

Allied Tubular Joists - Span Table

Maximum span feet and inches

(Minimum material thickness used per AISI Section A2.4)

(Rounded corners per Harvey spec)

40 PSF Live Load

40 PSF live load

10 PSF dead load

Live Load Deflection Limit L/360

Joist Size in. x in.	Joist Spacing inches on center	Nominal Wall Thickness		
		0.109 (12 ga)	0.083 (14 ga)	0.065 (16 ga)
1.5 x 3.5	12	11-7	10-9	9-11
	16	10-6	9-9	9-0
	24	9-2	8-6	7-11

2 x 4	12	13-9	12-9
	16	12-6	11-7
	24	10-11	10-1

2 x 6	12	19-5	17-11
	16	17-7	16-3
	24	15-5	14-2

100 PSF Live Load

100 PSF live load

10 PSF dead load

Live Load Deflection Limit L/360

Joist Size in. x in.	Joist Spacing inches on center	Nominal Wall Thickness		
		0.109 (12 ga)	0.083 (14 ga)	0.065 (16 ga)
1.5 x 3.5	12	8-6	7-11	7-4
	16	7-9	7-2	6-8
	24	6-9	6-3	5-10

2 x 4	12	10-2	9-5
	16	9-3	8-6
	24	8-1	7-5

2 x 6	12	14-3	13-2
	16	13-0	12-0
	24	11-4	10-5

60 PSF Live Load

60 PSF live load

10 PSF dead load

Live Load Deflection Limit L/360

Joist Size in. x in.	Joist Spacing inches on center	Nominal Wall Thickness		
		0.109 (12 ga)	0.083 (14 ga)	0.065 (16 ga)
1.5 x 3.5	12	10-1	9-4	8-8
	16	9-2	8-6	7-11
	24	8-0	7-5	6-11

2 x 4	12	12-0	11-1
	16	10-11	10-1
	24	9-6	8-10

2 x 6	12	16-11	15-7
	16	15-5	14-2
	24	13-5	12-5

120 PSF Live Load

120 PSF live load

10 PSF dead load

Live Load Deflection Limit L/360

Joist Size in. x in.	Joist Spacing inches on center	Nominal Wall Thickness		
		0.109 (12 ga)	0.083 (14 ga)	0.065 (16 ga)
1.5 x 3.5	12	8-0	7-5	6-11
	16	7-3	6-9	6-3
	24	6-4	5-11	5-6

2 x 4	12	9-6	8-10
	16	8-8	8-0
	24	7-7	7-0

2 x 6	12	13-5	12-5
	16	12-2	11-3
	24	10-8	9-10

The results provided herein were generated using recognized engineering principles and are for general information only. While believed to be accurate, this information should not be used or relied upon for any specific application without competent professional examination and verification of its accuracy, suitability or applicability by a licensed professional engineer.