

**QuadCore® KS Series**  
**Allowable Load / Span Tables**  
Shadowline / Flat



Exterior: 26 ga | Interior: 26 ga.....2

Exterior: 24 ga | Interior: 26 ga.....3

Exterior: 24 ga | Interior: 24 ga.....4

Exterior: 22 ga | Interior: 26 ga.....5

Exterior: 22 ga | Interior: 24 ga.....6

Exterior: 22 ga | Interior: 22 ga.....7

# QuadCore® KS Series

## Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 26 ga | Interior: 26 ga  
 Panel Width: 42"  
 Interior Design Load: +/- 5 psf

| Temperature Differential EXCLUDED |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 18' - 7"         | 21' - 7"         |
| 2.5"                              | Single         | 21' - 9"         | 25' - 3"         |
| 3"                                | Single         | 24' - 8"         | 28' - 1"         |
| 4"                                | Single         | 30' - 1"         | 32' - 7"         |
| 5"                                | Single         | 35' - 0"         | 36' - 8"         |
| 6"                                | Single         | 39' - 6"         | 40' - 3"         |
| 8"                                | Single         | 47' - 0"         | 47' - 0"         |

| Temperature Differential of 50°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 13' - 2"         | 16' - 9"         |
| 2.5"                             | Single         | 15' - 10"        | 19' - 11"        |
| 3"                               | Single         | 18' - 4"         | 23' - 0"         |
| 4"                               | Single         | 22' - 11"        | 28' - 7"         |
| 5"                               | Single         | 27' - 2"         | 33' - 9"         |
| 6"                               | Single         | 31' - 2"         | 38' - 7"         |
| 8"                               | Single         | 39' - 2"         | 47' - 0"         |

| Temperature Differential of 75°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 11' - 0"         | 14' - 7"         |
| 2.5"                             | Single         | 13' - 4"         | 17' - 7"         |
| 3"                               | Single         | 15' - 7"         | 20' - 4"         |
| 4"                               | Single         | 19' - 10"        | 25' - 7"         |
| 5"                               | Single         | 23' - 9"         | 30' - 6"         |
| 6"                               | Single         | 27' - 5"         | 35' - 0"         |
| 8"                               | Single         | 34' - 10"        | 44' - 1"         |

| Temperature Differential of 100°F |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 9' - 3"          | 12' - 8"         |
| 2.5"                              | Single         | 11' - 3"         | 15' - 5"         |
| 3"                                | Single         | 13' - 3"         | 18' - 0"         |
| 4"                                | Single         | 17' - 1"         | 22' - 11"        |
| 5"                                | Single         | 20' - 8"         | 27' - 6"         |
| 6"                                | Single         | 24' - 1"         | 31' - 9"         |
| 8"                                | Single         | 30' - 11"        | 40' - 4"         |

Notes to tables: Spans shown are for uniform loads only. Spans may be governed by other factors including deflection requirements, structural support gage, and support configuration. Consult Kingspan for specific project applications.

# QuadCore® KS Series

## Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 24 ga | Interior: 26 ga  
 Panel Width: 42"  
 Interior Design Load: +/- 5 psf

| Temperature Differential EXCLUDED |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 19' - 1"         | 22' - 3"         |
| 2.5"                              | Single         | 22' - 4"         | 25' - 7"         |
| 3"                                | Single         | 25' - 5"         | 28' - 1"         |
| 4"                                | Single         | 31' - 0"         | 32' - 8"         |
| 5"                                | Single         | 36' - 0"         | 36' - 8"         |
| 6"                                | Single         | 40' - 4"         | 40' - 4"         |
| 8"                                | Single         | 47' - 0"         | 47' - 0"         |

| Temperature Differential of 50°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 13' - 5"         | 17' - 1"         |
| 2.5"                             | Single         | 16' - 1"         | 20' - 4"         |
| 3"                               | Single         | 18' - 8"         | 23' - 6"         |
| 4"                               | Single         | 23' - 4"         | 29' - 3"         |
| 5"                               | Single         | 27' - 9"         | 34' - 6"         |
| 6"                               | Single         | 31' - 9"         | 39' - 5"         |
| 8"                               | Single         | 39' - 11"        | 47' - 0"         |

| Temperature Differential of 75°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 11' - 1"         | 14' - 10"        |
| 2.5"                             | Single         | 13' - 6"         | 17' - 10"        |
| 3"                               | Single         | 15' - 9"         | 20' - 9"         |
| 4"                               | Single         | 20' - 1"         | 26' - 1"         |
| 5"                               | Single         | 24' - 1"         | 31' - 1"         |
| 6"                               | Single         | 27' - 10"        | 35' - 8"         |
| 8"                               | Single         | 35' - 5"         | 45' - 0"         |

| Temperature Differential of 100°F |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 9' - 3"          | 12' - 10"        |
| 2.5"                              | Single         | 11' - 5"         | 15' - 7"         |
| 3"                                | Single         | 13' - 5"         | 18' - 3"         |
| 4"                                | Single         | 17' - 3"         | 23' - 3"         |
| 5"                                | Single         | 20' - 11"        | 27' - 11"        |
| 6"                                | Single         | 24' - 4"         | 32' - 3"         |
| 8"                                | Single         | 31' - 4"         | 41' - 0"         |

Notes to tables: Spans shown are for uniform loads only. Spans may be governed by other factors including deflection requirements, structural support gage, and support configuration. Consult Kingspan for specific project applications.

# QuadCore® KS Series

## Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 24 ga | Interior: 24 ga  
 Panel Width: 42"  
 Interior Design Load: +/- 5 psf

| Temperature Differential EXCLUDED |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 19' - 9"         | 23' - 0"         |
| 2.5"                              | Single         | 23' - 1"         | 26' - 10"        |
| 3"                                | Single         | 26' - 3"         | 30' - 6"         |
| 4"                                | Single         | 32' - 0"         | 35' - 11"        |
| 5"                                | Single         | 37' - 2"         | 40' - 4"         |
| 6"                                | Single         | 42' - 0"         | 44' - 4"         |
| 8"                                | Single         | 51' - 6"         | 51' - 8"         |

| Temperature Differential of 50°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 13' - 8"         | 17' - 6"         |
| 2.5"                             | Single         | 16' - 5"         | 20' - 10"        |
| 3"                               | Single         | 19' - 0"         | 24' - 0"         |
| 4"                               | Single         | 23' - 11"        | 29' - 11"        |
| 5"                               | Single         | 28' - 4"         | 35' - 5"         |
| 6"                               | Single         | 32' - 6"         | 40' - 5"         |
| 8"                               | Single         | 40' - 11"        | 50' - 6"         |

| Temperature Differential of 75°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 11' - 3"         | 15' - 1"         |
| 2.5"                             | Single         | 13' - 8"         | 18' - 2"         |
| 3"                               | Single         | 16' - 0"         | 21' - 1"         |
| 4"                               | Single         | 20' - 5"         | 26' - 7"         |
| 5"                               | Single         | 24' - 6"         | 31' - 9"         |
| 6"                               | Single         | 28' - 4"         | 36' - 6"         |
| 8"                               | Single         | 36' - 1"         | 46' - 0"         |

| Temperature Differential of 100°F |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 9' - 4"          | 13' - 0"         |
| 2.5"                              | Single         | 11' - 6"         | 15' - 10"        |
| 3"                                | Single         | 13' - 7"         | 18' - 6"         |
| 4"                                | Single         | 17' - 6"         | 23' - 7"         |
| 5"                                | Single         | 21' - 2"         | 28' - 4"         |
| 6"                                | Single         | 24' - 8"         | 32' - 10"        |
| 8"                                | Single         | 31' - 9"         | 41' - 9"         |

Notes to tables: Spans shown are for uniform loads only. Spans may be governed by other factors including deflection requirements, structural support gage, and support configuration. Consult Kingspan for specific project applications.

# QuadCore® KS Series

## Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 22 ga | Interior: 26 ga  
 Panel Width: 42"  
 Interior Design Load: +/- 5 psf

| Temperature Differential EXCLUDED |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 19' - 9"         | 22' - 11"        |
| 2.5"                              | Single         | 23' - 1"         | 25' - 8"         |
| 3"                                | Single         | 26' - 2"         | 28' - 2"         |
| 4"                                | Single         | 31' - 11"        | 32' - 9"         |
| 5"                                | Single         | 36' - 9"         | 36' - 9"         |
| 6"                                | Single         | 40' - 4"         | 40' - 4"         |
| 8"                                | Single         | 47' - 1"         | 47' - 1"         |

| Temperature Differential of 50°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 13' - 8"         | 17' - 6"         |
| 2.5"                             | Single         | 16' - 5"         | 20' - 10"        |
| 3"                               | Single         | 19' - 0"         | 24' - 0"         |
| 4"                               | Single         | 23' - 10"        | 29' - 11"        |
| 5"                               | Single         | 28' - 4"         | 35' - 4"         |
| 6"                               | Single         | 32' - 5"         | 40' - 4"         |
| 8"                               | Single         | 40' - 10"        | 47' - 1"         |

| Temperature Differential of 75°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 11' - 3"         | 15' - 1"         |
| 2.5"                             | Single         | 13' - 8"         | 18' - 2"         |
| 3"                               | Single         | 16' - 0"         | 21' - 1"         |
| 4"                               | Single         | 20' - 5"         | 26' - 7"         |
| 5"                               | Single         | 24' - 6"         | 31' - 8"         |
| 6"                               | Single         | 28' - 3"         | 36' - 5"         |
| 8"                               | Single         | 36' - 0"         | 45' - 11"        |

| Temperature Differential of 100°F |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 9' - 4"          | 13' - 0"         |
| 2.5"                              | Single         | 11' - 6"         | 15' - 10"        |
| 3"                                | Single         | 13' - 6"         | 18' - 6"         |
| 4"                                | Single         | 17' - 6"         | 23' - 7"         |
| 5"                                | Single         | 21' - 2"         | 28' - 4"         |
| 6"                                | Single         | 24' - 8"         | 32' - 10"        |
| 8"                                | Single         | 31' - 9"         | 41' - 9"         |

Notes to tables: Spans shown are for uniform loads only. Spans may be governed by other factors including deflection requirements, structural support gage, and support configuration. Consult Kingspan for specific project applications.

# QuadCore® KS Series

## Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 22 ga | Interior: 24 ga  
 Panel Width: 42"  
 Interior Design Load: +/- 5 psf

| Temperature Differential EXCLUDED |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 20' - 5"         | 23' - 10"        |
| 2.5"                              | Single         | 23' - 11"        | 27' - 10"        |
| 3"                                | Single         | 27' - 2"         | 31' - 0"         |
| 4"                                | Single         | 33' - 1"         | 36' - 0"         |
| 5"                                | Single         | 38' - 5"         | 40' - 5"         |
| 6"                                | Single         | 43' - 4"         | 44' - 4"         |
| 8"                                | Single         | 51' - 9"         | 51' - 9"         |

| Temperature Differential of 50°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 13' - 11"        | 17' - 11"        |
| 2.5"                             | Single         | 16' - 9"         | 21' - 4"         |
| 3"                               | Single         | 19' - 5"         | 24' - 8"         |
| 4"                               | Single         | 24' - 5"         | 30' - 9"         |
| 5"                               | Single         | 29' - 0"         | 36' - 4"         |
| 6"                               | Single         | 33' - 3"         | 41' - 6"         |
| 8"                               | Single         | 41' - 10"        | 51' - 9"         |

| Temperature Differential of 75°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 11' - 5"         | 15' - 4"         |
| 2.5"                             | Single         | 13' - 10"        | 18' - 6"         |
| 3"                               | Single         | 16' - 3"         | 21' - 6"         |
| 4"                               | Single         | 20' - 9"         | 27' - 2"         |
| 5"                               | Single         | 24' - 11"        | 32' - 5"         |
| 6"                               | Single         | 28' - 10"        | 37' - 4"         |
| 8"                               | Single         | 36' - 9"         | 47' - 1"         |

| Temperature Differential of 100°F |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 9' - 5"          | 13' - 2"         |
| 2.5"                              | Single         | 11' - 7"         | 16' - 0"         |
| 3"                                | Single         | 13' - 8"         | 18' - 9"         |
| 4"                                | Single         | 17' - 8"         | 24' - 0"         |
| 5"                                | Single         | 21' - 5"         | 28' - 10"        |
| 6"                                | Single         | 25' - 0"         | 33' - 5"         |
| 8"                                | Single         | 32' - 3"         | 42' - 7"         |

Notes to tables: Spans shown are for uniform loads only. Spans may be governed by other factors including deflection requirements, structural support gage, and support configuration. Consult Kingspan for specific project applications.

# QuadCore® KS Series

## Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 22 ga | Interior: 22 ga  
 Panel Width: 42"  
 Interior Design Load: +/- 5 psf

| Temperature Differential EXCLUDED |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 21' - 3"         | 24' - 9"         |
| 2.5"                              | Single         | 24' - 10"        | 28' - 11"        |
| 3"                                | Single         | 28' - 3"         | 32' - 10"        |
| 4"                                | Single         | 34' - 5"         | 40' - 1"         |
| 5"                                | Single         | 40' - 0"         | 45' - 3"         |
| 6"                                | Single         | 45' - 1"         | 49' - 9"         |
| 8"                                | Single         | 55' - 4"         | 58' - 0"         |

| Temperature Differential of 50°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 14' - 3"         | 18' - 5"         |
| 2.5"                             | Single         | 17' - 2"         | 22' - 0"         |
| 3"                               | Single         | 19' - 11"        | 25' - 4"         |
| 4"                               | Single         | 25' - 0"         | 31' - 8"         |
| 5"                               | Single         | 29' - 9"         | 37' - 5"         |
| 6"                               | Single         | 34' - 1"         | 42' - 9"         |
| 8"                               | Single         | 43' - 0"         | 53' - 6"         |

| Temperature Differential of 75°F |                |                  |                  |
|----------------------------------|----------------|------------------|------------------|
| Panel Thickness                  | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                               | Single         | 11' - 7"         | 15' - 8"         |
| 2.5"                             | Single         | 14' - 1"         | 18' - 11"        |
| 3"                               | Single         | 16' - 6"         | 22' - 0"         |
| 4"                               | Single         | 21' - 1"         | 27' - 10"        |
| 5"                               | Single         | 25' - 5"         | 33' - 3"         |
| 6"                               | Single         | 29' - 5"         | 38' - 3"         |
| 8"                               | Single         | 37' - 7"         | 48' - 4"         |

| Temperature Differential of 100°F |                |                  |                  |
|-----------------------------------|----------------|------------------|------------------|
| Panel Thickness                   | Span Condition | L/180 Deflection | L/120 Deflection |
| 2"                                | Single         | 9' - 6"          | 13' - 4"         |
| 2.5"                              | Single         | 11' - 8"         | 16' - 3"         |
| 3"                                | Single         | 13' - 10"        | 19' - 1"         |
| 4"                                | Single         | 17' - 11"        | 24' - 5"         |
| 5"                                | Single         | 21' - 9"         | 29' - 5"         |
| 6"                                | Single         | 25' - 4"         | 34' - 1"         |
| 8"                                | Single         | 32' - 9"         | 43' - 7"         |

Notes to tables: Spans shown are for uniform loads only. Spans may be governed by other factors including deflection requirements, structural support gage, and support configuration. Consult Kingspan for specific project applications.

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