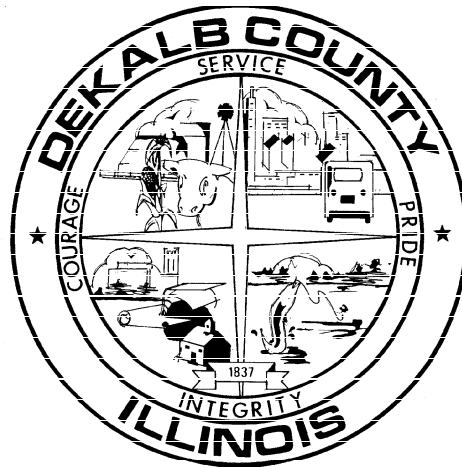


SPAN TABLES

EXCERPTED FROM THE 2003 INTERNATIONAL RESIDENTIAL CODE

DEKALB COUNTY BUILDING DEPARTMENT



EFFECTIVE JULY 20, 2006

FLOOR JOISTS 40 PSF LL 10 PSF DL L/360

ALL ROOMS INCLUDING DECKS USED FOR OTHER THAN SLEEPING

#2 DOUGLAS FIR-LARCH				
SPACING	2 X 6	2 X 8	2 X 10	2 X 12
12	10 - 9	14 - 2	17 - 9	20 - 7
16	9 - 9	12 - 7	15 - 5	17 - 10
24	8 - 1	10 - 3	12 - 7	14 - 7

#2 HEM-FIR				
SPACING	2 X 6	2 X 8	2 X 10	2 X 12
12	10 - 0	13 - 2	16 - 10	20 - 4
16	9 - 1	12 - 0	15 - 2	17 - 7
24	7 - 11	10 - 2	12 - 5	14 - 4

#2 SOUTHERN PINE				
SPACING	2 X 6	2 X 8	2 X 10	2 X 12
12	10 - 9	14 - 2	18 - 0	21 - 9
16	9 - 9	12 - 10	16 - 1	18 - 10
24	8 - 6	11 - 0	13 - 1	15 - 5

#2 SPF CANADIAN				
SPACING	2 X 6	2 X 8	2 X 10	2 X 12
12	10 - 3	13 - 6	17 - 3	20 - 7
16	9 - 4	12 - 3	15 - 5	17 - 10
24	8 - 1	10 - 3	12 - 7	14 - 7

INFORMATION IS EXCERPTED FROM THE 2003 INTERNATIONAL RESIDENTIAL CODE. SEE CODE BOOK FOR ADDITIONAL SPECIES.

FLOOR JOISTS 30 PSF LL 10 PSF DL L/360

ALL ROOMS USED FOR SLEEPING

#2 DOUGLAS FIR-LARCH				
SPACING	2 X 6	2 X 8	2 X 10	2 X 12
12	11 - 10	15 - 7	19 - 10	23 - 0
16	10 - 9	14 - 1	17 - 2	19 - 11
24	9 - 1	11 - 6	14 - 1	16 - 3

#2 HEM-FIR				
SPACING	2 X 6	2 X 8	2 X 10	2 X 12
12	11 - 0	14 - 6	18 - 6	22 - 6
16	10 - 0	13 - 2	16 - 10	19 - 8
24	8 - 9	11 - 4	13 - 10	16 - 1

#2 SOUTHERN PINE				
SPACING	2 X 6	2 X 8	2 X 10	2 X 12
12	11 - 10	15 - 7	19 - 10	18 - 8
16	10 - 9	14 - 2	18 - 0	21 - 1
24	9 - 4	12 - 4	14 - 8	17 - 2

#2 SPF CANADIAN				
SPACING	2 X 6	2 X 8	2 X 10	2 X 12
12	11 - 3	14 - 11	19 - 0	23 - 0
16	10 - 3	13 - 6	17 - 2	19 - 11
24	8 - 11	11 - 6	14 - 1	16 - 3

INFORMATION IS EXCERPTED FROM THE 2003 INTERNATIONAL RESIDENTIAL CODE. SEE CODE BOOK FOR ADDITIONAL SPECIES.

CEILING JOISTS 20 PSF LL 10 PSF DL L/240

UNINHABITABLE ATTICS WITH LIMITED STORAGE

#2 DOUGLAS FIR-LARCH				
SPACING	2 X 4	2 X 6	2 X 8	2 X 10
12	9 - 10	14 - 10	18 - 9	22 - 11
16	8 - 9	12 - 10	16 - 3	19 - 10
24	7 - 2	10 - 6	13 - 3	16 - 3

#2 HEM-FIR				
SPACING	2 X 4	2 X 6	2 X 8	2 X 10
12	9 - 2	14 - 5	18 - 6	22 - 7
16	8 - 4	12 - 8	16 - 0	19 - 7
24	7 - 10	11 - 7	14 - 8	17 - 10

#2 SOUTHERN PINE				
SPACING	2 X 4	2 X 6	2 X 8	2 X 10
12	9 - 10	15 - 6	20 - 1	23 - 11
16	8 - 11	13 - 6	17 - 5	20 - 9
24	7 - 8	11 - 0	14 - 2	16 - 11

#2 SPF CANADIAN				
SPACING	2 X 4	2 X 6	2 X 8	2 X 10
12	9 - 5	14 - 9	18 - 9	22 - 11
16	8 - 7	12 - 10	16 - 3	19 - 10
24	7 - 2	10 - 6	13 - 3	16 - 3

INFORMATION IS EXCERPTED FROM THE 2003 INTERNATIONAL RESIDENTIAL CODE. SEE CODE BOOK FOR ADDITIONAL SPECIES.

ROOF RAFTERS 30 PSF LL 10 PSF DL L/180

SLOPE OVER 3:12 OR CEILING NOT ATTACHED TO RAFTERS

#2 DOUGLAS FIR-LARCH					
SPACING	2 X 4	2 X 6	2 X 8	2 X 10	2 X 12
12	9 - 5	13 - 9	17 - 5	21 - 4	18 - 8
16	8 - 2	11 - 11	15 - 1	18 - 5	21 - 5
24	6 - 8	9 - 9	12 - 4	15 - 1	17 - 6

#2 HEM-FIR					
SPACING	2 X 4	2 X 6	2 X 8	2 X 10	2 X 12
12	8 - 10	13 - 7	17 - 2	21 - 0	18 - 8
16	8 - 0	11 - 9	14 - 11	18 - 2	21 - 1
24	6 - 7	9 - 7	12 - 2	14 - 10	17 - 3

#2 SOUTHERN PINE					
SPACING	2 X 4	2 X 6	2 X 8	2 X 10	2 X 12
12	9 - 6	14 - 5	18 - 8	22 - 3	20 - 0
16	8 - 7	12 - 6	16 - 2	19 - 3	22 - 7
24	7 - 1	10 - 2	13 - 2	15 - 9	18 - 5

#2 SPF CANADIAN					
SPACING	2 X 4	2 X 6	2 X 8	2 X 10	2 X 12
12	9 - 1	13 - 9	17 - 5	21 - 4	24 - 8
16	8 - 2	11 - 11	15 - 1	18 - 5	21 - 5
24	6 - 8	9 - 9	12 - 4	15 - 1	17 - 6

INFORMATION IS EXCERPTED FROM THE 2003 INTERNATIONAL RESIDENTIAL CODE. SEE CODE BOOK FOR ADDITIONAL SPECIES.

ROOF RAFTERS 30 PSF LL 15 PSF DL L/240

SLOPE UNDER 3:12 OR CEILING ATTACHED TO RAFTERS (CATHEDRAL CEILING)

#2 DOUGLAS FIR-LARCH					
SPACING	2 X 4	2 X 6	2 X 8	2 X 10	2 X 12
12	8 - 7	13 - 6	17 - 5	21 - 4	24 - 8
16	7 - 10	11 - 11	15 - 1	18 - 5	21 - 5
24	6 - 8	9 - 9	12 - 4	15 - 1	17 - 6

#2 HEM-FIR					
SPACING	2 X 4	2 X 6	2 X 8	2 X 10	2 X 12
12	8 - 0	12 - 7	16 - 7	21 - 0	24 - 4
16	7 - 3	11 - 5	14 - 11	18 - 2	21 - 1
24	6 - 4	9 - 7	12 - 2	14 - 10	17 - 3

#2 SOUTHERN PINE					
SPACING	2 X 4	2 X 6	2 X 8	2 X 10	2 X 12
12	8 - 7	13 - 6	17 - 10	22 - 3	
16	7 - 10	12 - 3	16 - 2	19 - 3	22 - 7
24	6 - 10	10 - 2	13 - 2	15 - 9	18 - 5

#2 SPF CANADIAN					
SPACING	2 X 4	2 X 6	2 X 8	2 X 10	2 X 12
12	8 - 3	12 - 11	17 - 0	21 - 4	24 - 8
16	7 - 6	11 - 9	15 - 1	18 - 5	21 - 5
24	6 - 6	9 - 9	12 - 4	15 - 1	17 - 6

INFORMATION IS EXCERPTED FROM THE 2003 INTERNATIONAL RESIDENTIAL CODE. SEE CODE BOOK FOR ADDITIONAL SPECIES.

GIRDER SPANS AND HEADER SPANS FOR EXTERIOR BEARING WALLS

SPANS BASED ON DOUGLAS FIR-LARCH, HEM-FIR, SOUTHERN PINE AND SPRUCE-PINE-FIR. GROUND SNOW LOAD
CALCULATED AT 30 PSF. EXCERPTED FROM 2003 IRC.

BUILDING WIDTH				
HEADERS SUPPORTING	SIZE	20	28	36
ROOF AND CEILING	2-2X8	6-10	5-11	5-4
	2-2X10	8-5	7-3	6-6
	2-2X12	9-9	8-5	7-6
	3-2X8	8-4	7-5	6-8
	3-2X10	10-6	9-1	8-2
	3-2X12	12-2	10-7	9-5
	4-2X8	7-0	6-1	5-5
	4-2X10	11-8	10-6	9-5
	4-2X12	14-1	12-2	10-11
ROOF, CEILING AND ONE CENTER-BEARING FLOOR	2-2X8	5-9	5-0	4-6
	2-2X10	7-0	6-2	5-6
	2-2X12	8-1	7-1	6-5
	3-2X8	7-2	6-3	5-8
	3-2X10	8-9	7-8	6-11
	3-2X12	10-2	8-11	8-0
	4-2X8	5-10	5-2	4-8
	4-2X10	10-1	8-10	8-0
	4-2X12	11-9	10-3	9-3
ROOF, CEILING AND ONE CLEAR SPAN FLOOR	2-2X8	5-0	4-4	3-10
	2-2X10	6-1	5-3	4-8
	2-2X12	7-1	6-1	5-5
	3-2X8	6-3	5-5	4-10
	3-2X10	7-7	6-7	5-11
	3-2X12	8-10	7-8	6-10
	4-2X8	5-1	4-5	3-11
	4-2X10	8-9	7-7	6-10
	4-2X12	10-2	8-10	7-11
ROOF, CEILING AND TWO CENTER-BEARING FLOORS	2-2X8	4-9	4-2	3-9
	2-2X10	5-9	5-1	4-7
	2-2X12	6-8	5-10	5-3
	3-2X8	5-11	5-2	4-8
	3-2X10	7-3	6-4	5-8
	3-2X12	8-5	7-4	6-7
	4-2X8	4-10	4-3	3-10
	4-2X10	8-4	7-4	6-7
	4-2X12	9-8	8-6	7-8