

QuadCore® Designwall 4000 Allowable Load / Span Tables

Flat

Facer Gauges: 22ga exterior/24ga interior

Support Steel: 14ga

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

Deflection Limit:	L/180
Fastening Method:	Standard 3-hole concealed clip w/ (2) 1/4" Self-drilling fasteners
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal Differential:	Is EXCLUDED
Minimum Support Steel Properties:	14 ga, grade 50, (F _u =65 ksi)
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 lbs/fastener)

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

Deflection Limit:	L/180
Fastening Method:	Standard 3-hole concealed clip w/ (2) 1/4" Self-drilling fasteners
Wind Pressure:	Unfactored, ASD, Service Loads
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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® Designwall 4000 Allowable Load / Span Tables

Flat

Facer Gauges: 22ga exterior/24ga interior

Support Steel: 14ga

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

Deflection Limit:	L/180
Fastening Method:	Standard 3-hole concealed clip w/ (2) 1/4" Self-drilling fasteners
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal Differential:	Is EXCLUDED
Minimum Support Steel Properties:	14 ga, grade 50, (F _u =65 ksi)
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (1036 lbs/fastener)

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

Deflection Limit:	L/180
Fastening Method:	Standard 3-hole concealed clip w/ (2) 1/4" Self-drilling fasteners
Wind Pressure:	Unfactored, ASD, Service Loads
Thermal Differential:	Is EXCLUDED
Minimum Support Steel Properties:	14 ga, grade 50, (F _u =65 ksi)
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® Designwall 4000 Allowable Load / Span Tables

Flat

Facer Gauges: 22ga exterior/24ga interior
Support Steel: 14ga

42" Wide								
Panel Thickness	Span Condition	Negative Wind Pressure						
		20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF
2"	Single	10'-0"	8'-0"	6'-8"	5'-8"	5'-0"	4'-5"	4'-0"
	Double	7'-8"	6'-3"	5'-3"	4'-7"	4'-1"	3'-8"	3'-4"
	Multiple	8'-4"	6'-8"	5'-7"	4'-10"	4'-3"	3'-9"	3'-5"
2.5"	Single	11'-0"	8'-10"	7'-4"	6'-3"	5'-6"	4'-10"	4'-5"
	Double	7'-9"	6'-4"	5'-4"	4'-8"	4'-1"	3'-8"	3'-4"
	Multiple	8'-4"	6'-8"	5'-7"	4'-10"	4'-3"	3'-9"	3'-5"
3"	Single	12'-1"	9'-8"	8'-0"	6'-10"	6'-0"	5'-4"	4'-10"
	Double	7'-10"	6'-5"	5'-5"	4'-8"	4'-2"	3'-9"	3'-5"
	Multiple	8'-4"	6'-9"	5'-7"	4'-10"	4'-3"	3'-10"	3'-5"
4"	Single	14'-2"	11'-4"	9'-5"	8'-1"	7'-1"	6'-3"	5'-8"
	Double	7'-11"	6'-6"	5'-6"	4'-9"	4'-3"	3'-9"	3'-5"
	Multiple	8'-5"	6'-9"	5'-8"	4'-11"	4'-4"	3'-10"	3'-6"

Deflection Limit:	L/180
Fastening Method:	Standard 3-hole concealed clip w/ (2) 1/4" Self-drilling fasteners
Wind Pressure:	Unfactored, ASD, Service Loads
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