

KingRib® 3 Roof Allowable Load / Span Tables

Facer Gauges: 22 ga exterior / 24 ga interior

Steel Support: 3/16"																
Panel Thickness	Span Condition	Negative Wind Pressure														
		20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF	55 PSF	60 PSF	65 PSF	70 PSF	75 PSF	80 PSF	85 PSF	90 PSF
1.5"	Single	9'-8"	8'-8"	7'-11"	7'-5"	6'-10"	6'-3"	5'-9"	5'-5"	5'-1"	4'-10"	4'-7"	4'-4"	4'-2"	4'-0"	3'-11"
	Double	9'-9"	8'-6"	7'-7"	6'-11"	6'-4"	5'-11"	5'-6"	5'-2"	4'-11"	4'-8"	4'-6"	4'-3"	4'-1"	4'-0"	3'-10"
	Multiple	10'-9"	9'-4"	8'-4"	7'-7"	7'-0"	6'-6"	6'-1"	5'-8"	5'-5"	5'-2"	4'-11"	4'-8"	4'-6"	4'-4"	4'-2"
2.5"	Single	11'-10"	10'-7"	9'-8"	8'-11"	8'-4"	7'-11"	7'-6"	7'-0"	6'-6"	6'-1"	5'-9"	5'-6"	5'-3"	5'-0"	4'-10"
	Double	11'-8"	10'-1"	8'-11"	8'-0"	7'-4"	6'-9"	6'-3"	5'-11"	5'-7"	5'-3"	5'-0"	4'-9"	4'-7"	4'-5"	4'-3"
	Multiple	12'-10"	11'-0"	9'-9"	8'-9"	7'-11"	7'-4"	6'-10"	6'-5"	6'-0"	5'-8"	5'-5"	5'-2"	4'-11"	4'-9"	4'-7"
4"	Single	14'-8"	13'-1"	11'-11"	11'-1"	10'-4"	9'-9"	9'-3"	8'-9"	8'-5"	8'-1"	7'-9"	7'-6"	7'-1"	6'-9"	6'-5"
	Double	13'-9"	11'-9"	10'-3"	9'-2"	8'-4"	7'-8"	7'-1"	6'-7"	6'-2"	5'-10"	5'-6"	5'-3"	5'-0"	4'-10"	4'-7"
	Multiple	15'-0"	12'-9"	11'-1"	9'-11"	9'-0"	8'-2"	7'-7"	7'-1"	6'-8"	6'-3"	5'-11"	5'-7"	5'-4"	5'-2"	4'-11"
5"	Single	16'-4"	14'-7"	13'-3"	12'-3"	11'-6"	10'-10"	10'-3"	9'-9"	9'-4"	9'-0"	8'-8"	8'-3"	7'-8"	7'-3"	6'-10"
	Double	14'-7"	12'-5"	10'-10"	9'-8"	8'-9"	8'-0"	7'-5"	6'-11"	6'-5"	6'-1"	5'-9"	5'-5"	5'-2"	4'-11"	4'-9"
	Multiple	15'-10"	13'-5"	11'-8"	10'-4"	9'-4"	8'-6"	7'-10"	7'-4"	6'-10"	6'-5"	6'-1"	5'-9"	5'-6"	5'-3"	5'-0"
6"	Single	17'-10"	15'-11"	14'-6"	13'-5"	12'-6"	11'-10"	11'-2"	10'-8"	10'-2"	9'-6"	8'-10"	8'-3"	7'-8"	7'-3"	6'-10"
	Double	15'-1"	12'-9"	11'-1"	9'-10"	8'-11"	8'-2"	7'-6"	6'-11"	6'-6"	6'-1"	5'-9"	5'-6"	5'-2"	4'-11"	4'-9"
	Multiple	16'-2"	13'-7"	11'-9"	10'-5"	9'-5"	8'-7"	7'-11"	7'-4"	6'-10"	6'-5"	6'-1"	5'-9"	5'-6"	5'-3"	5'-0"

Deflection Limit:	L/240
Fastening Method:	(1) 1/4"-14 DB Fastener over a saddle washer at every high rib at every support
Wind Pressure:	ASD, Service Loads
Thermal Differential:	Is EXCLUDED
Minimum Support Steel Properties:	3/16" STL Grade A36 (Fu=58 KSI)
Panel Width:	40"
Fastener pull out values: Based on published data for 1/4"-14 DB Building Fasteners (2791lbs/fastener)	



KingRib® 3 Roof Allowable Load / Span Tables

Facer Gauges: 22 ga exterior / 24 ga interior

Steel Support: 12 ga																
Panel Thickness	Span Condition	Negative Wind Pressure														
		20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF	55 PSF	60 PSF	65 PSF	70 PSF	75 PSF	80 PSF	85 PSF	90 PSF
1.5"	Single	9'-8"	8'-8"	7'-11"	7'-5"	6'-10"	6'-3"	5'-9"	5'-5"	5'-1"	4'-10"	4'-7"	4'-4"	4'-2"	4'-0"	3'-11"
	Double	9'-9"	8'-6"	7'-7"	6'-11"	6'-4"	5'-11"	5'-5"	4'-11"	4'-6"	4'-2"	3'-10"	3'-7"	3'-4"	3'-2"	3'-0"
	Multiple	10'-9"	9'-4"	8'-4"	7'-7"	7'-0"	6'-6"	6'-0"	5'-6"	5'-0"	4'-8"	4'-4"	4'-0"	3'-9"	3'-6"	3'-4"
2.5"	Single	11'-10"	10'-7"	9'-8"	8'-11"	8'-4"	7'-11"	7'-6"	7'-0"	6'-6"	6'-1"	5'-9"	5'-6"	5'-3"	5'-0"	4'-10"
	Double	11'-8"	10'-1"	8'-11"	7'-10"	6'-10"	6'-1"	5'-6"	5'-0"	4'-7"	4'-3"	3'-11"	3'-8"	3'-5"	3'-3"	3'-1"
	Multiple	12'-10"	11'-0"	9'-9"	8'-8"	7'-7"	6'-9"	6'-1"	5'-6"	5'-1"	4'-8"	4'-4"	4'-0"	3'-9"	3'-7"	3'-4"
4"	Single	14'-8"	13'-1"	11'-11"	11'-1"	10'-4"	9'-9"	9'-3"	8'-9"	8'-5"	8'-1"	7'-9"	7'-6"	7'-1"	6'-9"	6'-5"
	Double	13'-8"	11'-0"	9'-3"	8'-0"	7'-0"	6'-3"	5'-8"	5'-2"	4'-9"	4'-4"	4'-0"	3'-9"	3'-6"	3'-4"	3'-1"
	Multiple	15'-0"	12'-2"	10'-2"	8'-8"	7'-7"	6'-9"	6'-1"	5'-7"	5'-1"	4'-8"	4'-4"	4'-1"	3'-10"	3'-7"	3'-5"
5"	Single	16'-4"	14'-7"	13'-3"	12'-3"	11'-6"	10'-10"	10'-3"	9'-9"	9'-4"	9'-0"	8'-8"	8'-3"	7'-8"	7'-3"	6'-10"
	Double	13'-10"	11'-2"	9'-5"	8'-1"	7'-1"	6'-4"	5'-9"	5'-2"	4'-9"	4'-5"	4'-1"	3'-9"	3'-6"	3'-4"	3'-2"
	Multiple	15'-2"	12'-2"	10'-2"	8'-9"	7'-8"	6'-10"	6'-2"	5'-7"	5'-1"	4'-9"	4'-5"	4'-1"	3'-10"	3'-7"	3'-5"
6"	Single	17'-10"	15'-11"	14'-6"	13'-5"	12'-6"	11'-10"	11'-2"	10'-8"	10'-2"	9'-6"	8'-10"	8'-3"	7'-8"	7'-3"	6'-10"
	Double	14'-0"	11'-4"	9'-6"	8'-3"	7'-3"	6'-5"	5'-9"	5'-3"	4'-10"	4'-5"	4'-1"	3'-10"	3'-7"	3'-4"	3'-2"
	Multiple	15'-3"	12'-3"	10'-3"	8'-9"	7'-8"	6'-10"	6'-2"	5'-7"	5'-2"	4'-9"	4'-5"	4'-1"	3'-10"	3'-7"	3'-5"

Deflection Limit:	L/240
Fastening Method:	(1) 1/4"-14 DB Fastener over a saddle washer at every high rib at every support
Wind Pressure:	ASD, Service Loads
Thermal Differential:	Is EXCLUDED
Minimum Support Steel Properties:	12 Ga Grade 50 KSI (Fu=65 KSI)
Panel Width:	40"
Fastener pull out values: Based on published data for 1/4"-14 DB Building Fasteners (1665lbs/fastener)	



KingRib® 3 Roof Allowable Load / Span Tables

Facer Gauges: 22 ga exterior / 24 ga interior

Steel Support: 14 ga																
Panel Thickness	Span Condition	Negative Wind Pressure														
		20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF	55 PSF	60 PSF	65 PSF	70 PSF	75 PSF	80 PSF	85 PSF	90 PSF
1.5"	Single	9'-8"	8'-8"	7'-11"	7'-5"	6'-10"	6'-3"	5'-9"	5'-5"	5'-1"	4'-10"	4'-7"	4'-4"	4'-2"	4'-0"	3'-11"
	Double	8'-4"	6'-8"	5'-7"	4'-10"	4'-2"	3'-9"	3'-4"	3'-1"	2'-9"	2'-7"	2'-5"	2'-3"	2'-1"	1'-11"	1'-10"
	Multiple	9'-5"	7'-6"	6'-3"	5'-4"	4'-8"	4'-2"	3'-9"	3'-5"	3'-1"	2'-10"	2'-8"	2'-6"	2'-4"	2'-2"	2'-1"
2.5"	Single	11'-10"	10'-7"	9'-8"	8'-11"	8'-4"	7'-11"	7'-6"	7'-0"	6'-6"	6'-1"	5'-9"	5'-6"	5'-2"	4'-10"	4'-7"
	Double	8'-6"	6'-10"	5'-8"	4'-11"	4'-3"	3'-10"	3'-5"	3'-1"	2'-10"	2'-7"	2'-5"	2'-3"	2'-1"	2'-0"	1'-10"
	Multiple	9'-5"	7'-6"	6'-3"	5'-5"	4'-8"	4'-2"	3'-9"	3'-5"	3'-2"	2'-11"	2'-8"	2'-6"	2'-4"	2'-2"	2'-1"
4"	Single	14'-8"	13'-1"	11'-11"	11'-1"	10'-4"	9'-2"	8'-3"	7'-6"	6'-10"	6'-4"	5'-10"	5'-6"	5'-2"	4'-10"	4'-7"
	Double	8'-8"	7'-0"	5'-10"	5'-0"	4'-5"	3'-11"	3'-6"	3'-2"	2'-11"	2'-8"	2'-5"	2'-3"	2'-1"	2'-0"	1'-10"
	Multiple	9'-5"	7'-7"	6'-4"	5'-5"	4'-9"	4'-3"	3'-9"	3'-5"	3'-2"	2'-11"	2'-8"	2'-6"	2'-4"	2'-2"	2'-1"
5"	Single	16'-4"	14'-7"	13'-3"	11'-9"	10'-4"	9'-2"	8'-3"	7'-6"	6'-10"	6'-4"	5'-10"	5'-6"	5'-2"	4'-10"	4'-7"
	Double	8'-9"	7'-1"	5'-11"	5'-1"	4'-5"	3'-11"	3'-6"	3'-2"	2'-11"	2'-8"	2'-6"	2'-3"	2'-2"	2'-0"	1'-10"
	Multiple	9'-6"	7'-7"	6'-4"	5'-5"	4'-9"	4'-3"	3'-10"	3'-5"	3'-2"	2'-11"	2'-8"	2'-6"	2'-4"	2'-2"	2'-1"
6"	Single	17'-10"	15'-11"	13'-9"	11'-9"	10'-4"	9'-2"	8'-3"	7'-6"	6'-10"	6'-4"	5'-10"	5'-6"	5'-2"	4'-10"	4'-7"
	Double	8'-11"	7'-2"	6'-0"	5'-2"	4'-6"	3'-11"	3'-6"	3'-2"	2'-11"	2'-8"	2'-6"	2'-3"	2'-2"	2'-0"	1'-10"
	Multiple	9'-6"	7'-8"	6'-5"	5'-6"	4'-9"	4'-3"	3'-10"	3'-6"	3'-2"	2'-11"	2'-8"	2'-6"	2'-4"	2'-2"	2'-1"

Deflection Limit:	L/240
Fastening Method:	(1) 1/4"-14 DB Fastener over a saddle washer at every high rib at every support
Wind Pressure:	ASD, Service Loads
Thermal Differential:	Is EXCLUDED
Minimum Support Steel Properties:	14 Ga Grade 50 KSI (Fu=65 KSI)
Panel Width:	40"

Fastener pull out values: Based on published data for 1/4"-14 DB Building Fasteners (1035lbs/fastener)



KingRib® 3 Roof Allowable Load / Span Tables

Facer Gauges: 22 ga exterior / 24 ga interior

Steel Support: 16 ga																
Panel Thickness	Span Condition	Negative Wind Pressure														
		20 PSF	25 PSF	30 PSF	35 PSF	40 PSF	45 PSF	50 PSF	55 PSF	60 PSF	65 PSF	70 PSF	75 PSF	80 PSF	85 PSF	90 PSF
1.5"	Single	9'-8"	8'-8"	7'-11"	7'-5"	6'-10"	6'-3"	5'-9"	5'-5"	5'-1"	4'-9"	4'-5"	4'-2"	3'-11"	3'-8"	3'-5"
	Double	6'-4"	5'-1"	4'-3"	3'-8"	3'-2"	2'-10"	2'-6"	2'-4"	2'-1"	1'-11"	1'-9"	1'-8"	1'-7"	1'-5"	1'-4"
	Multiple	7'-1"	5'-8"	4'-9"	4'-1"	3'-7"	3'-2"	2'-10"	2'-7"	2'-4"	2'-2"	2'-0"	1'-10"	1'-9"	1'-8"	1'-7"
2.5"	Single	11'-10"	10'-7"	9'-8"	8'-11"	7'-10"	6'-11"	6'-3"	5'-8"	5'-2"	4'-9"	4'-5"	4'-2"	3'-11"	3'-8"	3'-5"
	Double	6'-6"	5'-2"	4'-4"	3'-9"	3'-3"	2'-10"	2'-7"	2'-4"	2'-1"	1'-11"	1'-10"	1'-8"	1'-7"	1'-6"	1'-5"
	Multiple	7'-2"	5'-9"	4'-9"	4'-1"	3'-7"	3'-2"	2'-10"	2'-7"	2'-4"	2'-2"	2'-0"	1'-11"	1'-9"	1'-8"	1'-7"
4"	Single	14'-8"	12'-6"	10'-5"	8'-11"	7'-10"	6'-11"	6'-3"	5'-8"	5'-2"	4'-9"	4'-5"	4'-2"	3'-11"	3'-8"	3'-5"
	Double	6'-8"	5'-4"	4'-5"	3'-10"	3'-4"	2'-11"	2'-7"	2'-4"	2'-2"	2'-0"	1'-10"	1'-8"	1'-7"	1'-6"	1'-5"
	Multiple	7'-2"	5'-9"	4'-10"	4'-1"	3'-7"	3'-2"	2'-10"	2'-7"	2'-4"	2'-2"	2'-0"	1'-11"	1'-9"	1'-8"	1'-7"
5"	Single	15'-8"	12'-6"	10'-5"	8'-11"	7'-10"	6'-11"	6'-3"	5'-8"	5'-2"	4'-9"	4'-5"	4'-2"	3'-11"	3'-8"	3'-5"
	Double	6'-9"	5'-5"	4'-6"	3'-10"	3'-4"	2'-11"	2'-7"	2'-4"	2'-2"	2'-0"	1'-10"	1'-8"	1'-7"	1'-6"	1'-5"
	Multiple	7'-3"	5'-9"	4'-10"	4'-2"	3'-7"	3'-2"	2'-10"	2'-7"	2'-5"	2'-2"	2'-0"	1'-11"	1'-9"	1'-8"	1'-7"
6"	Single	15'-8"	12'-6"	10'-5"	8'-11"	7'-10"	6'-11"	6'-3"	5'-8"	5'-2"	4'-9"	4'-5"	4'-2"	3'-11"	3'-8"	3'-5"
	Double	6'-10"	5'-5"	4'-6"	3'-10"	3'-4"	2'-11"	2'-8"	2'-4"	2'-2"	2'-0"	1'-10"	1'-8"	1'-7"	1'-6"	1'-5"
	Multiple	7'-3"	5'-10"	4'-10"	4'-2"	3'-7"	3'-2"	2'-10"	2'-7"	2'-5"	2'-2"	2'-0"	1'-11"	1'-9"	1'-8"	1'-7"

Deflection Limit:	L/240
Fastening Method:	(1) 1/4"-14 DB Fastener over a saddle washer at every high rib at every support
Wind Pressure:	ASD, Service Loads
Thermal Differential:	Is EXCLUDED
Minimum Support Steel Properties:	16 Ga Grade 50 KSI (Fu=65 KSI)
Panel Width:	40"
Fastener pull out values: Based on published data for 1/4"-14 DB Building Fasteners (785lbs/fastener)	



Contact Details

USA

DeLand, FL: 877-638-3266
Modesto, CA: 800-377-5110

info.NA@kingspanpanels.com
www.kingspanpanels.us



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Canada

Caledon, ON: 866-442-3594
Langley, BC: 877-937-6562

info.NA@kingspanpanels.com
www.kingspanpanels.ca



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