TABLE 40 WET-SERVICE FLOOR JOISTS – 40 PSF LIVE LOAD, 10 PSF DEAD LOAD, 360 DEFLECTION

DECKS; MOISTURE CONTENT EXCEEDS 19%

Size (Inches)	Spacing (Inches on center)	Grade										
		Visually Graded				Machine Stress Rated (MSR)				Machine Evaluated Lumber (MEL)		
		Select Structural	No. 1	No. 2	No. 3	2400f-2.0E	2250f-1.9E	2100f-1.8E	1950f-1.7E	M-23	M-19	M-14
2 x 6	12	10-9	10-7	10-4	9-4	11-2	11-0	10-9	10-7	10-9	10-4	10-7
	16	9-9	9-7	9-5	8-1	10-2	10-0	9-9	9-7	9-9	9-5	9-7
	19.2	9-2	9-0	8-9	7-4	9-6	9-4	9-2	9-0	9-2	8-10	9-0
	24	8-7	8-5	7-10	6-7	8-10	8-8	8-7	8-5	8-7	8-3	8-5
2 x 8	12	14-2	13-11	13-8	11-11	14-8	14-5	14-2	13-11	14-2	13-8	13-11
	16	12-11	12-8	12-5	10-3	13-4	13-2	12-11	12-8	12-11	12-5	12-8
	19.2	12-2	11-11	11-4	9-5	12-7	12-4	12-2	11-11	12-2	11-8	11-11
	24	11-3	11-1	10-2	8-5	11-8	11-6	11-3	11-1	11-3	10-10	11-1
2 x 10	12	18-1	17-9	17-5	14-0	18-9	18-5	18-1	17-9	18-1	17-5	17-9
	16	16-5	16-2	15-10	12-2	17-0	16-9	16-5	16-2	16-5	15-10	16-2
	19.2	15-6	15-1	14-8	11-1	16-0	15-9	15-6	15-2	15-6	14-11	15-2
	24	14-4	13-6	13-1	9-11	14-11	14-8	14-4	14-1	14-4	13-10	14-1
2 x 12	12	22-0	21-7	21-2	16-8	22-10	22-5	22-0	21-7	22-0	21-2	21-7
	16	20-0	19-8	18-10	14-6	20-9	20-4	20-0	19-8	20-0	19-3	19-8
	19.2	18-10	17-11	17-2	13-2	19-6	19-2	18-10	18-6	18-10	18-1	18-6
	24	17-6	16-1	15-5	11-10	18-1	17-10	17-6	17-2	17-6	16-10	17-2

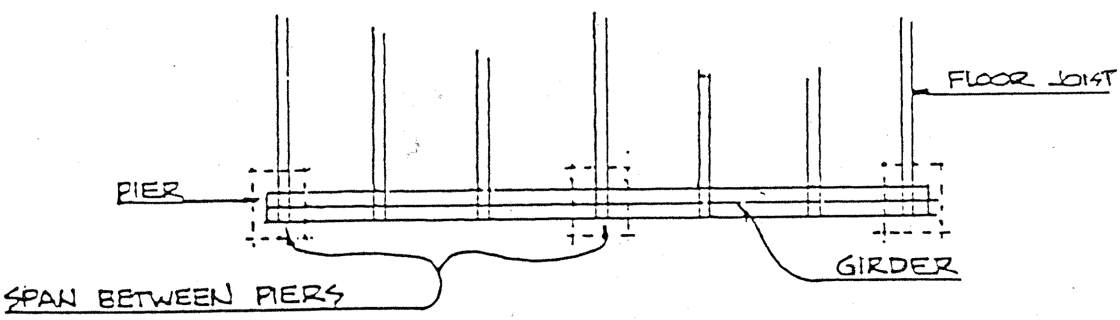

TABLE 502.3.3a
ALLOWABLE SPAN FOR GIRDERS SUPPORTING ONE FLOOR ONLY[1]

SIZE OF WOOD GIRDER[2]		FLOOR LIVE LOAD (psf)	SPACING BETWEEN GIRDERS OR BETWEEN GIRDERS AND LOAD-BEARING WALLS[3]				
			4 feet	6 feet	8 feet	10 feet	16 feet
4 x 4	—	[redacted]					
		40	5'-0"	4'-0"	3'-6"	3'-0"	2'-6"
4 x 6	—	[redacted]					
		40	7'-6"	6'-0"	5'-6"	4'-6"	4'-0"
4 x 8	6 x 6	[redacted]					
		40	10'-0"	8'-6"	7'-6"	6'-6"	5'-0"
4 x 10	6 x 8	[redacted]					
		40	13'-0"	10'-6"	9'-6"	8'-6"	5'-6"
4 x 12	6 x 10	[redacted]					
		40	16'-0"	12'-6"	11'-0"	10'-0"	8'-0"

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 psf = 0.0479 kN/m^2.

1 Allowable spans may be interpolated between tributary loads shown in table. Spans and girder sizes may be computed independently of the above table in accordance with accepted engineering practice.

2 Spans are based on No. 2 lumber.

3 The spacing is the tributary load to the girder. It is found by adding the unsupported spans of the floor structure on each side which are supported by the girder and dividing by 2.