

QuadCore® Designwall 4000 Allowable Load / Span Tables

Flat

Facer Gauges: 22ga exterior/24ga interior

Support Steel: 16ga

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'-6"	8'-2"	7'-2"	6'-4"	5'-8"
	Double	6'-2"	5'-1"	4'-3"	3'-9"	3'-3"	2'-11"	2'-8"
	Multiple	6'-7"	5'-4"	4'-5"	3'-10"	3'-4"	3'-0"	2'-8"
2.5"	Single	14'-1"	11'-5"	9'-6"	8'-2"	7'-2"	6'-4"	5'-8"
	Double	6'-3"	5'-1"	4'-4"	3'-9"	3'-4"	3'-0"	2'-8"
	Multiple	6'-7"	5'-4"	4'-6"	3'-10"	3'-5"	3'-0"	2'-9"
3"	Single	14'-4"	11'-5"	9'-6"	8'-2"	7'-2"	6'-4"	5'-8"
	Double	6'-4"	5'-2"	4'-4"	3'-10"	3'-4"	3'-0"	2'-9"
	Multiple	6'-8"	5'-4"	4'-6"	3'-10"	3'-5"	3'-0"	2'-9"
4"	Single	14'-4"	11'-5"	9'-6"	8'-2"	7'-2"	6'-4"	5'-8"
	Double	6'-5"	5'-3"	4'-5"	3'-10"	3'-5"	3'-0"	2'-9"
	Multiple	6'-8"	5'-5"	4'-6"	3'-11"	3'-5"	3'-1"	2'-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
Thermal Differential:	Is EXCLUDED
Minimum Support Steel Properties:	16 ga, grade 50, (F _U =65 ksi)
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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'-5"	9'-2"	7'-7"	6'-6"	5'-8"	5'-1"	4'-7"
	Double	5'-0"	4'-1"	3'-6"	3'-0"	2'-8"	2'-5"	2'-2"
	Multiple	5'-4"	4'-3"	3'-7"	3'-1"	2'-8"	2'-5"	2'-2"
2.5"	Single	11'-5"	9'-2"	7'-7"	6'-6"	5'-8"	5'-1"	4'-7"
	Double	5'-1"	4'-2"	3'-6"	3'-1"	2'-8"	2'-5"	2'-2"
	Multiple	5'-4"	4'-3"	3'-7"	3'-1"	2'-9"	2'-5"	2'-2"
3"	Single	11'-5"	9'-2"	7'-7"	6'-6"	5'-8"	5'-1"	4'-7"
	Double	5'-2"	4'-3"	3'-7"	3'-1"	2'-9"	2'-5"	2'-2"
	Multiple	5'-4"	4'-4"	3'-7"	3'-1"	2'-9"	2'-5"	2'-2"
4"	Single	11'-5"	9'-2"	7'-7"	6'-6"	5'-8"	5'-1"	4'-7"
	Double	5'-3"	4'-3"	3'-7"	3'-1"	2'-9"	2'-5"	2'-2"
	Multiple	5'-5"	4'-4"	3'-8"	3'-2"	2'-9"	2'-5"	2'-3"

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:	16 ga, grade 50, (F _U =65 ksi)
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® Designwall 4000 Allowable Load / Span Tables

Flat

Facer Gauges: 22ga exterior/24ga interior

Support Steel: 16ga

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

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:	16 ga, grade 50, (F _u =65 ksi)
Fastener pull-out values:	Based on published data for 1/4"-14 Triangle Blazer fasteners (829 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	8'-7"	6'-10"	5'-8"	4'-11"	4'-3"	3'-9"	3'-5"
	Double	3'-11"	3'-2"	2'-8"	2'-4"	2'-0"	1'-10"	1'-8"
	Multiple	4'-0"	3'-3"	2'-8"	2'-4"	2'-1"	1'-10"	1'-8"
2.5"	Single	8'-7"	6'-10"	5'-8"	4'-11"	4'-3"	3'-9"	3'-5"
	Double	3'-11"	3'-2"	2'-8"	2'-4"	2'-1"	1'-10"	1'-8"
	Multiple	4'-0"	3'-3"	2'-9"	2'-4"	2'-1"	1'-10"	1'-8"
3"	Single	8'-7"	6'-10"	5'-8"	4'-11"	4'-3"	3'-9"	3'-5"
	Double	4'-0"	3'-3"	2'-9"	2'-4"	2'-1"	1'-10"	1'-8"
	Multiple	4'-1"	3'-3"	2'-9"	2'-4"	2'-1"	1'-10"	1'-8"
4"	Single	8'-7"	6'-10"	5'-8"	4'-11"	4'-3"	3'-9"	3'-5"
	Double	4'-0"	3'-3"	2'-9"	2'-4"	2'-1"	1'-10"	1'-8"
	Multiple	4'-1"	3'-3"	2'-9"	2'-4"	2'-1"	1'-10"	1'-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:	16 ga, grade 50, (F _u =65 ksi)
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® Designwall 4000 Allowable Load / Span Tables

Flat

Facer Gauges: 22ga exterior/24ga interior

Support Steel: 16ga

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

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
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