

Evaluation of ThermalSafe Mineral Wool Wall Panels- 24-DrJ-0065  
December 19, 2024

Mr. Mark J Klos  
Metl-Span, A Nucor Company  
1550 Coraopolis Heights Rd Ste 600  
Moon Township, PA 15108-2973

Re: Evaluation of ThermalSafe Mineral Wool Wall Panels

Dear Mr. Klos:

DrJ Engineering, LLC (DrJ) has been asked to provide a Florida professional engineering accepted engineering practice review with respect to the ThermalSafe Mineral Wool Wall Panels. This work has been performed pursuant to our areas of expertise. The purpose of the DrJ review is to provide an engineering assessment of the conformance of the ThermalSafe Mineral Wool Wall Panels with the 2023 Florida Building Code (FBC).

ThermalSafe Mineral Wool Wall Panels conform to Section 1403, Section 1404, Section 1405 and Section 1406 of the 2023 FBC.

ThermalSafe Mineral Wool Wall Panels and/or their components have been tested to and comply with the following standards:

- ASTM A653- Galvanized coated steel
- ASTM E283- Air barrier
- ASTM E331- Water resistance
- ASTM E330- Wind pressure resistance.
- ASTM E84- Flame Spread and Smoke Developed Indices
- NFPA 285- Vertical and Lateral Flame Propagation
- NFPA 286- Interior Room Corner Burn Testing

ThermalSafe panels have a rigid mineral wool board core where the mineral wool board has been sliced into lamellae and had its fibers aligned perpendicular to two steel facers. The nominal core density is 8.5 pcf and meets the requirements of ASTM E84. The steel facers are made from galvanized coated steel or Galvalume® AZ50 coated steel (minimum 33 ksi) and are 24 ga or 26 ga thick. This thickness meets the weather protection requirements in Section 1405.2 and Section 1406.2.1.1 in the FBC. The available thicknesses of the ThermalSafe panels are 3", 4", 5", 6", 7", and 8". The panels have a modular coverage width of 42" or 43".

Panels must be attached to supports that are a minimum of 16 ga steel (minimum  $F_y = 50$  ksi). Panels shall be fastened through the supports to the framing members using  $\frac{1}{4}$ "-14 Type 3 hex head self-drilling screws and  $\frac{5}{8}$ " diameter neoprene bonded washers. Fasteners must be long enough to penetrate through the support at least 3 threads. For 12 ga or thicker supports a  $\frac{1}{4}$ "-20 or  $\frac{1}{4}$ "-28 Type 5 self-drilling screws may be used instead. Self-tapping screws may be used as well. All fasteners must be corrosion resistant. Fasteners must be placed in one of the standard schedules of TSFP1, TSFP2, TSFPMAX or TSFP3 (See Figure 2). TSFP1, TSFP2, and TSFPMAX schedules maximum outward transverse loads for different spans can be found in **Table 1** through **Table 9**. TSFP3 is a non-exposed fastened schedule and as such the maximum outward transverse loads for different spans can be found in **Table 10** through **Table 12**. The maximum inward transverse loads for different spans of this product can be found in **Table 13** through **Table 15**. These tables conform to the requirements of the FBC.



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**Table 1. Allowable Outward Loads for a Through-Fastened 42" or 43" 26Ga/26Ga ThermalSafe Wall Panels Using 12 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | # of Fasteners | Support Spacing (ft) |     |    |    |    |    |    |    |    |    |
|-----------|------------|----------------|----------------------|-----|----|----|----|----|----|----|----|----|
|           |            |                | 3                    | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 1          | 3              | 97                   | 73  | 58 | 49 | 42 | 36 | 29 | 25 | 17 | 13 |
|           |            | 4              | 97                   | 73  | 58 | 49 | 42 | 36 | 29 | 25 | 17 | 13 |
|           |            | 5              | 97                   | 73  | 58 | 49 | 42 | 36 | 29 | 25 | 17 | 13 |
|           | 2          | 3              | 90                   | 66  | 52 | 42 | 36 | 31 | 27 | 24 | 20 | 17 |
|           |            | 4              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 20 | 17 |
|           |            | 5              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 20 | 17 |
|           | 3+         | 3              | 91                   | 67  | 53 | 44 | 37 | 33 | 29 | 26 | 21 | 17 |
|           |            | 4              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 17 |
|           |            | 5              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 17 |
| 4"        | 1          | 3              | 124                  | 93  | 74 | 62 | 53 | 46 | 41 | 36 | 27 | 20 |
|           |            | 4              | 124                  | 93  | 74 | 62 | 53 | 46 | 41 | 36 | 27 | 20 |
|           |            | 5              | 124                  | 93  | 74 | 62 | 53 | 46 | 41 | 36 | 27 | 20 |
|           | 2          | 3              | 92                   | 67  | 53 | 43 | 36 | 31 | 28 | 25 | 20 | 17 |
|           |            | 4              | 120                  | 88  | 69 | 57 | 48 | 41 | 36 | 32 | 26 | 22 |
|           |            | 5              | 120                  | 88  | 69 | 57 | 48 | 41 | 36 | 32 | 26 | 22 |
|           | 3+         | 3              | 93                   | 69  | 55 | 45 | 38 | 33 | 30 | 27 | 22 | 19 |
|           |            | 4              | 121                  | 89  | 71 | 58 | 50 | 43 | 38 | 34 | 29 | 24 |
|           |            | 5              | 121                  | 89  | 71 | 58 | 50 | 43 | 38 | 34 | 29 | 24 |
| 5"        | 1          | 3              | 132                  | 99  | 79 | 66 | 56 | 49 | 44 | 40 | 33 | 27 |
|           |            | 4              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 27 |
|           |            | 5              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 27 |
|           | 2          | 3              | 95                   | 70  | 55 | 45 | 38 | 33 | 29 | 26 | 21 | 18 |
|           |            | 4              | 127                  | 94  | 74 | 60 | 51 | 44 | 39 | 34 | 28 | 24 |
|           |            | 5              | 139                  | 103 | 81 | 66 | 56 | 48 | 42 | 38 | 31 | 26 |
|           | 3+         | 3              | 96                   | 71  | 56 | 46 | 39 | 34 | 30 | 27 | 23 | 19 |
|           |            | 4              | 127                  | 95  | 75 | 62 | 53 | 46 | 41 | 36 | 30 | 26 |
|           |            | 5              | 140                  | 104 | 82 | 68 | 58 | 50 | 44 | 40 | 33 | 28 |
| 6"        | 1          | 3              | 137                  | 103 | 82 | 69 | 59 | 51 | 46 | 41 | 34 | 29 |
|           |            | 4              | 162                  | 122 | 97 | 81 | 70 | 61 | 54 | 49 | 41 | 32 |
|           |            | 5              | 162                  | 122 | 97 | 81 | 70 | 61 | 54 | 49 | 41 | 32 |
|           | 2          | 3              | 98                   | 72  | 57 | 47 | 39 | 34 | 30 | 27 | 22 | 18 |
|           |            | 4              | 130                  | 96  | 76 | 62 | 53 | 45 | 40 | 35 | 29 | 24 |

**Table 1. Allowable Outward Loads for a Through-Fastened 42" or 43" 26Ga/26Ga ThermalSafe Wall Panels Using 12 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 5              | 159                  | 118 | 93  | 76  | 64  | 55 | 49 | 43 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3+         | 3              | 98                   | 73  | 58  | 48  | 40  | 35 | 31 | 28 | 23 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 4              | 130                  | 97  | 77  | 63  | 54  | 47 | 41 | 37 | 31 | 26 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 5              | 159                  | 118 | 94  | 77  | 66  | 57 | 51 | 45 | 38 | 32 |
| 7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1          | 3              | 142                  | 107 | 85  | 71  | 61  | 53 | 47 | 43 | 36 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 4              | 190                  | 142 | 114 | 95  | 81  | 71 | 63 | 57 | 47 | 41 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 5              | 212                  | 159 | 127 | 106 | 91  | 79 | 71 | 64 | 53 | 42 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2          | 3              | 100                  | 74  | 59  | 49  | 41  | 36 | 32 | 29 | 24 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 4              | 134                  | 99  | 79  | 65  | 55  | 48 | 43 | 38 | 32 | 27 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 5              | 167                  | 124 | 98  | 81  | 69  | 60 | 53 | 48 | 39 | 34 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3+         | 3              | 100                  | 74  | 59  | 49  | 41  | 36 | 32 | 29 | 24 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 4              | 134                  | 99  | 79  | 65  | 55  | 48 | 43 | 38 | 32 | 27 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 5              | 167                  | 124 | 98  | 81  | 69  | 60 | 53 | 48 | 39 | 34 |
| 8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1          | 3              | 147                  | 111 | 88  | 74  | 63  | 55 | 49 | 44 | 37 | 32 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 4              | 196                  | 147 | 118 | 98  | 84  | 74 | 65 | 59 | 49 | 42 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 5              | 246                  | 184 | 147 | 123 | 105 | 92 | 82 | 74 | 61 | 53 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2          | 3              | 102                  | 76  | 60  | 49  | 42  | 36 | 32 | 28 | 23 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 4              | 136                  | 101 | 80  | 66  | 56  | 48 | 42 | 37 | 31 | 26 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 5              | 170                  | 126 | 100 | 82  | 69  | 60 | 53 | 47 | 38 | 32 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3+         | 3              | 102                  | 76  | 60  | 50  | 42  | 37 | 33 | 29 | 24 | 21 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 4              | 136                  | 101 | 80  | 66  | 57  | 49 | 43 | 39 | 32 | 27 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | 5              | 170                  | 127 | 101 | 83  | 71  | 61 | 54 | 49 | 40 | 34 |
| 1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.<br>2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements<br>3. Limit states do not consider the effects of thermal load in combination with wind loads<br>4. Deflection limit of L/240<br>5. Structural capacity of the panel supports is not considered in this table<br>6. Please contact Metl-Span Engineering for additional information and assistance |            |                |                      |     |     |     |     |    |    |    |    |    |

**Table 2. Allowable Outward Loads for a Through-Fastened 42" or 43" 26Ga/26Ga ThermalSafe Wall Panels Using 14 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | # of Fasteners | Support Spacing (ft) |     |    |    |    |    |    |    |    |    |
|-----------|------------|----------------|----------------------|-----|----|----|----|----|----|----|----|----|
|           |            |                | 3                    | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 1          | 3              | 97                   | 73  | 58 | 49 | 42 | 36 | 29 | 25 | 17 | 13 |
|           |            | 4              | 97                   | 73  | 58 | 49 | 42 | 36 | 29 | 25 | 17 | 13 |
|           |            | 5              | 97                   | 73  | 58 | 49 | 42 | 36 | 29 | 25 | 17 | 13 |
|           | 2          | 3              | 90                   | 66  | 52 | 42 | 36 | 31 | 27 | 24 | 20 | 17 |
|           |            | 4              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 20 | 17 |
|           |            | 5              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 20 | 17 |
|           | 3+         | 3              | 91                   | 67  | 53 | 44 | 37 | 33 | 29 | 26 | 21 | 17 |
|           |            | 4              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 17 |
|           |            | 5              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 17 |
| 4"        | 1          | 3              | 124                  | 93  | 74 | 62 | 53 | 46 | 41 | 36 | 27 | 20 |
|           |            | 4              | 124                  | 93  | 74 | 62 | 53 | 46 | 41 | 36 | 27 | 20 |
|           |            | 5              | 124                  | 93  | 74 | 62 | 53 | 46 | 41 | 36 | 27 | 20 |
|           | 2          | 3              | 92                   | 67  | 53 | 43 | 36 | 31 | 28 | 25 | 20 | 17 |
|           |            | 4              | 120                  | 88  | 69 | 57 | 48 | 41 | 36 | 32 | 26 | 22 |
|           |            | 5              | 120                  | 88  | 69 | 57 | 48 | 41 | 36 | 32 | 26 | 22 |
|           | 3+         | 3              | 93                   | 69  | 55 | 45 | 38 | 33 | 30 | 27 | 22 | 19 |
|           |            | 4              | 121                  | 89  | 71 | 58 | 50 | 43 | 38 | 34 | 29 | 24 |
|           |            | 5              | 121                  | 89  | 71 | 58 | 50 | 43 | 38 | 34 | 29 | 24 |
| 5"        | 1          | 3              | 132                  | 99  | 79 | 66 | 56 | 49 | 44 | 40 | 33 | 27 |
|           |            | 4              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 27 |
|           |            | 5              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 27 |
|           | 2          | 3              | 94                   | 69  | 55 | 45 | 38 | 33 | 29 | 25 | 21 | 18 |
|           |            | 4              | 125                  | 92  | 73 | 60 | 50 | 43 | 38 | 34 | 28 | 23 |
|           |            | 5              | 139                  | 103 | 81 | 66 | 56 | 48 | 42 | 38 | 31 | 26 |
|           | 3+         | 3              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 19 |
|           |            | 4              | 126                  | 93  | 74 | 61 | 52 | 45 | 40 | 36 | 30 | 25 |
|           |            | 5              | 140                  | 104 | 82 | 68 | 58 | 50 | 44 | 40 | 33 | 28 |
| 6"        | 1          | 3              | 137                  | 103 | 82 | 69 | 59 | 51 | 46 | 41 | 34 | 29 |
|           |            | 4              | 162                  | 122 | 97 | 81 | 70 | 61 | 54 | 49 | 41 | 32 |
|           |            | 5              | 162                  | 122 | 97 | 81 | 70 | 61 | 54 | 49 | 41 | 32 |
|           | 2          | 3              | 94                   | 70  | 55 | 45 | 38 | 33 | 29 | 26 | 21 | 18 |
|           |            | 4              | 126                  | 93  | 73 | 60 | 51 | 44 | 38 | 34 | 28 | 24 |

**Table 2. Allowable Outward Loads for a Through-Fastened 42" or 43" 26Ga/26Ga ThermalSafe Wall Panels Using 14 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 157                  | 116 | 92  | 75  | 63  | 55 | 48 | 43 | 35 | 29 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 94                   | 70  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 126                  | 94  | 74  | 61  | 52  | 45 | 40 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 157                  | 117 | 93  | 77  | 65  | 57 | 50 | 45 | 37 | 32 |
| 7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 142                  | 107 | 85  | 71  | 61  | 53 | 47 | 43 | 36 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 190                  | 142 | 114 | 95  | 81  | 71 | 63 | 57 | 47 | 41 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 212                  | 159 | 127 | 106 | 91  | 79 | 71 | 64 | 53 | 42 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 95                   | 70  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 126                  | 94  | 74  | 61  | 52  | 45 | 40 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 117 | 93  | 77  | 65  | 57 | 50 | 45 | 37 | 32 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 95                   | 70  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 126                  | 94  | 74  | 61  | 52  | 45 | 40 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 117 | 93  | 77  | 65  | 57 | 50 | 45 | 37 | 32 |
| 8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 147                  | 111 | 88  | 74  | 63  | 55 | 49 | 44 | 37 | 32 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 196                  | 147 | 118 | 98  | 84  | 74 | 65 | 59 | 49 | 42 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 246                  | 184 | 147 | 123 | 105 | 92 | 82 | 74 | 61 | 53 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 95                   | 70  | 56  | 46  | 39  | 33 | 29 | 26 | 21 | 18 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 126                  | 94  | 74  | 61  | 51  | 44 | 39 | 35 | 28 | 24 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 117 | 93  | 76  | 64  | 56 | 49 | 43 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 95                   | 71  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 126                  | 94  | 75  | 62  | 52  | 46 | 40 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 118 | 93  | 77  | 66  | 57 | 50 | 45 | 37 | 32 |
| <div>1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.</div> <div>2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements</div> <div>3. Limit states do not consider the effects of thermal load in combination with wind loads</div> <div>4. Deflection limit of L/240</div> <div>5. Structural capacity of the panel supports is not considered in this table</div> <div>6. Please contact Metl-Span Engineering for additional information and assistance</div> |            |                |                      |     |     |     |     |    |    |    |    |    |

**Table 3. Allowable Outward Loads for a Through-Fastened 42" or 43" 26Ga/26Ga ThermalSafe Wall Panels Using 16 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | # of Fasteners | Support Spacing (ft) |     |    |    |    |    |    |    |    |    |
|-----------|------------|----------------|----------------------|-----|----|----|----|----|----|----|----|----|
|           |            |                | 3                    | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 1          | 3              | 97                   | 73  | 58 | 49 | 42 | 36 | 29 | 25 | 17 | 13 |
|           |            | 4              | 97                   | 73  | 58 | 49 | 42 | 36 | 29 | 25 | 17 | 13 |
|           |            | 5              | 97                   | 73  | 58 | 49 | 42 | 36 | 29 | 25 | 17 | 13 |
|           | 2          | 3              | 74                   | 54  | 43 | 35 | 29 | 25 | 22 | 20 | 16 | 14 |
|           |            | 4              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 20 | 17 |
|           |            | 5              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 20 | 17 |
|           | 3+         | 3              | 75                   | 55  | 44 | 36 | 31 | 27 | 24 | 21 | 18 | 15 |
|           |            | 4              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 17 |
|           |            | 5              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 17 |
| 4"        | 1          | 3              | 124                  | 93  | 74 | 62 | 53 | 46 | 41 | 36 | 27 | 20 |
|           |            | 4              | 124                  | 93  | 74 | 62 | 53 | 46 | 41 | 36 | 27 | 20 |
|           |            | 5              | 124                  | 93  | 74 | 62 | 53 | 46 | 41 | 36 | 27 | 20 |
|           | 2          | 3              | 75                   | 55  | 43 | 35 | 30 | 26 | 23 | 20 | 16 | 14 |
|           |            | 4              | 100                  | 73  | 58 | 47 | 40 | 34 | 30 | 27 | 22 | 19 |
|           |            | 5              | 120                  | 88  | 69 | 57 | 48 | 41 | 36 | 32 | 26 | 22 |
|           | 3+         | 3              | 75                   | 56  | 44 | 36 | 31 | 27 | 24 | 21 | 18 | 15 |
|           |            | 4              | 100                  | 74  | 59 | 49 | 41 | 36 | 32 | 29 | 24 | 20 |
|           |            | 5              | 121                  | 89  | 71 | 58 | 50 | 43 | 38 | 34 | 29 | 24 |
| 5"        | 1          | 3              | 132                  | 99  | 79 | 66 | 56 | 49 | 44 | 40 | 33 | 27 |
|           |            | 4              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 27 |
|           |            | 5              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 27 |
|           | 2          | 3              | 75                   | 55  | 44 | 36 | 30 | 26 | 23 | 20 | 17 | 14 |
|           |            | 4              | 100                  | 74  | 58 | 48 | 40 | 35 | 30 | 27 | 22 | 19 |
|           |            | 5              | 125                  | 92  | 73 | 60 | 50 | 43 | 38 | 34 | 28 | 23 |
|           | 3+         | 3              | 75                   | 56  | 44 | 37 | 31 | 27 | 24 | 21 | 18 | 15 |
|           |            | 4              | 101                  | 75  | 59 | 49 | 42 | 36 | 32 | 29 | 24 | 20 |
|           |            | 5              | 126                  | 93  | 74 | 61 | 52 | 45 | 40 | 36 | 30 | 25 |
| 6"        | 1          | 3              | 137                  | 103 | 82 | 69 | 59 | 51 | 46 | 41 | 34 | 29 |
|           |            | 4              | 162                  | 122 | 97 | 81 | 70 | 61 | 54 | 49 | 41 | 32 |
|           |            | 5              | 162                  | 122 | 97 | 81 | 70 | 61 | 54 | 49 | 41 | 32 |
|           | 2          | 3              | 75                   | 56  | 44 | 36 | 30 | 26 | 23 | 21 | 17 | 14 |
|           |            | 4              | 101                  | 74  | 59 | 48 | 41 | 35 | 31 | 27 | 22 | 19 |

**Table 3. Allowable Outward Loads for a Through-Fastened 42" or 43" 26Ga/26Ga ThermalSafe Wall Panels Using 16 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 126                  | 93  | 73  | 60  | 51  | 44 | 38 | 34 | 28 | 24 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 76                   | 56  | 44  | 37  | 31  | 27 | 24 | 22 | 18 | 15 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 101                  | 75  | 59  | 49  | 42  | 36 | 32 | 29 | 24 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 126                  | 94  | 74  | 61  | 52  | 45 | 40 | 36 | 30 | 25 |
| 7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 142                  | 107 | 85  | 71  | 61  | 53 | 47 | 43 | 36 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 190                  | 142 | 114 | 95  | 81  | 71 | 63 | 57 | 47 | 41 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 212                  | 159 | 127 | 106 | 91  | 79 | 71 | 64 | 53 | 42 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 76                   | 56  | 45  | 37  | 31  | 27 | 24 | 22 | 18 | 15 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 101                  | 75  | 59  | 49  | 42  | 36 | 32 | 29 | 24 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 126                  | 94  | 74  | 61  | 52  | 45 | 40 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 76                   | 56  | 45  | 37  | 31  | 27 | 24 | 22 | 18 | 15 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 101                  | 75  | 59  | 49  | 42  | 36 | 32 | 29 | 24 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 126                  | 94  | 74  | 61  | 52  | 45 | 40 | 36 | 30 | 25 |
| 8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 147                  | 111 | 88  | 74  | 63  | 55 | 49 | 44 | 37 | 32 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 196                  | 147 | 118 | 98  | 84  | 74 | 65 | 59 | 49 | 42 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 246                  | 184 | 147 | 123 | 105 | 92 | 82 | 74 | 61 | 53 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 76                   | 56  | 44  | 37  | 31  | 27 | 23 | 21 | 17 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 101                  | 75  | 59  | 49  | 41  | 36 | 31 | 28 | 23 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 126                  | 94  | 74  | 61  | 51  | 44 | 39 | 35 | 28 | 24 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 76                   | 56  | 45  | 37  | 31  | 27 | 24 | 22 | 18 | 15 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 101                  | 75  | 60  | 49  | 42  | 36 | 32 | 29 | 24 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 126                  | 94  | 75  | 62  | 52  | 46 | 40 | 36 | 30 | 25 |
| <div>1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.</div> <div>2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements</div> <div>3. Limit states do not consider the effects of thermal load in combination with wind loads</div> <div>4. Deflection limit of L/240</div> <div>5. Structural capacity of the panel supports is not considered in this table</div> <div>6. Please contact Metl-Span Engineering for additional information and assistance</div> |            |                |                      |     |     |     |     |    |    |    |    |    |

**Table 4. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/24Ga ThermalSafe Wall Panels Using 12 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |    |    |    |    |    |    |
|-----------|------------|----------------|----------------------|-----|-----|-----|----|----|----|----|----|----|
|           |            |                | 3                    | 4   | 5   | 6   | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 1          | 3              | 99                   | 74  | 60  | 50  | 43 | 37 | 32 | 27 | 20 | 15 |
|           |            | 4              | 99                   | 74  | 60  | 50  | 43 | 37 | 32 | 27 | 20 | 15 |
|           |            | 5              | 99                   | 74  | 60  | 50  | 43 | 37 | 32 | 27 | 20 | 15 |
|           | 2          | 3              | 96                   | 70  | 55  | 45  | 38 | 33 | 29 | 26 | 21 | 18 |
|           |            | 4              | 96                   | 71  | 56  | 46  | 38 | 33 | 29 | 26 | 21 | 18 |
|           |            | 5              | 96                   | 71  | 56  | 46  | 38 | 33 | 29 | 26 | 21 | 18 |
|           | 3+         | 3              | 96                   | 71  | 56  | 47  | 40 | 34 | 31 | 27 | 23 | 19 |
|           |            | 4              | 97                   | 72  | 57  | 47  | 40 | 35 | 31 | 28 | 23 | 19 |
|           |            | 5              | 97                   | 72  | 57  | 47  | 40 | 35 | 31 | 28 | 23 | 19 |
| 4"        | 1          | 3              | 136                  | 102 | 82  | 68  | 58 | 51 | 45 | 40 | 30 | 23 |
|           |            | 4              | 136                  | 102 | 82  | 68  | 58 | 51 | 45 | 40 | 30 | 23 |
|           |            | 5              | 136                  | 102 | 82  | 68  | 58 | 51 | 45 | 40 | 30 | 23 |
|           | 2          | 3              | 102                  | 75  | 59  | 48  | 41 | 35 | 31 | 27 | 22 | 19 |
|           |            | 4              | 133                  | 98  | 77  | 63  | 53 | 46 | 40 | 36 | 29 | 25 |
|           |            | 5              | 133                  | 98  | 77  | 63  | 53 | 46 | 40 | 36 | 29 | 25 |
|           | 3+         | 3              | 103                  | 76  | 61  | 50  | 43 | 37 | 33 | 29 | 24 | 21 |
|           |            | 4              | 133                  | 99  | 78  | 65  | 55 | 48 | 42 | 38 | 31 | 27 |
|           |            | 5              | 133                  | 99  | 78  | 65  | 55 | 48 | 42 | 38 | 31 | 27 |
| 5"        | 1          | 3              | 138                  | 103 | 83  | 69  | 59 | 52 | 46 | 41 | 34 | 30 |
|           |            | 4              | 174                  | 131 | 105 | 87  | 75 | 65 | 58 | 52 | 40 | 31 |
|           |            | 5              | 174                  | 131 | 105 | 87  | 75 | 65 | 58 | 52 | 40 | 31 |
|           | 2          | 3              | 110                  | 81  | 64  | 53  | 44 | 38 | 34 | 30 | 24 | 21 |
|           |            | 4              | 146                  | 108 | 85  | 70  | 59 | 51 | 45 | 40 | 33 | 28 |
|           |            | 5              | 171                  | 127 | 100 | 82  | 69 | 60 | 52 | 47 | 38 | 32 |
|           | 3+         | 3              | 110                  | 82  | 65  | 54  | 46 | 40 | 35 | 31 | 26 | 22 |
|           |            | 4              | 147                  | 109 | 86  | 71  | 61 | 53 | 47 | 42 | 35 | 30 |
|           |            | 5              | 171                  | 127 | 101 | 83  | 71 | 62 | 55 | 49 | 40 | 35 |
| 6"        | 1          | 3              | 139                  | 104 | 83  | 69  | 60 | 52 | 46 | 42 | 35 | 30 |
|           |            | 4              | 185                  | 139 | 111 | 93  | 79 | 69 | 62 | 56 | 46 | 39 |
|           |            | 5              | 219                  | 164 | 131 | 110 | 94 | 82 | 73 | 65 | 50 | 39 |
|           | 2          | 3              | 116                  | 86  | 68  | 56  | 47 | 41 | 36 | 32 | 26 | 22 |
|           |            | 4              | 155                  | 115 | 91  | 75  | 63 | 55 | 48 | 43 | 35 | 29 |

**Table 4. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/24Ga ThermalSafe Wall Panels Using 12 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 194                  | 144 | 114 | 94  | 79  | 68 | 60 | 53 | 44 | 37 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 117                  | 87  | 69  | 57  | 48  | 42 | 37 | 33 | 28 | 23 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 155                  | 116 | 92  | 76  | 64  | 56 | 50 | 44 | 37 | 31 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 194                  | 144 | 115 | 95  | 81  | 70 | 62 | 56 | 46 | 39 |
| 7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 141                  | 105 | 84  | 70  | 60  | 53 | 47 | 42 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 188                  | 141 | 113 | 94  | 80  | 70 | 63 | 56 | 47 | 40 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 234                  | 175 | 140 | 117 | 100 | 88 | 78 | 70 | 58 | 48 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 123                  | 92  | 73  | 60  | 51  | 45 | 39 | 35 | 29 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 165                  | 122 | 97  | 80  | 68  | 59 | 53 | 47 | 39 | 33 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 206                  | 153 | 121 | 100 | 85  | 74 | 66 | 59 | 49 | 41 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 123                  | 92  | 73  | 60  | 51  | 45 | 39 | 35 | 29 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 165                  | 122 | 97  | 80  | 68  | 59 | 53 | 47 | 39 | 33 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 206                  | 153 | 121 | 100 | 85  | 74 | 66 | 59 | 49 | 41 |
| 8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 142                  | 107 | 85  | 71  | 61  | 53 | 47 | 43 | 36 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 190                  | 142 | 114 | 95  | 81  | 71 | 63 | 57 | 47 | 41 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 237                  | 178 | 142 | 119 | 102 | 89 | 79 | 71 | 59 | 51 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 130                  | 97  | 77  | 63  | 53  | 46 | 41 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 173                  | 129 | 102 | 84  | 71  | 62 | 54 | 48 | 39 | 33 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 217                  | 161 | 128 | 105 | 89  | 77 | 68 | 60 | 49 | 42 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 130                  | 97  | 77  | 64  | 54  | 47 | 42 | 37 | 31 | 26 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 174                  | 129 | 103 | 85  | 72  | 63 | 56 | 50 | 41 | 35 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 217                  | 162 | 128 | 106 | 90  | 79 | 69 | 62 | 51 | 44 |
| <div>1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.</div> <div>2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements</div> <div>3. Limit states do not consider the effects of thermal load in combination with wind loads</div> <div>4. Deflection limit of L/240</div> <div>5. Structural capacity of the panel supports is not considered in this table</div> <div>6. Please contact Metl-Span Engineering for additional information and assistance</div> |            |                |                      |     |     |     |     |    |    |    |    |    |

**Table 5. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/24Ga ThermalSafe Wall Panels Using 14 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |    |    |    |    |    |    |
|-----------|------------|----------------|----------------------|-----|-----|-----|----|----|----|----|----|----|
|           |            |                | 3                    | 4   | 5   | 6   | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 1          | 3              | 99                   | 74  | 60  | 50  | 43 | 37 | 32 | 27 | 20 | 15 |
|           |            | 4              | 99                   | 74  | 60  | 50  | 43 | 37 | 32 | 27 | 20 | 15 |
|           |            | 5              | 99                   | 74  | 60  | 50  | 43 | 37 | 32 | 27 | 20 | 15 |
|           | 2          | 3              | 93                   | 69  | 54  | 44  | 37 | 32 | 28 | 25 | 21 | 17 |
|           |            | 4              | 96                   | 71  | 56  | 46  | 38 | 33 | 29 | 26 | 21 | 18 |
|           |            | 5              | 96                   | 71  | 56  | 46  | 38 | 33 | 29 | 26 | 21 | 18 |
|           | 3+         | 3              | 94                   | 70  | 55  | 45  | 39 | 34 | 30 | 27 | 22 | 19 |
|           |            | 4              | 97                   | 72  | 57  | 47  | 40 | 35 | 31 | 28 | 23 | 19 |
|           |            | 5              | 97                   | 72  | 57  | 47  | 40 | 35 | 31 | 28 | 23 | 19 |
| 4"        | 1          | 3              | 136                  | 102 | 82  | 68  | 58 | 51 | 45 | 40 | 30 | 23 |
|           |            | 4              | 136                  | 102 | 82  | 68  | 58 | 51 | 45 | 40 | 30 | 23 |
|           |            | 5              | 136                  | 102 | 82  | 68  | 58 | 51 | 45 | 40 | 30 | 23 |
|           | 2          | 3              | 94                   | 69  | 55  | 45  | 38 | 33 | 29 | 25 | 21 | 18 |
|           |            | 4              | 125                  | 93  | 73  | 60  | 50 | 44 | 38 | 34 | 28 | 23 |
|           |            | 5              | 133                  | 98  | 77  | 63  | 53 | 46 | 40 | 36 | 29 | 25 |
|           | 3+         | 3              | 94                   | 70  | 55  | 46  | 39 | 34 | 30 | 27 | 22 | 19 |
|           |            | 4              | 126                  | 93  | 74  | 61  | 52 | 45 | 40 | 36 | 30 | 25 |
|           |            | 5              | 133                  | 99  | 78  | 65  | 55 | 48 | 42 | 38 | 31 | 27 |
| 5"        | 1          | 3              | 138                  | 103 | 83  | 69  | 59 | 52 | 46 | 41 | 34 | 30 |
|           |            | 4              | 174                  | 131 | 105 | 87  | 75 | 65 | 58 | 52 | 40 | 31 |
|           |            | 5              | 174                  | 131 | 105 | 87  | 75 | 65 | 58 | 52 | 40 | 31 |
|           | 2          | 3              | 94                   | 70  | 55  | 45  | 38 | 33 | 29 | 26 | 21 | 18 |
|           |            | 4              | 126                  | 93  | 74  | 60  | 51 | 44 | 39 | 34 | 28 | 24 |
|           |            | 5              | 157                  | 117 | 92  | 76  | 64 | 55 | 48 | 43 | 35 | 30 |
|           | 3+         | 3              | 95                   | 70  | 56  | 46  | 39 | 34 | 30 | 27 | 22 | 19 |
|           |            | 4              | 126                  | 94  | 74  | 61  | 52 | 45 | 40 | 36 | 30 | 25 |
|           |            | 5              | 158                  | 117 | 93  | 77  | 65 | 57 | 50 | 45 | 37 | 32 |
| 6"        | 1          | 3              | 139                  | 104 | 83  | 69  | 60 | 52 | 46 | 42 | 35 | 30 |
|           |            | 4              | 185                  | 139 | 111 | 93  | 79 | 69 | 62 | 56 | 46 | 39 |
|           |            | 5              | 219                  | 164 | 131 | 110 | 94 | 82 | 73 | 65 | 50 | 39 |
|           | 2          | 3              | 95                   | 70  | 56  | 46  | 39 | 33 | 29 | 26 | 21 | 18 |
|           |            | 4              | 126                  | 94  | 74  | 61  | 51 | 44 | 39 | 35 | 28 | 24 |

**Table 5. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/24Ga ThermalSafe Wall Panels Using 14 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 117 | 93  | 76  | 64  | 56 | 49 | 43 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 95                   | 71  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 126                  | 94  | 75  | 62  | 52  | 46 | 40 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 118 | 93  | 77  | 66  | 57 | 50 | 45 | 37 | 32 |
| 7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 141                  | 105 | 84  | 70  | 60  | 53 | 47 | 42 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 188                  | 141 | 113 | 94  | 80  | 70 | 63 | 56 | 47 | 40 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 234                  | 175 | 140 | 117 | 100 | 88 | 78 | 70 | 58 | 48 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 95                   | 71  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 127                  | 94  | 75  | 62  | 53  | 46 | 40 | 36 | 30 | 26 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 118 | 94  | 77  | 66  | 57 | 51 | 45 | 37 | 32 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 95                   | 71  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 127                  | 94  | 75  | 62  | 53  | 46 | 40 | 36 | 30 | 26 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 118 | 94  | 77  | 66  | 57 | 51 | 45 | 37 | 32 |
| 8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 142                  | 107 | 85  | 71  | 61  | 53 | 47 | 43 | 36 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 190                  | 142 | 114 | 95  | 81  | 71 | 63 | 57 | 47 | 41 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 237                  | 178 | 142 | 119 | 102 | 89 | 79 | 71 | 59 | 51 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 95                   | 71  | 56  | 46  | 39  | 34 | 30 | 26 | 22 | 18 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 127                  | 94  | 75  | 62  | 52  | 45 | 40 | 35 | 29 | 24 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 118 | 93  | 77  | 65  | 56 | 50 | 44 | 36 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 95                   | 71  | 56  | 47  | 40  | 34 | 30 | 27 | 23 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 127                  | 94  | 75  | 62  | 53  | 46 | 41 | 36 | 30 | 26 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 159                  | 118 | 94  | 78  | 66  | 57 | 51 | 45 | 38 | 32 |
| <div>1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.</div> <div>2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements</div> <div>3. Limit states do not consider the effects of thermal load in combination with wind loads</div> <div>4. Deflection limit of L/240</div> <div>5. Structural capacity of the panel supports is not considered in this table</div> <div>6. Please contact Metl-Span Engineering for additional information and assistance</div> |            |                |                      |     |     |     |     |    |    |    |    |    |

**Table 6. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/24Ga ThermalSafe Wall Panels Using 16 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |    |    |    |    |    |    |
|-----------|------------|----------------|----------------------|-----|-----|-----|----|----|----|----|----|----|
|           |            |                | 3                    | 4   | 5   | 6   | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 1          | 3              | 99                   | 74  | 60  | 50  | 43 | 37 | 32 | 27 | 20 | 15 |
|           |            | 4              | 99                   | 74  | 60  | 50  | 43 | 37 | 32 | 27 | 20 | 15 |
|           |            | 5              | 99                   | 74  | 60  | 50  | 43 | 37 | 32 | 27 | 20 | 15 |
|           | 2          | 3              | 75                   | 55  | 43  | 35  | 30 | 26 | 23 | 20 | 16 | 14 |
|           |            | 4              | 96                   | 71  | 56  | 46  | 38 | 33 | 29 | 26 | 21 | 18 |
|           |            | 5              | 96                   | 71  | 56  | 46  | 38 | 33 | 29 | 26 | 21 | 18 |
|           | 3+         | 3              | 75                   | 56  | 44  | 36  | 31 | 27 | 24 | 21 | 18 | 15 |
|           |            | 4              | 97                   | 72  | 57  | 47  | 40 | 35 | 31 | 28 | 23 | 19 |
|           |            | 5              | 97                   | 72  | 57  | 47  | 40 | 35 | 31 | 28 | 23 | 19 |
| 4"        | 1          | 3              | 136                  | 102 | 82  | 68  | 58 | 51 | 45 | 40 | 30 | 23 |
|           |            | 4              | 136                  | 102 | 82  | 68  | 58 | 51 | 45 | 40 | 30 | 23 |
|           |            | 5              | 136                  | 102 | 82  | 68  | 58 | 51 | 45 | 40 | 30 | 23 |
|           | 2          | 3              | 75                   | 56  | 44  | 36  | 30 | 26 | 23 | 20 | 17 | 14 |
|           |            | 4              | 100                  | 74  | 58  | 48  | 40 | 35 | 31 | 27 | 22 | 19 |
|           |            | 5              | 125                  | 93  | 73  | 60  | 50 | 44 | 38 | 34 | 28 | 23 |
|           | 3+         | 3              | 75                   | 56  | 44  | 37  | 31 | 27 | 24 | 22 | 18 | 15 |
|           |            | 4              | 101                  | 75  | 59  | 49  | 42 | 36 | 32 | 29 | 24 | 20 |
|           |            | 5              | 126                  | 93  | 74  | 61  | 52 | 45 | 40 | 36 | 30 | 25 |
| 5"        | 1          | 3              | 138                  | 103 | 83  | 69  | 59 | 52 | 46 | 41 | 34 | 30 |
|           |            | 4              | 174                  | 131 | 105 | 87  | 75 | 65 | 58 | 52 | 40 | 31 |
|           |            | 5              | 174                  | 131 | 105 | 87  | 75 | 65 | 58 | 52 | 40 | 31 |
|           | 2          | 3              | 76                   | 56  | 44  | 36  | 31 | 26 | 23 | 21 | 17 | 14 |
|           |            | 4              | 101                  | 75  | 59  | 48  | 41 | 35 | 31 | 27 | 22 | 19 |
|           |            | 5              | 126                  | 93  | 74  | 60  | 51 | 44 | 39 | 34 | 28 | 24 |
|           | 3+         | 3              | 76                   | 56  | 45  | 37  | 31 | 27 | 24 | 22 | 18 | 15 |
|           |            | 4              | 101                  | 75  | 59  | 49  | 42 | 36 | 32 | 29 | 24 | 20 |
|           |            | 5              | 126                  | 94  | 74  | 61  | 52 | 45 | 40 | 36 | 30 | 25 |
| 6"        | 1          | 3              | 139                  | 104 | 83  | 69  | 60 | 52 | 46 | 42 | 35 | 30 |
|           |            | 4              | 185                  | 139 | 111 | 93  | 79 | 69 | 62 | 56 | 46 | 39 |
|           |            | 5              | 219                  | 164 | 131 | 110 | 94 | 82 | 73 | 65 | 50 | 39 |
|           | 2          | 3              | 76                   | 56  | 44  | 37  | 31 | 27 | 23 | 21 | 17 | 14 |
|           |            | 4              | 101                  | 75  | 59  | 49  | 41 | 36 | 31 | 28 | 23 | 19 |

**Table 6. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/24Ga ThermalSafe Wall Panels Using 16 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|-----------|------------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|           |            |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
|           | 3+         | 5              | 126                  | 94  | 74  | 61  | 51  | 44 | 39 | 35 | 28 | 24 |
|           |            | 3              | 76                   | 56  | 45  | 37  | 31  | 27 | 24 | 22 | 18 | 15 |
|           |            | 4              | 101                  | 75  | 60  | 49  | 42  | 36 | 32 | 29 | 24 | 20 |
|           |            | 5              | 126                  | 94  | 75  | 62  | 52  | 46 | 40 | 36 | 30 | 25 |
| 7"        | 1          | 3              | 141                  | 105 | 84  | 70  | 60  | 53 | 47 | 42 | 35 | 30 |
|           |            | 4              | 188                  | 141 | 113 | 94  | 80  | 70 | 63 | 56 | 47 | 40 |
|           |            | 5              | 234                  | 175 | 140 | 117 | 100 | 88 | 78 | 70 | 58 | 48 |
|           | 2          | 3              | 76                   | 57  | 45  | 37  | 32  | 27 | 24 | 22 | 18 | 15 |
|           |            | 4              | 101                  | 75  | 60  | 49  | 42  | 37 | 32 | 29 | 24 | 20 |
|           |            | 5              | 127                  | 94  | 75  | 62  | 53  | 46 | 40 | 36 | 30 | 26 |
|           | 3+         | 3              | 76                   | 57  | 45  | 37  | 32  | 27 | 24 | 22 | 18 | 15 |
|           |            | 4              | 101                  | 75  | 60  | 49  | 42  | 37 | 32 | 29 | 24 | 20 |
|           |            | 5              | 127                  | 94  | 75  | 62  | 53  | 46 | 40 | 36 | 30 | 26 |
| 8"        | 1          | 3              | 142                  | 107 | 85  | 71  | 61  | 53 | 47 | 43 | 36 | 30 |
|           |            | 4              | 190                  | 142 | 114 | 95  | 81  | 71 | 63 | 57 | 47 | 41 |
|           |            | 5              | 237                  | 178 | 142 | 119 | 102 | 89 | 79 | 71 | 59 | 51 |
|           | 2          | 3              | 76                   | 57  | 45  | 37  | 31  | 27 | 24 | 21 | 17 | 15 |
|           |            | 4              | 101                  | 75  | 60  | 49  | 42  | 36 | 32 | 28 | 23 | 19 |
|           |            | 5              | 127                  | 94  | 75  | 62  | 52  | 45 | 40 | 35 | 29 | 24 |
|           | 3+         | 3              | 76                   | 57  | 45  | 37  | 32  | 28 | 24 | 22 | 18 | 15 |
|           |            | 4              | 102                  | 76  | 60  | 50  | 42  | 37 | 32 | 29 | 24 | 20 |
|           |            | 5              | 127                  | 94  | 75  | 62  | 53  | 46 | 41 | 36 | 30 | 26 |

1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.  
2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements  
3. Limit states do not consider the effects of thermal load in combination with wind loads  
4. Deflection limit of L/240  
5. Structural capacity of the panel supports is not considered in this table  
6. Please contact Metl-Scan Engineering for additional information and assistance

**Table 7. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/26Ga ThermalSafe Wall Panels Using 12 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | # of Fasteners | Support Spacing (ft) |     |    |    |    |    |    |    |    |    |
|-----------|------------|----------------|----------------------|-----|----|----|----|----|----|----|----|----|
|           |            |                | 3                    | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 1          | 3              | 97                   | 73  | 58 | 49 | 42 | 36 | 31 | 26 | 19 | 14 |
|           |            | 4              | 97                   | 73  | 58 | 49 | 42 | 36 | 31 | 26 | 19 | 14 |
|           |            | 5              | 97                   | 73  | 58 | 49 | 42 | 36 | 31 | 26 | 19 | 14 |
|           | 2          | 3              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 21 | 17 |
|           |            | 4              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 21 | 17 |
|           |            | 5              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 21 | 17 |
|           | 3+         | 3              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 18 |
|           |            | 4              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 18 |
|           |            | 5              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 18 |
| 4"        | 1          | 3              | 123                  | 93  | 74 | 62 | 53 | 46 | 41 | 37 | 28 | 21 |
|           |            | 4              | 123                  | 93  | 74 | 62 | 53 | 46 | 41 | 37 | 28 | 21 |
|           |            | 5              | 123                  | 93  | 74 | 62 | 53 | 46 | 41 | 37 | 28 | 21 |
|           | 2          | 3              | 102                  | 75  | 59 | 48 | 40 | 35 | 31 | 27 | 22 | 19 |
|           |            | 4              | 120                  | 89  | 70 | 57 | 48 | 41 | 36 | 32 | 26 | 22 |
|           |            | 5              | 120                  | 89  | 70 | 57 | 48 | 41 | 36 | 32 | 26 | 22 |
|           | 3+         | 3              | 103                  | 76  | 60 | 50 | 42 | 37 | 33 | 29 | 24 | 21 |
|           |            | 4              | 121                  | 89  | 71 | 59 | 50 | 43 | 38 | 34 | 29 | 24 |
|           |            | 5              | 121                  | 89  | 71 | 59 | 50 | 43 | 38 | 34 | 29 | 24 |
| 5"        | 1          | 3              | 138                  | 103 | 83 | 69 | 59 | 52 | 46 | 41 | 34 | 28 |
|           |            | 4              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 28 |
|           |            | 5              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 28 |
|           | 2          | 3              | 109                  | 81  | 64 | 52 | 44 | 38 | 33 | 30 | 24 | 20 |
|           |            | 4              | 140                  | 103 | 81 | 67 | 56 | 49 | 43 | 38 | 31 | 26 |
|           |            | 5              | 140                  | 103 | 81 | 67 | 56 | 49 | 43 | 38 | 31 | 26 |
|           | 3+         | 3              | 110                  | 81  | 65 | 53 | 45 | 39 | 35 | 31 | 26 | 22 |
|           |            | 4              | 140                  | 104 | 82 | 68 | 58 | 50 | 45 | 40 | 33 | 28 |
|           |            | 5              | 140                  | 104 | 82 | 68 | 58 | 50 | 45 | 40 | 33 | 28 |
| 6"        | 1          | 3              | 139                  | 104 | 83 | 69 | 60 | 52 | 46 | 42 | 35 | 30 |
|           |            | 4              | 162                  | 122 | 97 | 81 | 69 | 61 | 54 | 49 | 41 | 31 |
|           |            | 5              | 162                  | 122 | 97 | 81 | 69 | 61 | 54 | 49 | 41 | 31 |
|           | 2          | 3              | 116                  | 86  | 68 | 56 | 47 | 41 | 36 | 32 | 26 | 22 |
|           |            | 4              | 155                  | 115 | 90 | 74 | 63 | 54 | 48 | 42 | 35 | 29 |

**Table 7. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/26Ga ThermalSafe Wall Panels Using 12 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 159                  | 118 | 93  | 76  | 65  | 56 | 49 | 43 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 116                  | 86  | 69  | 57  | 48  | 42 | 37 | 33 | 27 | 23 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 155                  | 115 | 91  | 75  | 64  | 56 | 49 | 44 | 37 | 31 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 159                  | 118 | 94  | 78  | 66  | 57 | 51 | 45 | 38 | 32 |
| 7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 141                  | 105 | 84  | 70  | 60  | 53 | 47 | 42 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 188                  | 141 | 113 | 94  | 80  | 70 | 63 | 56 | 47 | 39 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 212                  | 159 | 127 | 106 | 91  | 79 | 71 | 63 | 53 | 39 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 123                  | 92  | 73  | 60  | 51  | 44 | 39 | 35 | 29 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 164                  | 122 | 97  | 80  | 68  | 59 | 52 | 47 | 39 | 33 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 205                  | 153 | 121 | 100 | 85  | 73 | 64 | 57 | 47 | 39 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 123                  | 92  | 73  | 60  | 51  | 44 | 39 | 35 | 29 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 164                  | 122 | 97  | 80  | 68  | 59 | 52 | 47 | 39 | 33 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 205                  | 153 | 121 | 100 | 85  | 74 | 65 | 59 | 49 | 41 |
| 8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 142                  | 107 | 85  | 71  | 61  | 53 | 47 | 43 | 36 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 190                  | 142 | 114 | 95  | 81  | 71 | 63 | 57 | 47 | 41 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 237                  | 178 | 142 | 119 | 102 | 89 | 79 | 71 | 59 | 47 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 130                  | 96  | 76  | 63  | 53  | 46 | 40 | 36 | 29 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 173                  | 129 | 102 | 84  | 71  | 61 | 54 | 48 | 39 | 33 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 216                  | 161 | 127 | 105 | 89  | 77 | 67 | 60 | 49 | 41 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 130                  | 97  | 77  | 63  | 54  | 47 | 42 | 37 | 31 | 26 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 173                  | 129 | 102 | 85  | 72  | 63 | 55 | 50 | 41 | 35 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 217                  | 161 | 128 | 106 | 90  | 78 | 69 | 62 | 51 | 44 |
| <div>1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.</div> <div>2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements</div> <div>3. Limit states do not consider the effects of thermal load in combination with wind loads</div> <div>4. Deflection limit of L/240</div> <div>5. Structural capacity of the panel supports is not considered in this table</div> <div>6. Please contact Metl-Span Engineering for additional information and assistance</div> |            |                |                      |     |     |     |     |    |    |    |    |    |

**Table 8. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/26Ga ThermalSafe Wall Panels Using 14 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | # of Fasteners | Support Spacing (ft) |     |    |    |    |    |    |    |    |    |
|-----------|------------|----------------|----------------------|-----|----|----|----|----|----|----|----|----|
|           |            |                | 3                    | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 1          | 3              | 97                   | 73  | 58 | 49 | 42 | 36 | 31 | 26 | 19 | 14 |
|           |            | 4              | 97                   | 73  | 58 | 49 | 42 | 36 | 31 | 26 | 19 | 14 |
|           |            | 5              | 97                   | 73  | 58 | 49 | 42 | 36 | 31 | 26 | 19 | 14 |
|           | 2          | 3              | 93                   | 68  | 54 | 44 | 37 | 32 | 28 | 25 | 20 | 17 |
|           |            | 4              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 21 | 17 |
|           |            | 5              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 21 | 17 |
|           | 3+         | 3              | 94                   | 69  | 55 | 45 | 39 | 34 | 30 | 27 | 22 | 18 |
|           |            | 4              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 18 |
|           |            | 5              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 18 |
| 4"        | 1          | 3              | 123                  | 93  | 74 | 62 | 53 | 46 | 41 | 37 | 28 | 21 |
|           |            | 4              | 123                  | 93  | 74 | 62 | 53 | 46 | 41 | 37 | 28 | 21 |
|           |            | 5              | 123                  | 93  | 74 | 62 | 53 | 46 | 41 | 37 | 28 | 21 |
|           | 2          | 3              | 94                   | 69  | 54 | 44 | 38 | 32 | 28 | 25 | 21 | 17 |
|           |            | 4              | 120                  | 89  | 70 | 57 | 48 | 41 | 36 | 32 | 26 | 22 |
|           |            | 5              | 120                  | 89  | 70 | 57 | 48 | 41 | 36 | 32 | 26 | 22 |
|           | 3+         | 3              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 19 |
|           |            | 4              | 121                  | 89  | 71 | 59 | 50 | 43 | 38 | 34 | 29 | 24 |
|           |            | 5              | 121                  | 89  | 71 | 59 | 50 | 43 | 38 | 34 | 29 | 24 |
| 5"        | 1          | 3              | 138                  | 103 | 83 | 69 | 59 | 52 | 46 | 41 | 34 | 28 |
|           |            | 4              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 28 |
|           |            | 5              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 28 |
|           | 2          | 3              | 94                   | 70  | 55 | 45 | 38 | 33 | 29 | 26 | 21 | 18 |
|           |            | 4              | 126                  | 93  | 73 | 60 | 51 | 44 | 38 | 34 | 28 | 24 |
|           |            | 5              | 140                  | 103 | 81 | 67 | 56 | 49 | 43 | 38 | 31 | 26 |
|           | 3+         | 3              | 94                   | 70  | 56 | 46 | 39 | 34 | 30 | 27 | 22 | 19 |
|           |            | 4              | 126                  | 93  | 74 | 61 | 52 | 45 | 40 | 36 | 30 | 25 |
|           |            | 5              | 140                  | 104 | 82 | 68 | 58 | 50 | 45 | 40 | 33 | 28 |
| 6"        | 1          | 3              | 139                  | 104 | 83 | 69 | 60 | 52 | 46 | 42 | 35 | 30 |
|           |            | 4              | 162                  | 122 | 97 | 81 | 69 | 61 | 54 | 49 | 41 | 31 |
|           |            | 5              | 162                  | 122 | 97 | 81 | 69 | 61 | 54 | 49 | 41 | 31 |
|           | 2          | 3              | 95                   | 70  | 55 | 45 | 38 | 33 | 29 | 26 | 21 | 18 |
|           |            | 4              | 126                  | 93  | 74 | 60 | 51 | 44 | 39 | 34 | 28 | 24 |

**Table 8. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/26Ga ThermalSafe Wall Panels Using 14 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 117 | 92  | 76  | 64  | 55 | 48 | 43 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 95                   | 70  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 126                  | 94  | 74  | 61  | 52  | 45 | 40 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 117 | 93  | 77  | 65  | 57 | 50 | 45 | 37 | 32 |
| 7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 141                  | 105 | 84  | 70  | 60  | 53 | 47 | 42 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 188                  | 141 | 113 | 94  | 80  | 70 | 63 | 56 | 47 | 39 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 212                  | 159 | 127 | 106 | 91  | 79 | 71 | 63 | 53 | 39 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 95                   | 71  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 126                  | 94  | 75  | 62  | 52  | 46 | 40 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 118 | 93  | 77  | 66  | 57 | 50 | 45 | 37 | 32 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 95                   | 71  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 126                  | 94  | 75  | 62  | 52  | 46 | 40 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 118 | 93  | 77  | 66  | 57 | 50 | 45 | 37 | 32 |
| 8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 142                  | 107 | 85  | 71  | 61  | 53 | 47 | 43 | 36 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 190                  | 142 | 114 | 95  | 81  | 71 | 63 | 57 | 47 | 41 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 237                  | 178 | 142 | 119 | 102 | 89 | 79 | 71 | 59 | 47 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 95                   | 70  | 56  | 46  | 39  | 34 | 29 | 26 | 21 | 18 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 127                  | 94  | 74  | 61  | 52  | 45 | 39 | 35 | 29 | 24 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 117 | 93  | 76  | 65  | 56 | 49 | 44 | 36 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 95                   | 71  | 56  | 46  | 39  | 34 | 30 | 27 | 22 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 127                  | 94  | 75  | 62  | 53  | 46 | 40 | 36 | 30 | 26 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 158                  | 118 | 93  | 77  | 66  | 57 | 51 | 45 | 37 | 32 |
| <div>1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.</div> <div>2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements</div> <div>3. Limit states do not consider the effects of thermal load in combination with wind loads</div> <div>4. Deflection limit of L/240</div> <div>5. Structural capacity of the panel supports is not considered in this table</div> <div>6. Please contact Metl-Span Engineering for additional information and assistance</div> |            |                |                      |     |     |     |     |    |    |    |    |    |

**Table 9. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/26Ga ThermalSafe Wall Panels Using 16 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | # of Fasteners | Support Spacing (ft) |     |    |    |    |    |    |    |    |    |
|-----------|------------|----------------|----------------------|-----|----|----|----|----|----|----|----|----|
|           |            |                | 3                    | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 1          | 3              | 97                   | 73  | 58 | 49 | 42 | 36 | 31 | 26 | 19 | 14 |
|           |            | 4              | 97                   | 73  | 58 | 49 | 42 | 36 | 31 | 26 | 19 | 14 |
|           |            | 5              | 97                   | 73  | 58 | 49 | 42 | 36 | 31 | 26 | 19 | 14 |
|           | 2          | 3              | 74                   | 55  | 43 | 35 | 30 | 25 | 22 | 20 | 16 | 14 |
|           |            | 4              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 21 | 17 |
|           |            | 5              | 94                   | 69  | 54 | 44 | 37 | 32 | 28 | 25 | 21 | 17 |
|           | 3+         | 3              | 75                   | 55  | 44 | 36 | 31 | 27 | 24 | 21 | 18 | 15 |
|           |            | 4              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 18 |
|           |            | 5              | 94                   | 70  | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 18 |
| 4"        | 1          | 3              | 123                  | 93  | 74 | 62 | 53 | 46 | 41 | 37 | 28 | 21 |
|           |            | 4              | 123                  | 93  | 74 | 62 | 53 | 46 | 41 | 37 | 28 | 21 |
|           |            | 5              | 123                  | 93  | 74 | 62 | 53 | 46 | 41 | 37 | 28 | 21 |
|           | 2          | 3              | 75                   | 55  | 43 | 36 | 30 | 26 | 23 | 20 | 17 | 14 |
|           |            | 4              | 100                  | 74  | 58 | 47 | 40 | 35 | 30 | 27 | 22 | 19 |
|           |            | 5              | 120                  | 89  | 70 | 57 | 48 | 41 | 36 | 32 | 26 | 22 |
|           | 3+         | 3              | 75                   | 56  | 44 | 37 | 31 | 27 | 24 | 21 | 18 | 15 |
|           |            | 4              | 100                  | 74  | 59 | 49 | 41 | 36 | 32 | 29 | 24 | 20 |
|           |            | 5              | 121                  | 89  | 71 | 59 | 50 | 43 | 38 | 34 | 29 | 24 |
| 5"        | 1          | 3              | 138                  | 103 | 83 | 69 | 59 | 52 | 46 | 41 | 34 | 28 |
|           |            | 4              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 28 |
|           |            | 5              | 143                  | 107 | 86 | 71 | 61 | 54 | 48 | 43 | 36 | 28 |
|           | 2          | 3              | 75                   | 56  | 44 | 36 | 30 | 26 | 23 | 20 | 17 | 14 |
|           |            | 4              | 100                  | 74  | 58 | 48 | 41 | 35 | 31 | 27 | 22 | 19 |
|           |            | 5              | 126                  | 93  | 73 | 60 | 51 | 44 | 38 | 34 | 28 | 24 |
|           | 3+         | 3              | 76                   | 56  | 44 | 37 | 31 | 27 | 24 | 22 | 18 | 15 |
|           |            | 4              | 101                  | 75  | 59 | 49 | 42 | 36 | 32 | 29 | 24 | 20 |
|           |            | 5              | 126                  | 93  | 74 | 61 | 52 | 45 | 40 | 36 | 30 | 25 |
| 6"        | 1          | 3              | 139                  | 104 | 83 | 69 | 60 | 52 | 46 | 42 | 35 | 30 |
|           |            | 4              | 162                  | 122 | 97 | 81 | 69 | 61 | 54 | 49 | 41 | 31 |
|           |            | 5              | 162                  | 122 | 97 | 81 | 69 | 61 | 54 | 49 | 41 | 31 |
|           | 2          | 3              | 76                   | 56  | 44 | 36 | 31 | 26 | 23 | 21 | 17 | 14 |
|           |            | 4              | 101                  | 75  | 59 | 48 | 41 | 35 | 31 | 28 | 22 | 19 |

**Table 9. Allowable Outward Loads for a Through-Fastened 42" or 43" 24Ga/26Ga ThermalSafe Wall Panels Using 16 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | # of Spans | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 126                  | 93  | 74  | 60  | 51  | 44 | 39 | 34 | 28 | 24 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 76                   | 56  | 45  | 37  | 31  | 27 | 24 | 22 | 18 | 15 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 101                  | 75  | 59  | 49  | 42  | 36 | 32 | 29 | 24 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 126                  | 94  | 74  | 61  | 52  | 45 | 40 | 36 | 30 | 25 |
| 7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 141                  | 105 | 84  | 70  | 60  | 53 | 47 | 42 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 188                  | 141 | 113 | 94  | 80  | 70 | 63 | 56 | 47 | 39 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 212                  | 159 | 127 | 106 | 91  | 79 | 71 | 63 | 53 | 39 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 76                   | 56  | 45  | 37  | 31  | 27 | 24 | 22 | 18 | 15 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 101                  | 75  | 60  | 49  | 42  | 36 | 32 | 29 | 24 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 126                  | 94  | 75  | 62  | 52  | 46 | 40 | 36 | 30 | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 76                   | 56  | 45  | 37  | 31  | 27 | 24 | 22 | 18 | 15 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 101                  | 75  | 60  | 49  | 42  | 36 | 32 | 29 | 24 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 126                  | 94  | 75  | 62  | 52  | 46 | 40 | 36 | 30 | 25 |
| 8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | 3              | 142                  | 107 | 85  | 71  | 61  | 53 | 47 | 43 | 36 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 190                  | 142 | 114 | 95  | 81  | 71 | 63 | 57 | 47 | 41 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 237                  | 178 | 142 | 119 | 102 | 89 | 79 | 71 | 59 | 47 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2          | 3              | 76                   | 56  | 45  | 37  | 31  | 27 | 24 | 21 | 17 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 101                  | 75  | 59  | 49  | 41  | 36 | 31 | 28 | 23 | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 127                  | 94  | 74  | 61  | 52  | 45 | 39 | 35 | 29 | 24 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3+         | 3              | 76                   | 57  | 45  | 37  | 32  | 27 | 24 | 22 | 18 | 15 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 4              | 101                  | 75  | 60  | 49  | 42  | 37 | 32 | 29 | 24 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            | 5              | 127                  | 94  | 75  | 62  | 53  | 46 | 40 | 36 | 30 | 26 |
| <div>1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.</div> <div>2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements</div> <div>3. Limit states do not consider the effects of thermal load in combination with wind loads</div> <div>4. Deflection limit of L/240</div> <div>5. Structural capacity of the panel supports is not considered in this table</div> <div>6. Please contact Metl-Span Engineering for additional information and assistance</div> |            |                |                      |     |     |     |     |    |    |    |    |    |

**Table 10. Non-Exposed Fastened Outward Loads for a Through-Fastened 42" or 43" 26Ga/26Ga ThermalSafe Wall Panels Using 16 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | Support Spacing (ft) |    |    |    |    |    |    |    |    |    |
|-----------|------------|----------------------|----|----|----|----|----|----|----|----|----|
|           |            | 3                    | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 2          | 94                   | 69 | 54 | 44 | 37 | 32 | 28 | 25 | 20 | 17 |
|           | 3+         | 94                   | 70 | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 17 |
| 4"        | 2          | 109                  | 81 | 64 | 53 | 45 | 39 | 35 | 31 | 26 | 22 |
|           | 3+         | 109                  | 81 | 64 | 53 | 45 | 39 | 35 | 31 | 26 | 22 |
| 5"        | 2          | 110                  | 81 | 64 | 53 | 45 | 39 | 35 | 31 | 26 | 22 |
|           | 3+         | 110                  | 81 | 64 | 53 | 45 | 39 | 35 | 31 | 26 | 22 |
| 6"        | 2          | 110                  | 82 | 65 | 53 | 45 | 40 | 35 | 31 | 26 | 22 |
|           | 3+         | 110                  | 82 | 65 | 53 | 45 | 40 | 35 | 31 | 26 | 22 |
| 7"        | 2          | 110                  | 82 | 65 | 54 | 46 | 40 | 35 | 31 | 26 | 22 |
|           | 3+         | 110                  | 82 | 65 | 54 | 46 | 40 | 35 | 31 | 26 | 22 |
| 8"        | 2          | 110                  | 82 | 65 | 54 | 46 | 40 | 35 | 32 | 26 | 22 |
|           | 3+         | 110                  | 82 | 65 | 54 | 46 | 40 | 35 | 32 | 26 | 22 |

1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.
2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements
3. Limit states do not consider the effects of thermal load in combination with wind loads
4. Deflection limit of L/240
5. Structural capacity of the panel supports is not considered in this table
6. Please contact Metl-Span Engineering for additional information and assistance

**Table 11. Non-Exposed Fastened Outward Loads for a Through-Fastened 42" or 43" 24Ga/24Ga ThermalSafe Wall Panels Using 16 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | Support Spacing (ft) |     |    |    |    |    |    |    |    |    |
|-----------|------------|----------------------|-----|----|----|----|----|----|----|----|----|
|           |            | 3                    | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 2          | 96                   | 71  | 56 | 46 | 38 | 33 | 29 | 26 | 21 | 18 |
|           | 3+         | 97                   | 72  | 57 | 47 | 40 | 35 | 31 | 28 | 23 | 19 |
| 4"        | 2          | 133                  | 98  | 77 | 63 | 53 | 46 | 40 | 36 | 29 | 25 |
|           | 3+         | 133                  | 99  | 78 | 65 | 55 | 48 | 42 | 38 | 31 | 27 |
| 5"        | 2          | 137                  | 102 | 81 | 67 | 57 | 49 | 44 | 39 | 32 | 28 |
|           | 3+         | 137                  | 102 | 81 | 67 | 57 | 49 | 44 | 39 | 32 | 28 |
| 6"        | 2          | 137                  | 102 | 81 | 67 | 57 | 50 | 44 | 39 | 32 | 28 |
|           | 3+         | 137                  | 102 | 81 | 67 | 57 | 50 | 44 | 39 | 32 | 28 |
| 7"        | 2          | 138                  | 103 | 81 | 67 | 57 | 50 | 44 | 39 | 33 | 28 |
|           | 3+         | 138                  | 103 | 81 | 67 | 57 | 50 | 44 | 39 | 33 | 28 |
| 8"        | 2          | 138                  | 103 | 82 | 67 | 57 | 50 | 44 | 40 | 33 | 28 |
|           | 3+         | 138                  | 103 | 82 | 67 | 57 | 50 | 44 | 40 | 33 | 28 |

1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.
2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements
3. Limit states do not consider the effects of thermal load in combination with wind loads
4. Deflection limit of L/240
5. Structural capacity of the panel supports is not considered in this table
6. Please contact Metl-Span Engineering for additional information and assistance

**Table 12. Non-Exposed Fastened Outward Loads for a Through-Fastened 42" or 43" 24Ga/26Ga ThermalSafe Wall Panels Using 16 GA Supports<sup>1,2,3,4,5,6</sup>**

| Thickness | # of Spans | Support Spacing (ft) |    |    |    |    |    |    |    |    |    |
|-----------|------------|----------------------|----|----|----|----|----|----|----|----|----|
|           |            | 3                    | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 12 | 14 |
| 3"        | 2          | 94                   | 69 | 54 | 44 | 37 | 32 | 28 | 25 | 21 | 17 |
|           | 3+         | 94                   | 70 | 55 | 46 | 39 | 34 | 30 | 27 | 22 | 18 |
| 4"        | 2          | 109                  | 81 | 64 | 53 | 45 | 39 | 35 | 31 | 26 | 22 |
|           | 3+         | 109                  | 81 | 64 | 53 | 45 | 39 | 35 | 31 | 26 | 22 |
| 5"        | 2          | 110                  | 82 | 65 | 53 | 45 | 39 | 35 | 31 | 26 | 22 |
|           | 3+         | 110                  | 82 | 65 | 53 | 45 | 39 | 35 | 31 | 26 | 22 |
| 6"        | 2          | 110                  | 82 | 65 | 54 | 46 | 40 | 35 | 31 | 26 | 22 |
|           | 3+         | 110                  | 82 | 65 | 54 | 46 | 40 | 35 | 31 | 26 | 22 |
| 7"        | 2          | 110                  | 82 | 65 | 54 | 46 | 40 | 35 | 32 | 26 | 22 |
|           | 3+         | 110                  | 82 | 65 | 54 | 46 | 40 | 35 | 32 | 26 | 22 |
| 8"        | 2          | 111                  | 82 | 65 | 54 | 46 | 40 | 35 | 32 | 26 | 22 |
|           | 3+         | 111                  | 82 | 65 | 54 | 46 | 40 | 35 | 32 | 26 | 22 |

1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.
2. Allowable outward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements
3. Limit states do not consider the effects of thermal load in combination with wind loads
4. Deflection limit of L/240
5. Structural capacity of the panel supports is not considered in this table
6. Please contact Metl-Span Engineering for additional information and assistance

**Table 13.** Allowable Inward Loads for a Through-Fastened 42" or 43"  
26Ga/26Ga ThermalSafe Wall Panels<sup>2,3,4,5,6</sup>

| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | # of Fasteners | Support Spacing (ft) |     |     |     |     |     |    |    |    |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------|-----|-----|-----|-----|-----|----|----|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                | 3                    | 4   | 5   | 6   | 7   | 8   | 9  | 10 | 12 | 14 |
| 3"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 97                   | 73  | 58  | 49  | 42  | 36  | 29 | 25 | 17 | 13 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 94                   | 69  | 54  | 44  | 37  | 32  | 28 | 25 | 20 | 17 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 94                   | 70  | 55  | 46  | 39  | 34  | 30 | 27 | 22 | 17 |
| 4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 124                  | 93  | 74  | 62  | 53  | 46  | 41 | 36 | 27 | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 120                  | 88  | 69  | 57  | 48  | 41  | 36 | 32 | 26 | 22 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 121                  | 89  | 71  | 58  | 50  | 43  | 38 | 34 | 29 | 24 |
| 5"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 143                  | 107 | 86  | 71  | 61  | 54  | 48 | 43 | 36 | 27 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 139                  | 103 | 81  | 66  | 56  | 48  | 42 | 38 | 31 | 26 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 140                  | 104 | 82  | 68  | 58  | 50  | 44 | 40 | 33 | 28 |
| 6"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 162                  | 122 | 97  | 81  | 70  | 61  | 54 | 49 | 41 | 32 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 159                  | 118 | 93  | 76  | 64  | 55  | 49 | 43 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 159                  | 118 | 94  | 77  | 66  | 57  | 51 | 45 | 38 | 32 |
| 7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 212                  | 159 | 127 | 106 | 91  | 79  | 71 | 64 | 53 | 42 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 208                  | 154 | 122 | 100 | 84  | 73  | 64 | 57 | 46 | 39 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 208                  | 155 | 123 | 101 | 86  | 75  | 66 | 59 | 49 | 42 |
| 8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 268                  | 201 | 161 | 134 | 115 | 100 | 89 | 80 | 67 | 53 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 252                  | 187 | 148 | 121 | 103 | 89  | 78 | 69 | 57 | 48 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 252                  | 188 | 149 | 123 | 105 | 91  | 80 | 72 | 60 | 51 |
| <ol style="list-style-type: none"> <li>1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.</li> <li>2. Allowable inward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements</li> <li>3. Limit states do not consider the effects of thermal load in combination with wind loads</li> <li>4. Deflection limit of L/240</li> <li>5. Structural capacity of the panel supports is not considered in this table</li> <li>6. Please contact Metl-Span Engineering for additional information and assistance</li> </ol> |                |                      |     |     |     |     |     |    |    |    |    |

**Table 14.** Allowable Inward Loads for a Through-Fastened 42" or 43"  
24Ga/24Ga ThermalSafe Wall Panels<sup>2,3,4,5,6</sup>

| Thickness | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|-----------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|           |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
| 3"        | 1              | 99                   | 74  | 60  | 50  | 43  | 37 | 32 | 27 | 20 | 15 |
|           | 2              | 96                   | 71  | 56  | 46  | 38  | 33 | 29 | 26 | 21 | 18 |
|           | 3+             | 97                   | 72  | 57  | 47  | 40  | 35 | 31 | 28 | 23 | 19 |
| 4"        | 1              | 136                  | 102 | 82  | 68  | 58  | 51 | 45 | 40 | 30 | 23 |
|           | 2              | 133                  | 98  | 77  | 63  | 53  | 46 | 40 | 36 | 29 | 25 |
|           | 3+             | 133                  | 99  | 78  | 65  | 55  | 48 | 42 | 38 | 31 | 27 |
| 5"        | 1              | 174                  | 131 | 105 | 87  | 75  | 65 | 58 | 52 | 40 | 31 |
|           | 2              | 171                  | 127 | 100 | 82  | 69  | 60 | 52 | 47 | 38 | 32 |
|           | 3+             | 171                  | 127 | 101 | 83  | 71  | 62 | 55 | 49 | 40 | 35 |
| 6"        | 1              | 219                  | 164 | 131 | 110 | 94  | 82 | 73 | 65 | 50 | 39 |
|           | 2              | 201                  | 149 | 118 | 97  | 82  | 71 | 62 | 55 | 45 | 38 |
|           | 3+             | 202                  | 150 | 119 | 98  | 84  | 73 | 64 | 58 | 48 | 41 |
| 7"        | 1              | 234                  | 175 | 140 | 117 | 100 | 88 | 78 | 70 | 58 | 48 |
|           | 2              | 227                  | 169 | 133 | 110 | 93  | 80 | 71 | 63 | 51 | 43 |
|           | 3+             | 227                  | 169 | 134 | 111 | 94  | 82 | 73 | 65 | 54 | 46 |
| 8"        | 1              | 242                  | 181 | 145 | 121 | 104 | 91 | 81 | 73 | 60 | 52 |
|           | 2              | 239                  | 178 | 141 | 116 | 98  | 85 | 75 | 66 | 54 | 46 |
|           | 3+             | 239                  | 178 | 141 | 117 | 99  | 86 | 76 | 68 | 57 | 48 |

1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.
2. Allowable inward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements
3. Limit states do not consider the effects of thermal load in combination with wind loads
4. Deflection limit of L/240
5. Structural capacity of the panel supports is not considered in this table
6. Please contact Metl-Span Engineering for additional information and assistance

**Table 15.** Allowable Inward Loads for a Through-Fastened 42" or 43"  
24Ga/26Ga ThermalSafe Wall Panels<sup>2,3,4,5,6</sup>

| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | # of Fasteners | Support Spacing (ft) |     |     |     |     |    |    |    |    |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------|-----|-----|-----|-----|----|----|----|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                | 3                    | 4   | 5   | 6   | 7   | 8  | 9  | 10 | 12 | 14 |
| 3"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 97                   | 73  | 58  | 49  | 42  | 36 | 31 | 26 | 19 | 14 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 94                   | 69  | 54  | 44  | 37  | 32 | 28 | 25 | 21 | 17 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 94                   | 70  | 55  | 46  | 39  | 34 | 30 | 27 | 22 | 18 |
| 4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 123                  | 93  | 74  | 62  | 53  | 46 | 41 | 37 | 28 | 21 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 120                  | 89  | 70  | 57  | 48  | 41 | 36 | 32 | 26 | 22 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 121                  | 89  | 71  | 59  | 50  | 43 | 38 | 34 | 29 | 24 |
| 5"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 143                  | 107 | 86  | 71  | 61  | 54 | 48 | 43 | 36 | 28 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 140                  | 103 | 81  | 67  | 56  | 49 | 43 | 38 | 31 | 26 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 140                  | 104 | 82  | 68  | 58  | 50 | 45 | 40 | 33 | 28 |
| 6"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 162                  | 122 | 97  | 81  | 69  | 61 | 54 | 49 | 41 | 31 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 159                  | 118 | 93  | 76  | 65  | 56 | 49 | 43 | 35 | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 159                  | 118 | 94  | 78  | 66  | 57 | 51 | 45 | 38 | 32 |
| 7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 212                  | 159 | 127 | 106 | 91  | 79 | 71 | 63 | 53 | 39 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 208                  | 154 | 122 | 100 | 85  | 73 | 64 | 57 | 47 | 39 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 208                  | 155 | 123 | 102 | 86  | 75 | 66 | 60 | 49 | 42 |
| 8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1              | 242                  | 181 | 145 | 121 | 104 | 91 | 81 | 73 | 60 | 47 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2              | 239                  | 177 | 140 | 115 | 98  | 84 | 74 | 66 | 54 | 45 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3+             | 239                  | 178 | 141 | 117 | 99  | 86 | 76 | 68 | 56 | 48 |
| <ol style="list-style-type: none"> <li>1. Based on Allowable Stress Design (ASD). No factor has been applied for loads limited by deflection.</li> <li>2. Allowable inward loads shown in this table are based on the lowest value of panel wrinkling, shear, deflection ratio, interaction moment and bearing width requirements</li> <li>3. Limit states do not consider the effects of thermal load in combination with wind loads</li> <li>4. Deflection limit of L/240</li> <li>5. Structural capacity of the panel supports is not considered in this table</li> <li>6. Please contact Metl-Span Engineering for additional information and assistance</li> </ol> |                |                      |     |     |     |     |    |    |    |    |    |

This panel is not currently available for use in High-Velocity Hurricane Zones (HVHZ).

DrJ's procedures are fully compliant with the ISO/IEC 17065 certification process and DrJ's scope of expertise.



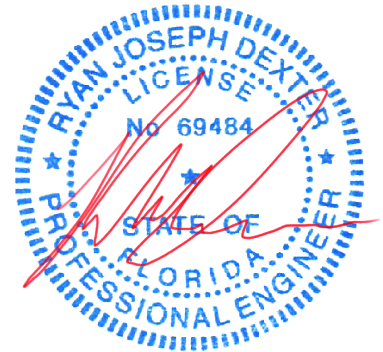
If there are any additional questions or concerns, we will gladly provide a Florida professional engineering<sup>1</sup> and ANAB ISO/IEC 17065 accredited<sup>2</sup> approved agency response. Pursuant to the 2023 FBC Code Section 1707.1<sup>3</sup> we would sincerely appreciate knowing the specific sections of the adopted building code and/or professional engineering law that this engineering evaluation does not comply with so that we can cure any non-compliance. From specifics, we can then delineate a path forward for everyone involved to cure any violations, as this will serve everyone's free and fair market competition's best interests.

Our goal with the foregoing analysis is to provide both the accepted engineering analysis and regulatory compliance substance to support a systematic path to approval. Please contact us if we can help further in any way. If your request is time-sensitive, please contact Jill Zimmerman at (920) 988-7165. Thank you very much.

Respectfully yours,

Chris Scoville  
Vice President Product Certification  
608-310-6720

Ryan Dexter, P.E.  
Florida P.E. No. 69484  
Vice President  
608-310-6744



December 19, 2024

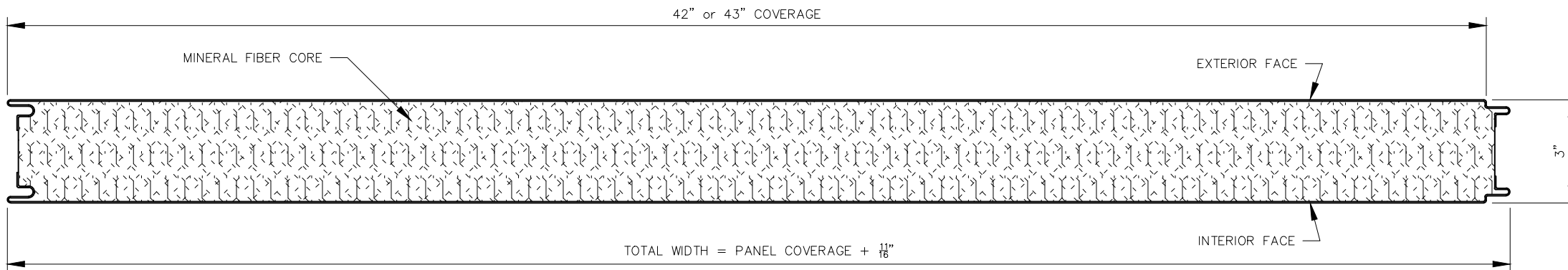
Ryan Dexter

Digitally signed by Ryan Dexter  
DN: C=US,  
E=rdexter@drjengineering.org, CN=Ryan  
Dexter  
Date: 2024.12.19 16:55:16-06'00'

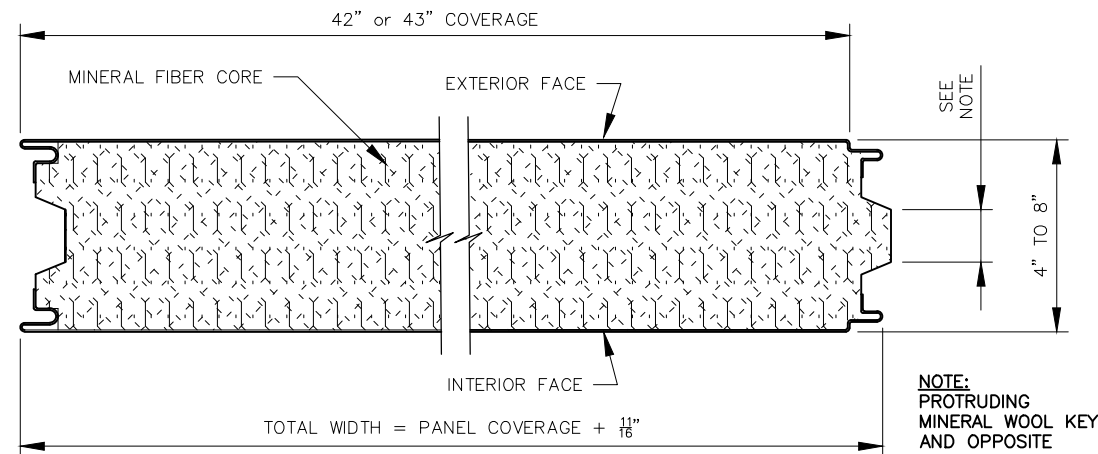
<sup>1</sup> **Approved Source.** An independent person, firm or corporation, approved by the building official, who is competent and experienced in the application of engineering principles to materials, methods or systems analyses. [https://up.codes/viewer/florida/fl-building-code-2023/chapter/2/definitions#approved\\_source](https://up.codes/viewer/florida/fl-building-code-2023/chapter/2/definitions#approved_source)

<sup>2</sup> **Approved Agency.** An established and recognized agency that is regularly engaged in conducting tests, furnishing inspection services or furnishing product certification where such agency has been approved by the building official. [https://up.codes/viewer/florida/fl-building-code-2023/chapter/2/definitions#approved\\_agency](https://up.codes/viewer/florida/fl-building-code-2023/chapter/2/definitions#approved_agency)

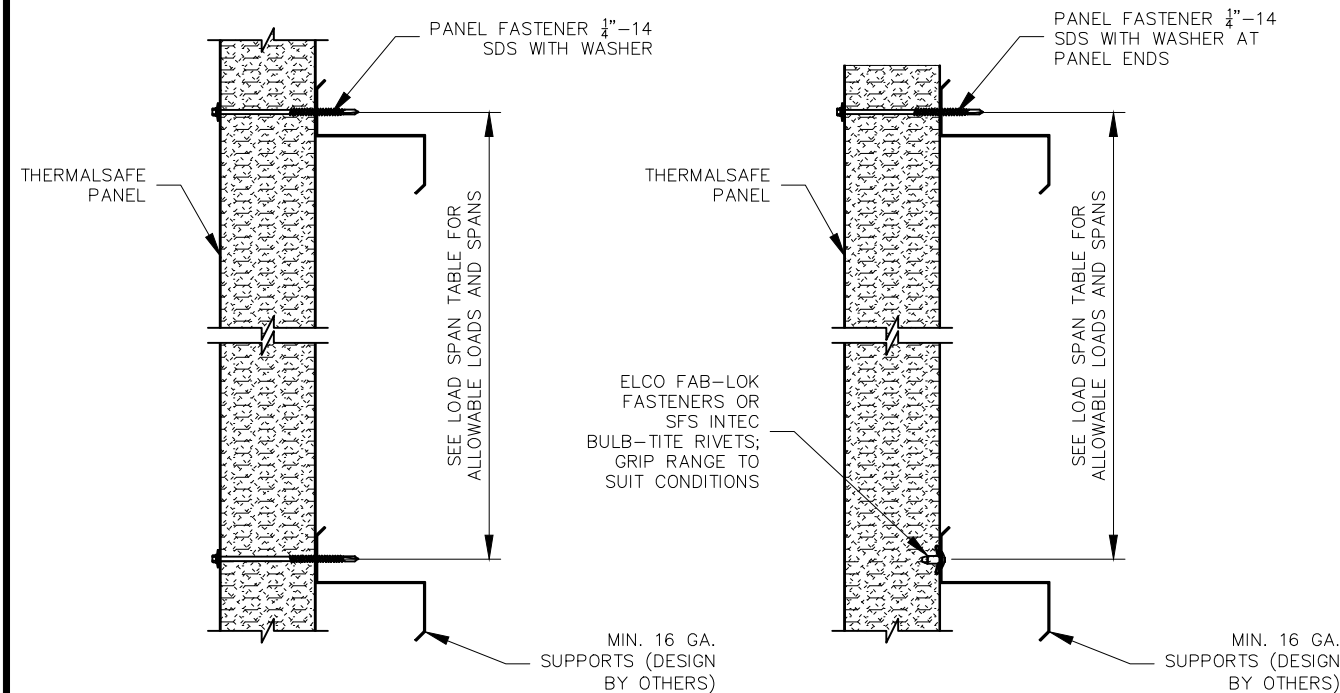
<sup>3</sup> In the absence of approved rules or other approved standards, the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies. The cost of all tests and other investigations required under the provisions of this code shall be borne by the owner or the owner's authorized agent.



3-INCH THERMSAFE PANEL

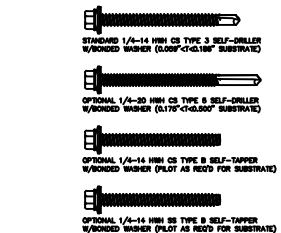


4-INCH THRU 8-INCH THERMSAFE PANEL



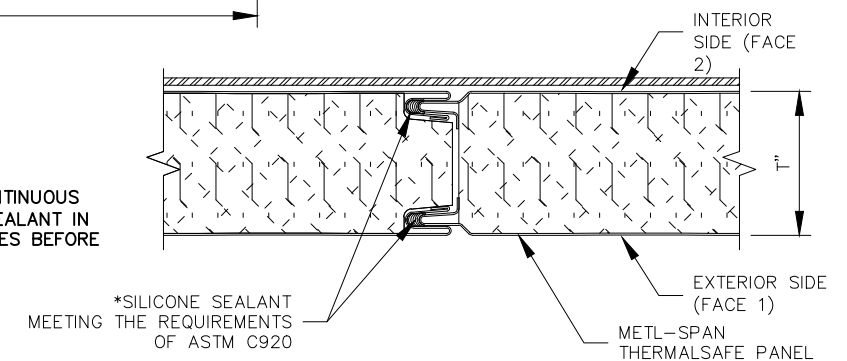
SECTION VIEW  
FASTENER PATTERNS: TSFP1,  
TSFP2, OR TSFPMAX

SECTION VIEW  
FASTENER PATTERN: TSFP3



PERMITTED FASTENERS FOR THERMSAFE  
STANDARD FASTENER LENGTH IS PANEL THICKNESS + 1-INCH; OTHER CONDITIONS  
MAY REQUIRE LONGER LENGTHS TO ENSURE (3) FULL THREADS EXPOSED BEYOND  
SUBSTRATE

\* NOTE:  
FIELD APPLY 1/4" CONTINUOUS  
BEAD OF SILICONE SEALANT IN  
BOTH FEMALE GROOVES BEFORE  
INSTALLING.



DETAIL 1  
SEALANT REQUIREMENTS

## GENERAL NOTES:

1. THIS STRUCTURAL WALL PANEL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH FLORIDA BUILDING CODE (FBC). THE DESIGN PRESSURES, AS DETERMINED FROM SECTION 1609 AND ASCE 7 MUST BE MULTIPLIED BY 0.6.
2. PANELS ARE MAX. 43" WIDE, CONSIST OF 26 GA OR 24 GA ( $t = 0.017"$  MIN.,  $t = 0.023"$  MIN.) EXTERIOR OR INTERIOR STEEL SKINS ( $F_y = \text{MIN. } 33 \text{ KSI}$ ) AND ARE SANDWICHED WITH A RIGID MINERAL WOOL LAMELLA CORE WITH NOMINAL DENSITY OF 8.5 PCF.
3. PANELS SHALL BE INSTALLED OVER WALL STRUCTURE AS SPECIFIED ON THESE DRAWINGS.
4. PANELS MUST BE INSTALLED OVER MIN. 2 SUPPORTS. HORIZONTAL SEAMS MAY BE PRESENT AT CENTERLINE OF SUPPORTS PROVIDING THE SEAMS ARE FLASHED & PROPERLY SEALED PER METL-SPAN SPECIFICATIONS AND EACH PANEL END IS SECURED PER THESE DRAWINGS.
5. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOADS SPECIFIED ON LOAD SPAN TABLES.
6. ALL FASTENERS SHALL BE CORROSION-RESISTANT SCREWS.
7. THE SUPPORTING STRUCTURE, OVER WHICH THE PANELS ARE TO BE INSTALLED, MUST BE MINIMUM 16 GA (MIN. 0.059"),  $F_y=50\text{KSI}$  MINIMUM STEEL.
8. THESE WALL PANELS SHALL NOT BE CONSIDERED FOR TRANSFER OF DIAPHRAGM ACTION OF WALL TO SUPPORTING STRUCTURE.

1720 LAKEPOINTE DR. STE.  
LEWISVILLE, TEXAS  
TEL: (972) 958-7222  
FAX: (972) 436-7028  
WWW.METLSPAN.COM



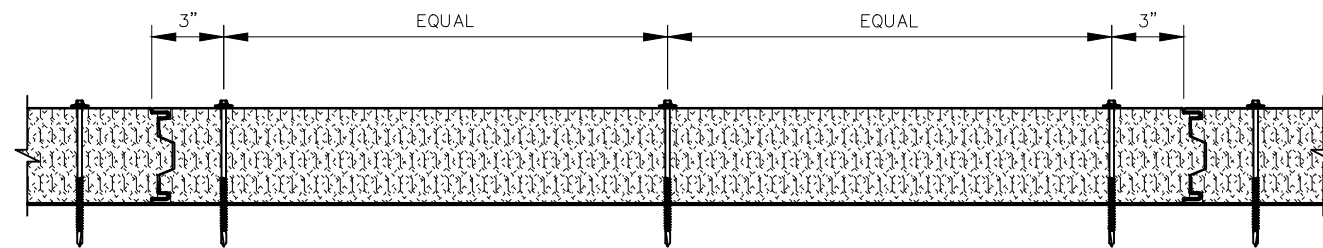
PROJECT: THERMSAFE PANEL  
FLORIDA PRODUCT  
INSTALLATION STANDARD

| REVISION | DATE |
|----------|------|
|          |      |
|          |      |
|          |      |

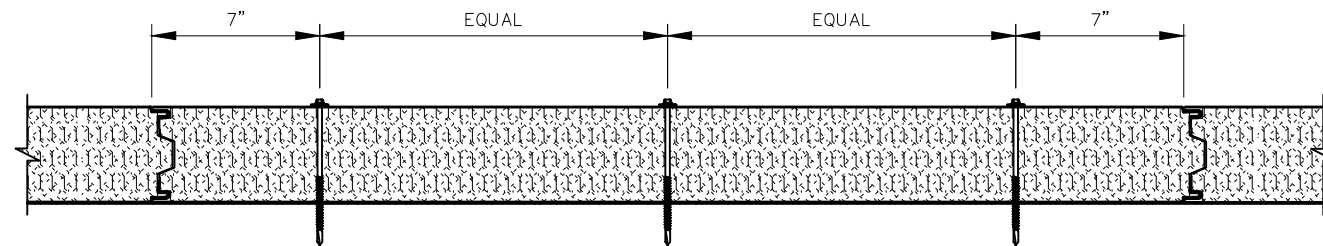
| REVISION | DATE |
|----------|------|
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|                |                 |
|----------------|-----------------|
| DRAWN BY: MJK  | CHECKED BY: --- |
| DATE: FEB 2024 | SCALE: AS NOTED |

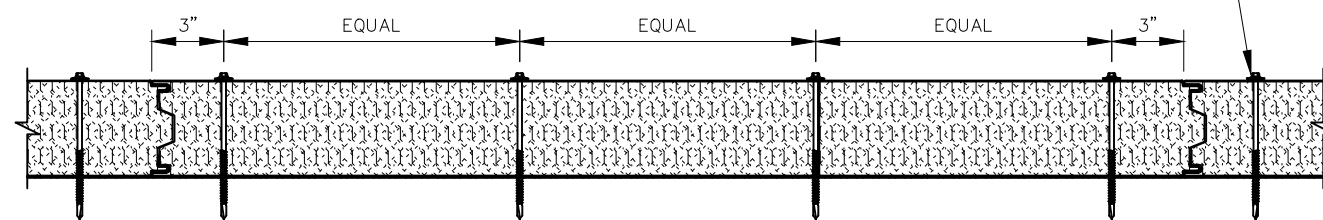
PROJECT NUMBER:  
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SHEET:  
TS-1



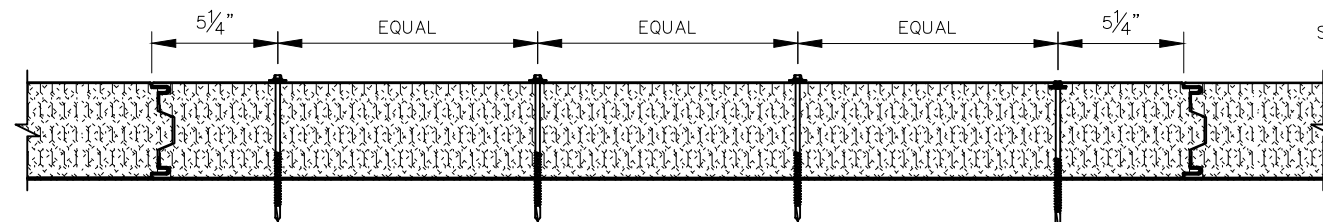
PANEL INSTALLATION SECTION AT END SUPPORTS-TSFP1



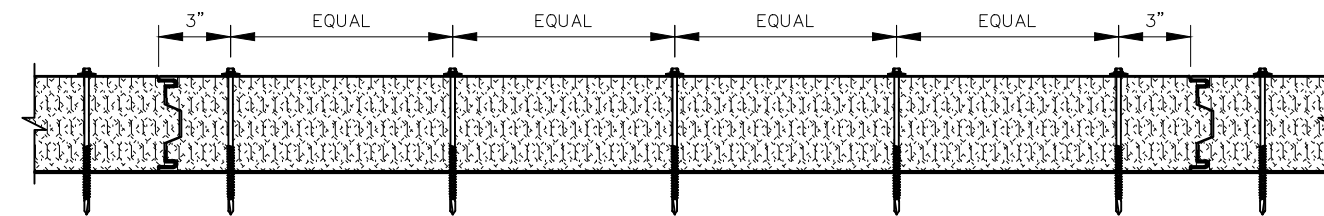
PANEL INSTALLATION SECTION AT INTERIOR SUPPORTS-TSFP1



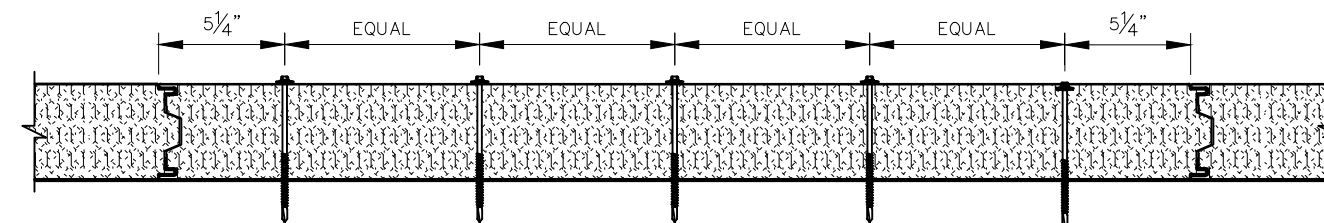
PANEL INSTALLATION SECTION AT END SUPPORTS-TSFP2



PANEL INSTALLATION SECTION AT INTERIOR SUPPORTS-TSFP2

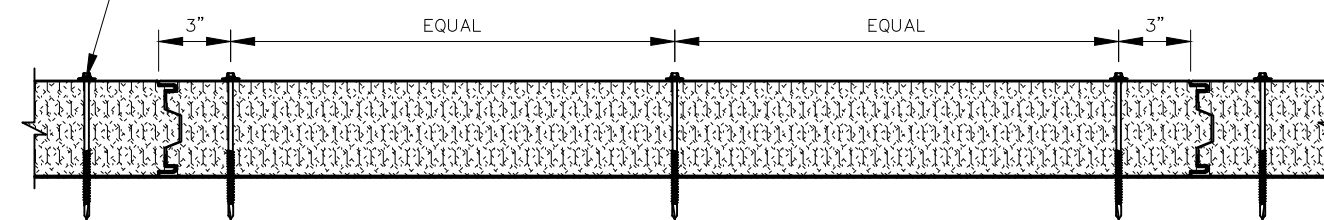


PANEL INSTALLATION SECTION AT END SUPPORTS-TSFPMAX



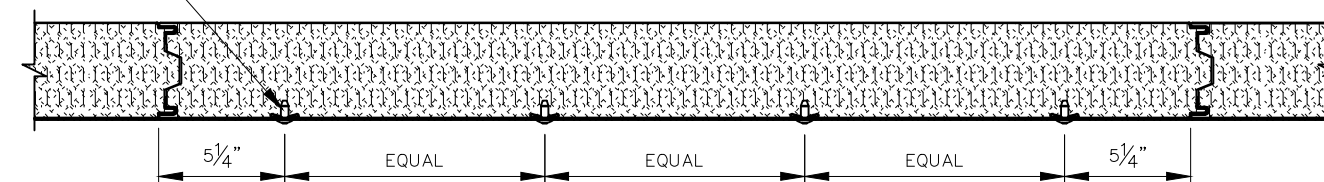
PANEL INSTALLATION SECTION AT INTERIOR SUPPORTS-TSFPMAX

ALL PATTERNS UTILIZE  
PANEL FASTENER 1/4"-14  
SDS WITH WASHER AT  
PANEL ENDS

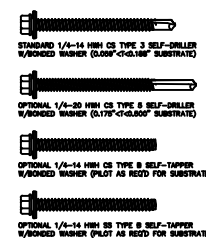


PANEL INSTALLATION SECTION AT END SUPPORTS-TSFP3

TSFP3 UTILIZES  
ELCO FAB-LOK  
FASTENERS OR  
SFS INTEC  
BULB-TITE RIVETS;  
GRIP RANGE TO  
SUIT CONDITIONS



PANEL INSTALLATION SECTION AT INTERIOR SUPPORTS-TSFP3



PERMITTED FASTENERS FOR THERMOSAFE  
STANDARD FASTENER LENGTH IS PANEL THICKNESS + 1-INCH; OTHER CONDITIONS  
MAY REQUIRE LONGER LENGTHS TO ENSURE (3) FULL THREADS EXPOSED BEYOND  
SUBSTRATE

## GENERAL NOTES ON FASTENER PATTERNS:

1. ALL FASTENERS SHALL BE CORROSION-RESISTANT.
2. THE SUPPORTING STRUCTURE, OVER WHICH THE PANELS ARE TO BE INSTALLED, MUST BE MINIMUM 16 GA (MIN. 0.059"), Fy=50KSI MINIMUM STEEL.
3. FASTENER LENGTH AND DRILL POINT IS DETERMINED BY THE PANEL THICKNESS AND SUPPORT MATERIAL/THICKNESS.