

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



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

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

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

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

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

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

QuadCore® KS Series

Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 26 ga | Interior: 26ga

Panel Width: 42"

Interior Design Load: +/- 5 psf

Temperature Differential Excluded

Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Temperature Differential of 50°F

Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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' - 6"

Temperature Differential of 75°F

Panel Thickness	Span Condition	Deflection	
		L/180	L/120
2	Single	11' - 0"	14' - 7"
2.5	Single	13' - 4"	17' - 6"
3	Single	15' - 7"	20' - 4"
4	Single	19' - 10"	25' - 7"
5	Single	23' - 9"	30' - 6"
6	Single	27' - 5"	35' - 0"

Temperature Differential of 100°F

Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Notes to tables: Spans shown are for negative uniform loads only. Spans may be governed by other factors including temperature differentials, deflection requirements, structural support gage, or unequal spacing of secondary. Consult Kingspan for specific project applications.

QuadCore® KS Series

Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 24 ga | Interior: 26ga

Panel Width: 42"

Interior Design Load: +/- 5 psf

Temperature Differential Excluded			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

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

Temperature Differential of 50°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Temperature Differential of 100°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Notes to tables: Spans shown are for negative uniform loads only. Spans may be governed by other factors including temperature differentials, deflection requirements, structural support gage, or unequal spacing of secondary. Consult Kingspan for specific project applications.

QuadCore® KS Series

Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 24 ga | Interior: 24ga

Panel Width: 42"

Interior Design Load: +/- 5 psf

Temperature Differential Excluded			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Temperature Differential of 75°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Temperature Differential of 50°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Temperature Differential of 100°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Notes to tables: Spans shown are for negative uniform loads only. Spans may be governed by other factors including temperature differentials, deflection requirements, structural support gage, or unequal spacing of secondary. Consult Kingspan for specific project applications.

QuadCore® KS Series

Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 22 ga | Interior: 26ga

Panel Width: 42"

Interior Design Load: +/- 5 psf

Temperature Differential Excluded			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Temperature Differential of 75°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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' - 5"	31' - 8"
6	Single	28' - 3"	36' - 5"

Temperature Differential of 50°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

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

Notes to tables: Spans shown are for negative uniform loads only. Spans may be governed by other factors including temperature differentials, deflection requirements, structural support gage, or unequal spacing of secondary. Consult Kingspan for specific project applications.

QuadCore® KS Series

Allowable Load / Span Tables

Shadowline / Flat



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

Temperature Differential Excluded			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Temperature Differential of 75°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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' - 3"

Temperature Differential of 50°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Temperature Differential of 100°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Notes to tables: Spans shown are for negative uniform loads only. Spans may be governed by other factors including temperature differentials, deflection requirements, structural support gage, or unequal spacing of secondary. Consult Kingspan for specific project applications.

QuadCore® KS Series

Allowable Load / Span Tables

Shadowline / Flat



Facer Gauges: Exterior: 22 ga | Interior: 22ga

Panel Width: 42"

Interior Design Load: +/- 5 psf

Temperature Differential Excluded			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Temperature Differential of 75°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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' - 4"	38' - 3"

Temperature Differential of 50°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
2	Single	14' - 3"	18' - 5"
2.5	Single	17' - 1"	21' - 11"
3	Single	19' - 10"	25' - 4"
4	Single	25' - 0"	31' - 8"
5	Single	29' - 9"	37' - 5"
6	Single	34' - 1"	42' - 9"

Temperature Differential of 100°F			
Panel Thickness	Span Condition	Deflection	
		L/180	L/120
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"

Notes to tables: Spans shown are for negative uniform loads only. Spans may be governed by other factors including temperature differentials, deflection requirements, structural support gage, or unequal spacing of secondary. Consult Kingspan for specific project applications.

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