

Eco-ficient[™] ThermalSafe Allowable Span (ft) for Inward or Outward Load of 5 psf

Design Criteria					Allowable Span
Thickness (in.)	Bending Stress (ft)	Shear Stress (ft)	Deflection Limit (ft)	Fastener Capacity (ft)	(ft)
3	30.30	62.30	21.20	41.80	21.20
4	34.40	79.00	25.90	49.80	25.90
5	37.80	93.50	30.10	57.90	30.10
6	40.60	104.50	34.00	66.10	34.00
7	43.90	122.10	37.90	74.20	37.90
8	47.00	139.70	41.60	74.20	41.60

Notes:

1. Based on TS panel with 26 Ga. exterior & 26 Ga. interior face (min Fy = 33 ksi) for single span condition.

2. Allowable span is the lowest value of panel bending strength, shear strength, deflection limit and connection strength.

3. The spans based on panel stress and deflection design criteria are derived from ASTM E-72 structural testing. The allowable loads

are calculated with a factor of safety of 2.5 and 3.0 for bending and shear stresses, respectively, and deflection limitation of L/240. 4 The connection strengths are derived from ASTM E-72 structural testing and the allowable loads are calculated with a factor of safety of 2.5.

The connection strengths are derived from ASTM E-72 structural testing and the allowable loads are calculated with a factor of safety of 2
5. Based on attachment with 14 Ga. steel girt with fastener spacing 3"-18"-3" across panel width.

6. The structural capacity of the girts are not considered and must be examined independently.

7. This information is subject to change without notice. Please contact MBCI for most current information.