

QuadCore®

Optimo®



Load / Span Tables

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QuadCore® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



40" Wide 16 Ga 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"	9' - 9"	8' - 2"	7' - 0"	6' - 1"	5' - 5"	4' - 10"
	Double	7' - 1"	5' - 9"	4' - 11"	4' - 3"	3' - 9"	3' - 5"	3' - 1"
	Multiple	7' - 7"	6' - 1"	5' - 1"	4' - 5"	3' - 10"	3' - 5"	3' - 1"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	7' - 2"	5' - 10"	5' - 0"	4' - 4"	3' - 10"	3' - 5"	3' - 1"
	Multiple	7' - 8"	6' - 2"	5' - 2"	4' - 5"	3' - 11"	3' - 6"	3' - 2"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	7' - 3"	5' - 11"	5' - 0"	4' - 4"	3' - 10"	3' - 6"	3' - 2"
	Multiple	7' - 8"	6' - 2"	5' - 2"	4' - 6"	3' - 11"	3' - 6"	3' - 2"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	7' - 5"	6' - 1"	5' - 1"	4' - 5"	3' - 11"	3' - 6"	3' - 2"
	Multiple	7' - 9"	6' - 3"	5' - 3"	4' - 6"	3' - 11"	3' - 6"	3' - 2"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	7' - 6"	6' - 2"	5' - 2"	4' - 6"	4' - 0"	3' - 6"	3' - 2"
	Multiple	7' - 9"	6' - 3"	5' - 3"	4' - 6"	4' - 0"	3' - 7"	3' - 2"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	7' - 8"	6' - 3"	5' - 3"	4' - 6"	4' - 0"	3' - 7"	3' - 3"
	Multiple	7' - 10"	6' - 4"	5' - 4"	4' - 7"	4' - 0"	3' - 7"	3' - 3"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



40" Wide 16 Ga 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"	9' - 10"	8' - 2"	7' - 0"	6' - 2"	5' - 5"	4' - 11"
	Double	7' - 2"	5' - 10"	4' - 11"	4' - 3"	3' - 10"	3' - 5"	3' - 1"
	Multiple	7' - 7"	6' - 1"	5' - 2"	4' - 5"	3' - 11"	3' - 6"	3' - 2"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	7' - 3"	5' - 11"	5' - 0"	4' - 4"	3' - 10"	3' - 5"	3' - 1"
	Multiple	7' - 8"	6' - 2"	5' - 2"	4' - 5"	3' - 11"	3' - 6"	3' - 2"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	7' - 4"	6' - 0"	5' - 1"	4' - 5"	3' - 11"	3' - 6"	3' - 2"
	Multiple	7' - 8"	6' - 2"	5' - 2"	4' - 6"	3' - 11"	3' - 6"	3' - 2"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	7' - 5"	6' - 1"	5' - 2"	4' - 6"	3' - 11"	3' - 6"	3' - 2"
	Multiple	7' - 9"	6' - 3"	5' - 3"	4' - 6"	4' - 0"	3' - 6"	3' - 2"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	7' - 7"	6' - 2"	5' - 3"	4' - 6"	4' - 0"	3' - 7"	3' - 2"
	Multiple	7' - 9"	6' - 3"	5' - 3"	4' - 7"	4' - 0"	3' - 7"	3' - 3"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	7' - 8"	6' - 3"	5' - 3"	4' - 7"	4' - 0"	3' - 7"	3' - 3"
	Multiple	7' - 10"	6' - 4"	5' - 4"	4' - 7"	4' - 0"	3' - 7"	3' - 3"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 lbs/fastener)

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QuadCore® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



40" Wide 16 Ga 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"	9' - 10"	8' - 2"	7' - 0"	6' - 2"	5' - 5"	4' - 11"
	Double	7' - 2"	5' - 10"	5' - 0"	4' - 4"	3' - 10"	3' - 5"	3' - 1"
	Multiple	7' - 8"	6' - 2"	5' - 2"	4' - 5"	3' - 11"	3' - 6"	3' - 2"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	7' - 3"	5' - 11"	5' - 0"	4' - 4"	3' - 10"	3' - 6"	3' - 2"
	Multiple	7' - 8"	6' - 2"	5' - 2"	4' - 6"	3' - 11"	3' - 6"	3' - 2"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	7' - 4"	6' - 0"	5' - 1"	4' - 5"	3' - 11"	3' - 6"	3' - 2"
	Multiple	7' - 8"	6' - 2"	5' - 2"	4' - 6"	3' - 11"	3' - 6"	3' - 2"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	7' - 6"	6' - 1"	5' - 2"	4' - 6"	3' - 11"	3' - 6"	3' - 2"
	Multiple	7' - 9"	6' - 3"	5' - 3"	4' - 6"	4' - 0"	3' - 7"	3' - 2"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	7' - 8"	6' - 3"	5' - 3"	4' - 6"	4' - 0"	3' - 7"	3' - 3"
	Multiple	7' - 10"	6' - 4"	5' - 3"	4' - 7"	4' - 0"	3' - 7"	3' - 3"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	7' - 9"	6' - 3"	5' - 3"	4' - 7"	4' - 0"	3' - 7"	3' - 3"
	Multiple	7' - 10"	6' - 4"	5' - 4"	4' - 7"	4' - 0"	3' - 7"	3' - 3"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



40" Wide 14 Ga 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"	9' - 9"	8' - 2"	7' - 0"	6' - 1"	5' - 5"	4' - 10"
	Double	8' - 8"	7' - 1"	6' - 0"	5' - 3"	4' - 7"	4' - 2"	3' - 9"
	Multiple	9' - 6"	7' - 7"	6' - 4"	5' - 6"	4' - 10"	4' - 3"	3' - 10"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	8' - 10"	7' - 2"	6' - 1"	5' - 3"	4' - 8"	4' - 3"	3' - 10"
	Multiple	9' - 6"	7' - 8"	6' - 5"	5' - 6"	4' - 10"	4' - 4"	3' - 11"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	8' - 11"	7' - 3"	6' - 2"	5' - 4"	4' - 9"	4' - 3"	3' - 10"
	Multiple	9' - 6"	7' - 8"	6' - 5"	5' - 6"	4' - 10"	4' - 4"	3' - 11"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	9' - 1"	7' - 5"	6' - 3"	5' - 5"	4' - 10"	4' - 4"	3' - 11"
	Multiple	9' - 7"	7' - 9"	6' - 6"	5' - 7"	4' - 11"	4' - 5"	3' - 11"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	9' - 3"	7' - 6"	6' - 5"	5' - 6"	4' - 11"	4' - 5"	4' - 0"
	Multiple	9' - 8"	7' - 9"	6' - 6"	5' - 7"	4' - 11"	4' - 5"	4' - 0"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	9' - 4"	7' - 8"	6' - 6"	5' - 7"	4' - 11"	4' - 5"	4' - 0"
	Multiple	9' - 8"	7' - 10"	6' - 7"	5' - 8"	5' - 0"	4' - 5"	4' - 0"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



40" Wide 14 Ga 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"	9' - 10"	8' - 2"	7' - 0"	6' - 2"	5' - 5"	4' - 11"
	Double	8' - 9"	7' - 1"	6' - 0"	5' - 3"	4' - 8"	4' - 2"	3' - 9"
	Multiple	9' - 6"	7' - 7"	6' - 4"	5' - 6"	4' - 10"	4' - 4"	3' - 11"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	8' - 10"	7' - 3"	6' - 1"	5' - 4"	4' - 9"	4' - 3"	3' - 10"
	Multiple	9' - 6"	7' - 8"	6' - 5"	5' - 6"	4' - 10"	4' - 4"	3' - 11"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	8' - 11"	7' - 4"	6' - 2"	5' - 5"	4' - 9"	4' - 3"	3' - 11"
	Multiple	9' - 6"	7' - 8"	6' - 5"	5' - 7"	4' - 10"	4' - 4"	3' - 11"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	9' - 1"	7' - 5"	6' - 4"	5' - 6"	4' - 10"	4' - 4"	3' - 11"
	Multiple	9' - 7"	7' - 9"	6' - 6"	5' - 7"	4' - 11"	4' - 5"	4' - 0"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	9' - 3"	7' - 7"	6' - 5"	5' - 7"	4' - 11"	4' - 5"	4' - 0"
	Multiple	9' - 8"	7' - 9"	6' - 6"	5' - 8"	4' - 11"	4' - 5"	4' - 0"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	9' - 5"	7' - 8"	6' - 6"	5' - 7"	4' - 11"	4' - 5"	4' - 0"
	Multiple	9' - 9"	7' - 10"	6' - 7"	5' - 8"	5' - 0"	4' - 5"	4' - 0"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



40" Wide 14 Ga 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"	9' - 10"	8' - 2"	7' - 0"	6' - 2"	5' - 5"	4' - 11"
	Double	8' - 9"	7' - 2"	6' - 1"	5' - 3"	4' - 8"	4' - 2"	3' - 10"
	Multiple	9' - 6"	7' - 8"	6' - 5"	5' - 6"	4' - 10"	4' - 4"	3' - 11"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	8' - 11"	7' - 3"	6' - 2"	5' - 4"	4' - 9"	4' - 3"	3' - 10"
	Multiple	9' - 6"	7' - 8"	6' - 5"	5' - 6"	4' - 10"	4' - 4"	3' - 11"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	9' - 0"	7' - 4"	6' - 3"	5' - 5"	4' - 10"	4' - 4"	3' - 11"
	Multiple	9' - 7"	7' - 8"	6' - 5"	5' - 7"	4' - 11"	4' - 4"	3' - 11"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	9' - 2"	7' - 6"	6' - 4"	5' - 6"	4' - 10"	4' - 4"	3' - 11"
	Multiple	9' - 7"	7' - 9"	6' - 6"	5' - 7"	4' - 11"	4' - 5"	4' - 0"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	9' - 4"	7' - 8"	6' - 5"	5' - 7"	4' - 11"	4' - 5"	4' - 0"
	Multiple	9' - 8"	7' - 10"	6' - 7"	5' - 8"	5' - 0"	4' - 5"	4' - 0"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	9' - 6"	7' - 9"	6' - 6"	5' - 8"	5' - 0"	4' - 5"	4' - 0"
	Multiple	9' - 9"	7' - 10"	6' - 7"	5' - 8"	5' - 0"	4' - 5"	4' - 0"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



40" Wide 12 Ga 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"	9' - 9"	8' - 2"	7' - 0"	6' - 1"	5' - 5"	4' - 10"
	Double	10' - 10"	8' - 9"	7' - 5"	6' - 5"	5' - 9"	5' - 2"	4' - 8"
	Multiple	11' - 11"	9' - 7"	8' - 0"	6' - 10"	6' - 0"	5' - 4"	4' - 10"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	12' - 0"	9' - 9"	8' - 3"	7' - 2"	6' - 4"	5' - 9"	5' - 2"
	Multiple	13' - 3"	10' - 7"	8' - 10"	7' - 8"	6' - 8"	6' - 0"	5' - 5"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	12' - 2"	9' - 10"	8' - 4"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	13' - 3"	10' - 8"	8' - 11"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	12' - 4"	10' - 1"	8' - 6"	7' - 5"	6' - 7"	5' - 11"	5' - 4"
	Multiple	13' - 4"	10' - 8"	8' - 11"	7' - 9"	6' - 9"	6' - 1"	5' - 6"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	12' - 6"	10' - 3"	8' - 8"	7' - 6"	6' - 8"	6' - 0"	5' - 5"
	Multiple	13' - 4"	10' - 9"	9' - 0"	7' - 9"	6' - 10"	6' - 1"	5' - 6"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	12' - 8"	10' - 5"	8' - 10"	7' - 8"	6' - 9"	6' - 1"	5' - 6"
	Multiple	13' - 5"	10' - 10"	9' - 1"	7' - 10"	6' - 11"	6' - 2"	5' - 7"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



40" Wide 12 Ga 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"	9' - 10"	8' - 2"	7' - 0"	6' - 2"	5' - 5"	4' - 11"
	Double	10' - 11"	8' - 10"	7' - 6"	6' - 6"	5' - 9"	5' - 2"	4' - 8"
	Multiple	12' - 0"	9' - 7"	8' - 0"	6' - 11"	6' - 1"	5' - 5"	4' - 11"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	12' - 1"	9' - 10"	8' - 4"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	13' - 3"	10' - 7"	8' - 11"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	12' - 2"	9' - 11"	8' - 5"	7' - 4"	6' - 6"	5' - 10"	5' - 3"
	Multiple	13' - 3"	10' - 8"	8' - 11"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	12' - 5"	10' - 1"	8' - 7"	7' - 5"	6' - 7"	5' - 11"	5' - 4"
	Multiple	13' - 4"	10' - 9"	9' - 0"	7' - 9"	6' - 10"	6' - 1"	5' - 6"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	12' - 7"	10' - 3"	8' - 9"	7' - 7"	6' - 8"	6' - 0"	5' - 5"
	Multiple	13' - 5"	10' - 9"	9' - 0"	7' - 9"	6' - 10"	6' - 1"	5' - 6"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	12' - 9"	10' - 5"	8' - 10"	7' - 8"	6' - 10"	6' - 1"	5' - 6"
	Multiple	13' - 5"	10' - 10"	9' - 1"	7' - 10"	6' - 11"	6' - 2"	5' - 7"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



40" Wide 12 Ga 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"	9' - 10"	8' - 2"	7' - 0"	6' - 2"	5' - 5"	4' - 11"
	Double	11' - 6"	9' - 4"	7' - 11"	6' - 10"	6' - 1"	5' - 6"	5' - 0"
	Multiple	12' - 7"	10' - 1"	8' - 6"	7' - 3"	6' - 5"	5' - 8"	5' - 2"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	12' - 2"	9' - 10"	8' - 4"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	13' - 3"	10' - 8"	8' - 11"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	12' - 3"	10' - 0"	8' - 5"	7' - 4"	6' - 6"	5' - 10"	5' - 4"
	Multiple	13' - 3"	10' - 8"	8' - 11"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	12' - 5"	10' - 2"	8' - 7"	7' - 6"	6' - 8"	6' - 0"	5' - 4"
	Multiple	13' - 4"	10' - 9"	9' - 0"	7' - 9"	6' - 10"	6' - 1"	5' - 6"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	12' - 8"	10' - 4"	8' - 9"	7' - 7"	6' - 9"	6' - 1"	5' - 6"
	Multiple	13' - 5"	10' - 10"	9' - 1"	7' - 10"	6' - 10"	6' - 2"	5' - 6"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	12' - 10"	10' - 6"	8' - 11"	7' - 9"	6' - 10"	6' - 1"	5' - 6"
	Multiple	13' - 6"	10' - 10"	9' - 1"	7' - 10"	6' - 11"	6' - 2"	5' - 7"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



40" Wide 1/4" STL 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"	9' - 9"	8' - 2"	7' - 0"	6' - 1"	5' - 5"	4' - 10"
	Double	10' - 10"	8' - 9"	7' - 5"	6' - 5"	5' - 9"	5' - 2"	4' - 8"
	Multiple	11' - 11"	9' - 7"	8' - 0"	6' - 10"	6' - 0"	5' - 4"	4' - 10"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	12' - 3"	10' - 0"	8' - 5"	7' - 4"	6' - 6"	5' - 10"	5' - 3"
	Multiple	13' - 6"	10' - 10"	9' - 1"	7' - 9"	6' - 10"	6' - 1"	5' - 6"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	12' - 7"	10' - 3"	8' - 8"	7' - 7"	6' - 8"	6' - 0"	5' - 6"
	Multiple	13' - 10"	11' - 1"	9' - 3"	8' - 0"	7' - 0"	6' - 3"	5' - 8"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	13' - 3"	10' - 9"	9' - 2"	7' - 11"	7' - 0"	6' - 1"	5' - 5"
	Multiple	14' - 4"	11' - 6"	9' - 8"	8' - 4"	7' - 3"	6' - 4"	5' - 7"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	14' - 7"	11' - 11"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 6"
	Multiple	15' - 9"	12' - 5"	10' - 2"	8' - 7"	7' - 5"	6' - 6"	5' - 9"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	15' - 11"	12' - 6"	10' - 1"	8' - 5"	7' - 3"	6' - 4"	5' - 8"
	Multiple	16' - 3"	12' - 9"	10' - 5"	8' - 9"	7' - 6"	6' - 7"	5' - 10"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



40" Wide 1/4" STL 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"	9' - 10"	8' - 2"	7' - 0"	6' - 2"	5' - 5"	4' - 11"
	Double	10' - 11"	8' - 10"	7' - 6"	6' - 6"	5' - 9"	5' - 2"	4' - 8"
	Multiple	12' - 0"	9' - 7"	8' - 0"	6' - 11"	6' - 1"	5' - 5"	4' - 11"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	12' - 4"	10' - 0"	8' - 6"	7' - 4"	6' - 6"	5' - 10"	5' - 4"
	Multiple	13' - 6"	10' - 10"	9' - 1"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	12' - 8"	10' - 4"	8' - 9"	7' - 7"	6' - 9"	6' - 1"	5' - 6"
	Multiple	13' - 10"	11' - 1"	9' - 3"	8' - 0"	7' - 0"	6' - 3"	5' - 8"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	13' - 4"	10' - 10"	9' - 2"	8' - 0"	6' - 11"	6' - 1"	5' - 4"
	Multiple	14' - 5"	11' - 7"	9' - 8"	8' - 4"	7' - 2"	6' - 3"	5' - 7"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	14' - 8"	12' - 0"	9' - 10"	8' - 3"	7' - 1"	6' - 2"	5' - 6"
	Multiple	15' - 9"	12' - 5"	10' - 2"	8' - 6"	7' - 4"	6' - 5"	5' - 8"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	16' - 0"	12' - 5"	10' - 0"	8' - 5"	7' - 3"	6' - 4"	5' - 8"
	Multiple	16' - 2"	12' - 8"	10' - 4"	8' - 8"	7' - 6"	6' - 6"	5' - 10"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



40" Wide 1/4" STL 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"	9' - 10"	8' - 2"	7' - 0"	6' - 2"	5' - 5"	4' - 11"
	Double	11' - 6"	9' - 4"	7' - 11"	6' - 10"	6' - 1"	5' - 6"	5' - 0"
	Multiple	12' - 7"	10' - 1"	8' - 6"	7' - 3"	6' - 5"	5' - 8"	5' - 2"
2.5"	Single	12' - 4"	9' - 11"	8' - 3"	7' - 1"	6' - 2"	5' - 6"	4' - 11"
	Double	12' - 4"	10' - 1"	8' - 6"	7' - 5"	6' - 7"	5' - 11"	5' - 4"
	Multiple	13' - 6"	10' - 10"	9' - 1"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
3"	Single	12' - 6"	9' - 11"	8' - 4"	7' - 1"	6' - 3"	5' - 6"	4' - 11"
	Double	12' - 9"	10' - 4"	8' - 9"	7' - 8"	6' - 9"	6' - 1"	5' - 5"
	Multiple	13' - 10"	11' - 1"	9' - 4"	8' - 0"	7' - 0"	6' - 3"	5' - 7"
4"	Single	12' - 7"	10' - 0"	8' - 4"	7' - 2"	6' - 3"	5' - 7"	5' - 0"
	Double	13' - 5"	10' - 11"	9' - 3"	8' - 0"	6' - 10"	6' - 0"	5' - 4"
	Multiple	14' - 5"	11' - 7"	9' - 8"	8' - 3"	7' - 1"	6' - 3"	5' - 6"
5"	Single	13' - 1"	10' - 5"	8' - 8"	7' - 5"	6' - 6"	5' - 9"	5' - 2"
	Double	14' - 9"	12' - 0"	9' - 9"	8' - 2"	7' - 0"	6' - 2"	5' - 6"
	Multiple	15' - 8"	12' - 4"	10' - 1"	8' - 5"	7' - 3"	6' - 4"	5' - 8"
6"	Single	13' - 6"	10' - 10"	9' - 0"	7' - 8"	6' - 9"	6' - 0"	5' - 5"
	Double	15' - 11"	12' - 3"	9' - 11"	8' - 4"	7' - 2"	6' - 3"	5' - 7"
	Multiple	16' - 1"	12' - 7"	10' - 3"	8' - 7"	7' - 5"	6' - 6"	5' - 9"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



36" Wide 16 Ga 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	7' - 10"	6' - 4"	5' - 5"	4' - 8"	4' - 2"	3' - 9"	3' - 5"
	Multiple	8' - 5"	6' - 9"	5' - 8"	4' - 11"	4' - 3"	3' - 10"	3' - 5"
2.5"	Single	12' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	7' - 11"	6' - 5"	5' - 6"	4' - 9"	4' - 3"	3' - 9"	3' - 5"
	Multiple	8' - 6"	6' - 10"	5' - 8"	4' - 11"	4' - 4"	3' - 10"	3' - 6"
3"	Single	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	Double	8' - 0"	6' - 6"	5' - 6"	4' - 10"	4' - 3"	3' - 10"	3' - 6"
	Multiple	8' - 6"	6' - 10"	5' - 9"	4' - 11"	4' - 4"	3' - 10"	3' - 6"
4"	Single	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	Double	8' - 2"	6' - 8"	5' - 8"	4' - 11"	4' - 4"	3' - 10"	3' - 6"
	Multiple	8' - 7"	6' - 11"	5' - 9"	5' - 0"	4' - 5"	3' - 11"	3' - 6"
5"	Single	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	Double	8' - 4"	6' - 9"	5' - 9"	5' - 0"	4' - 5"	3' - 11"	3' - 6"
	Multiple	8' - 7"	6' - 11"	5' - 10"	5' - 0"	4' - 5"	3' - 11"	3' - 7"
6"	Single	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	8' - 5"	6' - 10"	5' - 10"	5' - 0"	4' - 5"	3' - 11"	3' - 7"
	Multiple	8' - 8"	7' - 0"	5' - 10"	5' - 1"	4' - 5"	4' - 0"	3' - 7"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



36" Wide 16 Ga 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	7' - 10"	6' - 5"	5' - 5"	4' - 9"	4' - 2"	3' - 9"	3' - 5"
	Multiple	8' - 5"	6' - 9"	5' - 8"	4' - 11"	4' - 4"	3' - 10"	3' - 6"
2.5"	Single	13' - 6"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	7' - 11"	6' - 6"	5' - 6"	4' - 9"	4' - 3"	3' - 10"	3' - 5"
	Multiple	8' - 6"	6' - 10"	5' - 9"	4' - 11"	4' - 4"	3' - 10"	3' - 6"
3"	Single	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	Double	8' - 0"	6' - 7"	5' - 7"	4' - 10"	4' - 3"	3' - 10"	3' - 6"
	Multiple	8' - 6"	6' - 10"	5' - 9"	4' - 11"	4' - 4"	3' - 11"	3' - 6"
4"	Single	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	Double	8' - 2"	6' - 8"	5' - 8"	4' - 11"	4' - 4"	3' - 11"	3' - 6"
	Multiple	8' - 7"	6' - 11"	5' - 10"	5' - 0"	4' - 5"	3' - 11"	3' - 6"
5"	Single	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	Double	8' - 4"	6' - 10"	5' - 9"	5' - 0"	4' - 5"	3' - 11"	3' - 7"
	Multiple	8' - 7"	6' - 11"	5' - 10"	5' - 0"	4' - 5"	3' - 11"	3' - 7"
6"	Single	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	8' - 6"	6' - 11"	5' - 10"	5' - 0"	4' - 5"	3' - 11"	3' - 7"
	Multiple	8' - 8"	7' - 0"	5' - 11"	5' - 1"	4' - 5"	4' - 0"	3' - 7"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



36" Wide 16 Ga 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	7' - 11"	6' - 5"	5' - 6"	4' - 9"	4' - 2"	3' - 9"	3' - 5"
	Multiple	8' - 5"	6' - 10"	5' - 8"	4' - 11"	4' - 4"	3' - 10"	3' - 6"
2.5"	Single	13' - 9"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	8' - 0"	6' - 6"	5' - 6"	4' - 10"	4' - 3"	3' - 10"	3' - 6"
	Multiple	8' - 6"	6' - 10"	5' - 9"	4' - 11"	4' - 4"	3' - 10"	3' - 6"
3"	Single	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	Double	8' - 1"	6' - 7"	5' - 7"	4' - 10"	4' - 4"	3' - 10"	3' - 6"
	Multiple	8' - 6"	6' - 10"	5' - 9"	5' - 0"	4' - 4"	3' - 11"	3' - 6"
4"	Single	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	Double	8' - 3"	6' - 9"	5' - 8"	4' - 11"	4' - 4"	3' - 11"	3' - 6"
	Multiple	8' - 7"	6' - 11"	5' - 10"	5' - 0"	4' - 5"	3' - 11"	3' - 7"
5"	Single	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	Double	8' - 5"	6' - 10"	5' - 9"	5' - 0"	4' - 5"	3' - 11"	3' - 7"
	Multiple	8' - 8"	7' - 0"	5' - 10"	5' - 1"	4' - 5"	3' - 11"	3' - 7"
6"	Single	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	8' - 6"	6' - 11"	5' - 10"	5' - 1"	4' - 5"	4' - 0"	3' - 7"
	Multiple	8' - 8"	7' - 0"	5' - 11"	5' - 1"	4' - 6"	4' - 0"	3' - 7"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



36" Wide 14 Ga 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	9' - 7"	7' - 10"	6' - 7"	5' - 9"	5' - 1"	4' - 7"	4' - 2"
	Multiple	10' - 6"	8' - 5"	7' - 1"	6' - 1"	5' - 4"	4' - 9"	4' - 3"
2.5"	Single	12' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	9' - 8"	7' - 11"	6' - 8"	5' - 10"	5' - 2"	4' - 8"	4' - 3"
	Multiple	10' - 6"	8' - 6"	7' - 1"	6' - 1"	5' - 4"	4' - 9"	4' - 4"
3"	Single	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	Double	9' - 10"	8' - 0"	6' - 9"	5' - 11"	5' - 3"	4' - 8"	4' - 3"
	Multiple	10' - 7"	8' - 6"	7' - 1"	6' - 1"	5' - 5"	4' - 10"	4' - 4"
4"	Single	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	Double	10' - 0"	8' - 2"	6' - 11"	6' - 0"	5' - 4"	4' - 9"	4' - 4"
	Multiple	10' - 7"	8' - 7"	7' - 2"	6' - 2"	5' - 5"	4' - 10"	4' - 5"
5"	Single	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	Double	10' - 2"	8' - 4"	7' - 0"	6' - 1"	5' - 5"	4' - 10"	4' - 5"
	Multiple	10' - 8"	8' - 7"	7' - 3"	6' - 3"	5' - 6"	4' - 11"	4' - 5"
6"	Single	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	10' - 4"	8' - 5"	7' - 2"	6' - 2"	5' - 5"	4' - 11"	4' - 5"
	Multiple	10' - 9"	8' - 8"	7' - 3"	6' - 3"	5' - 6"	4' - 11"	4' - 5"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



36" Wide 14 Ga 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	9' - 8"	7' - 10"	6' - 8"	5' - 9"	5' - 1"	4' - 7"	4' - 2"
	Multiple	10' - 6"	8' - 5"	7' - 1"	6' - 1"	5' - 4"	4' - 9"	4' - 4"
2.5"	Single	13' - 6"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	9' - 9"	7' - 11"	6' - 9"	5' - 10"	5' - 2"	4' - 8"	4' - 3"
	Multiple	10' - 7"	8' - 6"	7' - 1"	6' - 1"	5' - 4"	4' - 9"	4' - 4"
3"	Single	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	Double	9' - 10"	8' - 0"	6' - 10"	5' - 11"	5' - 3"	4' - 9"	4' - 3"
	Multiple	10' - 7"	8' - 6"	7' - 1"	6' - 2"	5' - 5"	4' - 10"	4' - 4"
4"	Single	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	Double	10' - 0"	8' - 2"	6' - 11"	6' - 1"	5' - 4"	4' - 10"	4' - 4"
	Multiple	10' - 8"	8' - 7"	7' - 2"	6' - 2"	5' - 5"	4' - 10"	4' - 5"
5"	Single	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	Double	10' - 3"	8' - 4"	7' - 1"	6' - 2"	5' - 5"	4' - 10"	4' - 5"
	Multiple	10' - 8"	8' - 7"	7' - 3"	6' - 3"	5' - 6"	4' - 11"	4' - 5"
6"	Single	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	10' - 4"	8' - 6"	7' - 2"	6' - 3"	5' - 6"	4' - 11"	4' - 5"
	Multiple	10' - 9"	8' - 8"	7' - 3"	6' - 3"	5' - 6"	4' - 11"	4' - 5"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



36" Wide 14 Ga 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	9' - 8"	7' - 11"	6' - 8"	5' - 10"	5' - 2"	4' - 7"	4' - 2"
	Multiple	10' - 6"	8' - 5"	7' - 1"	6' - 1"	5' - 4"	4' - 9"	4' - 4"
2.5"	Single	13' - 9"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	9' - 10"	8' - 0"	6' - 9"	5' - 11"	5' - 3"	4' - 8"	4' - 3"
	Multiple	10' - 7"	8' - 6"	7' - 1"	6' - 1"	5' - 5"	4' - 10"	4' - 4"
3"	Single	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	Double	9' - 11"	8' - 1"	6' - 10"	6' - 0"	5' - 3"	4' - 9"	4' - 4"
	Multiple	10' - 7"	8' - 6"	7' - 2"	6' - 2"	5' - 5"	4' - 10"	4' - 4"
4"	Single	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	Double	10' - 1"	8' - 3"	7' - 0"	6' - 1"	5' - 5"	4' - 10"	4' - 4"
	Multiple	10' - 8"	8' - 7"	7' - 2"	6' - 2"	5' - 6"	4' - 10"	4' - 5"
5"	Single	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	Double	10' - 3"	8' - 5"	7' - 1"	6' - 2"	5' - 5"	4' - 10"	4' - 5"
	Multiple	10' - 9"	8' - 8"	7' - 3"	6' - 3"	5' - 6"	4' - 11"	4' - 5"
6"	Single	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	10' - 5"	8' - 6"	7' - 2"	6' - 3"	5' - 6"	4' - 11"	4' - 5"
	Multiple	10' - 9"	8' - 8"	7' - 4"	6' - 4"	5' - 6"	4' - 11"	4' - 6"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



36" Wide 12 Ga 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	12' - 3"	9' - 11"	8' - 4"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	13' - 0"	10' - 11"	9' - 1"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
2.5"	Single	12' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	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	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	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	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	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	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	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	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	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

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



36" Wide 12 Ga 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	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"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	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	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	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	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	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	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	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	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	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

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



36" Wide 12 Ga 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	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' - 9"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	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	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	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	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	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	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	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	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	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

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



36" Wide 1/4" STL 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	12' - 3"	9' - 11"	8' - 4"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	13' - 0"	10' - 11"	9' - 1"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
2.5"	Single	12' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	13' - 7"	11' - 0"	9' - 3"	8' - 1"	7' - 2"	6' - 5"	5' - 10"
	Multiple	14' - 10"	12' - 0"	10' - 1"	8' - 8"	7' - 7"	6' - 9"	6' - 1"
3"	Single	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	Double	13' - 11"	11' - 4"	9' - 7"	8' - 4"	7' - 4"	6' - 7"	6' - 0"
	Multiple	15' - 4"	12' - 3"	10' - 3"	8' - 10"	7' - 9"	6' - 11"	6' - 3"
4"	Single	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	Double	14' - 7"	11' - 11"	10' - 1"	8' - 9"	7' - 9"	6' - 11"	6' - 1"
	Multiple	15' - 11"	12' - 10"	10' - 8"	9' - 3"	8' - 1"	7' - 1"	6' - 4"
5"	Single	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	Double	16' - 1"	13' - 1"	11' - 1"	9' - 5"	8' - 1"	7' - 0"	6' - 3"
	Multiple	17' - 5"	13' - 11"	11' - 5"	9' - 8"	8' - 4"	7' - 3"	6' - 5"
6"	Single	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	17' - 7"	14' - 2"	11' - 5"	9' - 6"	8' - 2"	7' - 2"	6' - 4"
	Multiple	18' - 2"	14' - 3"	11' - 8"	9' - 10"	8' - 6"	7' - 5"	6' - 7"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



36" Wide 1/4" STL 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	13' - 5"	10' - 10"	9' - 2"	7' - 11"	7' - 0"	6' - 4"	5' - 9"
	Multiple	13' - 5"	11' - 11"	9' - 11"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
2.5"	Single	13' - 6"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	13' - 7"	11' - 0"	9' - 4"	8' - 1"	7' - 2"	6' - 5"	5' - 10"
	Multiple	15' - 0"	12' - 0"	10' - 1"	8' - 8"	7' - 7"	6' - 9"	6' - 1"
3"	Single	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	Double	14' - 0"	11' - 4"	9' - 7"	8' - 4"	7' - 5"	6' - 8"	6' - 0"
	Multiple	15' - 4"	12' - 4"	10' - 3"	8' - 10"	7' - 9"	6' - 11"	6' - 3"
4"	Single	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	Double	14' - 8"	11' - 11"	10' - 1"	8' - 10"	7' - 10"	6' - 10"	6' - 1"
	Multiple	15' - 11"	12' - 10"	10' - 9"	9' - 3"	8' - 1"	7' - 1"	6' - 3"
5"	Single	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	Double	16' - 2"	13' - 2"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"
	Multiple	17' - 6"	13' - 10"	11' - 4"	9' - 7"	8' - 3"	7' - 3"	6' - 5"
6"	Single	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	17' - 8"	14' - 0"	11' - 4"	9' - 5"	8' - 1"	7' - 1"	6' - 4"
	Multiple	18' - 1"	14' - 2"	11' - 7"	9' - 9"	8' - 5"	7' - 4"	6' - 6"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



36" Wide 1/4" STL 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' - 0"	7' - 9"	6' - 9"	6' - 0"	5' - 5"
	Double	13' - 6"	10' - 11"	9' - 3"	8' - 0"	7' - 1"	6' - 5"	5' - 10"
	Multiple	13' - 10"	12' - 0"	10' - 0"	8' - 7"	7' - 7"	6' - 9"	6' - 1"
2.5"	Single	13' - 9"	11' - 0"	9' - 2"	7' - 10"	6' - 10"	6' - 1"	5' - 6"
	Double	13' - 8"	11' - 1"	9' - 5"	8' - 2"	7' - 3"	6' - 6"	5' - 11"
	Multiple	15' - 0"	12' - 1"	10' - 1"	8' - 8"	7' - 7"	6' - 9"	6' - 1"
3"	Single	13' - 10"	11' - 0"	9' - 2"	7' - 10"	6' - 11"	6' - 1"	5' - 6"
	Double	14' - 0"	11' - 5"	9' - 8"	8' - 5"	7' - 5"	6' - 8"	6' - 1"
	Multiple	15' - 4"	12' - 4"	10' - 4"	8' - 10"	7' - 9"	6' - 11"	6' - 3"
4"	Single	14' - 0"	11' - 2"	9' - 4"	8' - 0"	7' - 0"	6' - 2"	5' - 7"
	Double	14' - 9"	12' - 0"	10' - 2"	8' - 10"	7' - 9"	6' - 9"	6' - 0"
	Multiple	16' - 0"	12' - 10"	10' - 9"	9' - 3"	8' - 0"	7' - 0"	6' - 3"
5"	Single	14' - 6"	11' - 7"	9' - 8"	8' - 3"	7' - 3"	6' - 5"	5' - 9"
	Double	16' - 3"	13' - 3"	11' - 0"	9' - 3"	7' - 11"	6' - 11"	6' - 2"
	Multiple	17' - 6"	13' - 10"	11' - 4"	9' - 6"	8' - 2"	7' - 2"	6' - 4"
6"	Single	15' - 0"	12' - 0"	10' - 0"	8' - 7"	7' - 6"	6' - 8"	6' - 0"
	Double	17' - 9"	13' - 10"	11' - 2"	9' - 4"	8' - 1"	7' - 1"	6' - 3"
	Multiple	18' - 0"	14' - 1"	11' - 6"	9' - 8"	8' - 4"	7' - 4"	6' - 6"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



30" Wide 16 Ga 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' - 3"	6' - 6"
	Double	9' - 3"	7' - 6"	6' - 4"	5' - 6"	4' - 11"	4' - 5"	4' - 0"
	Multiple	10' - 1"	8' - 1"	6' - 9"	5' - 10"	5' - 1"	4' - 7"	4' - 1"
2.5"	Single	12' - 11"	11' - 6"	10' - 6"	9' - 5"	8' - 3"	7' - 4"	6' - 7"
	Double	9' - 4"	7' - 7"	6' - 5"	5' - 7"	5' - 0"	4' - 6"	4' - 1"
	Multiple	10' - 1"	8' - 2"	6' - 10"	5' - 10"	5' - 2"	4' - 7"	4' - 2"
3"	Single	14' - 2"	12' - 8"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	Double	9' - 5"	7' - 9"	6' - 6"	5' - 8"	5' - 0"	4' - 6"	4' - 1"
	Multiple	10' - 2"	8' - 2"	6' - 10"	5' - 11"	5' - 2"	4' - 7"	4' - 2"
4"	Single	16' - 6"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	Double	9' - 8"	7' - 10"	6' - 8"	5' - 10"	5' - 2"	4' - 7"	4' - 2"
	Multiple	10' - 2"	8' - 3"	6' - 11"	5' - 11"	5' - 3"	4' - 8"	4' - 3"
5"	Single	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	Double	9' - 10"	8' - 0"	6' - 9"	5' - 11"	5' - 2"	4' - 8"	4' - 3"
	Multiple	10' - 3"	8' - 3"	6' - 11"	6' - 0"	5' - 3"	4' - 8"	4' - 3"
6"	Single	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	Double	9' - 11"	8' - 1"	6' - 10"	5' - 11"	5' - 3"	4' - 8"	4' - 3"
	Multiple	10' - 4"	8' - 4"	7' - 0"	6' - 0"	5' - 4"	4' - 9"	4' - 3"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



30" Wide 16 Ga 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' - 3"	6' - 6"
	Double	9' - 3"	7' - 7"	6' - 5"	5' - 7"	4' - 11"	4' - 5"	4' - 0"
	Multiple	10' - 1"	8' - 1"	6' - 9"	5' - 10"	5' - 2"	4' - 7"	4' - 2"
2.5"	Single	13' - 6"	12' - 2"	11' - 0"	9' - 5"	8' - 3"	7' - 4"	6' - 7"
	Double	9' - 5"	7' - 8"	6' - 6"	5' - 8"	5' - 0"	4' - 6"	4' - 1"
	Multiple	10' - 2"	8' - 2"	6' - 10"	5' - 10"	5' - 2"	4' - 7"	4' - 2"
3"	Single	15' - 4"	13' - 3"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	Double	9' - 6"	7' - 9"	6' - 7"	5' - 9"	5' - 1"	4' - 7"	4' - 1"
	Multiple	10' - 2"	8' - 2"	6' - 10"	5' - 11"	5' - 2"	4' - 8"	4' - 2"
4"	Single	16' - 9"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	Double	9' - 8"	7' - 11"	6' - 8"	5' - 10"	5' - 2"	4' - 7"	4' - 2"
	Multiple	10' - 3"	8' - 3"	6' - 11"	5' - 11"	5' - 3"	4' - 8"	4' - 3"
5"	Single	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	Double	9' - 10"	8' - 1"	6' - 10"	5' - 11"	5' - 3"	4' - 8"	4' - 3"
	Multiple	10' - 3"	8' - 3"	7' - 0"	6' - 0"	5' - 3"	4' - 9"	4' - 3"
6"	Single	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	Double	10' - 0"	8' - 2"	6' - 11"	6' - 0"	5' - 3"	4' - 9"	4' - 3"
	Multiple	10' - 4"	8' - 4"	7' - 0"	6' - 1"	5' - 4"	4' - 9"	4' - 3"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



30" Wide 16 Ga 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' - 2"	7' - 3"	6' - 6"
	Double	9' - 4"	7' - 7"	6' - 5"	5' - 7"	5' - 0"	4' - 5"	4' - 1"
	Multiple	10' - 1"	8' - 2"	6' - 10"	5' - 10"	5' - 2"	4' - 7"	4' - 2"
2.5"	Single	14' - 0"	12' - 6"	11' - 0"	9' - 5"	8' - 3"	7' - 4"	6' - 7"
	Double	9' - 5"	7' - 9"	6' - 6"	5' - 8"	5' - 0"	4' - 6"	4' - 1"
	Multiple	10' - 2"	8' - 2"	6' - 10"	5' - 11"	5' - 2"	4' - 7"	4' - 2"
3"	Single	15' - 11"	13' - 3"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	Double	9' - 7"	7' - 10"	6' - 7"	5' - 9"	5' - 1"	4' - 7"	4' - 2"
	Multiple	10' - 2"	8' - 2"	6' - 10"	5' - 11"	5' - 2"	4' - 8"	4' - 2"
4"	Single	16' - 9"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	Double	9' - 9"	8' - 0"	6' - 9"	5' - 10"	5' - 2"	4' - 8"	4' - 2"
	Multiple	10' - 3"	8' - 3"	6' - 11"	6' - 0"	5' - 3"	4' - 8"	4' - 3"
5"	Single	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	Double	9' - 11"	8' - 1"	6' - 10"	5' - 11"	5' - 3"	4' - 8"	4' - 3"
	Multiple	10' - 4"	8' - 4"	7' - 0"	6' - 0"	5' - 4"	4' - 9"	4' - 3"
6"	Single	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	Double	10' - 1"	8' - 3"	6' - 11"	6' - 0"	5' - 4"	4' - 9"	4' - 3"
	Multiple	10' - 4"	8' - 4"	7' - 0"	6' - 1"	5' - 4"	4' - 9"	4' - 3"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



30" Wide 14 Ga 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' - 3"	6' - 6"
	Double	11' - 5"	9' - 3"	7' - 10"	6' - 9"	6' - 0"	5' - 5"	4' - 11"
	Multiple	12' - 7"	10' - 1"	8' - 5"	7' - 3"	6' - 4"	5' - 8"	5' - 1"
2.5"	Single	12' - 11"	11' - 6"	10' - 6"	9' - 5"	8' - 3"	7' - 4"	6' - 7"
	Double	11' - 6"	9' - 4"	7' - 11"	6' - 10"	6' - 1"	5' - 6"	5' - 0"
	Multiple	12' - 7"	10' - 1"	8' - 6"	7' - 3"	6' - 5"	5' - 8"	5' - 2"
3"	Single	14' - 2"	12' - 8"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	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' - 6"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	Double	11' - 10"	9' - 8"	8' - 2"	7' - 1"	6' - 3"	5' - 8"	5' - 2"
	Multiple	12' - 8"	10' - 2"	8' - 7"	7' - 4"	6' - 6"	5' - 9"	5' - 3"
5"	Single	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	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' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	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

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



30" Wide 14 Ga 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' - 3"	6' - 6"
	Double	11' - 5"	9' - 3"	7' - 10"	6' - 10"	6' - 0"	5' - 5"	4' - 11"
	Multiple	12' - 7"	10' - 1"	8' - 5"	7' - 3"	6' - 4"	5' - 8"	5' - 2"
2.5"	Single	13' - 6"	12' - 2"	11' - 0"	9' - 5"	8' - 3"	7' - 4"	6' - 7"
	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' - 3"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	Double	11' - 8"	9' - 6"	8' - 1"	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	16' - 9"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	Double	11' - 10"	9' - 8"	8' - 2"	7' - 2"	6' - 4"	5' - 8"	5' - 2"
	Multiple	12' - 8"	10' - 3"	8' - 7"	7' - 5"	6' - 6"	5' - 10"	5' - 3"
5"	Single	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	Double	12' - 1"	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	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	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' - 11"	5' - 4"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



30" Wide 14 Ga 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' - 2"	7' - 3"	6' - 6"
	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"
2.5"	Single	14' - 0"	12' - 6"	11' - 0"	9' - 5"	8' - 3"	7' - 4"	6' - 7"
	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' - 11"	13' - 3"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	Double	11' - 9"	9' - 7"	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	16' - 9"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	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	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	Double	12' - 2"	9' - 11"	8' - 5"	7' - 4"	6' - 5"	5' - 9"	5' - 3"
	Multiple	12' - 9"	10' - 4"	8' - 8"	7' - 5"	6' - 7"	5' - 10"	5' - 3"
6"	Single	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	Double	12' - 4"	10' - 1"	8' - 6"	7' - 5"	6' - 6"	5' - 10"	5' - 4"
	Multiple	12' - 10"	10' - 4"	8' - 8"	7' - 6"	6' - 7"	5' - 11"	5' - 4"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



30" Wide 12 Ga 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' - 3"	6' - 6"
	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' - 5"	8' - 3"	7' - 4"	6' - 7"
	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' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	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"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	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	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	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	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	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: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



30" Wide 12 Ga 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' - 3"	6' - 6"
	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' - 0"	9' - 5"	8' - 3"	7' - 4"	6' - 7"
	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' - 3"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	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	16' - 9"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	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	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	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	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	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: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



30" Wide 12 Ga 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' - 2"	7' - 3"	6' - 6"
	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' - 0"	9' - 5"	8' - 3"	7' - 4"	6' - 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"	13' - 3"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	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	16' - 9"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	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	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	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	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	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: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



30" Wide 1/4" STL 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' - 3"	6' - 6"
	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' - 5"	8' - 3"	7' - 4"	6' - 7"
	Double	14' - 0"	12' - 9"	11' - 0"	9' - 6"	8' - 5"	7' - 7"	6' - 11"
	Multiple	14' - 11"	13' - 5"	12' - 0"	10' - 4"	9' - 1"	8' - 1"	7' - 3"
3"	Single	14' - 2"	12' - 8"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	Double	15' - 6"	13' - 5"	11' - 4"	9' - 10"	8' - 8"	7' - 10"	7' - 1"
	Multiple	16' - 5"	14' - 9"	12' - 4"	10' - 7"	9' - 3"	8' - 3"	7' - 5"
4"	Single	16' - 6"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	Double	17' - 4"	14' - 1"	11' - 11"	10' - 4"	9' - 2"	8' - 3"	7' - 6"
	Multiple	19' - 1"	15' - 4"	12' - 10"	11' - 0"	9' - 8"	8' - 7"	7' - 9"
5"	Single	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	Double	19' - 1"	15' - 6"	13' - 1"	11' - 5"	9' - 11"	8' - 8"	7' - 8"
	Multiple	20' - 0"	16' - 9"	13' - 11"	11' - 9"	10' - 2"	8' - 11"	7' - 11"
6"	Single	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	Double	20' - 10"	16' - 11"	14' - 2"	11' - 10"	10' - 1"	8' - 10"	7' - 10"
	Multiple	20' - 0"	17' - 5"	14' - 4"	12' - 1"	10' - 5"	9' - 1"	8' - 1"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



30" Wide 1/4" STL 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' - 3"	6' - 6"
	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' - 0"	9' - 5"	8' - 3"	7' - 4"	6' - 7"
	Double	15' - 4"	13' - 1"	11' - 1"	9' - 7"	8' - 6"	7' - 7"	6' - 11"
	Multiple	15' - 9"	14' - 0"	12' - 0"	10' - 4"	9' - 1"	8' - 1"	7' - 4"
3"	Single	15' - 4"	13' - 3"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	Double	16' - 7"	13' - 5"	11' - 4"	9' - 10"	8' - 9"	7' - 10"	7' - 2"
	Multiple	17' - 11"	14' - 9"	12' - 4"	10' - 7"	9' - 3"	8' - 3"	7' - 6"
4"	Single	16' - 9"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	Double	17' - 5"	14' - 2"	11' - 11"	10' - 5"	9' - 2"	8' - 3"	7' - 6"
	Multiple	19' - 1"	15' - 4"	12' - 10"	11' - 0"	9' - 8"	8' - 8"	7' - 8"
5"	Single	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	Double	19' - 1"	15' - 7"	13' - 2"	11' - 5"	9' - 10"	8' - 7"	7' - 7"
	Multiple	20' - 0"	16' - 9"	13' - 10"	11' - 9"	10' - 1"	8' - 10"	7' - 10"
6"	Single	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	Double	20' - 11"	17' - 0"	14' - 0"	11' - 8"	10' - 0"	8' - 9"	7' - 9"
	Multiple	20' - 0"	17' - 4"	14' - 3"	12' - 0"	10' - 4"	9' - 1"	8' - 0"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



30" Wide 1/4" STL 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' - 2"	7' - 3"	6' - 6"
	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' - 0"	9' - 5"	8' - 3"	7' - 4"	6' - 7"
	Double	16' - 3"	13' - 2"	11' - 1"	9' - 8"	8' - 6"	7' - 8"	7' - 0"
	Multiple	16' - 3"	14' - 5"	12' - 1"	10' - 4"	9' - 1"	8' - 1"	7' - 4"
3"	Single	15' - 11"	13' - 3"	11' - 1"	9' - 6"	8' - 3"	7' - 4"	6' - 7"
	Double	16' - 8"	13' - 6"	11' - 5"	9' - 11"	8' - 9"	7' - 11"	7' - 2"
	Multiple	18' - 5"	14' - 9"	12' - 4"	10' - 7"	9' - 4"	8' - 4"	7' - 6"
4"	Single	16' - 9"	13' - 5"	11' - 2"	9' - 7"	8' - 4"	7' - 5"	6' - 8"
	Double	17' - 6"	14' - 2"	12' - 0"	10' - 5"	9' - 3"	8' - 4"	7' - 5"
	Multiple	19' - 1"	15' - 4"	12' - 10"	11' - 1"	9' - 8"	8' - 7"	7' - 8"
5"	Single	17' - 5"	13' - 11"	11' - 7"	9' - 11"	8' - 8"	7' - 9"	6' - 11"
	Double	19' - 3"	15' - 8"	13' - 3"	11' - 5"	9' - 9"	8' - 6"	7' - 6"
	Multiple	20' - 0"	16' - 9"	13' - 9"	11' - 8"	10' - 0"	8' - 9"	7' - 10"
6"	Single	18' - 1"	14' - 5"	12' - 0"	10' - 4"	9' - 0"	8' - 0"	7' - 2"
	Double	21' - 0"	17' - 1"	13' - 10"	11' - 7"	9' - 11"	8' - 8"	7' - 8"
	Multiple	20' - 0"	17' - 3"	14' - 2"	11' - 11"	10' - 3"	9' - 0"	8' - 0"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



24" Wide 16 Ga 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	11' - 5"	9' - 3"	7' - 10"	6' - 9"	6' - 0"	5' - 5"	4' - 11"
	Multiple	12' - 7"	10' - 1"	8' - 5"	7' - 3"	6' - 4"	5' - 8"	5' - 1"
2.5"	Single	13' - 0"	11' - 7"	10' - 7"	9' - 10"	9' - 2"	8' - 8"	8' - 2"
	Double	11' - 6"	9' - 4"	7' - 11"	6' - 11"	6' - 1"	5' - 6"	5' - 0"
	Multiple	12' - 7"	10' - 1"	8' - 6"	7' - 3"	6' - 5"	5' - 8"	5' - 2"
3"	Single	14' - 3"	12' - 9"	11' - 8"	10' - 9"	10' - 1"	9' - 2"	8' - 3"
	Double	11' - 7"	9' - 5"	8' - 0"	7' - 0"	6' - 2"	5' - 7"	5' - 0"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
4"	Single	16' - 7"	14' - 10"	13' - 6"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	Double	11' - 10"	9' - 8"	8' - 2"	7' - 1"	6' - 4"	5' - 8"	5' - 2"
	Multiple	12' - 8"	10' - 2"	8' - 7"	7' - 4"	6' - 6"	5' - 9"	5' - 3"
5"	Single	18' - 8"	16' - 8"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	Double	12' - 0"	9' - 10"	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	20' - 6"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	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

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



24" Wide 16 Ga 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	11' - 5"	9' - 3"	7' - 10"	6' - 10"	6' - 0"	5' - 5"	4' - 11"
	Multiple	12' - 7"	10' - 1"	8' - 5"	7' - 3"	6' - 4"	5' - 8"	5' - 2"
2.5"	Single	13' - 6"	12' - 2"	11' - 1"	10' - 3"	9' - 6"	8' - 11"	8' - 3"
	Double	11' - 7"	9' - 5"	7' - 11"	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' - 5"	13' - 10"	12' - 8"	11' - 8"	10' - 4"	9' - 2"	8' - 3"
	Double	11' - 8"	9' - 6"	8' - 1"	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' - 3"	16' - 3"	14' - 0"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	Double	11' - 10"	9' - 8"	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' - 6"	17' - 5"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	Double	12' - 1"	9' - 10"	8' - 4"	7' - 3"	6' - 5"	5' - 9"	5' - 3"
	Multiple	12' - 9"	10' - 3"	8' - 8"	7' - 5"	6' - 7"	5' - 10"	5' - 3"
6"	Single	22' - 7"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	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' - 11"	5' - 4"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 16 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



24" Wide 16 Ga 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	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"
2.5"	Single	14' - 0"	12' - 7"	11' - 6"	10' - 7"	9' - 10"	9' - 2"	8' - 3"
	Double	11' - 7"	9' - 5"	8' - 0"	7' - 0"	6' - 2"	5' - 7"	5' - 0"
	Multiple	12' - 8"	10' - 2"	8' - 6"	7' - 4"	6' - 5"	5' - 9"	5' - 2"
3"	Single	15' - 11"	14' - 4"	13' - 1"	11' - 10"	10' - 4"	9' - 2"	8' - 3"
	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"
4"	Single	19' - 6"	16' - 10"	14' - 0"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	Double	11' - 11"	9' - 9"	8' - 3"	7' - 2"	6' - 4"	5' - 9"	5' - 2"
	Multiple	12' - 9"	10' - 3"	8' - 7"	7' - 5"	6' - 6"	5' - 10"	5' - 3"
5"	Single	21' - 9"	17' - 5"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	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"
6"	Single	22' - 7"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	12' - 4"	10' - 1"	8' - 6"	7' - 5"	6' - 6"	5' - 10"	5' - 4"
	Multiple	12' - 10"	10' - 5"	8' - 9"	7' - 6"	6' - 7"	5' - 11"	5' - 4"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



24" Wide 14 Ga 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"	9' - 7"	8' - 4"	7' - 4"	6' - 7"	6' - 0"
	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"	11' - 6"	9' - 9"	8' - 5"	7' - 6"	6' - 8"	6' - 1"
	Multiple	15' - 0"	12' - 7"	10' - 6"	9' - 1"	7' - 11"	7' - 1"	6' - 5"
3"	Single	14' - 3"	12' - 9"	11' - 8"	10' - 9"	10' - 1"	9' - 2"	8' - 3"
	Double	14' - 4"	11' - 7"	9' - 10"	8' - 6"	7' - 7"	6' - 9"	6' - 2"
	Multiple	15' - 9"	12' - 8"	10' - 7"	9' - 1"	8' - 0"	7' - 1"	6' - 5"
4"	Single	16' - 7"	14' - 10"	13' - 6"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	Double	14' - 6"	11' - 10"	10' - 0"	8' - 8"	7' - 8"	6' - 11"	6' - 4"
	Multiple	15' - 10"	12' - 8"	10' - 7"	9' - 2"	8' - 0"	7' - 2"	6' - 6"
5"	Single	18' - 8"	16' - 8"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	Double	14' - 8"	12' - 0"	10' - 2"	8' - 10"	7' - 10"	7' - 0"	6' - 5"
	Multiple	15' - 10"	12' - 9"	10' - 8"	9' - 2"	8' - 1"	7' - 3"	6' - 6"
6"	Single	20' - 6"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	14' - 11"	12' - 2"	10' - 4"	9' - 0"	7' - 11"	7' - 2"	6' - 6"
	Multiple	15' - 11"	12' - 10"	10' - 9"	9' - 3"	8' - 2"	7' - 3"	6' - 7"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



24" Wide 14 Ga 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"	11' - 5"	9' - 8"	8' - 4"	7' - 5"	6' - 8"	6' - 0"
	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' - 3"
	Double	14' - 3"	11' - 7"	9' - 9"	8' - 6"	7' - 6"	6' - 9"	6' - 2"
	Multiple	15' - 9"	12' - 7"	10' - 7"	9' - 1"	7' - 11"	7' - 1"	6' - 5"
3"	Single	15' - 5"	13' - 10"	12' - 8"	11' - 8"	10' - 4"	9' - 2"	8' - 3"
	Double	14' - 4"	11' - 8"	9' - 10"	8' - 7"	7' - 7"	6' - 10"	6' - 2"
	Multiple	15' - 9"	12' - 8"	10' - 7"	9' - 1"	8' - 0"	7' - 1"	6' - 5"
4"	Single	18' - 3"	16' - 3"	14' - 0"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	Double	14' - 7"	11' - 10"	10' - 1"	8' - 9"	7' - 9"	7' - 0"	6' - 4"
	Multiple	15' - 10"	12' - 8"	10' - 8"	9' - 2"	8' - 1"	7' - 2"	6' - 6"
5"	Single	20' - 6"	17' - 5"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	Double	14' - 9"	12' - 1"	10' - 3"	8' - 11"	7' - 11"	7' - 1"	6' - 5"
	Multiple	15' - 10"	12' - 9"	10' - 8"	9' - 3"	8' - 1"	7' - 3"	6' - 7"
6"	Single	22' - 7"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	15' - 0"	12' - 3"	10' - 5"	9' - 0"	8' - 0"	7' - 2"	6' - 6"
	Multiple	15' - 11"	12' - 10"	10' - 9"	9' - 3"	8' - 2"	7' - 3"	6' - 7"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 14 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



24" Wide 14 Ga 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' - 2"	11' - 6"	9' - 8"	8' - 5"	7' - 5"	6' - 8"	6' - 1"
	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' - 3"
	Double	14' - 4"	11' - 7"	9' - 10"	8' - 6"	7' - 7"	6' - 9"	6' - 2"
	Multiple	15' - 9"	12' - 8"	10' - 7"	9' - 1"	8' - 0"	7' - 1"	6' - 5"
3"	Single	15' - 11"	14' - 4"	13' - 1"	11' - 10"	10' - 4"	9' - 2"	8' - 3"
	Double	14' - 5"	11' - 9"	9' - 11"	8' - 7"	7' - 8"	6' - 10"	6' - 3"
	Multiple	15' - 9"	12' - 8"	10' - 7"	9' - 1"	8' - 0"	7' - 2"	6' - 5"
4"	Single	19' - 6"	16' - 10"	14' - 0"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	Double	14' - 8"	11' - 11"	10' - 1"	8' - 10"	7' - 10"	7' - 0"	6' - 4"
	Multiple	15' - 10"	12' - 9"	10' - 8"	9' - 2"	8' - 1"	7' - 2"	6' - 6"
5"	Single	21' - 9"	17' - 5"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	Double	14' - 10"	12' - 2"	10' - 4"	8' - 11"	7' - 11"	7' - 1"	6' - 6"
	Multiple	15' - 11"	12' - 10"	10' - 9"	9' - 3"	8' - 2"	7' - 3"	6' - 7"
6"	Single	22' - 7"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	15' - 1"	12' - 4"	10' - 5"	9' - 1"	8' - 1"	7' - 3"	6' - 6"
	Multiple	16' - 0"	12' - 10"	10' - 9"	9' - 4"	8' - 2"	7' - 4"	6' - 7"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



24" Wide 12 Ga 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' - 2"	8' - 3"
	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' - 0"	10' - 6"	9' - 4"	8' - 5"
	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"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	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' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	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: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



24" Wide 12 Ga 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' - 3"
	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' - 4"	9' - 2"	8' - 3"
	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' - 0"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	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"	17' - 5"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	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"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	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

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 12 Ga (Fy=50 KSI) (Fu=65 KSI)
 Condition: Negative Wind Pressure



24" Wide 12 Ga 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' - 3"
	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"	11' - 10"	10' - 4"	9' - 2"	8' - 3"
	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"	16' - 10"	14' - 0"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	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	21' - 9"	17' - 5"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	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	22' - 7"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	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

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 26 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



24" Wide 1/4" STL 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' - 2"	8' - 3"
	Double	15' - 7"	14' - 2"	13' - 2"	12' - 1"	10' - 8"	9' - 7"	8' - 8"
	Multiple	16' - 6"	14' - 10"	13' - 8"	12' - 9"	11' - 6"	10' - 3"	9' - 3"
4"	Single	16' - 7"	14' - 10"	13' - 6"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	Double	18' - 3"	16' - 7"	14' - 8"	12' - 8"	11' - 3"	10' - 1"	9' - 2"
	Multiple	19' - 3"	17' - 4"	15' - 11"	13' - 8"	12' - 0"	10' - 9"	9' - 8"
5"	Single	18' - 8"	16' - 8"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	Double	20' - 9"	18' - 10"	16' - 1"	14' - 0"	12' - 4"	11' - 1"	9' - 11"
	Multiple	20' - 0"	19' - 7"	17' - 6"	15' - 0"	13' - 0"	11' - 5"	10' - 2"
6"	Single	20' - 6"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	23' - 0"	20' - 10"	17' - 7"	15' - 3"	13' - 1"	11' - 5"	10' - 1"
	Multiple	20' - 0"	20' - 0"	18' - 2"	15' - 5"	13' - 4"	11' - 8"	10' - 5"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 24 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



24" Wide 1/4" STL 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' - 3"
	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' - 4"	9' - 2"	8' - 3"
	Double	17' - 0"	15' - 5"	14' - 0"	12' - 1"	10' - 8"	9' - 7"	8' - 9"
	Multiple	18' - 0"	16' - 0"	14' - 6"	13' - 2"	11' - 7"	10' - 3"	9' - 3"
4"	Single	18' - 3"	16' - 3"	14' - 0"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	Double	19' - 11"	17' - 5"	14' - 8"	12' - 9"	11' - 3"	10' - 2"	9' - 3"
	Multiple	20' - 0"	19' - 0"	16' - 0"	13' - 9"	12' - 0"	10' - 9"	9' - 8"
5"	Single	20' - 6"	17' - 5"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	Double	22' - 8"	19' - 2"	16' - 2"	14' - 0"	12' - 5"	11' - 1"	9' - 10"
	Multiple	20' - 0"	20' - 0"	17' - 6"	14' - 11"	12' - 11"	11' - 4"	10' - 1"
6"	Single	22' - 7"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	25' - 2"	20' - 11"	17' - 8"	15' - 2"	13' - 0"	11' - 4"	10' - 0"
	Multiple	20' - 0"	20' - 0"	18' - 1"	15' - 4"	13' - 3"	11' - 7"	10' - 4"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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® Optimo® Load / Span Tables

Facer Gauges: Exterior: 22 ga
 Interior: 22 ga
 Steel Support: 1/4" STL (Fy=A36) (Fu=58 KSI)
 Condition: Negative Wind Pressure



24" Wide 1/4" STL 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' - 3"
	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"	11' - 10"	10' - 4"	9' - 2"	8' - 3"
	Double	18' - 11"	16' - 8"	14' - 0"	12' - 2"	10' - 9"	9' - 8"	8' - 9"
	Multiple	18' - 7"	16' - 6"	14' - 11"	13' - 2"	11' - 7"	10' - 4"	9' - 4"
4"	Single	19' - 6"	16' - 10"	14' - 0"	12' - 0"	10' - 6"	9' - 4"	8' - 5"
	Double	21' - 7"	17' - 6"	14' - 9"	12' - 10"	11' - 4"	10' - 2"	9' - 3"
	Multiple	20' - 0"	19' - 2"	16' - 0"	13' - 9"	12' - 1"	10' - 9"	9' - 9"
5"	Single	21' - 9"	17' - 5"	14' - 6"	12' - 5"	10' - 10"	9' - 8"	8' - 8"
	Double	23' - 8"	19' - 3"	16' - 3"	14' - 1"	12' - 6"	11' - 0"	9' - 9"
	Multiple	20' - 0"	20' - 0"	17' - 6"	14' - 10"	12' - 10"	11' - 3"	10' - 0"
6"	Single	22' - 7"	18' - 0"	15' - 0"	12' - 10"	11' - 3"	10' - 0"	9' - 0"
	Double	25' - 10"	21' - 0"	17' - 9"	15' - 0"	12' - 10"	11' - 2"	9' - 11"
	Multiple	20' - 0"	20' - 0"	18' - 0"	15' - 3"	13' - 2"	11' - 6"	10' - 3"

Deflection limit: L/180

Fastening Method: Standard 2-hole concealed clip with (2) 1/4"-14 HWH fasteners

Wind Pressure: Unfactored, ASD, Service Loads

Thermal differential: EXCLUDED

Fastener pull-out values: Based on published data for 1/4"-14 Triangle Blazer fasteners (3081 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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