

STRUCTURAL DECKING SPANS

Table 10

Spans for 4" to 12" wide lumber manufactured and used at a maximum moisture content of 19%.

Spans are given in feet-inches for normal load duration.

SPECIES	2" Thick Decking											
	Douglas Fir Larch		Douglas Fir South		Hem-Fir		Spruce-Pine-Fir (South)		Western Cedars		Western Woods	
GRADE	Select	Comm	Select	Comm	Select	Comm	Select	Comm	Select	Comm	Select	Comm

SPECIES	3" Thick Decking											
	Douglas Fir Larch		Douglas Fir South		Hem-Fir		Spruce-Pine-Fir (South)		Western Cedars		Western Woods	
GRADE	Select	Comm	Select	Comm	Select	Comm	Select	Comm	Select	Comm	Select	Comm

FLOOR DECKING — 10 psf Dead Load / 40 psf Live Load

L/480 Deflection Limit

Simple	5-6	5-5	5-1	4-11	5-2	5-1	5-1	4-10	4-8	4-7	4-10	4-8
Controlled Random	6-0	5-11	5-7	5-5	5-8	5-7	5-7	5-3	5-1	5-0	5-3	5-1

Simple	9-3	9-0	8-6	8-3	8-8	8-6	8-6	8-1	7-10	7-7	8-1	7-10
Controlled Random	10-7	10-4	9-9	9-6	9-11	9-9	9-9	9-3	9-0	8-8	9-3	9-0

ROOF DECKING — 10 psf Dead Load / 20 psf Live Load

L/240 Deflection Limit

Simple	8-9	8-7	8-1	7-10	8-3	8-1	8-1	7-8	7-5	7-3	7-8	7-5
Controlled Random	9-7	9-5	8-10	8-7	9-0	8-10	8-10	8-4	8-2	7-10	8-4	8-2

Simple	14-7	14-4	13-5	13-1	13-9	13-5	13-5	12-9	12-5	12-0	12-9	12-5
Controlled Random	16-9	16-5	15-5	15-1	15-9	15-5	15-5	14-8	14-3	13-9	14-8	14-3

ROOF DECKING — 10 psf Dead Load / 30 psf Live Load

L/240 Deflection Limit

Simple	7-8	7-6	7-1	6-11	7-3	7-1	7-1	6-8	6-6	6-4	6-8	6-6
Controlled Random	8-4	8-3	7-8	7-6	7-10	7-8	7-8	7-4	7-1	6-11	7-4	7-1

Simple	12-9	12-6	11-9	11-6	12-0	11-9	11-9	11-2	10-10	10-6	11-2	10-10
Controlled Random	14-8	14-5	13-6	13-2	13-9	13-6	13-6	12-10	12-5	12-1	12-10	12-5

ROOF DECKING — 10 psf Dead Load / 40 psf Live Load

L/240 Deflection Limit

Simple	7-0	6-10	6-5	6-3	6-7	6-5	6-5	6-1	5-11	5-9	6-1	5-11
Controlled Random	7-7	7-6	7-0	6-10	7-2	7-0	7-0	6-8	6-5	6-3	6-8	6-5

Simple	11-7	11-5	10-8	10-5	10-11	10-8	10-8	10-2	9-10	9-6	10-2	9-10
Controlled Random	13-4	13-1	12-3	11-11	12-6	12-3	12-3	11-8	11-4	10-11	11-8	11-4