

QuadCore® Designwall 4000 Allowable Load / Span Tables

Flat

Facer Gauges: 22ga exterior/24ga interior

Support Steel: 12ga

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'-5"	12'-2"	11'-3"	10'-6"	9'-11"	9'-5"	8'-8"
	Multiple	14'-1"	12'-8"	11'-7"	10'-8"	9'-11"	9'-3"	8'-8"
2.5"	Single	14'-1"	12'-8"	11'-7"	10'-9"	10'-0"	9'-5"	9'-0"
	Double	15'-2"	13'-8"	12'-8"	11'-10"	11'-2"	10'-0"	9'-1"
	Multiple	16'-3"	14'-7"	13'-5"	12'-6"	11'-9"	10'-11"	9'-10"
3"	Single	15'-8"	14'-0"	12'-9"	11'-10"	11'-1"	10'-5"	9'-11"
	Double	16'-9"	15'-2"	14'-0"	12'-10"	11'-3"	10'-1"	9'-2"
	Multiple	17'-11"	16'-1"	14'-9"	13'-9"	12'-4"	11'-0"	9'-11"
4"	Single	18'-4"	16'-4"	14'-11"	13'-10"	12'-11"	12'-1"	10'-10"
	Double	19'-7"	17'-9"	14'-11"	12'-11"	11'-5"	10'-3"	9'-4"
	Multiple	20'-0"	18'-10"	16'-5"	14'-1"	12'-4"	11'-0"	9'-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:	12 ga, grade 50, (F _u =65 ksi)
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 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	13'-5"	12'-2"	11'-2"	10'-3"	9'-0"	8'-1"	7'-4"
	Multiple	14'-1"	12'-8"	11'-7"	10'-8"	9'-10"	8'-9"	7'-11"
2.5"	Single	14'-1"	12'-8"	11'-6"	10'-8"	9'-4"	8'-4"	7'-6"
	Double	15'-1"	13'-8"	11'-11"	10'-4"	9'-1"	8'-2"	7'-5"
	Multiple	16'-2"	14'-7"	13'-2"	11'-3"	9'-11"	8'-10"	7'-11"
3"	Single	15'-7"	13'-11"	12'-9"	11'-8"	10'-3"	9'-1"	8'-2"
	Double	16'-8"	14'-3"	12'-0"	10'-5"	9'-2"	8'-3"	7'-6"
	Multiple	17'-10"	15'-9"	13'-2"	11'-3"	9'-11"	8'-10"	7'-11"
4"	Single	18'-2"	16'-3"	14'-10"	13'-8"	11'-11"	10'-7"	9'-6"
	Double	17'-9"	14'-5"	12'-2"	10'-6"	9'-4"	8'-4"	7'-7"
	Multiple	19'-8"	15'-9"	13'-2"	11'-4"	9'-11"	8'-10"	8'-0"

Deflection Limit:	L/180
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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® Designwall 4000 Allowable Load / Span Tables

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Support Steel: 12ga

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

Deflection Limit:	L/180
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Minimum Support Steel Properties:	12 ga, grade 50, (F _u =65 ksi)
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (1450 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	13'-2"	10'-8"	9'-0"	7'-7"	6'-6"	5'-8"	5'-0"
	Multiple	13'-6"	10'-8"	8'-10"	7'-6"	6'-6"	5'-9"	5'-1"
2.5"	Single	12'-3"	9'-10"	8'-2"	7'-0"	6'-1"	5'-5"	4'-11"
	Double	13'-3"	10'-9"	9'-1"	7'-10"	6'-11"	6'-3"	5'-7"
	Multiple	14'-8"	11'-9"	9'-10"	8'-5"	7'-4"	6'-5"	5'-9"
3"	Single	13'-7"	10'-11"	9'-1"	7'-9"	6'-9"	6'-0"	5'-5"
	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"
4"	Single	16'-3"	13'-0"	10'-10"	9'-3"	8'-1"	7'-2"	6'-6"
	Double	13'-6"	10'-11"	9'-3"	8'-1"	7'-2"	6'-5"	5'-10"
	Multiple	14'-9"	11'-10"	9'-11"	8'-6"	7'-6"	6'-8"	6'-0"

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

Deflection Limit:	L/180
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