

QuadCore® KS Series
Leo-Klip+™
Load / Span Tables



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QuadCore® KS Series

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

24" Wide 12ga Steel Support 22/22								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 11"	10' - 8"	9' - 9"	9' - 0"	8' - 4"	7' - 9"	7' - 3"
	Double	14' - 3"	12' - 1"	10' - 3"	8' - 10"	7' - 10"	7' - 0"	6' - 5"
	Multiple	13' - 10"	12' - 3"	10' - 4"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	14' - 0"	12' - 7"	11' - 6"	10' - 7"	9' - 10"	9' - 2"	8' - 7"
	Double	16' - 10"	14' - 10"	12' - 8"	11' - 0"	9' - 8"	8' - 9"	7' - 11"
	Multiple	16' - 4"	14' - 6"	12' - 10"	11' - 0"	9' - 9"	8' - 8"	7' - 10"
3"	Single	15' - 11"	14' - 4"	13' - 1"	12' - 1"	11' - 2"	10' - 6"	9' - 10"
	Double	18' - 11"	16' - 0"	13' - 6"	11' - 9"	10' - 4"	9' - 4"	8' - 6"
	Multiple	18' - 7"	16' - 6"	14' - 9"	12' - 8"	11' - 1"	9' - 11"	8' - 11"
4"	Single	19' - 6"	17' - 6"	16' - 0"	14' - 9"	13' - 8"	12' - 9"	11' - 10"
	Double	20' - 0"	16' - 3"	13' - 9"	11' - 11"	10' - 7"	9' - 6"	8' - 8"
	Multiple	20' - 0"	17' - 8"	14' - 10"	12' - 9"	11' - 2"	10' - 0"	9' - 0"
5"	Single	22' - 7"	20' - 3"	18' - 5"	17' - 0"	15' - 1"	13' - 5"	12' - 1"
	Double	20' - 3"	16' - 6"	13' - 11"	12' - 2"	10' - 9"	9' - 8"	8' - 9"
	Multiple	20' - 0"	17' - 9"	14' - 10"	12' - 9"	11' - 3"	10' - 0"	9' - 1"
6"	Single	25' - 3"	22' - 7"	19' - 9"	16' - 11"	14' - 9"	13' - 2"	11' - 10"
	Double	20' - 6"	16' - 9"	14' - 2"	12' - 4"	10' - 11"	9' - 10"	8' - 11"
	Multiple	20' - 0"	17' - 10"	14' - 11"	12' - 10"	11' - 4"	10' - 1"	9' - 1"

Deflection limit: L/180

Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 Fastening Method: End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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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QuadCore® KS Series

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

24" Wide 12ga Steel Support 22/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 6"	10' - 4"	9' - 5"	8' - 8"	8' - 1"	7' - 7"	7' - 1"
	Double	13' - 8"	12' - 2"	10' - 3"	8' - 10"	7' - 10"	7' - 0"	6' - 5"
	Multiple	13' - 5"	11' - 11"	10' - 4"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	13' - 6"	12' - 2"	11' - 1"	10' - 3"	9' - 6"	8' - 11"	8' - 5"
	Double	15' - 5"	14' - 0"	12' - 8"	10' - 11"	9' - 8"	8' - 8"	7' - 11"
	Multiple	15' - 10"	14' - 1"	12' - 9"	11' - 1"	9' - 9"	8' - 8"	7' - 10"
3"	Single	15' - 5"	13' - 10"	12' - 8"	11' - 8"	10' - 11"	10' - 2"	9' - 7"
	Double	17' - 0"	15' - 5"	13' - 5"	11' - 8"	10' - 4"	9' - 3"	8' - 5"
	Multiple	18' - 0"	16' - 0"	14' - 6"	12' - 8"	11' - 1"	9' - 11"	8' - 11"
4"	Single	18' - 3"	16' - 3"	14' - 10"	13' - 9"	12' - 10"	12' - 2"	11' - 6"
	Double	19' - 11"	16' - 2"	13' - 8"	11' - 10"	10' - 6"	9' - 5"	8' - 7"
	Multiple	20' - 0"	17' - 8"	14' - 9"	12' - 8"	11' - 2"	9' - 11"	9' - 0"
5"	Single	20' - 6"	18' - 4"	16' - 9"	15' - 6"	14' - 6"	13' - 5"	12' - 1"
	Double	20' - 2"	16' - 5"	13' - 10"	12' - 1"	10' - 8"	9' - 7"	8' - 9"
	Multiple	20' - 0"	17' - 9"	14' - 10"	12' - 9"	11' - 3"	10' - 0"	9' - 0"
6"	Single	22' - 7"	20' - 2"	18' - 5"	16' - 11"	14' - 9"	13' - 2"	11' - 10"
	Double	20' - 5"	16' - 7"	14' - 1"	12' - 3"	10' - 10"	9' - 9"	8' - 10"
	Multiple	20' - 0"	17' - 10"	14' - 11"	12' - 10"	11' - 3"	10' - 1"	9' - 1"

Deflection limit: L/180

Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 Fastening Method: End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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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QuadCore® KS Series

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

24" Wide 12ga Steel Support 22/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 1"	9' - 2"	8' - 6"	7' - 11"	7' - 5"	6' - 11"
	Double	12' - 7"	11' - 5"	10' - 3"	8' - 10"	7' - 10"	7' - 0"	6' - 5"
	Multiple	13' - 1"	11' - 7"	10' - 5"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	13' - 0"	11' - 7"	10' - 7"	9' - 10"	9' - 2"	8' - 8"	8' - 2"
	Double	14' - 1"	12' - 10"	11' - 11"	10' - 11"	9' - 8"	8' - 8"	7' - 11"
	Multiple	15' - 0"	13' - 6"	12' - 5"	11' - 1"	9' - 9"	8' - 8"	7' - 10"
3"	Single	14' - 3"	12' - 9"	11' - 8"	10' - 9"	10' - 1"	9' - 6"	9' - 0"
	Double	15' - 7"	14' - 2"	13' - 2"	11' - 7"	10' - 3"	9' - 2"	8' - 4"
	Multiple	16' - 6"	14' - 10"	13' - 8"	12' - 8"	11' - 1"	9' - 10"	8' - 11"
4"	Single	16' - 7"	14' - 10"	13' - 6"	12' - 6"	11' - 9"	11' - 1"	10' - 6"
	Double	18' - 3"	16' - 1"	13' - 7"	11' - 10"	10' - 5"	9' - 5"	8' - 6"
	Multiple	19' - 3"	17' - 4"	14' - 9"	12' - 8"	11' - 2"	9' - 11"	9' - 0"
5"	Single	18' - 8"	16' - 8"	15' - 3"	14' - 1"	13' - 2"	12' - 5"	11' - 9"
	Double	20' - 1"	16' - 4"	13' - 10"	12' - 0"	10' - 7"	9' - 7"	8' - 8"
	Multiple	20' - 0"	17' - 9"	14' - 10"	12' - 9"	11' - 2"	10' - 0"	9' - 0"
6"	Single	20' - 6"	18' - 4"	16' - 9"	15' - 6"	14' - 6"	13' - 2"	11' - 10"
	Double	20' - 4"	16' - 6"	14' - 0"	12' - 2"	10' - 9"	9' - 8"	8' - 10"
	Multiple	20' - 0"	17' - 9"	14' - 10"	12' - 10"	11' - 3"	10' - 1"	9' - 1"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) ¼-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) ¼-14 HWH fasteners and (1) ¼-14 x 7/8" stitch fastener plus (2) ¼-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 24 ga
Interior: 24 ga
Steel Support: 12 ga, grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

24" Wide 12ga Steel Support 24/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 1"	9' - 2"	8' - 6"	7' - 11"	7' - 5"	6' - 11"
	Double	13' - 6"	11' - 11"	10' - 1"	8' - 9"	7' - 9"	6' - 11"	6' - 4"
	Multiple	13' - 1"	11' - 7"	10' - 3"	8' - 10"	7' - 9"	6' - 11"	6' - 3"
2.5"	Single	13' - 2"	11' - 10"	10' - 10"	10' - 0"	9' - 4"	8' - 9"	8' - 3"
	Double	15' - 3"	13' - 10"	12' - 7"	10' - 10"	9' - 7"	8' - 7"	7' - 10"
	Multiple	15' - 4"	13' - 8"	12' - 5"	11' - 0"	9' - 8"	8' - 7"	7' - 9"
3"	Single	15' - 0"	13' - 6"	12' - 4"	11' - 5"	10' - 7"	9' - 11"	9' - 4"
	Double	16' - 10"	15' - 3"	13' - 5"	11' - 7"	10' - 3"	9' - 3"	8' - 4"
	Multiple	17' - 6"	15' - 8"	14' - 2"	12' - 8"	11' - 1"	9' - 10"	8' - 11"
4"	Single	18' - 2"	16' - 3"	14' - 10"	13' - 9"	12' - 10"	12' - 0"	10' - 10"
	Double	19' - 9"	16' - 1"	13' - 7"	11' - 10"	10' - 5"	9' - 5"	8' - 6"
	Multiple	20' - 0"	17' - 8"	14' - 9"	12' - 8"	11' - 2"	9' - 11"	9' - 0"
5"	Single	20' - 5"	18' - 3"	16' - 8"	15' - 5"	13' - 10"	12' - 4"	11' - 1"
	Double	20' - 1"	16' - 4"	13' - 10"	12' - 0"	10' - 8"	9' - 7"	8' - 8"
	Multiple	20' - 0"	17' - 9"	14' - 10"	12' - 9"	11' - 2"	10' - 0"	9' - 0"
6"	Single	22' - 6"	20' - 2"	18' - 1"	15' - 6"	13' - 6"	12' - 0"	10' - 10"
	Double	20' - 4"	16' - 6"	14' - 0"	12' - 2"	10' - 10"	9' - 8"	8' - 10"
	Multiple	20' - 0"	17' - 9"	14' - 10"	12' - 10"	11' - 3"	10' - 1"	9' - 1"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 24 ga
Interior: 26 ga
Steel Support: 12 ga, grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

24" Wide 12ga Steel Support 24/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 10"	9' - 9"	8' - 11"	8' - 3"	7' - 8"	7' - 3"	6' - 10"
	Double	12' - 5"	11' - 3"	10' - 1"	8' - 9"	7' - 9"	6' - 11"	6' - 4"
	Multiple	12' - 9"	11' - 4"	10' - 3"	8' - 10"	7' - 9"	6' - 11"	6' - 3"
2.5"	Single	12' - 9"	11' - 6"	10' - 6"	9' - 9"	9' - 1"	8' - 6"	8' - 0"
	Double	13' - 11"	12' - 8"	11' - 9"	10' - 10"	9' - 7"	8' - 7"	7' - 10"
	Multiple	14' - 10"	13' - 4"	12' - 1"	11' - 0"	9' - 8"	8' - 7"	7' - 9"
3"	Single	14' - 2"	12' - 8"	11' - 7"	10' - 9"	10' - 0"	9' - 5"	9' - 0"
	Double	15' - 5"	14' - 0"	13' - 0"	11' - 7"	10' - 3"	9' - 2"	8' - 4"
	Multiple	16' - 5"	14' - 9"	13' - 7"	12' - 7"	11' - 1"	9' - 10"	8' - 11"
4"	Single	16' - 7"	14' - 10"	13' - 6"	12' - 6"	11' - 8"	11' - 0"	10' - 5"
	Double	18' - 1"	16' - 1"	13' - 7"	11' - 9"	10' - 5"	9' - 4"	8' - 6"
	Multiple	19' - 2"	17' - 3"	14' - 9"	12' - 8"	11' - 1"	9' - 11"	8' - 11"
5"	Single	18' - 7"	16' - 8"	15' - 2"	14' - 1"	13' - 2"	12' - 4"	11' - 1"
	Double	20' - 0"	16' - 3"	13' - 9"	11' - 11"	10' - 7"	9' - 6"	8' - 8"
	Multiple	20' - 0"	17' - 8"	14' - 10"	12' - 9"	11' - 2"	10' - 0"	9' - 0"
6"	Single	20' - 6"	18' - 4"	16' - 9"	15' - 6"	13' - 6"	12' - 0"	10' - 10"
	Double	20' - 3"	16' - 6"	13' - 11"	12' - 1"	10' - 9"	9' - 8"	8' - 9"
	Multiple	20' - 0"	17' - 9"	14' - 10"	12' - 9"	11' - 3"	10' - 0"	9' - 1"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) ¼-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) ¼-14 HWH fasteners and (1) ¼-14 x 7/8" stitch fastener plus (2) ¼-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 26 ga
Interior: 26 ga
Steel Support: 12 ga, grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

24" Wide 12ga Steel Support 26/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 7"	9' - 7"	8' - 9"	8' - 1"	7' - 6"	7' - 1"	6' - 8"
	Double	12' - 3"	11' - 1"	10' - 0"	8' - 8"	7' - 8"	6' - 10"	6' - 3"
	Multiple	12' - 5"	11' - 1"	10' - 1"	8' - 9"	7' - 8"	6' - 10"	6' - 3"
2.5"	Single	12' - 5"	11' - 3"	10' - 4"	9' - 6"	8' - 11"	8' - 4"	7' - 10"
	Double	13' - 10"	12' - 7"	11' - 4"	9' - 10"	8' - 8"	7' - 10"	7' - 1"
	Multiple	14' - 8"	13' - 1"	11' - 10"	10' - 9"	9' - 5"	8' - 5"	7' - 7"
3"	Single	14' - 2"	12' - 8"	11' - 7"	10' - 8"	10' - 0"	9' - 5"	8' - 11"
	Double	15' - 4"	13' - 11"	12' - 1"	10' - 6"	9' - 3"	8' - 4"	7' - 7"
	Multiple	16' - 4"	14' - 8"	13' - 3"	11' - 5"	10' - 0"	8' - 11"	8' - 0"
4"	Single	16' - 6"	14' - 9"	13' - 6"	12' - 6"	11' - 8"	10' - 11"	9' - 10"
	Double	17' - 11"	15' - 8"	13' - 3"	11' - 6"	10' - 2"	9' - 1"	8' - 3"
	Multiple	19' - 1"	17' - 2"	14' - 5"	12' - 5"	10' - 10"	9' - 8"	8' - 9"
5"	Single	18' - 7"	16' - 7"	15' - 2"	14' - 0"	12' - 7"	11' - 2"	10' - 1"
	Double	20' - 0"	16' - 2"	13' - 8"	11' - 11"	10' - 6"	9' - 6"	8' - 7"
	Multiple	20' - 0"	17' - 8"	14' - 9"	12' - 9"	11' - 2"	9' - 11"	9' - 0"
6"	Single	20' - 6"	18' - 4"	16' - 5"	14' - 1"	12' - 3"	10' - 11"	9' - 10"
	Double	20' - 2"	16' - 5"	13' - 11"	12' - 1"	10' - 8"	9' - 7"	8' - 9"
	Multiple	20' - 0"	17' - 9"	14' - 10"	12' - 9"	11' - 3"	10' - 0"	9' - 0"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) ¼-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) ¼-14 HWH fasteners and (1) ¼-14 x 7/8" stitch fastener plus (2) ¼-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

24" Wide 1/4" Steel Support 22/22								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 11"	10' - 8"	9' - 9"	9' - 0"	8' - 4"	7' - 9"	7' - 3"
	Double	14' - 3"	12' - 1"	10' - 3"	8' - 10"	7' - 10"	7' - 0"	6' - 5"
	Multiple	13' - 10"	12' - 3"	10' - 4"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	14' - 0"	12' - 7"	11' - 6"	10' - 7"	9' - 10"	9' - 2"	8' - 7"
	Double	16' - 10"	14' - 10"	12' - 8"	11' - 0"	9' - 8"	8' - 9"	7' - 11"
	Multiple	16' - 4"	14' - 6"	12' - 10"	11' - 0"	9' - 9"	8' - 8"	7' - 10"
3"	Single	15' - 11"	14' - 4"	13' - 1"	12' - 1"	11' - 2"	10' - 6"	9' - 10"
	Double	18' - 11"	16' - 11"	14' - 11"	12' - 11"	11' - 5"	10' - 3"	9' - 4"
	Multiple	18' - 7"	16' - 6"	14' - 11"	13' - 3"	11' - 8"	10' - 5"	9' - 5"
4"	Single	19' - 6"	17' - 6"	16' - 0"	14' - 9"	13' - 8"	12' - 9"	11' - 10"
	Double	22' - 2"	19' - 0"	16' - 1"	13' - 11"	12' - 4"	11' - 1"	10' - 1"
	Multiple	20' - 0"	20' - 0"	17' - 6"	15' - 0"	13' - 2"	11' - 9"	10' - 7"
5"	Single	22' - 7"	20' - 3"	18' - 5"	17' - 0"	15' - 1"	13' - 5"	12' - 1"
	Double	25' - 1"	20' - 4"	17' - 2"	14' - 11"	13' - 3"	11' - 11"	10' - 10"
	Multiple	20' - 0"	20' - 0"	18' - 7"	16' - 0"	14' - 0"	12' - 6"	11' - 3"
6"	Single	25' - 3"	22' - 7"	19' - 9"	16' - 11"	14' - 9"	13' - 2"	11' - 10"
	Double	26' - 3"	21' - 4"	18' - 1"	15' - 8"	13' - 11"	12' - 6"	11' - 4"
	Multiple	20' - 0"	20' - 0"	19' - 4"	16' - 8"	14' - 8"	13' - 1"	11' - 9"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 22 ga
Interior: 24 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

24" Wide 1/4" Steel Support 22/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 6"	10' - 4"	9' - 5"	8' - 8"	8' - 1"	7' - 7"	7' - 1"
	Double	13' - 8"	12' - 2"	10' - 3"	8' - 10"	7' - 10"	7' - 0"	6' - 5"
	Multiple	13' - 5"	11' - 11"	10' - 4"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	13' - 6"	12' - 2"	11' - 1"	10' - 3"	9' - 6"	8' - 11"	8' - 5"
	Double	15' - 5"	14' - 0"	12' - 8"	10' - 11"	9' - 8"	8' - 8"	7' - 11"
	Multiple	15' - 10"	14' - 1"	12' - 9"	11' - 1"	9' - 9"	8' - 8"	7' - 10"
3"	Single	15' - 5"	13' - 10"	12' - 8"	11' - 8"	10' - 11"	10' - 2"	9' - 7"
	Double	17' - 0"	15' - 5"	14' - 4"	12' - 10"	11' - 4"	10' - 2"	9' - 3"
	Multiple	18' - 0"	16' - 0"	14' - 6"	13' - 3"	11' - 8"	10' - 5"	9' - 5"
4"	Single	18' - 3"	16' - 3"	14' - 10"	13' - 9"	12' - 10"	12' - 2"	11' - 6"
	Double	19' - 11"	18' - 2"	16' - 0"	13' - 10"	12' - 3"	11' - 0"	10' - 0"
	Multiple	20' - 0"	19' - 0"	17' - 5"	15' - 0"	13' - 2"	11' - 9"	10' - 7"
5"	Single	20' - 6"	18' - 4"	16' - 9"	15' - 6"	14' - 6"	13' - 5"	12' - 1"
	Double	22' - 8"	20' - 3"	17' - 1"	14' - 10"	13' - 2"	11' - 10"	10' - 9"
	Multiple	20' - 0"	20' - 0"	18' - 7"	15' - 11"	14' - 0"	12' - 6"	11' - 3"
6"	Single	22' - 7"	20' - 2"	18' - 5"	16' - 11"	14' - 9"	13' - 2"	11' - 10"
	Double	25' - 2"	21' - 3"	17' - 11"	15' - 7"	13' - 10"	12' - 5"	11' - 3"
	Multiple	20' - 0"	20' - 0"	19' - 4"	16' - 7"	14' - 7"	13' - 0"	11' - 9"

Deflection limit:	L/180
Fastening Method:	Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal differential:	EXCLUDED
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 22 ga
Interior: 26 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

24" Wide 1/4" Steel Support 22/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 1"	9' - 2"	8' - 6"	7' - 11"	7' - 5"	6' - 11"
	Double	12' - 7"	11' - 5"	10' - 3"	8' - 10"	7' - 10"	7' - 0"	6' - 5"
	Multiple	13' - 1"	11' - 7"	10' - 5"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	13' - 0"	11' - 7"	10' - 7"	9' - 10"	9' - 2"	8' - 8"	8' - 2"
	Double	14' - 1"	12' - 10"	11' - 11"	10' - 11"	9' - 8"	8' - 8"	7' - 11"
	Multiple	15' - 0"	13' - 6"	12' - 5"	11' - 1"	9' - 9"	8' - 8"	7' - 10"
3"	Single	14' - 3"	12' - 9"	11' - 8"	10' - 9"	10' - 1"	9' - 6"	9' - 0"
	Double	15' - 7"	14' - 2"	13' - 2"	12' - 4"	11' - 3"	10' - 1"	9' - 2"
	Multiple	16' - 6"	14' - 10"	13' - 8"	12' - 9"	11' - 8"	10' - 5"	9' - 5"
4"	Single	16' - 7"	14' - 10"	13' - 6"	12' - 6"	11' - 9"	11' - 1"	10' - 6"
	Double	18' - 3"	16' - 7"	15' - 5"	13' - 10"	12' - 2"	10' - 11"	9' - 11"
	Multiple	19' - 3"	17' - 4"	16' - 0"	14' - 11"	13' - 2"	11' - 8"	10' - 7"
5"	Single	18' - 8"	16' - 8"	15' - 3"	14' - 1"	13' - 2"	12' - 5"	11' - 9"
	Double	20' - 9"	18' - 10"	17' - 0"	14' - 9"	13' - 1"	11' - 9"	10' - 8"
	Multiple	20' - 0"	19' - 7"	18' - 0"	15' - 11"	14' - 0"	12' - 5"	11' - 3"
6"	Single	20' - 6"	18' - 4"	16' - 9"	15' - 6"	14' - 6"	13' - 2"	11' - 10"
	Double	23' - 0"	21' - 0"	17' - 10"	15' - 6"	13' - 9"	12' - 4"	11' - 3"
	Multiple	20' - 0"	20' - 0"	19' - 4"	16' - 7"	14' - 7"	13' - 0"	11' - 9"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 24 ga
Interior: 24 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

24" Wide 1/4" Steel Support 24/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 1"	9' - 2"	8' - 6"	7' - 11"	7' - 5"	6' - 11"
	Double	13' - 6"	11' - 11"	10' - 1"	8' - 9"	7' - 9"	6' - 11"	6' - 4"
	Multiple	13' - 1"	11' - 7"	10' - 3"	8' - 10"	7' - 9"	6' - 11"	6' - 3"
2.5"	Single	13' - 2"	11' - 10"	10' - 10"	10' - 0"	9' - 4"	8' - 9"	8' - 3"
	Double	15' - 3"	13' - 10"	12' - 7"	10' - 10"	9' - 7"	8' - 7"	7' - 10"
	Multiple	15' - 4"	13' - 8"	12' - 5"	11' - 0"	9' - 8"	8' - 7"	7' - 9"
3"	Single	15' - 0"	13' - 6"	12' - 4"	11' - 5"	10' - 7"	9' - 11"	9' - 4"
	Double	16' - 10"	15' - 3"	13' - 6"	11' - 8"	10' - 4"	9' - 3"	8' - 5"
	Multiple	17' - 6"	15' - 8"	14' - 2"	12' - 8"	11' - 2"	9' - 11"	8' - 11"
4"	Single	18' - 2"	16' - 3"	14' - 10"	13' - 9"	12' - 10"	12' - 0"	10' - 10"
	Double	19' - 9"	17' - 4"	14' - 7"	12' - 8"	11' - 3"	10' - 1"	9' - 2"
	Multiple	20' - 0"	18' - 11"	15' - 11"	13' - 8"	12' - 0"	10' - 8"	9' - 8"
5"	Single	20' - 5"	18' - 3"	16' - 8"	15' - 5"	13' - 10"	12' - 4"	11' - 1"
	Double	22' - 5"	18' - 7"	15' - 9"	13' - 8"	12' - 1"	10' - 10"	9' - 11"
	Multiple	20' - 0"	20' - 0"	17' - 0"	14' - 8"	12' - 10"	11' - 5"	10' - 4"
6"	Single	22' - 6"	20' - 2"	18' - 1"	15' - 6"	13' - 6"	12' - 0"	10' - 10"
	Double	24' - 1"	19' - 7"	16' - 7"	14' - 5"	12' - 9"	11' - 6"	10' - 5"
	Multiple	20' - 0"	20' - 0"	17' - 10"	15' - 4"	13' - 5"	12' - 0"	10' - 10"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 24 ga
Interior: 26 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

24" Wide 1/4" Steel Support 24/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 10"	9' - 9"	8' - 11"	8' - 3"	7' - 8"	7' - 3"	6' - 10"
	Double	12' - 5"	11' - 3"	10' - 1"	8' - 9"	7' - 9"	6' - 11"	6' - 4"
	Multiple	12' - 9"	11' - 4"	10' - 3"	8' - 10"	7' - 9"	6' - 11"	6' - 3"
2.5"	Single	12' - 9"	11' - 6"	10' - 6"	9' - 9"	9' - 1"	8' - 6"	8' - 0"
	Double	13' - 11"	12' - 8"	11' - 9"	10' - 10"	9' - 7"	8' - 7"	7' - 10"
	Multiple	14' - 10"	13' - 4"	12' - 1"	11' - 0"	9' - 8"	8' - 7"	7' - 9"
3"	Single	14' - 2"	12' - 8"	11' - 7"	10' - 9"	10' - 0"	9' - 5"	9' - 0"
	Double	15' - 5"	14' - 0"	13' - 0"	11' - 7"	10' - 3"	9' - 3"	8' - 4"
	Multiple	16' - 5"	14' - 9"	13' - 7"	12' - 7"	11' - 2"	9' - 11"	8' - 11"
4"	Single	16' - 7"	14' - 10"	13' - 6"	12' - 6"	11' - 8"	11' - 0"	10' - 5"
	Double	18' - 1"	16' - 5"	14' - 7"	12' - 8"	11' - 2"	10' - 0"	9' - 1"
	Multiple	19' - 2"	17' - 3"	15' - 10"	13' - 8"	12' - 0"	10' - 8"	9' - 8"
5"	Single	18' - 7"	16' - 8"	15' - 2"	14' - 1"	13' - 2"	12' - 4"	11' - 1"
	Double	20' - 6"	18' - 7"	15' - 8"	13' - 7"	12' - 0"	10' - 10"	9' - 10"
	Multiple	20' - 0"	19' - 6"	17' - 0"	14' - 7"	12' - 10"	11' - 5"	10' - 4"
6"	Single	20' - 6"	18' - 4"	16' - 9"	15' - 6"	13' - 6"	12' - 0"	10' - 10"
	Double	22' - 10"	19' - 6"	16' - 6"	14' - 4"	12' - 8"	11' - 5"	10' - 4"
	Multiple	20' - 0"	20' - 0"	17' - 9"	15' - 4"	13' - 5"	12' - 0"	10' - 10"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 26 ga
 Interior: 26 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

24" Wide 1/4" Steel Support 26/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 7"	9' - 7"	8' - 9"	8' - 1"	7' - 6"	7' - 1"	6' - 8"
	Double	12' - 3"	11' - 1"	10' - 0"	8' - 8"	7' - 8"	6' - 10"	6' - 3"
	Multiple	12' - 5"	11' - 1"	10' - 1"	8' - 9"	7' - 8"	6' - 10"	6' - 3"
2.5"	Single	12' - 5"	11' - 3"	10' - 4"	9' - 6"	8' - 11"	8' - 4"	7' - 10"
	Double	13' - 10"	12' - 7"	11' - 4"	9' - 10"	8' - 8"	7' - 10"	7' - 1"
	Multiple	14' - 8"	13' - 1"	11' - 10"	10' - 9"	9' - 5"	8' - 5"	7' - 7"
3"	Single	14' - 2"	12' - 8"	11' - 7"	10' - 8"	10' - 0"	9' - 5"	8' - 11"
	Double	15' - 4"	13' - 11"	12' - 1"	10' - 6"	9' - 3"	8' - 4"	7' - 7"
	Multiple	16' - 4"	14' - 8"	13' - 3"	11' - 5"	10' - 0"	8' - 11"	8' - 0"
4"	Single	16' - 6"	14' - 9"	13' - 6"	12' - 6"	11' - 8"	10' - 11"	9' - 10"
	Double	17' - 11"	15' - 8"	13' - 3"	11' - 6"	10' - 2"	9' - 1"	8' - 3"
	Multiple	19' - 1"	17' - 2"	14' - 5"	12' - 5"	10' - 10"	9' - 8"	8' - 9"
5"	Single	18' - 7"	16' - 7"	15' - 2"	14' - 0"	12' - 7"	11' - 2"	10' - 1"
	Double	20' - 4"	17' - 0"	14' - 4"	12' - 5"	11' - 0"	9' - 11"	9' - 0"
	Multiple	20' - 0"	18' - 7"	15' - 6"	13' - 4"	11' - 8"	10' - 5"	9' - 5"
6"	Single	20' - 6"	18' - 4"	16' - 5"	14' - 1"	12' - 3"	10' - 11"	9' - 10"
	Double	22' - 1"	17' - 11"	15' - 2"	13' - 2"	11' - 8"	10' - 6"	9' - 6"
	Multiple	20' - 0"	19' - 6"	16' - 3"	14' - 0"	12' - 4"	11' - 0"	9' - 11"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 22 ga
Interior: 22 ga
Steel Support: 12 ga, grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

42" Wide 12ga Steel Support 22/22								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 10"	10' - 8"	9' - 8"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	11' - 1"	9' - 0"	7' - 7"	6' - 7"	5' - 10"	5' - 3"	4' - 9"
	Multiple	12' - 1"	9' - 9"	8' - 2"	7' - 0"	6' - 2"	5' - 6"	4' - 11"
2.5"	Single	13' - 11"	12' - 6"	11' - 5"	9' - 10"	8' - 7"	7' - 8"	6' - 10"
	Double	11' - 7"	9' - 5"	8' - 0"	6' - 11"	6' - 2"	5' - 6"	5' - 0"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
3"	Single	15' - 10"	14' - 3"	12' - 6"	10' - 8"	9' - 4"	8' - 4"	7' - 6"
	Double	11' - 8"	9' - 6"	8' - 1"	7' - 0"	6' - 3"	5' - 7"	5' - 1"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
4"	Single	19' - 3"	16' - 5"	13' - 8"	11' - 8"	10' - 3"	9' - 1"	8' - 2"
	Double	11' - 11"	9' - 9"	8' - 3"	7' - 2"	6' - 4"	5' - 8"	5' - 2"
	Multiple	12' - 9"	10' - 3"	8' - 7"	7' - 5"	6' - 6"	5' - 10"	5' - 3"
5"	Single	20' - 10"	16' - 8"	13' - 11"	11' - 11"	10' - 5"	9' - 3"	8' - 4"
	Double	12' - 1"	9' - 11"	8' - 5"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	12' - 9"	10' - 4"	8' - 8"	7' - 5"	6' - 7"	5' - 10"	5' - 3"
6"	Single	19' - 11"	15' - 11"	13' - 3"	11' - 4"	9' - 11"	8' - 10"	7' - 11"
	Double	12' - 4"	10' - 1"	8' - 6"	7' - 5"	6' - 6"	5' - 10"	5' - 3"
	Multiple	12' - 10"	10' - 4"	8' - 8"	7' - 6"	6' - 7"	5' - 11"	5' - 4"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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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QuadCore® KS Series

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

42" Wide | 12ga Steel Support | 22/24

Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 6"	10' - 4"	9' - 5"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	11' - 0"	8' - 11"	7' - 7"	6' - 7"	5' - 10"	5' - 3"	4' - 9"
	Multiple	12' - 1"	9' - 9"	8' - 1"	7' - 0"	6' - 2"	5' - 6"	4' - 11"
2.5"	Single	13' - 5"	12' - 1"	11' - 1"	9' - 10"	8' - 7"	7' - 8"	6' - 10"
	Double	11' - 7"	9' - 5"	7' - 11"	6' - 11"	6' - 1"	5' - 6"	5' - 0"
	Multiple	12' - 7"	10' - 2"	8' - 6"	7' - 3"	6' - 5"	5' - 9"	5' - 2"
3"	Single	15' - 4"	13' - 9"	12' - 6"	10' - 8"	9' - 4"	8' - 4"	7' - 6"
	Double	11' - 8"	9' - 6"	8' - 0"	7' - 0"	6' - 2"	5' - 7"	5' - 1"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
4"	Single	18' - 0"	16' - 1"	13' - 8"	11' - 8"	10' - 3"	9' - 1"	8' - 2"
	Double	11' - 10"	9' - 8"	8' - 2"	7' - 2"	6' - 4"	5' - 8"	5' - 2"
	Multiple	12' - 8"	10' - 3"	8' - 7"	7' - 4"	6' - 6"	5' - 9"	5' - 3"
5"	Single	20' - 2"	16' - 8"	13' - 11"	11' - 11"	10' - 5"	9' - 3"	8' - 4"
	Double	12' - 0"	9' - 10"	8' - 4"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	12' - 9"	10' - 3"	8' - 7"	7' - 5"	6' - 6"	5' - 10"	5' - 3"
6"	Single	19' - 11"	15' - 11"	13' - 3"	11' - 4"	9' - 11"	8' - 10"	7' - 11"
	Double	12' - 3"	10' - 0"	8' - 6"	7' - 4"	6' - 6"	5' - 10"	5' - 3"
	Multiple	12' - 10"	10' - 4"	8' - 8"	7' - 6"	6' - 7"	5' - 10"	5' - 4"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

42" Wide 12ga Steel Support 22/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 1"	10' - 0"	9' - 2"	8' - 5"	7' - 6"	6' - 8"	6' - 0"
	Double	11' - 0"	8' - 11"	7' - 6"	6' - 6"	5' - 9"	5' - 2"	4' - 9"
	Multiple	12' - 1"	9' - 8"	8' - 1"	7' - 0"	6' - 1"	5' - 5"	4' - 11"
2.5"	Single	12' - 10"	11' - 5"	10' - 5"	9' - 8"	8' - 7"	7' - 8"	6' - 10"
	Double	11' - 6"	9' - 4"	7' - 11"	6' - 10"	6' - 1"	5' - 6"	5' - 0"
	Multiple	12' - 7"	10' - 1"	8' - 5"	7' - 3"	6' - 5"	5' - 8"	5' - 2"
3"	Single	14' - 1"	12' - 7"	11' - 6"	10' - 8"	9' - 4"	8' - 4"	7' - 6"
	Double	11' - 7"	9' - 5"	8' - 0"	6' - 11"	6' - 2"	5' - 6"	5' - 0"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
4"	Single	16' - 4"	14' - 7"	13' - 4"	11' - 8"	10' - 3"	9' - 1"	8' - 2"
	Double	11' - 9"	9' - 7"	8' - 2"	7' - 1"	6' - 3"	5' - 8"	5' - 1"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 6"	5' - 9"	5' - 3"
5"	Single	18' - 4"	16' - 5"	13' - 11"	11' - 11"	10' - 5"	9' - 3"	8' - 4"
	Double	12' - 0"	9' - 9"	8' - 3"	7' - 3"	6' - 5"	5' - 9"	5' - 2"
	Multiple	12' - 9"	10' - 3"	8' - 7"	7' - 5"	6' - 6"	5' - 10"	5' - 3"
6"	Single	19' - 11"	15' - 11"	13' - 3"	11' - 4"	9' - 11"	8' - 10"	7' - 11"
	Double	12' - 2"	9' - 11"	8' - 5"	7' - 4"	6' - 6"	5' - 10"	5' - 3"
	Multiple	12' - 10"	10' - 4"	8' - 8"	7' - 6"	6' - 7"	5' - 10"	5' - 4"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 24 ga
Interior: 24 ga
Steel Support: 12 ga, grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

42" Wide 12ga Steel Support 24/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 1"	10' - 0"	9' - 1"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	10' - 0"	8' - 1"	6' - 10"	5' - 11"	5' - 3"	4' - 9"	4' - 4"
	Multiple	10' - 11"	8' - 9"	7' - 4"	6' - 4"	5' - 6"	4' - 11"	4' - 5"
2.5"	Single	13' - 1"	11' - 9"	10' - 6"	9' - 0"	7' - 10"	7' - 0"	6' - 3"
	Double	11' - 4"	9' - 2"	7' - 9"	6' - 9"	6' - 0"	5' - 4"	4' - 11"
	Multiple	12' - 4"	9' - 11"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 1"
3"	Single	14' - 10"	13' - 5"	11' - 6"	9' - 10"	8' - 8"	7' - 8"	6' - 11"
	Double	11' - 7"	9' - 5"	8' - 0"	6' - 11"	6' - 2"	5' - 6"	5' - 0"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
4"	Single	17' - 11"	15' - 3"	12' - 9"	10' - 11"	9' - 6"	8' - 6"	7' - 7"
	Double	11' - 9"	9' - 7"	8' - 2"	7' - 1"	6' - 3"	5' - 8"	5' - 1"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 6"	5' - 9"	5' - 3"
5"	Single	19' - 5"	15' - 6"	12' - 11"	11' - 1"	9' - 8"	8' - 7"	7' - 9"
	Double	12' - 0"	9' - 9"	8' - 4"	7' - 3"	6' - 5"	5' - 9"	5' - 2"
	Multiple	12' - 9"	10' - 3"	8' - 7"	7' - 5"	6' - 6"	5' - 10"	5' - 3"
6"	Single	18' - 6"	14' - 10"	12' - 4"	10' - 7"	9' - 3"	8' - 2"	7' - 5"
	Double	12' - 2"	9' - 11"	8' - 5"	7' - 4"	6' - 6"	5' - 10"	5' - 3"
	Multiple	12' - 10"	10' - 4"	8' - 8"	7' - 6"	6' - 7"	5' - 10"	5' - 4"

Deflection limit:	L/180 test
Fastening Method:	Intermediate Connection: Concealed Leo-Klip with (2) ¼-14 HWH fasteners at every support End Connection: Concealed Leo-Klip+ with (2) ¼-14 HWH fasteners and (1) ¼-14 x 7/8" stitch fastener plus (2) ¼-14x2" face fasteners at each end support
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal differential:	EXCLUDED
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 24 ga
 Interior: 26 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

42" Wide 12ga Steel Support 24/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 10"	9' - 9"	8' - 11"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	9' - 11"	8' - 1"	6' - 10"	5' - 11"	5' - 3"	4' - 9"	4' - 3"
	Multiple	10' - 11"	8' - 9"	7' - 4"	6' - 4"	5' - 6"	4' - 11"	4' - 5"
2.5"	Single	12' - 8"	11' - 5"	10' - 5"	9' - 0"	7' - 10"	7' - 0"	6' - 3"
	Double	11' - 3"	9' - 2"	7' - 9"	6' - 9"	5' - 11"	5' - 4"	4' - 10"
	Multiple	12' - 4"	9' - 11"	8' - 3"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
3"	Single	14' - 0"	12' - 7"	11' - 5"	9' - 10"	8' - 8"	7' - 8"	6' - 11"
	Double	11' - 7"	9' - 5"	7' - 11"	6' - 11"	6' - 2"	5' - 6"	5' - 0"
	Multiple	12' - 7"	10' - 2"	8' - 6"	7' - 3"	6' - 5"	5' - 9"	5' - 2"
4"	Single	16' - 4"	14' - 7"	12' - 9"	10' - 11"	9' - 6"	8' - 6"	7' - 7"
	Double	11' - 9"	9' - 7"	8' - 1"	7' - 1"	6' - 3"	5' - 7"	5' - 1"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
5"	Single	18' - 4"	15' - 6"	12' - 11"	11' - 1"	9' - 8"	8' - 7"	7' - 9"
	Double	11' - 11"	9' - 9"	8' - 3"	7' - 2"	6' - 4"	5' - 8"	5' - 2"
	Multiple	12' - 9"	10' - 3"	8' - 7"	7' - 5"	6' - 6"	5' - 10"	5' - 3"
6"	Single	18' - 6"	14' - 10"	12' - 4"	10' - 7"	9' - 3"	8' - 2"	7' - 5"
	Double	12' - 1"	9' - 11"	8' - 5"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	12' - 9"	10' - 3"	8' - 8"	7' - 5"	6' - 7"	5' - 10"	5' - 3"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 26 ga
 Interior: 26 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

42" Wide 12ga Steel Support 26/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 7"	9' - 6"	8' - 2"	7' - 0"	6' - 1"	5' - 5"	4' - 10"
	Double	8' - 11"	7' - 3"	6' - 1"	5' - 4"	4' - 9"	4' - 3"	3' - 10"
	Multiple	9' - 9"	7' - 10"	6' - 7"	5' - 8"	4' - 11"	4' - 5"	4' - 0"
2.5"	Single	12' - 4"	11' - 2"	9' - 7"	8' - 2"	7' - 2"	6' - 4"	5' - 9"
	Double	10' - 1"	8' - 3"	6' - 11"	6' - 1"	5' - 4"	4' - 10"	4' - 4"
	Multiple	11' - 1"	8' - 11"	7' - 5"	6' - 5"	5' - 7"	5' - 0"	4' - 6"
3"	Single	14' - 0"	12' - 6"	10' - 7"	9' - 1"	7' - 11"	7' - 1"	6' - 4"
	Double	11' - 0"	8' - 11"	7' - 7"	6' - 7"	5' - 10"	5' - 3"	4' - 9"
	Multiple	12' - 0"	9' - 8"	8' - 1"	6' - 11"	6' - 1"	5' - 5"	4' - 11"
4"	Single	16' - 3"	14' - 1"	11' - 9"	10' - 1"	8' - 10"	7' - 10"	7' - 0"
	Double	11' - 8"	9' - 6"	8' - 1"	7' - 0"	6' - 3"	5' - 7"	5' - 1"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
5"	Single	18' - 0"	14' - 5"	12' - 0"	10' - 3"	9' - 0"	8' - 0"	7' - 2"
	Double	11' - 10"	9' - 8"	8' - 3"	7' - 2"	6' - 4"	5' - 8"	5' - 2"
	Multiple	12' - 8"	10' - 3"	8' - 7"	7' - 5"	6' - 6"	5' - 10"	5' - 3"
6"	Single	17' - 1"	13' - 8"	11' - 4"	9' - 9"	8' - 6"	7' - 7"	6' - 10"
	Double	12' - 0"	9' - 10"	8' - 4"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	12' - 9"	10' - 3"	8' - 7"	7' - 5"	6' - 6"	5' - 10"	5' - 3"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

42" Wide 1/4" Steel Support 22/22								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 10"	10' - 8"	9' - 8"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	11' - 1"	9' - 0"	7' - 7"	6' - 7"	5' - 10"	5' - 3"	4' - 9"
	Multiple	12' - 1"	9' - 9"	8' - 2"	7' - 0"	6' - 2"	5' - 6"	4' - 11"
2.5"	Single	13' - 11"	12' - 6"	11' - 5"	9' - 10"	8' - 7"	7' - 8"	6' - 10"
	Double	12' - 6"	10' - 2"	8' - 7"	7' - 6"	6' - 8"	5' - 11"	5' - 5"
	Multiple	13' - 8"	11' - 0"	9' - 2"	7' - 11"	6' - 11"	6' - 2"	5' - 7"
3"	Single	15' - 10"	14' - 3"	12' - 6"	10' - 8"	9' - 4"	8' - 4"	7' - 6"
	Double	13' - 5"	10' - 11"	9' - 3"	8' - 0"	7' - 1"	6' - 5"	5' - 10"
	Multiple	14' - 8"	11' - 9"	9' - 10"	8' - 6"	7' - 5"	6' - 8"	6' - 0"
4"	Single	19' - 3"	16' - 5"	13' - 8"	11' - 8"	10' - 3"	9' - 1"	8' - 2"
	Double	14' - 9"	12' - 0"	10' - 2"	8' - 10"	7' - 10"	7' - 1"	6' - 5"
	Multiple	15' - 11"	12' - 10"	10' - 9"	9' - 3"	8' - 1"	7' - 3"	6' - 7"
5"	Single	20' - 10"	16' - 8"	13' - 11"	11' - 11"	10' - 5"	9' - 3"	8' - 4"
	Double	15' - 6"	12' - 8"	10' - 9"	9' - 4"	8' - 3"	7' - 5"	6' - 9"
	Multiple	16' - 8"	13' - 5"	11' - 3"	9' - 8"	8' - 6"	7' - 7"	6' - 10"
6"	Single	19' - 11"	15' - 11"	13' - 3"	11' - 4"	9' - 11"	8' - 10"	7' - 11"
	Double	15' - 10"	12' - 11"	11' - 0"	9' - 6"	8' - 5"	7' - 7"	6' - 10"
	Multiple	16' - 10"	13' - 7"	11' - 4"	9' - 10"	8' - 7"	7' - 8"	7' - 0"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 22 ga
Interior: 24 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

42" Wide 1/4" Steel Support 22/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 6"	10' - 4"	9' - 5"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	11' - 0"	8' - 11"	7' - 7"	6' - 7"	5' - 10"	5' - 3"	4' - 9"
	Multiple	12' - 1"	9' - 9"	8' - 1"	7' - 0"	6' - 2"	5' - 6"	4' - 11"
2.5"	Single	13' - 5"	12' - 1"	11' - 1"	9' - 10"	8' - 7"	7' - 8"	6' - 10"
	Double	12' - 5"	10' - 1"	8' - 7"	7' - 5"	6' - 7"	5' - 11"	5' - 5"
	Multiple	13' - 8"	11' - 0"	9' - 2"	7' - 11"	6' - 11"	6' - 2"	5' - 7"
3"	Single	15' - 4"	13' - 9"	12' - 6"	10' - 8"	9' - 4"	8' - 4"	7' - 6"
	Double	13' - 4"	10' - 10"	9' - 2"	8' - 0"	7' - 1"	6' - 4"	5' - 9"
	Multiple	14' - 7"	11' - 9"	9' - 10"	8' - 5"	7' - 5"	6' - 7"	6' - 0"
4"	Single	18' - 0"	16' - 1"	13' - 8"	11' - 8"	10' - 3"	9' - 1"	8' - 2"
	Double	14' - 8"	11' - 11"	10' - 1"	8' - 9"	7' - 9"	7' - 0"	6' - 4"
	Multiple	15' - 11"	12' - 10"	10' - 9"	9' - 3"	8' - 1"	7' - 3"	6' - 6"
5"	Single	20' - 2"	16' - 8"	13' - 11"	11' - 11"	10' - 5"	9' - 3"	8' - 4"
	Double	15' - 5"	12' - 7"	10' - 8"	9' - 3"	8' - 3"	7' - 5"	6' - 8"
	Multiple	16' - 7"	13' - 4"	11' - 2"	9' - 8"	8' - 6"	7' - 7"	6' - 10"
6"	Single	19' - 11"	15' - 11"	13' - 3"	11' - 4"	9' - 11"	8' - 10"	7' - 11"
	Double	15' - 9"	12' - 10"	10' - 11"	9' - 6"	8' - 5"	7' - 6"	6' - 10"
	Multiple	16' - 10"	13' - 6"	11' - 4"	9' - 9"	8' - 7"	7' - 8"	6' - 11"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

42" Wide 1/4" Steel Support 22/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 1"	10' - 0"	9' - 2"	8' - 5"	7' - 6"	6' - 8"	6' - 0"
	Double	11' - 0"	8' - 11"	7' - 6"	6' - 6"	5' - 9"	5' - 2"	4' - 9"
	Multiple	12' - 1"	9' - 8"	8' - 1"	7' - 0"	6' - 1"	5' - 5"	4' - 11"
2.5"	Single	12' - 10"	11' - 5"	10' - 5"	9' - 8"	8' - 7"	7' - 8"	6' - 10"
	Double	12' - 5"	10' - 1"	8' - 6"	7' - 5"	6' - 7"	5' - 11"	5' - 4"
	Multiple	13' - 8"	10' - 11"	9' - 2"	7' - 10"	6' - 11"	6' - 2"	5' - 7"
3"	Single	14' - 1"	12' - 7"	11' - 6"	10' - 8"	9' - 4"	8' - 4"	7' - 6"
	Double	13' - 4"	10' - 10"	9' - 2"	7' - 11"	7' - 0"	6' - 4"	5' - 9"
	Multiple	14' - 7"	11' - 9"	9' - 10"	8' - 5"	7' - 5"	6' - 7"	6' - 0"
4"	Single	16' - 4"	14' - 7"	13' - 4"	11' - 8"	10' - 3"	9' - 1"	8' - 2"
	Double	14' - 7"	11' - 10"	10' - 1"	8' - 9"	7' - 9"	7' - 0"	6' - 4"
	Multiple	15' - 11"	12' - 9"	10' - 8"	9' - 2"	8' - 1"	7' - 3"	6' - 6"
5"	Single	18' - 4"	16' - 5"	13' - 11"	11' - 11"	10' - 5"	9' - 3"	8' - 4"
	Double	15' - 4"	12' - 6"	10' - 7"	9' - 3"	8' - 2"	7' - 4"	6' - 8"
	Multiple	16' - 7"	13' - 4"	11' - 2"	9' - 7"	8' - 5"	7' - 7"	6' - 10"
6"	Single	19' - 11"	15' - 11"	13' - 3"	11' - 4"	9' - 11"	8' - 10"	7' - 11"
	Double	15' - 8"	12' - 9"	10' - 10"	9' - 5"	8' - 4"	7' - 6"	6' - 10"
	Multiple	16' - 9"	13' - 6"	11' - 4"	9' - 9"	8' - 7"	7' - 8"	6' - 11"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 24 ga
 Interior: 24 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

42" Wide 1/4" Steel Support 24/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 1"	10' - 0"	9' - 1"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	10' - 0"	8' - 1"	6' - 10"	5' - 11"	5' - 3"	4' - 9"	4' - 4"
	Multiple	10' - 11"	8' - 9"	7' - 4"	6' - 4"	5' - 6"	4' - 11"	4' - 5"
2.5"	Single	13' - 1"	11' - 9"	10' - 6"	9' - 0"	7' - 10"	7' - 0"	6' - 3"
	Double	11' - 4"	9' - 2"	7' - 9"	6' - 9"	6' - 0"	5' - 4"	4' - 11"
	Multiple	12' - 4"	9' - 11"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 1"
3"	Single	14' - 10"	13' - 5"	11' - 6"	9' - 10"	8' - 8"	7' - 8"	6' - 11"
	Double	12' - 2"	9' - 11"	8' - 5"	7' - 4"	6' - 6"	5' - 10"	5' - 3"
	Multiple	13' - 4"	10' - 8"	8' - 11"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
4"	Single	17' - 11"	15' - 3"	12' - 9"	10' - 11"	9' - 6"	8' - 6"	7' - 7"
	Double	13' - 6"	11' - 0"	9' - 4"	8' - 1"	7' - 2"	6' - 5"	5' - 10"
	Multiple	14' - 8"	11' - 9"	9' - 10"	8' - 6"	7' - 5"	6' - 8"	6' - 0"
5"	Single	19' - 5"	15' - 6"	12' - 11"	11' - 1"	9' - 8"	8' - 7"	7' - 9"
	Double	14' - 3"	11' - 7"	9' - 10"	8' - 7"	7' - 7"	6' - 10"	6' - 2"
	Multiple	15' - 4"	12' - 4"	10' - 4"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
6"	Single	18' - 6"	14' - 10"	12' - 4"	10' - 7"	9' - 3"	8' - 2"	7' - 5"
	Double	14' - 6"	11' - 10"	10' - 1"	8' - 9"	7' - 9"	7' - 0"	6' - 4"
	Multiple	15' - 6"	12' - 6"	10' - 6"	9' - 0"	7' - 11"	7' - 1"	6' - 5"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 24 ga
 Interior: 26 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

42" Wide 1/4" Steel Support 24/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 10"	9' - 9"	8' - 11"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	9' - 11"	8' - 1"	6' - 10"	5' - 11"	5' - 3"	4' - 9"	4' - 3"
	Multiple	10' - 11"	8' - 9"	7' - 4"	6' - 4"	5' - 6"	4' - 11"	4' - 5"
2.5"	Single	12' - 8"	11' - 5"	10' - 5"	9' - 0"	7' - 10"	7' - 0"	6' - 3"
	Double	11' - 3"	9' - 2"	7' - 9"	6' - 9"	5' - 11"	5' - 4"	4' - 10"
	Multiple	12' - 4"	9' - 11"	8' - 3"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
3"	Single	14' - 0"	12' - 7"	11' - 5"	9' - 10"	8' - 8"	7' - 8"	6' - 11"
	Double	12' - 2"	9' - 11"	8' - 4"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	13' - 4"	10' - 8"	8' - 11"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
4"	Single	16' - 4"	14' - 7"	12' - 9"	10' - 11"	9' - 6"	8' - 6"	7' - 7"
	Double	13' - 5"	10' - 11"	9' - 3"	8' - 1"	7' - 2"	6' - 5"	5' - 10"
	Multiple	14' - 7"	11' - 9"	9' - 10"	8' - 5"	7' - 5"	6' - 8"	6' - 0"
5"	Single	18' - 4"	15' - 6"	12' - 11"	11' - 1"	9' - 8"	8' - 7"	7' - 9"
	Double	14' - 2"	11' - 7"	9' - 9"	8' - 6"	7' - 7"	6' - 9"	6' - 2"
	Multiple	15' - 4"	12' - 4"	10' - 4"	8' - 10"	7' - 10"	7' - 0"	6' - 3"
6"	Single	18' - 6"	14' - 10"	12' - 4"	10' - 7"	9' - 3"	8' - 2"	7' - 5"
	Double	14' - 6"	11' - 10"	10' - 0"	8' - 9"	7' - 9"	6' - 11"	6' - 3"
	Multiple	15' - 6"	12' - 6"	10' - 5"	9' - 0"	7' - 11"	7' - 1"	6' - 5"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 26 ga
Interior: 26 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

42" Wide 1/4" Steel Support 26/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 7"	9' - 6"	8' - 2"	7' - 0"	6' - 1"	5' - 5"	4' - 10"
	Double	8' - 11"	7' - 3"	6' - 1"	5' - 4"	4' - 9"	4' - 3"	3' - 10"
	Multiple	9' - 9"	7' - 10"	6' - 7"	5' - 8"	4' - 11"	4' - 5"	4' - 0"
2.5"	Single	12' - 4"	11' - 2"	9' - 7"	8' - 2"	7' - 2"	6' - 4"	5' - 9"
	Double	10' - 1"	8' - 3"	6' - 11"	6' - 1"	5' - 4"	4' - 10"	4' - 4"
	Multiple	11' - 1"	8' - 11"	7' - 5"	6' - 5"	5' - 7"	5' - 0"	4' - 6"
3"	Single	14' - 0"	12' - 6"	10' - 7"	9' - 1"	7' - 11"	7' - 1"	6' - 4"
	Double	11' - 0"	8' - 11"	7' - 7"	6' - 7"	5' - 10"	5' - 3"	4' - 9"
	Multiple	12' - 0"	9' - 8"	8' - 1"	6' - 11"	6' - 1"	5' - 5"	4' - 11"
4"	Single	16' - 3"	14' - 1"	11' - 9"	10' - 1"	8' - 10"	7' - 10"	7' - 0"
	Double	12' - 3"	10' - 0"	8' - 6"	7' - 4"	6' - 6"	5' - 10"	5' - 4"
	Multiple	13' - 4"	10' - 8"	8' - 11"	7' - 9"	6' - 9"	6' - 1"	5' - 6"
5"	Single	18' - 0"	14' - 5"	12' - 0"	10' - 3"	9' - 0"	8' - 0"	7' - 2"
	Double	13' - 0"	10' - 7"	9' - 0"	7' - 10"	6' - 11"	6' - 3"	5' - 8"
	Multiple	14' - 0"	11' - 3"	9' - 5"	8' - 1"	7' - 2"	6' - 4"	5' - 9"
6"	Single	17' - 1"	13' - 8"	11' - 4"	9' - 9"	8' - 6"	7' - 7"	6' - 10"
	Double	13' - 3"	10' - 10"	9' - 2"	8' - 0"	7' - 1"	6' - 4"	5' - 9"
	Multiple	14' - 2"	11' - 5"	9' - 7"	8' - 3"	7' - 3"	6' - 6"	5' - 10"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 22 ga
Interior: 22 ga
Steel Support: 12 ga, grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

36" Wide 12ga Steel Support 22/22								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 10"	10' - 8"	9' - 8"	8' - 11"	8' - 4"	7' - 6"	6' - 9"
	Double	13' - 3"	10' - 9"	9' - 1"	7' - 11"	7' - 0"	6' - 3"	5' - 8"
	Multiple	13' - 10"	11' - 9"	9' - 10"	8' - 5"	7' - 5"	6' - 7"	6' - 0"
2.5"	Single	13' - 11"	12' - 6"	11' - 5"	10' - 6"	9' - 7"	8' - 6"	7' - 8"
	Double	13' - 5"	10' - 11"	9' - 2"	8' - 0"	7' - 1"	6' - 4"	5' - 9"
	Multiple	14' - 9"	11' - 10"	9' - 10"	8' - 6"	7' - 5"	6' - 8"	6' - 0"
3"	Single	15' - 10"	14' - 3"	13' - 0"	11' - 10"	10' - 4"	9' - 2"	8' - 3"
	Double	13' - 6"	11' - 0"	9' - 4"	8' - 1"	7' - 2"	6' - 5"	5' - 10"
	Multiple	14' - 9"	11' - 10"	9' - 11"	8' - 6"	7' - 6"	6' - 8"	6' - 0"
4"	Single	19' - 4"	17' - 4"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	13' - 9"	11' - 2"	9' - 6"	8' - 3"	7' - 4"	6' - 7"	6' - 0"
	Multiple	14' - 9"	11' - 11"	10' - 0"	8' - 7"	7' - 7"	6' - 9"	6' - 1"
5"	Single	22' - 5"	18' - 4"	15' - 4"	13' - 1"	11' - 6"	10' - 2"	9' - 2"
	Double	13' - 11"	11' - 5"	9' - 8"	8' - 5"	7' - 5"	6' - 8"	6' - 1"
	Multiple	14' - 10"	11' - 11"	10' - 0"	8' - 8"	7' - 7"	6' - 9"	6' - 2"
6"	Single	22' - 1"	17' - 8"	14' - 8"	12' - 7"	11' - 0"	9' - 9"	8' - 10"
	Double	14' - 2"	11' - 7"	9' - 10"	8' - 6"	7' - 6"	6' - 9"	6' - 1"
	Multiple	14' - 11"	12' - 0"	10' - 1"	8' - 8"	7' - 8"	6' - 10"	6' - 2"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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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QuadCore® KS Series

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

36" Wide 12ga Steel Support 22/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 6"	10' - 4"	9' - 5"	8' - 8"	8' - 1"	7' - 6"	6' - 9"
	Double	13' - 3"	10' - 9"	9' - 1"	7' - 10"	6' - 11"	6' - 3"	5' - 8"
	Multiple	13' - 5"	11' - 9"	9' - 10"	8' - 5"	7' - 5"	6' - 7"	5' - 11"
2.5"	Single	13' - 6"	12' - 1"	11' - 1"	10' - 3"	9' - 6"	8' - 6"	7' - 8"
	Double	13' - 4"	10' - 10"	9' - 2"	7' - 11"	7' - 0"	6' - 4"	5' - 9"
	Multiple	14' - 8"	11' - 9"	9' - 10"	8' - 6"	7' - 5"	6' - 8"	6' - 0"
3"	Single	15' - 4"	13' - 9"	12' - 7"	11' - 8"	10' - 4"	9' - 2"	8' - 3"
	Double	13' - 5"	10' - 11"	9' - 3"	8' - 0"	7' - 1"	6' - 5"	5' - 10"
	Multiple	14' - 9"	11' - 10"	9' - 11"	8' - 6"	7' - 6"	6' - 8"	6' - 0"
4"	Single	18' - 0"	16' - 1"	14' - 8"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	13' - 8"	11' - 1"	9' - 5"	8' - 2"	7' - 3"	6' - 6"	5' - 11"
	Multiple	14' - 9"	11' - 10"	9' - 11"	8' - 7"	7' - 6"	6' - 9"	6' - 1"
5"	Single	20' - 3"	18' - 1"	15' - 4"	13' - 1"	11' - 6"	10' - 2"	9' - 2"
	Double	13' - 10"	11' - 4"	9' - 7"	8' - 4"	7' - 5"	6' - 8"	6' - 0"
	Multiple	14' - 10"	11' - 11"	10' - 0"	8' - 7"	7' - 7"	6' - 9"	6' - 1"
6"	Single	22' - 1"	17' - 8"	14' - 8"	12' - 7"	11' - 0"	9' - 9"	8' - 10"
	Double	14' - 1"	11' - 6"	9' - 9"	8' - 6"	7' - 6"	6' - 9"	6' - 1"
	Multiple	14' - 11"	12' - 0"	10' - 1"	8' - 8"	7' - 8"	6' - 10"	6' - 2"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

36" Wide 12ga Steel Support 22/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 0"	9' - 2"	8' - 5"	7' - 10"	7' - 4"	6' - 9"
	Double	12' - 5"	10' - 5"	8' - 10"	7' - 8"	6' - 9"	6' - 1"	5' - 6"
	Multiple	13' - 0"	11' - 6"	9' - 7"	8' - 3"	7' - 3"	6' - 5"	5' - 10"
2.5"	Single	12' - 10"	11' - 6"	10' - 6"	9' - 8"	9' - 1"	8' - 6"	7' - 8"
	Double	13' - 4"	10' - 9"	9' - 1"	7' - 11"	7' - 0"	6' - 3"	5' - 9"
	Multiple	14' - 8"	11' - 9"	9' - 10"	8' - 5"	7' - 5"	6' - 7"	6' - 0"
3"	Single	14' - 1"	12' - 8"	11' - 6"	10' - 8"	10' - 0"	9' - 2"	8' - 3"
	Double	13' - 5"	10' - 11"	9' - 2"	8' - 0"	7' - 1"	6' - 4"	5' - 9"
	Multiple	14' - 9"	11' - 10"	9' - 10"	8' - 6"	7' - 5"	6' - 8"	6' - 0"
4"	Single	16' - 5"	14' - 8"	13' - 5"	12' - 5"	11' - 3"	10' - 0"	9' - 0"
	Double	13' - 7"	11' - 1"	9' - 5"	8' - 2"	7' - 3"	6' - 6"	5' - 11"
	Multiple	14' - 9"	11' - 10"	9' - 11"	8' - 6"	7' - 6"	6' - 8"	6' - 1"
5"	Single	18' - 5"	16' - 6"	15' - 0"	13' - 1"	11' - 6"	10' - 2"	9' - 2"
	Double	13' - 9"	11' - 3"	9' - 6"	8' - 4"	7' - 4"	6' - 7"	6' - 0"
	Multiple	14' - 10"	11' - 11"	10' - 0"	8' - 7"	7' - 7"	6' - 9"	6' - 1"
6"	Single	20' - 3"	17' - 8"	14' - 8"	12' - 7"	11' - 0"	9' - 9"	8' - 10"
	Double	14' - 0"	11' - 5"	9' - 8"	8' - 5"	7' - 5"	6' - 8"	6' - 1"
	Multiple	14' - 10"	12' - 0"	10' - 0"	8' - 8"	7' - 7"	6' - 10"	6' - 2"

Deflection limit: L/180 test

Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 Fastening Method: End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 24 ga
 Interior: 24 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

36" Wide 12ga Steel Support 24/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 0"	9' - 2"	8' - 5"	7' - 8"	6' - 10"	6' - 1"
	Double	12' - 7"	10' - 2"	8' - 7"	7' - 5"	6' - 7"	5' - 11"	5' - 5"
	Multiple	13' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 3"	5' - 8"
2.5"	Single	13' - 1"	11' - 9"	10' - 9"	9' - 11"	8' - 9"	7' - 9"	7' - 0"
	Double	12' - 11"	10' - 6"	8' - 10"	7' - 8"	6' - 10"	6' - 2"	5' - 7"
	Multiple	14' - 3"	11' - 5"	9' - 7"	8' - 3"	7' - 3"	6' - 5"	5' - 10"
3"	Single	14' - 11"	13' - 5"	12' - 3"	10' - 10"	9' - 6"	8' - 5"	7' - 7"
	Double	13' - 5"	10' - 11"	9' - 2"	8' - 0"	7' - 1"	6' - 4"	5' - 9"
	Multiple	14' - 9"	11' - 10"	9' - 10"	8' - 6"	7' - 5"	6' - 8"	6' - 0"
4"	Single	18' - 0"	16' - 1"	13' - 11"	11' - 11"	10' - 5"	9' - 3"	8' - 4"
	Double	13' - 7"	11' - 1"	9' - 5"	8' - 2"	7' - 3"	6' - 6"	5' - 11"
	Multiple	14' - 9"	11' - 10"	9' - 11"	8' - 6"	7' - 6"	6' - 8"	6' - 1"
5"	Single	20' - 2"	17' - 0"	14' - 2"	12' - 2"	10' - 7"	9' - 5"	8' - 6"
	Double	13' - 9"	11' - 3"	9' - 6"	8' - 4"	7' - 4"	6' - 7"	6' - 0"
	Multiple	14' - 10"	11' - 11"	10' - 0"	8' - 7"	7' - 7"	6' - 9"	6' - 1"
6"	Single	20' - 5"	16' - 4"	13' - 7"	11' - 8"	10' - 2"	9' - 1"	8' - 2"
	Double	14' - 0"	11' - 5"	9' - 8"	8' - 5"	7' - 5"	6' - 8"	6' - 1"
	Multiple	14' - 10"	12' - 0"	10' - 0"	8' - 8"	7' - 7"	6' - 10"	6' - 2"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 24 ga
 Interior: 26 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

36" Wide 12ga Steel Support 24/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 10"	9' - 9"	8' - 11"	8' - 3"	7' - 8"	6' - 10"	6' - 1"
	Double	12' - 1"	9' - 9"	8' - 3"	7' - 2"	6' - 4"	5' - 8"	5' - 2"
	Multiple	12' - 8"	10' - 9"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
2.5"	Single	12' - 9"	11' - 5"	10' - 5"	9' - 8"	8' - 9"	7' - 9"	7' - 0"
	Double	12' - 11"	10' - 5"	8' - 10"	7' - 8"	6' - 9"	6' - 1"	5' - 6"
	Multiple	14' - 3"	11' - 5"	9' - 7"	8' - 3"	7' - 2"	6' - 5"	5' - 10"
3"	Single	14' - 1"	12' - 7"	11' - 6"	10' - 8"	9' - 6"	8' - 5"	7' - 7"
	Double	13' - 4"	10' - 10"	9' - 2"	7' - 11"	7' - 1"	6' - 4"	5' - 9"
	Multiple	14' - 8"	11' - 9"	9' - 10"	8' - 6"	7' - 5"	6' - 8"	6' - 0"
4"	Single	16' - 4"	14' - 8"	13' - 4"	11' - 11"	10' - 5"	9' - 3"	8' - 4"
	Double	13' - 6"	11' - 0"	9' - 4"	8' - 1"	7' - 2"	6' - 6"	5' - 10"
	Multiple	14' - 9"	11' - 10"	9' - 11"	8' - 6"	7' - 6"	6' - 8"	6' - 0"
5"	Single	18' - 5"	16' - 5"	14' - 2"	12' - 2"	10' - 7"	9' - 5"	8' - 6"
	Double	13' - 9"	11' - 2"	9' - 6"	8' - 3"	7' - 4"	6' - 7"	6' - 0"
	Multiple	14' - 9"	11' - 11"	10' - 0"	8' - 7"	7' - 7"	6' - 9"	6' - 1"
6"	Single	20' - 3"	16' - 4"	13' - 7"	11' - 8"	10' - 2"	9' - 1"	8' - 2"
	Double	13' - 11"	11' - 4"	9' - 8"	8' - 5"	7' - 5"	6' - 8"	6' - 1"
	Multiple	14' - 10"	11' - 11"	10' - 0"	8' - 8"	7' - 7"	6' - 9"	6' - 2"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 26 ga
 Interior: 26 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

36" Wide 12ga Steel Support 26/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 7"	9' - 6"	8' - 9"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	11' - 3"	9' - 1"	7' - 8"	6' - 8"	5' - 11"	5' - 4"	4' - 10"
	Multiple	12' - 5"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 1"
2.5"	Single	12' - 5"	11' - 2"	10' - 3"	9' - 1"	7' - 11"	7' - 0"	6' - 4"
	Double	11' - 7"	9' - 5"	7' - 11"	6' - 11"	6' - 1"	5' - 6"	5' - 0"
	Multiple	12' - 9"	10' - 3"	8' - 7"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
3"	Single	14' - 0"	12' - 7"	11' - 5"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	Double	12' - 6"	10' - 2"	8' - 7"	7' - 5"	6' - 7"	5' - 11"	5' - 5"
	Multiple	13' - 9"	11' - 0"	9' - 3"	7' - 11"	7' - 0"	6' - 3"	5' - 7"
4"	Single	16' - 4"	14' - 7"	12' - 10"	11' - 0"	9' - 7"	8' - 6"	7' - 8"
	Double	13' - 6"	11' - 0"	9' - 3"	8' - 1"	7' - 2"	6' - 5"	5' - 10"
	Multiple	14' - 9"	11' - 10"	9' - 11"	8' - 6"	7' - 6"	6' - 8"	6' - 0"
5"	Single	18' - 4"	15' - 8"	13' - 1"	11' - 2"	9' - 9"	8' - 8"	7' - 10"
	Double	13' - 8"	11' - 2"	9' - 5"	8' - 3"	7' - 3"	6' - 7"	5' - 11"
	Multiple	14' - 9"	11' - 11"	9' - 11"	8' - 7"	7' - 6"	6' - 9"	6' - 1"
6"	Single	18' - 9"	15' - 0"	12' - 6"	10' - 8"	9' - 4"	8' - 4"	7' - 6"
	Double	13' - 10"	11' - 4"	9' - 7"	8' - 4"	7' - 5"	6' - 8"	6' - 0"
	Multiple	14' - 10"	11' - 11"	10' - 0"	8' - 7"	7' - 7"	6' - 9"	6' - 1"

Deflection limit:	L/180 test
Fastening Method:	Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal differential:	EXCLUDED
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

36" Wide 1/4" Steel Support 22/22								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 10"	10' - 8"	9' - 8"	8' - 11"	8' - 4"	7' - 6"	6' - 9"
	Double	14' - 2"	11' - 6"	9' - 8"	8' - 5"	7' - 5"	6' - 8"	6' - 1"
	Multiple	13' - 10"	12' - 3"	10' - 5"	9' - 0"	7' - 11"	7' - 1"	6' - 4"
2.5"	Single	13' - 11"	12' - 6"	11' - 5"	10' - 6"	9' - 7"	8' - 6"	7' - 8"
	Double	14' - 4"	11' - 8"	9' - 10"	8' - 6"	7' - 7"	6' - 10"	6' - 2"
	Multiple	15' - 10"	12' - 8"	10' - 7"	9' - 1"	8' - 0"	7' - 2"	6' - 5"
3"	Single	15' - 10"	14' - 3"	13' - 0"	11' - 10"	10' - 4"	9' - 2"	8' - 3"
	Double	15' - 3"	12' - 5"	10' - 6"	9' - 1"	8' - 1"	7' - 3"	6' - 7"
	Multiple	16' - 10"	13' - 6"	11' - 3"	9' - 8"	8' - 6"	7' - 7"	6' - 10"
4"	Single	19' - 4"	17' - 4"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	16' - 8"	13' - 7"	11' - 6"	10' - 0"	8' - 10"	8' - 0"	7' - 3"
	Multiple	18' - 2"	14' - 7"	12' - 3"	10' - 6"	9' - 3"	8' - 3"	7' - 5"
5"	Single	22' - 5"	18' - 4"	15' - 4"	13' - 1"	11' - 6"	10' - 2"	9' - 2"
	Double	17' - 7"	14' - 4"	12' - 2"	10' - 7"	9' - 5"	8' - 5"	7' - 8"
	Multiple	19' - 1"	15' - 4"	12' - 10"	11' - 1"	9' - 9"	8' - 8"	7' - 10"
6"	Single	22' - 1"	17' - 8"	14' - 8"	12' - 7"	11' - 0"	9' - 9"	8' - 10"
	Double	18' - 2"	14' - 10"	12' - 7"	10' - 11"	9' - 8"	8' - 8"	7' - 11"
	Multiple	19' - 6"	15' - 8"	13' - 2"	11' - 4"	10' - 0"	8' - 11"	8' - 0"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

36" Wide 1/4" Steel Support 22/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 6"	10' - 4"	9' - 5"	8' - 8"	8' - 1"	7' - 6"	6' - 9"
	Double	13' - 7"	11' - 4"	9' - 7"	8' - 4"	7' - 4"	6' - 7"	6' - 0"
	Multiple	13' - 5"	11' - 11"	10' - 5"	9' - 0"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	13' - 6"	12' - 1"	11' - 1"	10' - 3"	9' - 6"	8' - 6"	7' - 8"
	Double	14' - 4"	11' - 7"	9' - 9"	8' - 6"	7' - 6"	6' - 9"	6' - 2"
	Multiple	15' - 9"	12' - 8"	10' - 7"	9' - 1"	8' - 0"	7' - 1"	6' - 5"
3"	Single	15' - 4"	13' - 9"	12' - 7"	11' - 8"	10' - 4"	9' - 2"	8' - 3"
	Double	15' - 3"	12' - 4"	10' - 5"	9' - 1"	8' - 0"	7' - 3"	6' - 7"
	Multiple	16' - 9"	13' - 6"	11' - 3"	9' - 8"	8' - 6"	7' - 7"	6' - 10"
4"	Single	18' - 0"	16' - 1"	14' - 8"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	16' - 7"	13' - 6"	11' - 5"	9' - 11"	8' - 10"	7' - 11"	7' - 2"
	Multiple	18' - 2"	14' - 7"	12' - 3"	10' - 6"	9' - 3"	8' - 3"	7' - 5"
5"	Single	20' - 3"	18' - 1"	15' - 4"	13' - 1"	11' - 6"	10' - 2"	9' - 2"
	Double	17' - 6"	14' - 3"	12' - 1"	10' - 6"	9' - 4"	8' - 5"	7' - 7"
	Multiple	19' - 1"	15' - 4"	12' - 10"	11' - 0"	9' - 8"	8' - 8"	7' - 10"
6"	Single	22' - 1"	17' - 8"	14' - 8"	12' - 7"	11' - 0"	9' - 9"	8' - 10"
	Double	18' - 1"	14' - 9"	12' - 6"	10' - 10"	9' - 7"	8' - 8"	7' - 10"
	Multiple	19' - 6"	15' - 8"	13' - 1"	11' - 4"	9' - 11"	8' - 10"	8' - 0"

Deflection limit:	L/180 test
Fastening Method:	Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal differential:	EXCLUDED
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 22 ga
Interior: 26 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

36" Wide 1/4" Steel Support 22/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 0"	9' - 2"	8' - 5"	7' - 10"	7' - 4"	6' - 9"
	Double	12' - 5"	10' - 5"	8' - 10"	7' - 8"	6' - 9"	6' - 1"	5' - 6"
	Multiple	13' - 0"	11' - 6"	9' - 7"	8' - 3"	7' - 3"	6' - 5"	5' - 10"
2.5"	Single	12' - 10"	11' - 6"	10' - 6"	9' - 8"	9' - 1"	8' - 6"	7' - 8"
	Double	14' - 0"	11' - 6"	9' - 9"	8' - 5"	7' - 6"	6' - 9"	6' - 1"
	Multiple	14' - 10"	12' - 8"	10' - 7"	9' - 1"	8' - 0"	7' - 1"	6' - 5"
3"	Single	14' - 1"	12' - 8"	11' - 6"	10' - 8"	10' - 0"	9' - 2"	8' - 3"
	Double	15' - 2"	12' - 4"	10' - 5"	9' - 0"	8' - 0"	7' - 2"	6' - 6"
	Multiple	16' - 4"	13' - 5"	11' - 3"	9' - 8"	8' - 6"	7' - 7"	6' - 10"
4"	Single	16' - 5"	14' - 8"	13' - 5"	12' - 5"	11' - 3"	10' - 0"	9' - 0"
	Double	16' - 7"	13' - 5"	11' - 4"	9' - 10"	8' - 9"	7' - 10"	7' - 2"
	Multiple	18' - 2"	14' - 7"	12' - 2"	10' - 6"	9' - 3"	8' - 3"	7' - 5"
5"	Single	18' - 5"	16' - 6"	15' - 0"	13' - 1"	11' - 6"	10' - 2"	9' - 2"
	Double	17' - 6"	14' - 2"	12' - 0"	10' - 6"	9' - 3"	8' - 4"	7' - 7"
	Multiple	19' - 1"	15' - 4"	12' - 10"	11' - 0"	9' - 8"	8' - 8"	7' - 10"
6"	Single	20' - 3"	17' - 8"	14' - 8"	12' - 7"	11' - 0"	9' - 9"	8' - 10"
	Double	18' - 0"	14' - 8"	12' - 5"	10' - 10"	9' - 7"	8' - 7"	7' - 10"
	Multiple	19' - 5"	15' - 8"	13' - 1"	11' - 3"	9' - 11"	8' - 10"	8' - 0"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 24 ga
Interior: 24 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

36" Wide 1/4" Steel Support 24/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 0"	9' - 2"	8' - 5"	7' - 8"	6' - 10"	6' - 1"
	Double	12' - 7"	10' - 2"	8' - 7"	7' - 5"	6' - 7"	5' - 11"	5' - 5"
	Multiple	13' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 3"	5' - 8"
2.5"	Single	13' - 1"	11' - 9"	10' - 9"	9' - 11"	8' - 9"	7' - 9"	7' - 0"
	Double	12' - 11"	10' - 6"	8' - 10"	7' - 8"	6' - 10"	6' - 2"	5' - 7"
	Multiple	14' - 3"	11' - 5"	9' - 7"	8' - 3"	7' - 3"	6' - 5"	5' - 10"
3"	Single	14' - 11"	13' - 5"	12' - 3"	10' - 10"	9' - 6"	8' - 5"	7' - 7"
	Double	13' - 11"	11' - 3"	9' - 6"	8' - 3"	7' - 4"	6' - 7"	6' - 0"
	Multiple	15' - 3"	12' - 3"	10' - 3"	8' - 10"	7' - 9"	6' - 11"	6' - 3"
4"	Single	18' - 0"	16' - 1"	13' - 11"	11' - 11"	10' - 5"	9' - 3"	8' - 4"
	Double	15' - 3"	12' - 5"	10' - 6"	9' - 1"	8' - 1"	7' - 3"	6' - 7"
	Multiple	16' - 8"	13' - 5"	11' - 2"	9' - 8"	8' - 5"	7' - 7"	6' - 10"
5"	Single	20' - 2"	17' - 0"	14' - 2"	12' - 2"	10' - 7"	9' - 5"	8' - 6"
	Double	16' - 2"	13' - 2"	11' - 2"	9' - 8"	8' - 7"	7' - 9"	7' - 0"
	Multiple	17' - 7"	14' - 1"	11' - 10"	10' - 2"	8' - 11"	8' - 0"	7' - 2"
6"	Single	20' - 5"	16' - 4"	13' - 7"	11' - 8"	10' - 2"	9' - 1"	8' - 2"
	Double	16' - 8"	13' - 7"	11' - 6"	10' - 0"	8' - 11"	8' - 0"	7' - 3"
	Multiple	18' - 0"	14' - 5"	12' - 1"	10' - 5"	9' - 2"	8' - 2"	7' - 5"

Deflection limit: L/180 test

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 24 ga
 Interior: 26 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

36" Wide 1/4" Steel Support 24/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 10"	9' - 9"	8' - 11"	8' - 3"	7' - 8"	6' - 10"	6' - 1"
	Double	12' - 1"	9' - 9"	8' - 3"	7' - 2"	6' - 4"	5' - 8"	5' - 2"
	Multiple	12' - 8"	10' - 9"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
2.5"	Single	12' - 9"	11' - 5"	10' - 5"	9' - 8"	8' - 9"	7' - 9"	7' - 0"
	Double	12' - 11"	10' - 5"	8' - 10"	7' - 8"	6' - 9"	6' - 1"	5' - 6"
	Multiple	14' - 3"	11' - 5"	9' - 7"	8' - 3"	7' - 2"	6' - 5"	5' - 10"
3"	Single	14' - 1"	12' - 7"	11' - 6"	10' - 8"	9' - 6"	8' - 5"	7' - 7"
	Double	13' - 10"	11' - 3"	9' - 6"	8' - 3"	7' - 3"	6' - 7"	5' - 11"
	Multiple	15' - 3"	12' - 3"	10' - 3"	8' - 9"	7' - 9"	6' - 11"	6' - 3"
4"	Single	16' - 4"	14' - 8"	13' - 4"	11' - 11"	10' - 5"	9' - 3"	8' - 4"
	Double	15' - 2"	12' - 4"	10' - 5"	9' - 1"	8' - 0"	7' - 3"	6' - 7"
	Multiple	16' - 8"	13' - 4"	11' - 2"	9' - 7"	8' - 5"	7' - 6"	6' - 10"
5"	Single	18' - 5"	16' - 5"	14' - 2"	12' - 2"	10' - 7"	9' - 5"	8' - 6"
	Double	16' - 1"	13' - 1"	11' - 1"	9' - 8"	8' - 7"	7' - 8"	7' - 0"
	Multiple	17' - 6"	14' - 1"	11' - 9"	10' - 2"	8' - 11"	7' - 11"	7' - 2"
6"	Single	20' - 3"	16' - 4"	13' - 7"	11' - 8"	10' - 2"	9' - 1"	8' - 2"
	Double	16' - 7"	13' - 7"	11' - 6"	10' - 0"	8' - 10"	7' - 11"	7' - 3"
	Multiple	17' - 11"	14' - 5"	12' - 1"	10' - 5"	9' - 2"	8' - 2"	7' - 5"

Deflection limit:	L/180 test
Fastening Method:	Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal differential:	EXCLUDED
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 26 ga
Interior: 26 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

36" Wide 1/4" Steel Support 26/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 7"	9' - 6"	8' - 9"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	11' - 3"	9' - 1"	7' - 8"	6' - 8"	5' - 11"	5' - 4"	4' - 10"
	Multiple	12' - 5"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 1"
2.5"	Single	12' - 5"	11' - 2"	10' - 3"	9' - 1"	7' - 11"	7' - 0"	6' - 4"
	Double	11' - 7"	9' - 5"	7' - 11"	6' - 11"	6' - 1"	5' - 6"	5' - 0"
	Multiple	12' - 9"	10' - 3"	8' - 7"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
3"	Single	14' - 0"	12' - 7"	11' - 5"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	Double	12' - 6"	10' - 2"	8' - 7"	7' - 5"	6' - 7"	5' - 11"	5' - 5"
	Multiple	13' - 9"	11' - 0"	9' - 3"	7' - 11"	7' - 0"	6' - 3"	5' - 7"
4"	Single	16' - 4"	14' - 7"	12' - 10"	11' - 0"	9' - 7"	8' - 6"	7' - 8"
	Double	13' - 10"	11' - 3"	9' - 6"	8' - 3"	7' - 4"	6' - 7"	6' - 0"
	Multiple	15' - 2"	12' - 2"	10' - 2"	8' - 9"	7' - 8"	6' - 10"	6' - 2"
5"	Single	18' - 4"	15' - 8"	13' - 1"	11' - 2"	9' - 9"	8' - 8"	7' - 10"
	Double	14' - 9"	12' - 0"	10' - 2"	8' - 10"	7' - 10"	7' - 1"	6' - 5"
	Multiple	16' - 0"	12' - 11"	10' - 9"	9' - 3"	8' - 2"	7' - 3"	6' - 7"
6"	Single	18' - 9"	15' - 0"	12' - 6"	10' - 8"	9' - 4"	8' - 4"	7' - 6"
	Double	15' - 3"	12' - 5"	10' - 6"	9' - 2"	8' - 2"	7' - 4"	6' - 8"
	Multiple	16' - 5"	13' - 2"	11' - 1"	9' - 6"	8' - 5"	7' - 6"	6' - 9"

Deflection limit:	L/180 test
Fastening Method:	Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal differential:	EXCLUDED
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

30" Wide 12ga Steel Support 22/22								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 11"	10' - 8"	9' - 9"	8' - 11"	8' - 4"	7' - 9"	7' - 3"
	Double	14' - 3"	12' - 2"	10' - 3"	8' - 11"	7' - 11"	7' - 1"	6' - 5"
	Multiple	13' - 10"	12' - 3"	10' - 4"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	14' - 0"	12' - 6"	11' - 5"	10' - 6"	9' - 10"	9' - 2"	8' - 7"
	Double	15' - 11"	12' - 11"	10' - 11"	9' - 5"	8' - 4"	7' - 6"	6' - 10"
	Multiple	16' - 3"	14' - 2"	11' - 10"	10' - 2"	8' - 11"	7' - 11"	7' - 2"
3"	Single	15' - 11"	14' - 3"	13' - 0"	12' - 0"	11' - 2"	10' - 5"	9' - 5"
	Double	16' - 0"	13' - 0"	11' - 0"	9' - 7"	8' - 5"	7' - 7"	6' - 11"
	Multiple	17' - 8"	14' - 2"	11' - 10"	10' - 2"	8' - 11"	8' - 0"	7' - 2"
4"	Single	19' - 5"	17' - 5"	15' - 11"	14' - 5"	12' - 8"	11' - 3"	10' - 1"
	Double	16' - 3"	13' - 3"	11' - 2"	9' - 9"	8' - 8"	7' - 9"	7' - 1"
	Multiple	17' - 8"	14' - 3"	11' - 11"	10' - 3"	9' - 0"	8' - 0"	7' - 3"
5"	Single	22' - 6"	20' - 2"	17' - 3"	14' - 9"	12' - 11"	11' - 6"	10' - 4"
	Double	16' - 6"	13' - 5"	11' - 5"	9' - 11"	8' - 9"	7' - 11"	7' - 2"
	Multiple	17' - 9"	14' - 3"	11' - 11"	10' - 4"	9' - 1"	8' - 1"	7' - 4"
6"	Single	25' - 1"	20' - 1"	16' - 9"	14' - 4"	12' - 6"	11' - 2"	10' - 0"
	Double	16' - 8"	13' - 8"	11' - 7"	10' - 1"	8' - 11"	8' - 0"	7' - 3"
	Multiple	17' - 10"	14' - 4"	12' - 0"	10' - 4"	9' - 1"	8' - 2"	7' - 4"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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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QuadCore® KS Series
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 22 ga
Interior: 24 ga
Steel Support: 12 ga, grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

30" Wide 12ga Steel Support 22/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 6"	10' - 4"	9' - 5"	8' - 8"	8' - 1"	7' - 7"	7' - 1"
	Double	13' - 7"	12' - 2"	10' - 3"	8' - 11"	7' - 10"	7' - 1"	6' - 5"
	Multiple	13' - 5"	11' - 11"	10' - 5"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	13' - 6"	12' - 2"	11' - 1"	10' - 3"	9' - 6"	8' - 11"	8' - 5"
	Double	15' - 4"	12' - 10"	10' - 10"	9' - 5"	8' - 4"	7' - 6"	6' - 9"
	Multiple	15' - 9"	14' - 0"	11' - 9"	10' - 2"	8' - 11"	7' - 11"	7' - 2"
3"	Single	15' - 4"	13' - 10"	12' - 8"	11' - 8"	10' - 10"	10' - 2"	9' - 5"
	Double	16' - 0"	12' - 11"	10' - 11"	9' - 6"	8' - 5"	7' - 7"	6' - 10"
	Multiple	17' - 8"	14' - 2"	11' - 10"	10' - 2"	8' - 11"	7' - 11"	7' - 2"
4"	Single	18' - 1"	16' - 2"	14' - 9"	13' - 8"	12' - 8"	11' - 3"	10' - 1"
	Double	16' - 2"	13' - 2"	11' - 2"	9' - 8"	8' - 7"	7' - 9"	7' - 0"
	Multiple	17' - 8"	14' - 2"	11' - 10"	10' - 3"	9' - 0"	8' - 0"	7' - 3"
5"	Single	20' - 4"	18' - 2"	16' - 7"	14' - 9"	12' - 11"	11' - 6"	10' - 4"
	Double	16' - 5"	13' - 4"	11' - 4"	9' - 10"	8' - 9"	7' - 10"	7' - 1"
	Multiple	17' - 9"	14' - 3"	11' - 11"	10' - 3"	9' - 0"	8' - 1"	7' - 3"
6"	Single	22' - 4"	20' - 0"	16' - 9"	14' - 4"	12' - 6"	11' - 2"	10' - 0"
	Double	16' - 7"	13' - 7"	11' - 6"	10' - 0"	8' - 10"	7' - 11"	7' - 3"
	Multiple	17' - 10"	14' - 4"	12' - 0"	10' - 4"	9' - 1"	8' - 1"	7' - 4"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

30" Wide 12ga Steel Support 22/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 0"	9' - 2"	8' - 6"	7' - 11"	7' - 4"	6' - 11"
	Double	12' - 6"	11' - 4"	10' - 3"	8' - 11"	7' - 10"	7' - 1"	6' - 5"
	Multiple	13' - 0"	11' - 7"	10' - 5"	9' - 0"	7' - 11"	7' - 1"	6' - 4"
2.5"	Single	12' - 11"	11' - 6"	10' - 6"	9' - 9"	9' - 1"	8' - 7"	8' - 2"
	Double	14' - 0"	12' - 9"	10' - 9"	9' - 4"	8' - 3"	7' - 5"	6' - 9"
	Multiple	14' - 11"	13' - 5"	11' - 9"	10' - 1"	8' - 10"	7' - 11"	7' - 2"
3"	Single	14' - 2"	12' - 8"	11' - 7"	10' - 8"	10' - 0"	9' - 5"	8' - 11"
	Double	15' - 6"	12' - 11"	10' - 11"	9' - 5"	8' - 4"	7' - 6"	6' - 10"
	Multiple	16' - 5"	14' - 2"	11' - 10"	10' - 2"	8' - 11"	7' - 11"	7' - 2"
4"	Single	16' - 6"	14' - 9"	13' - 5"	12' - 5"	11' - 8"	11' - 0"	10' - 1"
	Double	16' - 1"	13' - 1"	11' - 1"	9' - 7"	8' - 6"	7' - 8"	7' - 0"
	Multiple	17' - 8"	14' - 2"	11' - 10"	10' - 2"	8' - 11"	8' - 0"	7' - 3"
5"	Single	18' - 6"	16' - 7"	15' - 1"	14' - 0"	12' - 11"	11' - 6"	10' - 4"
	Double	16' - 4"	13' - 3"	11' - 3"	9' - 9"	8' - 8"	7' - 10"	7' - 1"
	Multiple	17' - 9"	14' - 3"	11' - 11"	10' - 3"	9' - 0"	8' - 1"	7' - 3"
6"	Single	20' - 4"	18' - 2"	16' - 7"	14' - 4"	12' - 6"	11' - 2"	10' - 0"
	Double	16' - 6"	13' - 6"	11' - 5"	9' - 11"	8' - 10"	7' - 11"	7' - 2"
	Multiple	17' - 9"	14' - 3"	12' - 0"	10' - 4"	9' - 1"	8' - 1"	7' - 4"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 24 ga
 Interior: 24 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

30" Wide 12ga Steel Support 24/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 0"	9' - 2"	8' - 6"	7' - 10"	7' - 4"	6' - 11"
	Double	13' - 5"	11' - 11"	10' - 2"	8' - 10"	7' - 9"	7' - 0"	6' - 4"
	Multiple	13' - 0"	11' - 7"	10' - 4"	8' - 10"	7' - 9"	6' - 11"	6' - 4"
2.5"	Single	13' - 1"	11' - 10"	10' - 9"	10' - 0"	9' - 3"	8' - 8"	7' - 11"
	Double	15' - 2"	12' - 4"	10' - 5"	9' - 0"	8' - 0"	7' - 2"	6' - 6"
	Multiple	15' - 4"	13' - 7"	11' - 4"	9' - 9"	8' - 7"	7' - 7"	6' - 11"
3"	Single	14' - 11"	13' - 5"	12' - 3"	11' - 4"	10' - 7"	9' - 6"	8' - 7"
	Double	15' - 11"	12' - 11"	10' - 11"	9' - 5"	8' - 4"	7' - 6"	6' - 10"
	Multiple	17' - 6"	14' - 2"	11' - 10"	10' - 2"	8' - 11"	7' - 11"	7' - 2"
4"	Single	18' - 1"	16' - 2"	14' - 9"	13' - 4"	11' - 8"	10' - 4"	9' - 4"
	Double	16' - 1"	13' - 1"	11' - 1"	9' - 8"	8' - 6"	7' - 8"	7' - 0"
	Multiple	17' - 8"	14' - 2"	11' - 10"	10' - 2"	8' - 11"	8' - 0"	7' - 3"
5"	Single	20' - 4"	18' - 2"	15' - 11"	13' - 7"	11' - 11"	10' - 7"	9' - 6"
	Double	16' - 4"	13' - 3"	11' - 3"	9' - 10"	8' - 8"	7' - 10"	7' - 1"
	Multiple	17' - 9"	14' - 3"	11' - 11"	10' - 3"	9' - 0"	8' - 1"	7' - 3"
6"	Single	22' - 4"	18' - 6"	15' - 5"	13' - 2"	11' - 6"	10' - 3"	9' - 3"
	Double	16' - 6"	13' - 6"	11' - 5"	9' - 11"	8' - 10"	7' - 11"	7' - 2"
	Multiple	17' - 9"	14' - 3"	12' - 0"	10' - 4"	9' - 1"	8' - 1"	7' - 4"

Deflection limit:	L/180
Fastening Method:	Intermediate Connection: Concealed Leo-Klip with (2) ¼-14 HWH fasteners at every support End Connection: Concealed Leo-Klip+ with (2) ¼-14 HWH fasteners and (1) ¼-14 x 7/8" stitch fastener plus (2) ¼-14x2" face fasteners at each end support
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal differential:	EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 24 ga
 Interior: 26 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

30" Wide 12ga Steel Support 24/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 10"	9' - 9"	8' - 11"	8' - 3"	7' - 8"	7' - 3"	6' - 9"
	Double	12' - 4"	11' - 2"	10' - 2"	8' - 9"	7' - 9"	7' - 0"	6' - 4"
	Multiple	12' - 8"	11' - 4"	10' - 3"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	12' - 9"	11' - 6"	10' - 6"	9' - 8"	9' - 1"	8' - 6"	7' - 11"
	Double	13' - 11"	12' - 4"	10' - 5"	9' - 0"	7' - 11"	7' - 2"	6' - 6"
	Multiple	14' - 9"	13' - 4"	11' - 4"	9' - 9"	8' - 7"	7' - 7"	6' - 10"
3"	Single	14' - 2"	12' - 8"	11' - 6"	10' - 8"	10' - 0"	9' - 5"	8' - 7"
	Double	15' - 4"	12' - 10"	10' - 10"	9' - 5"	8' - 4"	7' - 6"	6' - 10"
	Multiple	16' - 4"	14' - 1"	11' - 9"	10' - 2"	8' - 11"	7' - 11"	7' - 2"
4"	Single	16' - 5"	14' - 8"	13' - 5"	12' - 5"	11' - 7"	10' - 4"	9' - 4"
	Double	16' - 1"	13' - 0"	11' - 0"	9' - 7"	8' - 6"	7' - 8"	6' - 11"
	Multiple	17' - 8"	14' - 2"	11' - 10"	10' - 2"	8' - 11"	8' - 0"	7' - 2"
5"	Single	18' - 6"	16' - 6"	15' - 1"	13' - 7"	11' - 11"	10' - 7"	9' - 6"
	Double	16' - 3"	13' - 3"	11' - 2"	9' - 9"	8' - 8"	7' - 9"	7' - 1"
	Multiple	17' - 8"	14' - 3"	11' - 11"	10' - 3"	9' - 0"	8' - 0"	7' - 3"
6"	Single	20' - 4"	18' - 2"	15' - 5"	13' - 2"	11' - 6"	10' - 3"	9' - 3"
	Double	16' - 5"	13' - 5"	11' - 4"	9' - 11"	8' - 9"	7' - 11"	7' - 2"
	Multiple	17' - 9"	14' - 3"	11' - 11"	10' - 4"	9' - 1"	8' - 1"	7' - 4"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 26 ga
 Interior: 26 ga
 Steel Support: 12 ga, grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

30" Wide 12ga Steel Support 26/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 7"	9' - 6"	8' - 9"	8' - 1"	7' - 6"	7' - 0"	6' - 3"
	Double	12' - 2"	10' - 10"	9' - 1"	7' - 11"	7' - 0"	6' - 3"	5' - 8"
	Multiple	12' - 5"	11' - 1"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 1"
2.5"	Single	12' - 5"	11' - 2"	10' - 3"	9' - 6"	8' - 10"	8' - 0"	7' - 2"
	Double	13' - 8"	11' - 0"	9' - 4"	8' - 1"	7' - 2"	6' - 5"	5' - 10"
	Multiple	14' - 7"	12' - 2"	10' - 2"	8' - 8"	7' - 8"	6' - 10"	6' - 2"
3"	Single	14' - 1"	12' - 7"	11' - 6"	10' - 8"	9' - 9"	8' - 8"	7' - 9"
	Double	14' - 7"	11' - 10"	10' - 0"	8' - 8"	7' - 8"	6' - 11"	6' - 3"
	Multiple	16' - 2"	13' - 0"	10' - 10"	9' - 4"	8' - 2"	7' - 3"	6' - 7"
4"	Single	16' - 5"	14' - 8"	13' - 5"	12' - 2"	10' - 8"	9' - 6"	8' - 6"
	Double	16' - 0"	13' - 0"	11' - 0"	9' - 6"	8' - 5"	7' - 7"	6' - 11"
	Multiple	17' - 8"	14' - 2"	11' - 10"	10' - 2"	8' - 11"	8' - 0"	7' - 2"
5"	Single	18' - 5"	16' - 6"	14' - 7"	12' - 6"	10' - 11"	9' - 8"	8' - 9"
	Double	16' - 2"	13' - 2"	11' - 2"	9' - 8"	8' - 7"	7' - 9"	7' - 0"
	Multiple	17' - 8"	14' - 2"	11' - 11"	10' - 3"	9' - 0"	8' - 0"	7' - 3"
6"	Single	16' - 4"	14' - 11"	13' - 9"	12' - 1"	10' - 6"	9' - 4"	8' - 5"
	Double	15' - 10"	12' - 10"	10' - 9"	9' - 4"	8' - 3"	7' - 5"	6' - 9"
	Multiple	17' - 7"	14' - 1"	11' - 9"	10' - 1"	8' - 10"	7' - 11"	7' - 2"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

30" Wide 1/4" Steel Support 22/22								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 11"	10' - 8"	9' - 9"	8' - 11"	8' - 4"	7' - 9"	7' - 3"
	Double	14' - 3"	12' - 2"	10' - 3"	8' - 11"	7' - 11"	7' - 1"	6' - 5"
	Multiple	13' - 10"	12' - 3"	10' - 4"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	14' - 0"	12' - 6"	11' - 5"	10' - 6"	9' - 10"	9' - 2"	8' - 7"
	Double	16' - 9"	13' - 8"	11' - 7"	10' - 0"	8' - 10"	8' - 0"	7' - 3"
	Multiple	16' - 3"	14' - 5"	12' - 7"	10' - 10"	9' - 6"	8' - 5"	7' - 8"
3"	Single	15' - 11"	14' - 3"	13' - 0"	12' - 0"	11' - 2"	10' - 5"	9' - 5"
	Double	17' - 11"	14' - 6"	12' - 3"	10' - 8"	9' - 5"	8' - 6"	7' - 8"
	Multiple	18' - 6"	15' - 11"	13' - 4"	11' - 5"	10' - 0"	8' - 11"	8' - 1"
4"	Single	19' - 5"	17' - 5"	15' - 11"	14' - 5"	12' - 8"	11' - 3"	10' - 1"
	Double	19' - 5"	15' - 9"	13' - 4"	11' - 7"	10' - 3"	9' - 3"	8' - 5"
	Multiple	20' - 0"	17' - 2"	14' - 4"	12' - 4"	10' - 10"	9' - 8"	8' - 9"
5"	Single	22' - 6"	20' - 2"	17' - 3"	14' - 9"	12' - 11"	11' - 6"	10' - 4"
	Double	20' - 7"	16' - 9"	14' - 2"	12' - 4"	10' - 11"	9' - 10"	8' - 11"
	Multiple	20' - 0"	18' - 1"	15' - 2"	13' - 0"	11' - 5"	10' - 3"	9' - 3"
6"	Single	25' - 1"	20' - 1"	16' - 9"	14' - 4"	12' - 6"	11' - 2"	10' - 0"
	Double	21' - 5"	17' - 5"	14' - 9"	12' - 10"	11' - 5"	10' - 3"	9' - 4"
	Multiple	20' - 0"	18' - 8"	15' - 8"	13' - 6"	11' - 10"	10' - 7"	9' - 7"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 22 ga
Interior: 24 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

30" Wide 1/4" Steel Support 22/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 6"	10' - 4"	9' - 5"	8' - 8"	8' - 1"	7' - 7"	7' - 1"
	Double	13' - 7"	12' - 2"	10' - 3"	8' - 11"	7' - 10"	7' - 1"	6' - 5"
	Multiple	13' - 5"	11' - 11"	10' - 5"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	13' - 6"	12' - 2"	11' - 1"	10' - 3"	9' - 6"	8' - 11"	8' - 5"
	Double	15' - 4"	13' - 8"	11' - 6"	10' - 0"	8' - 10"	7' - 11"	7' - 2"
	Multiple	15' - 9"	14' - 0"	12' - 7"	10' - 10"	9' - 6"	8' - 5"	7' - 7"
3"	Single	15' - 4"	13' - 10"	12' - 8"	11' - 8"	10' - 10"	10' - 2"	9' - 5"
	Double	16' - 11"	14' - 6"	12' - 2"	10' - 7"	9' - 4"	8' - 5"	7' - 8"
	Multiple	17' - 11"	15' - 11"	13' - 3"	11' - 5"	10' - 0"	8' - 11"	8' - 1"
4"	Single	18' - 1"	16' - 2"	14' - 9"	13' - 8"	12' - 8"	11' - 3"	10' - 1"
	Double	19' - 4"	15' - 8"	13' - 3"	11' - 6"	10' - 2"	9' - 2"	8' - 4"
	Multiple	20' - 0"	17' - 1"	14' - 4"	12' - 4"	10' - 9"	9' - 7"	8' - 8"
5"	Single	20' - 4"	18' - 2"	16' - 7"	14' - 9"	12' - 11"	11' - 6"	10' - 4"
	Double	20' - 6"	16' - 8"	14' - 1"	12' - 3"	10' - 10"	9' - 9"	8' - 10"
	Multiple	20' - 0"	18' - 1"	15' - 1"	13' - 0"	11' - 5"	10' - 2"	9' - 2"
6"	Single	22' - 4"	20' - 0"	16' - 9"	14' - 4"	12' - 6"	11' - 2"	10' - 0"
	Double	21' - 4"	17' - 4"	14' - 8"	12' - 9"	11' - 4"	10' - 2"	9' - 3"
	Multiple	20' - 0"	18' - 8"	15' - 7"	13' - 5"	11' - 10"	10' - 6"	9' - 6"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

30" Wide 1/4" Steel Support 22/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 0"	9' - 2"	8' - 6"	7' - 11"	7' - 4"	6' - 11"
	Double	12' - 6"	11' - 4"	10' - 3"	8' - 11"	7' - 10"	7' - 1"	6' - 5"
	Multiple	13' - 0"	11' - 7"	10' - 5"	9' - 0"	7' - 11"	7' - 1"	6' - 4"
2.5"	Single	12' - 11"	11' - 6"	10' - 6"	9' - 9"	9' - 1"	8' - 7"	8' - 2"
	Double	14' - 0"	12' - 9"	11' - 5"	9' - 11"	8' - 9"	7' - 10"	7' - 2"
	Multiple	14' - 11"	13' - 5"	12' - 4"	10' - 9"	9' - 5"	8' - 5"	7' - 7"
3"	Single	14' - 2"	12' - 8"	11' - 7"	10' - 8"	10' - 0"	9' - 5"	8' - 11"
	Double	15' - 6"	14' - 1"	12' - 2"	10' - 6"	9' - 4"	8' - 4"	7' - 7"
	Multiple	16' - 5"	14' - 9"	13' - 3"	11' - 5"	10' - 0"	8' - 11"	8' - 0"
4"	Single	16' - 6"	14' - 9"	13' - 5"	12' - 5"	11' - 8"	11' - 0"	10' - 1"
	Double	18' - 2"	15' - 7"	13' - 2"	11' - 5"	10' - 2"	9' - 1"	8' - 3"
	Multiple	19' - 1"	17' - 1"	14' - 3"	12' - 3"	10' - 9"	9' - 7"	8' - 8"
5"	Single	18' - 6"	16' - 7"	15' - 1"	14' - 0"	12' - 11"	11' - 6"	10' - 4"
	Double	20' - 5"	16' - 7"	14' - 0"	12' - 2"	10' - 10"	9' - 8"	8' - 10"
	Multiple	20' - 0"	18' - 1"	15' - 1"	13' - 0"	11' - 5"	10' - 2"	9' - 2"
6"	Single	20' - 4"	18' - 2"	16' - 7"	14' - 4"	12' - 6"	11' - 2"	10' - 0"
	Double	21' - 3"	17' - 3"	14' - 7"	12' - 8"	11' - 3"	10' - 1"	9' - 2"
	Multiple	20' - 0"	18' - 7"	15' - 7"	13' - 5"	11' - 9"	10' - 6"	9' - 6"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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

Leo-Klip+™

Load / Span Tables



Facer Gauges: Exterior: 24 ga
 Interior: 24 ga
 Steel Support: 1/4" grade 50 (FU = 65 ksi)
 Condition: Negative Wind Pressure

30" Wide 1/4" Steel Support 24/24								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	11' - 2"	10' - 0"	9' - 2"	8' - 6"	7' - 10"	7' - 4"	6' - 11"
	Double	13' - 5"	11' - 11"	10' - 2"	8' - 10"	7' - 9"	7' - 0"	6' - 4"
	Multiple	13' - 0"	11' - 7"	10' - 4"	8' - 10"	7' - 9"	6' - 11"	6' - 4"
2.5"	Single	13' - 1"	11' - 10"	10' - 9"	10' - 0"	9' - 3"	8' - 8"	7' - 11"
	Double	15' - 2"	12' - 4"	10' - 5"	9' - 0"	8' - 0"	7' - 2"	6' - 6"
	Multiple	15' - 4"	13' - 7"	11' - 4"	9' - 9"	8' - 7"	7' - 7"	6' - 11"
3"	Single	14' - 11"	13' - 5"	12' - 3"	11' - 4"	10' - 7"	9' - 6"	8' - 7"
	Double	16' - 3"	13' - 2"	11' - 1"	9' - 8"	8' - 6"	7' - 8"	7' - 0"
	Multiple	17' - 6"	14' - 5"	12' - 1"	10' - 4"	9' - 1"	8' - 1"	7' - 4"
4"	Single	18' - 1"	16' - 2"	14' - 9"	13' - 4"	11' - 8"	10' - 4"	9' - 4"
	Double	17' - 8"	14' - 4"	12' - 2"	10' - 7"	9' - 4"	8' - 5"	7' - 8"
	Multiple	19' - 6"	15' - 8"	13' - 1"	11' - 3"	9' - 10"	8' - 10"	7' - 11"
5"	Single	20' - 4"	18' - 2"	15' - 11"	13' - 7"	11' - 11"	10' - 7"	9' - 6"
	Double	18' - 11"	15' - 4"	13' - 0"	11' - 3"	10' - 0"	9' - 0"	8' - 2"
	Multiple	20' - 0"	16' - 7"	13' - 11"	11' - 11"	10' - 6"	9' - 4"	8' - 6"
6"	Single	22' - 4"	18' - 6"	15' - 5"	13' - 2"	11' - 6"	10' - 3"	9' - 3"
	Double	19' - 8"	16' - 0"	13' - 7"	11' - 10"	10' - 5"	9' - 5"	8' - 7"
	Multiple	20' - 0"	17' - 2"	14' - 5"	12' - 5"	10' - 11"	9' - 9"	8' - 9"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
 End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 24 ga
Interior: 26 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

30" Wide 1/4" Steel Support 24/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 10"	9' - 9"	8' - 11"	8' - 3"	7' - 8"	7' - 3"	6' - 9"
	Double	12' - 4"	11' - 2"	10' - 2"	8' - 9"	7' - 9"	7' - 0"	6' - 4"
	Multiple	12' - 8"	11' - 4"	10' - 3"	8' - 11"	7' - 10"	7' - 0"	6' - 4"
2.5"	Single	12' - 9"	11' - 6"	10' - 6"	9' - 8"	9' - 1"	8' - 6"	7' - 11"
	Double	13' - 11"	12' - 4"	10' - 5"	9' - 0"	7' - 11"	7' - 2"	6' - 6"
	Multiple	14' - 9"	13' - 4"	11' - 4"	9' - 9"	8' - 7"	7' - 7"	6' - 10"
3"	Single	14' - 2"	12' - 8"	11' - 6"	10' - 8"	10' - 0"	9' - 5"	8' - 7"
	Double	15' - 4"	13' - 1"	11' - 1"	9' - 7"	8' - 6"	7' - 7"	6' - 11"
	Multiple	16' - 4"	14' - 5"	12' - 1"	10' - 4"	9' - 1"	8' - 1"	7' - 4"
4"	Single	16' - 5"	14' - 8"	13' - 5"	12' - 5"	11' - 7"	10' - 4"	9' - 4"
	Double	17' - 8"	14' - 4"	12' - 1"	10' - 6"	9' - 4"	8' - 4"	7' - 7"
	Multiple	19' - 0"	15' - 8"	13' - 1"	11' - 3"	9' - 10"	8' - 9"	7' - 11"
5"	Single	18' - 6"	16' - 6"	15' - 1"	13' - 7"	11' - 11"	10' - 7"	9' - 6"
	Double	18' - 10"	15' - 3"	12' - 11"	11' - 3"	9' - 11"	8' - 11"	8' - 2"
	Multiple	20' - 0"	16' - 7"	13' - 10"	11' - 11"	10' - 6"	9' - 4"	8' - 5"
6"	Single	20' - 4"	18' - 2"	15' - 5"	13' - 2"	11' - 6"	10' - 3"	9' - 3"
	Double	19' - 7"	15' - 11"	13' - 6"	11' - 9"	10' - 5"	9' - 4"	8' - 6"
	Multiple	20' - 0"	17' - 2"	14' - 4"	12' - 4"	10' - 10"	9' - 8"	8' - 9"

Deflection limit: L/180

Fastening Method: Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support
End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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
Leo-Klip+™
Load / Span Tables



Facer Gauges: Exterior: 26 ga
Interior: 26 ga
Steel Support: 1/4" grade 50 (FU = 65 ksi)
Condition: Negative Wind Pressure

30" Wide 1/4" Steel Support 26/26								
Panel Thickness	Span Condition	20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10' - 7"	9' - 6"	8' - 9"	8' - 1"	7' - 6"	7' - 0"	6' - 3"
	Double	12' - 2"	10' - 10"	9' - 1"	7' - 11"	7' - 0"	6' - 3"	5' - 8"
	Multiple	12' - 5"	11' - 1"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 1"
2.5"	Single	12' - 5"	11' - 2"	10' - 3"	9' - 6"	8' - 10"	8' - 0"	7' - 2"
	Double	13' - 8"	11' - 0"	9' - 4"	8' - 1"	7' - 2"	6' - 5"	5' - 10"
	Multiple	14' - 7"	12' - 2"	10' - 2"	8' - 8"	7' - 8"	6' - 10"	6' - 2"
3"	Single	14' - 1"	12' - 7"	11' - 6"	10' - 8"	9' - 9"	8' - 8"	7' - 9"
	Double	14' - 7"	11' - 10"	10' - 0"	8' - 8"	7' - 8"	6' - 11"	6' - 3"
	Multiple	16' - 2"	13' - 0"	10' - 10"	9' - 4"	8' - 2"	7' - 3"	6' - 7"
4"	Single	16' - 5"	14' - 8"	13' - 5"	12' - 2"	10' - 8"	9' - 6"	8' - 6"
	Double	16' - 1"	13' - 0"	11' - 0"	9' - 7"	8' - 6"	7' - 7"	6' - 11"
	Multiple	17' - 8"	14' - 2"	11' - 10"	10' - 2"	9' - 0"	8' - 0"	7' - 3"
5"	Single	18' - 5"	16' - 6"	14' - 7"	12' - 6"	10' - 11"	9' - 8"	8' - 9"
	Double	17' - 3"	14' - 0"	11' - 10"	10' - 4"	9' - 1"	8' - 2"	7' - 5"
	Multiple	18' - 11"	15' - 2"	12' - 8"	10' - 11"	9' - 7"	8' - 7"	7' - 9"
6"	Single	16' - 4"	14' - 11"	13' - 9"	12' - 1"	10' - 6"	9' - 4"	8' - 5"
	Double	17' - 5"	14' - 1"	11' - 10"	10' - 3"	9' - 1"	8' - 2"	7' - 5"
	Multiple	19' - 5"	15' - 7"	13' - 0"	11' - 2"	9' - 9"	8' - 9"	7' - 10"

Deflection limit:	L/180
Fastening Method:	Intermediate Connection: Concealed Leo-Klip with (2) 1/4-14 HWH fasteners at every support End Connection: Concealed Leo-Klip+ with (2) 1/4-14 HWH fasteners and (1) 1/4-14 x 7/8" stitch fastener plus (2) 1/4-14x2" face fasteners at each end support
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal differential:	EXCLUDED
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (3453 lbs/fastener)

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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