

KingRib® 3 Roof Allowable Load / Span Tables

Facer Gauges: 22 ga exterior / 22 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	10'-7"	9'-6"	8'-6"	7'-6"	6'-9"	6'-2"	5'-9"	5'-4"	5'-0"	4'-9"	4'-6"	4'-4"	4'-2"	4'-0"	3'-10"
	Double	9'-11"	8'-7"	7'-8"	7'-0"	6'-5"	6'-0"	5'-7"	5'-3"	5'-0"	4'-9"	4'-6"	4'-4"	4'-2"	4'-0"	3'-11"
	Multiple	10'-11"	9'-6"	8'-6"	7'-8"	7'-1"	6'-7"	6'-1"	5'-9"	5'-6"	5'-2"	5'-0"	4'-9"	4'-7"	4'-5"	4'-3"
2.5"	Single	13'-1"	11'-8"	10'-8"	9'-10"	9'-1"	8'-2"	7'-6"	6'-11"	6'-6"	6'-1"	5'-9"	5'-6"	5'-3"	5'-0"	4'-9"
	Double	11'-10"	10'-3"	9'-0"	8'-2"	7'-5"	6'-10"	6'-4"	6'-0"	5'-7"	5'-4"	5'-1"	4'-10"	4'-7"	4'-5"	4'-3"
	Multiple	13'-1"	11'-2"	9'-10"	8'-10"	8'-1"	7'-5"	6'-11"	6'-5"	6'-1"	5'-9"	5'-6"	5'-3"	5'-0"	4'-10"	4'-7"
4"	Single	16'-3"	14'-6"	13'-3"	12'-3"	11'-6"	10'-10"	10'-3"	9'-9"	9'-0"	8'-5"	7'-11"	7'-6"	7'-1"	6'-9"	6'-5"
	Double	14'-0"	11'-11"	10'-5"	9'-4"	8'-6"	7'-9"	7'-2"	6'-8"	6'-3"	5'-11"	5'-7"	5'-4"	5'-1"	4'-10"	4'-8"
	Multiple	15'-3"	12'-11"	11'-3"	10'-0"	9'-1"	8'-4"	7'-8"	7'-2"	6'-8"	6'-4"	6'-0"	5'-8"	5'-5"	5'-2"	5'-0"
5"	Single	18'-2"	16'-2"	14'-9"	13'-8"	12'-9"	12'-0"	11'-5"	10'-10"	10'-3"	9'-6"	8'-10"	8'-3"	7'-8"	7'-3"	6'-10"
	Double	14'-10"	12'-7"	11'-0"	9'-10"	8'-10"	8'-1"	7'-6"	7'-0"	6'-6"	6'-2"	5'-10"	5'-6"	5'-3"	5'-0"	4'-9"
	Multiple	16'-1"	13'-6"	11'-9"	10'-5"	9'-5"	8'-7"	7'-11"	7'-5"	6'-11"	6'-6"	6'-2"	5'-10"	5'-7"	5'-4"	5'-1"
6"	Single	19'-10"	17'-9"	16'-2"	14'-11"	13'-11"	13'-1"	12'-4"	11'-3"	10'-3"	9'-6"	8'-10"	8'-3"	7'-8"	7'-3"	6'-10"
	Double	15'-3"	12'-11"	11'-3"	10'-0"	9'-0"	8'-3"	7'-7"	7'-1"	6'-7"	6'-2"	5'-10"	5'-6"	5'-3"	5'-0"	4'-10"
	Multiple	16'-5"	13'-9"	11'-11"	10'-7"	9'-6"	8'-8"	8'-0"	7'-5"	6'-11"	6'-6"	6'-2"	5'-10"	5'-7"	5'-4"	5'-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:	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 / 22 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	10'-7"	9'-6"	8'-6"	7'-6"	6'-9"	6'-2"	5'-9"	5'-4"	5'-0"	4'-9"	4'-6"	4'-4"	4'-2"	4'-0"	3'-10"
	Double	9'-11"	8'-7"	7'-8"	7'-0"	6'-5"	6'-0"	5'-5"	4'-11"	4'-6"	4'-2"	3'-10"	3'-7"	3'-5"	3'-2"	3'-0"
	Multiple	10'-11"	9'-6"	8'-6"	7'-8"	7'-1"	6'-7"	6'-0"	5'-6"	5'-0"	4'-8"	4'-4"	4'-0"	3'-9"	3'-6"	3'-4"
2.5"	Single	13'-1"	11'-8"	10'-8"	9'- 10"	9'-1"	8'-2"	7'-6"	6'-11"	6'-6"	6'-1"	5'-9"	5'-6"	5'-3"	5'-0"	4'-9"
	Double	11'-10"	10'-3"	9'-0"	7'- 10"	6'-10"	6'-2"	5'-6"	5'-0"	4'-7"	4'-3"	3'-11"	3'-8"	3'-5"	3'-3"	3'-1"
	Multiple	13'-1"	11'-2"	9'-10"	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	16'-3"	14'-6"	13'-3"	12'-3"	11'-6"	10'-10"	10'-3"	9'-9"	9'-0"	8'-5"	7'-11"	7'-6"	7'-1"	6'-9"	6'-5"
	Double	13'-8"	11'-1"	9'-3"	8'-0"	7'-1"	6'-3"	5'-8"	5'-2"	4'-9"	4'-4"	4'-0"	3'-9"	3'-6"	3'-4"	3'-1"
	Multiple	15'-2"	12'-2"	10'-2"	8'-8"	7'-8"	6'-9"	6'-1"	5'-7"	5'-1"	4'-8"	4'-4"	4'-1"	3'-10"	3'-7"	3'-5"
5"	Single	18'-2"	16'-2"	14'-9"	13'-8"	12'-9"	12'-0"	11'-5"	10'-10"	10'-3"	9'-6"	8'-10"	8'-3"	7'-8"	7'-3"	6'-10"
	Double	13'-10"	11'-3"	9'-5"	8'-2"	7'-2"	6'-5"	5'-9"	5'-3"	4'-9"	4'-5"	4'-1"	3'-10"	3'-7"	3'-4"	3'-2"
	Multiple	15'-3"	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	19'-10"	17'-9"	16'-2"	14'-11"	13'-11"	13'-1"	12'-4"	11'-3"	10'-3"	9'-6"	8'-10"	8'-3"	7'-8"	7'-3"	6'-10"
	Double	14'-1"	11'-5"	9'-7"	8'-3"	7'-3"	6'-5"	5'-10"	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 / 22 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	10'-7"	9'-6"	8'-6"	7'-6"	6'-9"	6'-2"	5'-9"	5'-4"	5'-0"	4'-9"	4'-6"	4'-4"	4'-2"	4'-0"	3'-10"
	Double	8'-4"	6'-9"	5'-7"	4'-10"	4'-3"	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	13'-1"	11'-8"	10'-8"	9'-10"	9'-1"	8'-2"	7'-6"	6'-11"	6'-6"	6'-1"	5'-9"	5'-6"	5'-2"	4'-10"	4'-7"
	Double	8'-6"	6'-10"	5'-9"	4'-11"	4'-4"	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'-9"	4'-2"	3'-9"	3'-5"	3'-2"	2'-11"	2'-8"	2'-6"	2'-4"	2'-2"	2'-1"
4"	Single	16'-3"	14'-6"	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'-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'-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"
5"	Single	18'-2"	16'-2"	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'-10"	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	19'-10"	16'-6"	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'-3"	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'-7"	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 / 22 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	10'-7"	9'-6"	8'-6"	7'-6"	6'-9"	6'-2"	5'-9"	5'-4"	5'-0"	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	13'-1"	11'-8"	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'-6"	5'-3"	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	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'-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'-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"
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'-6"	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)	



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