'-2"                                   | 2'-4"  | 2'-7"  | 3'-2"                                   | 2'-4"  | 2'-7"  | 3'-2"                                   | 2'-4"  | 2'-7"  |
| 70                                                          | 3'-0"                                   | 2'-2"  | 2'-6"  | 3'-0"                                   | 2'-2"  | 2'-6"  | 3'-0"                                   | 2'-2"  | 2'-6"  |
| 75                                                          | 2'-11"                                  | 2'-1"  | 2'-4"  | 2'-11"                                  | 2'-1"  | 2'-4"  | 2'-11"                                  | 2'-1"  | 2'-4"  |
| 80                                                          | 2'-10"                                  | 2'-0"  | 2'-3"  | 2'-10"                                  | 2'-0"  | 2'-3"  | 2'-10"                                  | 2'-0"  | 2'-3"  |
| 85                                                          | 2'-9"                                   | 1'-11" | 2'-2"  | 2'-9"                                   | 1'-11" | 2'-2"  | 2'-9"                                   | 1'-11" | 2'-2"  |
| 90                                                          | 2'-8"                                   | 1'-10" | 2'-1"  | 2'-8"                                   | 1'-10" | 2'-1"  | 2'-8"                                   | 1'-10" | 2'-1"  |
| 95                                                          | 2'-7"                                   | 1'-9"  | 2'-0"  | 2'-7"                                   | 1'-9"  | 2'-0"  | 2'-7"                                   | 1'-9"  | 2'-0"  |
| 100                                                         | 2'-6"                                   | 1'-8"  | 1'-11" | 2'-6"                                   | 1'-8"  | 1'-11" | 2'-6"                                   | 1'-8"  | 1'-11" |

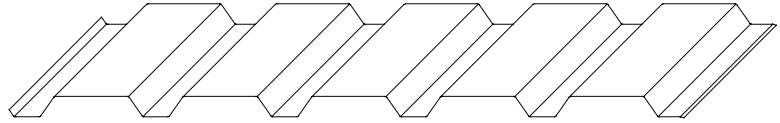
| 0.032" Aluminum PenumWall/BWS391 Outward (Negative) Pressure |                                         |        |        |                                         |        |        |                                         |        |        |
|--------------------------------------------------------------|-----------------------------------------|--------|--------|-----------------------------------------|--------|--------|-----------------------------------------|--------|--------|
| Load (psf)                                                   | $\Delta \leq L/240$ Deflection Criteria |        |        | $\Delta \leq L/180$ Deflection Criteria |        |        | $\Delta \leq L/120$ Deflection Criteria |        |        |
|                                                              | Span Condition                          |        |        | Span Condition                          |        |        | Span Condition                          |        |        |
|                                                              | Single                                  | Double | Triple | Single                                  | Double | Triple | Single                                  | Double | Triple |
| 10                                                           | *6'-2"                                  | 7'-7"  | *7'-8" | *6'-10"                                 | 7'-7"  | 8'-5"  | 7'-8"                                   | 7'-7"  | 8'-5"  |
| 15                                                           | *5'-5"                                  | 6'-0"  | *6'-8" | *6'-0"                                  | 6'-0"  | 6'-9"  | 6'-3"                                   | 6'-0"  | 6'-9"  |
| 20                                                           | *4'-11"                                 | 5'-1"  | 5'-8"  | 5'-5"                                   | 5'-1"  | 5'-8"  | 5'-5"                                   | 5'-1"  | 5'-8"  |
| 25                                                           | *4'-7"                                  | 4'-5"  | 5'-0"  | 4'-10"                                  | 4'-5"  | 5'-0"  | 4'-10"                                  | 4'-5"  | 5'-0"  |
| 30                                                           | *4'-3"                                  | 4'-0"  | 4'-6"  | 4'-5"                                   | 4'-0"  | 4'-6"  | 4'-5"                                   | 4'-0"  | 4'-6"  |
| 35                                                           | 4'-1"                                   | 3'-7"  | 4'-1"  | 4'-1"                                   | 3'-7"  | 4'-1"  | 4'-1"                                   | 3'-7"  | 4'-1"  |
| 40                                                           | 3'-10"                                  | 3'-4"  | 3'-9"  | 3'-10"                                  | 3'-4"  | 3'-9"  | 3'-10"                                  | 3'-4"  | 3'-9"  |
| 45                                                           | 3'-7"                                   | 3'-1"  | 3'-6"  | 3'-7"                                   | 3'-1"  | 3'-6"  | 3'-7"                                   | 3'-1"  | 3'-6"  |
| 50                                                           | 3'-5"                                   | 2'-10" | 3'-3"  | 3'-5"                                   | 2'-10" | 3'-3"  | 3'-5"                                   | 2'-10" | 3'-3"  |
| 55                                                           | 3'-3"                                   | 2'-8"  | 3'-0"  | 3'-3"                                   | 2'-8"  | 3'-0"  | 3'-3"                                   | 2'-8"  | 3'-0"  |
| 60                                                           | 3'-1"                                   | 2'-6"  | 2'-10" | 3'-1"                                   | 2'-6"  | 2'-10" | 3'-1"                                   | 2'-6"  | 2'-10" |
| 65                                                           | 3'-0"                                   | 2'-5"  | 2'-8"  | 3'-0"                                   | 2'-5"  | 2'-8"  | 3'-0"                                   | 2'-5"  | 2'-8"  |
| 70                                                           | 2'-10"                                  | 2'-3"  | 2'-7"  | 2'-10"                                  | 2'-3"  | 2'-7"  | 2'-10"                                  | 2'-3"  | 2'-7"  |
| 75                                                           | 2'-9"                                   | 2'-2"  | 2'-5"  | 2'-9"                                   | 2'-2"  | 2'-5"  | 2'-9"                                   | 2'-2"  | 2'-5"  |
| 80                                                           | 2'-8"                                   | 2'-1"  | 2'-4"  | 2'-8"                                   | 2'-1"  | 2'-4"  | 2'-8"                                   | 2'-1"  | 2'-4"  |
| 85                                                           | 2'-7"                                   | 2'-0"  | 2'-3"  | 2'-7"                                   | 2'-0"  | 2'-3"  | 2'-7"                                   | 2'-0"  | 2'-3"  |
| 90                                                           | 2'-6"                                   | 1'-11" | 2'-2"  | 2'-6"                                   | 1'-11" | 2'-2"  | 2'-6"                                   | 1'-11" | 2'-2"  |
| 95                                                           | 2'-5"                                   | 1'-10" | 2'-1"  | 2'-5"                                   | 1'-10" | 2'-1"  | 2'-5"                                   | 1'-10" | 2'-1"  |
| 100                                                          | 2'-5"                                   | 1'-9"  | 2'-0"  | 2'-5"                                   | 1'-9"  | 2'-0"  | 2'-5"                                   | 1'-9"  | 2'-0"  |

- 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.
  5. These load tables conform to the 2005 edition of the "Aluminum Design Manual."
  6. Since allowable loads and spans can be affected by actual conditions of use, information in these tables is intended for use only by those qualified to assess these effects.
  7. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.



LOAD TABLES  
.040 ALUMINUM  
ASTM B209  
3003-H14  
39 3/8" COVERAGE

# PENUMWALL PANEL BWS391

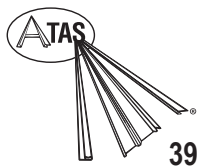


| $F_{TY} = 17 \text{ KSI}$ |                                 |                                 |
|---------------------------|---------------------------------|---------------------------------|
|                           | 0.040                           |                                 |
|                           | Top in<br>Compression           | Bottom in<br>Compression        |
| Yt=                       | 0.4243 in                       | 0.4243 in                       |
| Yb=                       | 0.8257 in                       | 0.8257 in                       |
| St=                       | $0.3235 \text{ in}^3/\text{ft}$ | $0.3235 \text{ in}^3/\text{ft}$ |
| Sb=                       | $0.1662 \text{ in}^3/\text{ft}$ | $0.1662 \text{ in}^3/\text{ft}$ |
| I=                        | $0.1372 \text{ in}^4/\text{ft}$ | $0.1372 \text{ in}^4/\text{ft}$ |
| $M_a =$                   | 0.1167 ft-k/ft                  | 0.1046 ft-k/ft                  |
| $P_{C,int} =$             | 475 lb/ft                       | 475 lb/ft                       |
| $P_{C,end} =$             | 205 lb/ft                       | 205 lb/ft                       |

| 0.040" Aluminum PenumWall/BWS391 Inward (Positive) Pressure |                                         |        |        |                                         |        |        |                                         |        |        |
|-------------------------------------------------------------|-----------------------------------------|--------|--------|-----------------------------------------|--------|--------|-----------------------------------------|--------|--------|
| Load (psf)                                                  | $\Delta \leq L/240$ Deflection Criteria |        |        | $\Delta \leq L/180$ Deflection Criteria |        |        | $\Delta \leq L/120$ Deflection Criteria |        |        |
|                                                             | Span Condition                          |        |        | Span Condition                          |        |        | Span Condition                          |        |        |
|                                                             | Single                                  | Double | Triple | Single                                  | Double | Triple | Single                                  | Double | Triple |
| 10                                                          | *6'-9"                                  | 8'-9"  | *8'-4" | *7'-5"                                  | 8'-9"  | *9'-2" | *8'-6"                                  | 8'-9"  | 9'-10" |
| 15                                                          | *5'-10"                                 | 7'-0"  | *7'-3" | *6'-5"                                  | 7'-0"  | 7'-11" | *7'-5"                                  | 7'-0"  | 7'-11" |
| 20                                                          | *5'-4"                                  | 6'-0"  | *6'-7" | *5'-10"                                 | 6'-0"  | 6'-9"  | *6'-9"                                  | 6'-0"  | 6'-9"  |
| 25                                                          | *4'-11"                                 | 5'-4"  | 5'-11" | *5'-5"                                  | 5'-4"  | 5'-11" | 6'-1"                                   | 5'-4"  | 5'-11" |
| 30                                                          | *4'-8"                                  | 4'-9"  | 5'-4"  | *5'-1"                                  | 4'-9"  | 5'-4"  | 5'-6"                                   | 4'-9"  | 5'-4"  |
| 35                                                          | *4'-5"                                  | 4'-5"  | 4'-11" | *4'-10"                                 | 4'-5"  | 4'-11" | 5'-1"                                   | 4'-5"  | 4'-11" |
| 40                                                          | *4'-3"                                  | 4'-1"  | 4'-7"  | *4'-8"                                  | 4'-1"  | 4'-7"  | 4'-9"                                   | 4'-1"  | 4'-7"  |
| 45                                                          | *4'-1"                                  | 4'-9"  | 4'-2"  | *4'-6"                                  | 4'-9"  | 4'-2"  | 4'-6"                                   | 4'-9"  | 4'-2"  |
| 50                                                          | *3'-11"                                 | 3'-7"  | 4'-0"  | 4'-3"                                   | 3'-7"  | 4'-0"  | 4'-3"                                   | 3'-7"  | 4'-0"  |
| 55                                                          | *3'-9"                                  | 3'-4"  | 3'-9"  | 4'-1"                                   | 3'-4"  | 3'-9"  | 4'-1"                                   | 3'-4"  | 3'-9"  |
| 60                                                          | *3'-8"                                  | 3'-2"  | 3'-7"  | 3'-11"                                  | 3'-2"  | 3'-7"  | 3'-11"                                  | 3'-2"  | 3'-7"  |
| 65                                                          | *3'-7"                                  | 3'-0"  | 3'-5"  | 3'-9"                                   | 3'-0"  | 3'-5"  | 3'-9"                                   | 3'-0"  | 3'-5"  |
| 70                                                          | *3'-6"                                  | 2'-11" | 3'-3"  | 3'-7"                                   | 2'-11" | 3'-3"  | 3'-7"                                   | 2'-11" | 3'-3"  |
| 75                                                          | *3'-5"                                  | 2'-9"  | 3'-1"  | 3'-6"                                   | 2'-9"  | 3'-1"  | 3'-6"                                   | 2'-9"  | 3'-1"  |
| 80                                                          | *3'-4"                                  | 2'-8"  | 3'-0"  | 3'-4"                                   | 2'-8"  | 3'-0"  | 3'-4"                                   | 2'-8"  | 3'-0"  |
| 85                                                          | 3'-3"                                   | 2'-7"  | 2'-10" | 3'-3"                                   | 2'-7"  | 2'-10" | 3'-3"                                   | 2'-7"  | 2'-10" |
| 90                                                          | 3'-2"                                   | 2'-5"  | 2'-9"  | 3'-2"                                   | 2'-5"  | 2'-9"  | 3'-2"                                   | 2'-5"  | 2'-9"  |
| 95                                                          | 3'-1"                                   | 2'-4"  | 2'-8"  | 3'-1"                                   | 2'-4"  | 2'-8"  | 3'-1"                                   | 2'-4"  | 2'-8"  |
| 100                                                         | 3'-0"                                   | 2'-3"  | 2'-7"  | 3'-0"                                   | 2'-3"  | 2'-7"  | 3'-0"                                   | 2'-3"  | 2'-7"  |

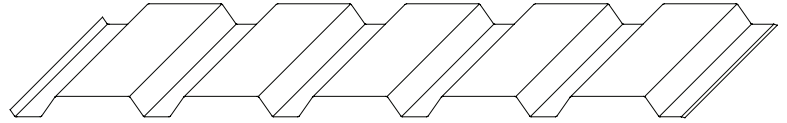
| 0.040" Aluminum PenumWall/BWS391 Outward (Negative) Pressure |                                         |        |        |                                         |        |        |                                         |        |        |
|--------------------------------------------------------------|-----------------------------------------|--------|--------|-----------------------------------------|--------|--------|-----------------------------------------|--------|--------|
| Load (psf)                                                   | $\Delta \leq L/240$ Deflection Criteria |        |        | $\Delta \leq L/180$ Deflection Criteria |        |        | $\Delta \leq L/120$ Deflection Criteria |        |        |
|                                                              | Span Condition                          |        |        | Span Condition                          |        |        | Span Condition                          |        |        |
|                                                              | Single                                  | Double | Triple | Single                                  | Double | Triple | Single                                  | Double | Triple |
| 10                                                           | *6'-9"                                  | *9'-0" | *8'-4" | *7'-5"                                  | 9'-3"  | *9'-2" | *8'-6"                                  | 9'-3"  | 10'-4" |
| 15                                                           | *5'-10"                                 | 7'-5"  | *7'-3" | *6'-5"                                  | 7'-5"  | *8'-0" | 7'-5"                                   | 7'-5"  | 8'-4"  |
| 20                                                           | *5'-4"                                  | 6'-4"  | *6'-7" | *5'-10"                                 | 6'-4"  | 7'-1"  | 6'-5"                                   | 6'-4"  | 7'-1"  |
| 25                                                           | *4'-11"                                 | 5'-7"  | *6'-1" | *5'-5"                                  | 5'-7"  | 6'-3"  | 5'-9"                                   | 5'-7"  | 6'-3"  |
| 30                                                           | *4'-8"                                  | 5'-0"  | 5'-8"  | *5'-1"                                  | 5'-0"  | 5'-8"  | 5'-3"                                   | 5'-0"  | 5'-8"  |
| 35                                                           | *4'-5"                                  | 4'-7"  | 5'-2"  | 4'-10"                                  | 4'-7"  | 5'-2"  | 4'-10"                                  | 4'-7"  | 5'-2"  |
| 40                                                           | *4'-3"                                  | 4'-2"  | 4'-9"  | 4'-6"                                   | 4'-2"  | 4'-9"  | 4'-6"                                   | 4'-2"  | 4'-9"  |
| 45                                                           | *4'-1"                                  | 3'-11" | 4'-5"  | 4'-3"                                   | 3'-11" | 4'-5"  | 4'-3"                                   | 3'-11" | 4'-5"  |
| 50                                                           | *3'-11"                                 | 3'-8"  | 4'-2"  | 4'-1"                                   | 3'-8"  | 4'-2"  | 4'-1"                                   | 3'-8"  | 4'-2"  |
| 55                                                           | *3'-9"                                  | 3'-6"  | 3'-11" | 3'-10"                                  | 3'-6"  | 3'-11" | 3'-10"                                  | 3'-6"  | 3'-11" |
| 60                                                           | 3'-8"                                   | 3'-4"  | 3'-9"  | 3'-8"                                   | 3'-4"  | 3'-9"  | 3'-8"                                   | 3'-4"  | 3'-9"  |
| 65                                                           | 3'-7"                                   | 3'-2"  | 3'-6"  | 3'-7"                                   | 3'-2"  | 3'-6"  | 3'-7"                                   | 3'-2"  | 3'-6"  |
| 70                                                           | 3'-5"                                   | 3'-0"  | 3'-5"  | 3'-5"                                   | 3'-0"  | 3'-5"  | 3'-5"                                   | 3'-0"  | 3'-5"  |
| 75                                                           | 3'-4"                                   | 2'-10" | 3'-3"  | 3'-4"                                   | 2'-10" | 3'-3"  | 3'-4"                                   | 2'-10" | 3'-3"  |
| 80                                                           | 3'-2"                                   | 2'-9"  | 3'-1"  | 3'-2"                                   | 2'-9"  | 3'-1"  | 3'-2"                                   | 2'-9"  | 3'-1"  |
| 85                                                           | 3'-1"                                   | 2'-8"  | 3'-0"  | 3'-1"                                   | 2'-8"  | 3'-0"  | 3'-1"                                   | 2'-8"  | 3'-0"  |
| 90                                                           | 3'-0"                                   | 2'-7"  | 2'-10" | 3'-0"                                   | 2'-7"  | 2'-10" | 3'-0"                                   | 2'-7"  | 2'-10" |
| 95                                                           | 2'-11"                                  | 2'-5"  | 2'-9"  | 2'-11"                                  | 2'-5"  | 2'-9"  | 2'-11"                                  | 2'-5"  | 2'-9"  |
| 100                                                          | 2'-10"                                  | 2'-4"  | 2'-8"  | 2'-10"                                  | 2'-4"  | 2'-8"  | 2'-10"                                  | 2'-4"  | 2'-8"  |

- 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.
  5. These load tables conform to the 2005 edition of the "Aluminum Design Manual."
  6. Since allowable loads and spans can be affected by actual conditions of use, information in these tables is intended for use only by those qualified to assess these effects.
  7. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.



LOAD TABLES  
.050 ALUMINUM  
ASTM B209  
3003-H14  
39 3/8" COVERAGE

# PENUMWALL PANEL BWS391



| $F_{TY} = 17 \text{ KSI}$ |                            |                            |
|---------------------------|----------------------------|----------------------------|
|                           | 0.050                      |                            |
|                           | Top in<br>Compression      | Bottom in<br>Compression   |
| Yt=                       | 0.4243 in                  | 0.4243 in                  |
| Yb=                       | 0.8257 in                  | 0.8257 in                  |
| St=                       | 0.4086 in <sup>3</sup> /ft | 0.4086 in <sup>3</sup> /ft |
| Sb=                       | 0.2100 in <sup>3</sup> /ft | 0.2100 in <sup>3</sup> /ft |
| I=                        | 0.1734 in <sup>4</sup> /ft | 0.1734 in <sup>4</sup> /ft |
| M <sub>a</sub> =          | 0.1677 ft-k/ft             | 0.1428 ft-k/ft             |
| P <sub>c,int</sub> =      | 759 lb/ft                  | 759 lb/ft                  |
| P <sub>c,end</sub> =      | 328 lb/ft                  | 328 lb/ft                  |

| 0.050" Aluminum PenumWall/BWS391 Inward (Positive) Pressure |                                         |        |         |                                         |        |         |                                         |        |         |
|-------------------------------------------------------------|-----------------------------------------|--------|---------|-----------------------------------------|--------|---------|-----------------------------------------|--------|---------|
| Load (psf)                                                  | $\Delta \leq L/240$ Deflection Criteria |        |         | $\Delta \leq L/180$ Deflection Criteria |        |         | $\Delta \leq L/120$ Deflection Criteria |        |         |
|                                                             | Span Condition                          |        |         | Span Condition                          |        |         | Span Condition                          |        |         |
|                                                             | Single                                  | Double | Triple  | Single                                  | Double | Triple  | Single                                  | Double | Triple  |
| 10                                                          | *7'-3"                                  | *9'-9" | *9'-0"  | *8'-0"                                  | 10'-5" | *9'-11" | *9'-2"                                  | 10'-5" | *9'-11" |
| 15                                                          | *6'-4"                                  | 8'-5"  | *7'-10" | *7'-0"                                  | 8'-5"  | *8'-8"  | *8'-0"                                  | 8'-5"  | 9'-5"   |
| 20                                                          | *5'-9"                                  | 7'-3"  | *7'-1"  | *6'-4"                                  | 7'-3"  | *7'-10" | *7'-3"                                  | 7'-3"  | 8'-1"   |
| 25                                                          | *5'-4"                                  | 6'-5"  | *6'-7"  | *5'-11"                                 | 6'-5"  | 7'-2"   | *6'-9"                                  | 6'-5"  | 7'-2"   |
| 30                                                          | *5'-0"                                  | 5'-9"  | *6'-3"  | *5'-6"                                  | 5'-9"  | 6'-6"   | *6'-4"                                  | 5'-9"  | 6'-6"   |
| 35                                                          | *4'-9"                                  | 5'-4"  | *5'-11" | *5'-3"                                  | 5'-4"  | 6'-0"   | *6'-0"                                  | 5'-4"  | 6'-0"   |
| 40                                                          | *4'-7"                                  | 4'-11" | 5'-6"   | *5'-0"                                  | 4'-11" | 5'-6"   | 5'-9"                                   | 4'-11" | 5'-6"   |
| 45                                                          | *4'-5"                                  | 4'-8"  | 5'-2"   | *4'-10"                                 | 4'-8"  | 5'-2"   | 5'-5"                                   | 4'-8"  | 5'-2"   |
| 50                                                          | *4'-3"                                  | 4'-4"  | 4'-11"  | *4'-8"                                  | 4'-4"  | 4'-11"  | 5'-2"                                   | 4'-4"  | 4'-11"  |
| 55                                                          | *4'-1"                                  | 4'-2"  | 4'-8"   | *4'-6"                                  | 4'-2"  | 4'-8"   | 4'-11"                                  | 4'-2"  | 4'-8"   |
| 60                                                          | *4'-0"                                  | 3'-11" | 4'-5"   | *4'-5"                                  | 3'-11" | 4'-5"   | 4'-8"                                   | 3'-11" | 4'-5"   |
| 65                                                          | *3'-10"                                 | 3'-9"  | 4'-3"   | *4'-3"                                  | 3'-9"  | 4'-3"   | 4'-6"                                   | 3'-9"  | 4'-3"   |
| 70                                                          | *3'-9"                                  | 3'-7"  | 4'-0"   | *4'-2"                                  | 3'-7"  | 4'-0"   | 4'-4"                                   | 3'-7"  | 4'-0"   |
| 75                                                          | *3'-8"                                  | 3'-5"  | 3'-10"  | *4'-1"                                  | 3'-5"  | 3'-10"  | 4'-2"                                   | 3'-5"  | 3'-10"  |
| 80                                                          | *3'-7"                                  | 3'-4"  | 3'-9"   | *4'-0"                                  | 3'-4"  | 3'-9"   | 4'-1"                                   | 3'-4"  | 3'-9"   |
| 85                                                          | *3'-6"                                  | 3'-2"  | 3'-7"   | 3'-11"                                  | 3'-2"  | 3'-7"   | 3'-11"                                  | 3'-2"  | 3'-7"   |
| 90                                                          | *3'-6"                                  | 3'-1"  | 3'-6"   | 3'-10"                                  | 3'-1"  | 3'-6"   | 3'-10"                                  | 3'-1"  | 3'-6"   |
| 95                                                          | *3'-5"                                  | 3'-0"  | 3'-4"   | 3'-9"                                   | 3'-0"  | 3'-4"   | 3'-9"                                   | 3'-0"  | 3'-4"   |
| 100                                                         | *3'-4"                                  | 2'-11" | 3'-3"   | 3'-7"                                   | 2'-11" | 3'-3"   | 3'-7"                                   | 2'-11" | 3'-3"   |

| 0.050" Aluminum PenumWall/BWS391 Outward (Negative) Pressure |                                         |        |         |                                         |         |         |                                         |        |         |
|--------------------------------------------------------------|-----------------------------------------|--------|---------|-----------------------------------------|---------|---------|-----------------------------------------|--------|---------|
| Load (psf)                                                   | $\Delta \leq L/240$ Deflection Criteria |        |         | $\Delta \leq L/180$ Deflection Criteria |         |         | $\Delta \leq L/120$ Deflection Criteria |        |         |
|                                                              | Span Condition                          |        |         | Span Condition                          |         |         | Span Condition                          |        |         |
|                                                              | Single                                  | Double | Triple  | Single                                  | Double  | Triple  | Single                                  | Double | Triple  |
| 10                                                           | *7'-3"                                  | *9'-9" | *9'-0"  | *8'-0"                                  | *10'-9" | *9'-11" | *9'-2"                                  | 11'-3" | *11'-4" |
| 15                                                           | *6'-4"                                  | *8'-6" | *7'-10" | *7'-0"                                  | 9'-1"   | *8'-8"  | *8'-0"                                  | 9'-1"  | *9'-11" |
| 20                                                           | *5'-9"                                  | *7'-9" | *7'-1"  | *6'-4"                                  | 7'-9"   | *7'-10" | *7'-3"                                  | 7'-9"  | 8'-8"   |
| 25                                                           | *5'-4"                                  | 6'-11" | *6'-7"  | *5'-11"                                 | 6'-11"  | *7'-3"  | 6'-9"                                   | 6'-11" | 7'-9"   |
| 30                                                           | *5'-0"                                  | 6'-3"  | *6'-3"  | *5'-6"                                  | 6'-3"   | *6'-10" | 6'-2"                                   | 6'-3"  | 7'-0"   |
| 35                                                           | *4'-9"                                  | 5'-9"  | *5'-11" | *5'-3"                                  | 5'-9"   | 6'-5"   | 5'-8"                                   | 5'-9"  | 6'-5"   |
| 40                                                           | *4'-7"                                  | 5'-4"  | *5'-8"  | *5'-0"                                  | 5'-4"   | 5'-11"  | 5'-4"                                   | 5'-4"  | 5'-11"  |
| 45                                                           | *4'-5"                                  | 5'-0"  | *5'-5"  | *4'-10"                                 | 5'-0"   | 5'-7"   | 5'-0"                                   | 5'-0"  | 5'-7"   |
| 50                                                           | *4'-3"                                  | 4'-8"  | *5'-3"  | *4'-8"                                  | 4'-8"   | 5'-3"   | 4'-9"                                   | 4'-8"  | 5'-3"   |
| 55                                                           | *4'-1"                                  | 4'-5"  | 5'-0"   | 4'-6"                                   | 4'-5"   | 5'-0"   | 4'-6"                                   | 4'-5"  | 5'-0"   |
| 60                                                           | *4'-0"                                  | 4'-3"  | 4'-9"   | 4'-4"                                   | 4'-3"   | 4'-9"   | 4'-4"                                   | 4'-3"  | 4'-9"   |
| 65                                                           | *3'-10"                                 | 4'-0"  | 4'-6"   | 4'-2"                                   | 4'-0"   | 4'-6"   | 4'-2"                                   | 4'-0"  | 4'-6"   |
| 70                                                           | *3'-9"                                  | 3'-10" | 4'-4"   | 4'-0"                                   | 3'-10"  | 4'-4"   | 4'-0"                                   | 3'-10" | 4'-4"   |
| 75                                                           | *3'-8"                                  | 3'-8"  | 4'-2"   | 3'-10"                                  | 3'-8"   | 4'-2"   | 3'-10"                                  | 3'-8"  | 4'-2"   |
| 80                                                           | *3'-7"                                  | 3'-7"  | 4'-0"   | 3'-9"                                   | 3'-7"   | 4'-0"   | 3'-9"                                   | 3'-7"  | 4'-0"   |
| 85                                                           | *3'-6"                                  | 3'-5"  | 3'-10"  | 3'-7"                                   | 3'-5"   | 3'-10"  | 3'-7"                                   | 3'-5"  | 3'-10"  |
| 90                                                           | *3'-6"                                  | 3'-4"  | 3'-9"   | 3'-6"                                   | 3'-4"   | 3'-9"   | 3'-6"                                   | 3'-4"  | 3'-9"   |
| 95                                                           | 3'-5"                                   | 3'-2"  | 3'-7"   | 3'-5"                                   | 3'-2"   | 3'-7"   | 3'-5"                                   | 3'-2"  | 3'-7"   |
| 100                                                          | 3'-4"                                   | 3'-1"  | 3'-6"   | 3'-4"                                   | 3'-1"   | 3'-6"   | 3'-4"                                   | 3'-1"  | 3'-6"   |

- 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.
  5. These load tables conform to the 2005 edition of the "Aluminum Design Manual."
  6. Since allowable loads and spans can be affected by actual conditions of use, information in these tables is intended for use only by those qualified to assess these effects.
  7. Load tables are based upon section property analysis. Other factors such as fastener adequacy may apply to allowable span conditions per project.