



Load/Span Tables

DESIGN STRUCTURAL CONDITIONS

- * Tables are based on a SDL of 25 PSF and Construction Live Load of 20 PSF
- * Concrete compressive strength 4500psi
- * Joists are rolled from 2.97BMT material (G50 steel)
- * First joist hole to be min. 4' from joist end
- * Joists are precambered 1.5mm per m length
- * Vibration has not been considered for span tables
- * Dead loads are superimposed are in addition to the self weight of the floor
- * No propping required to slab during placement
- * Capacities calculated in accordance with ANSI/AISI S100-12, North American Specification for the Design of Cold-formed Steel Structural Members, Load and Resistance Factor Design (LRFD)

LOADING

ELEMENT DEAD LOAD (PSF) LIVE LOAD (PSF)
INSTALLED FLOOR DEAD LOAD 50 PSF (with 4" topping)
SUSPENDED SLAB DETAILS (OVER 'SPEEDFLOOR' JOISTS)
3.5" THICK SLAB U.N.O.
6 - 6 ,4.0 x 4.0 WWM, ASTM A1064, GRADE 70.
#4 REBAR OVER ALL BEAM AND SLAB EDGES TYP.

CONCRETE PROPERTIES

MINIMUM 3500 PSI

GENERAL NOTES

- * NO POINT LOAD GREATER THAN 3000 POUNDS IS TO BE APPLIED TO SPEEDFLOOR SLAB
- * STAIRS, COLUMNS ,STEEL BEAMS AND CONCRETE BEAMS BY OTHERS
- * CONCRETE BEAMS TO BE POURED PRIOR TO SPEEDFLOOR INSTALLATION



Load/Span Tables

Deflection for L/360

Slab Thickness	Joist Size	40 PSF LL/Joist spacing (ft)					50 PSF LL/Joist spacing (ft)					60 PSF LL/Joist spacing (ft)				
		1'	2'	3'	4'	5'	1'	2'	3'	4'	5'	1'	2'	3'	4'	5'
		Clear Span Capability					Clear Span Capability					Clear Span Capability				
3.5"	6"	19 7"	15 3"	13 1"	12 0"	11 11"	19 7"	15 3"	13 1"	12 0"	11 11"	17 5"	15 3"	13 1"	12 0"	11 11"
	8"	24 0"	19 7"	17 5"	15 3"	14 2"	23 11"	19 7"	17 5"	15 3"	14 2"	22 10"	19 7"	16 4"	15 3"	14 2"
	10"	28 4"	22 10"	20 8"	18 6"	17 5"	27 3"	22 10"	20 8"	18 6"	16 4"	25 1"	22 10"	19 7"	18 6"	16 4"
	12"	32 8"	25 1"	22 10"	20 8"	19 7"	30 6"	25 1"	22 10"	20 8"	19 7"	28 4"	25 1"	22 10"	20 8"	18 6"
	14"	35 11"	28 4"	25 1"	22 10"	21 9"	33 9"	28 4"	24 0"	22 10"	21 9"	31 7"	27 3"	24 0"	22 10"	20 8"
	16"	38 2"	31 7"	27 3"	25 1"	23 11"	36 0"	31 7"	27 3"	24 0"	23 11"	34 10"	30 6"	27 3"	24 0"	22 10"
	18"	41 5"	33 9"	29 5"	27 3"	25 1"	39 3"	33 9"	29 5"	26 2"	25 1"	36 0"	33 9"	29 5"	26 2"	24 0"
4.0"	6"	19 7"	15 3"	13 1"	12 0"	11 11"	18 6"	15 3"	13 1"	12 0"	11 11"	17 5"	15 3"	13 1"	11 11"	11 11"
	8"	23 11"	19 7"	16 4"	15 3"	14 2"	23 11"	19 7"	16 4"	15 3"	14 2"	21 9"	18 6"	16 4"	15 3"	13 1"
	10"	27 3"	22 10"	20 8"	18 6"	17 5"	27 3"	22 10"	20 8"	18 6"	16 4"	25 1"	22 10"	19 7"	18 6"	16 4"
	12"	31 7"	26 2"	22 10"	20 8"	19 7"	31 7"	25 1"	22 10"	20 8"	19 7"	29 5"	25 1"	22 10"	20 8"	19 7"
	14"	35 11"	28 4"	25 1"	22 10"	21 9"	34 10"	28 4"	25 1"	22 10"	21 9"	31 7"	27 3"	24 0"	22 10"	20 8"
	16"	38 2"	31 7"	27 3"	25 1"	23 11"	37 1"	31 7"	27 3"	24 0"	23 11"	34 10"	30 6"	27 3"	24 0"	22 10"
	18"	42 6"	34 10"	30 6"	27 3"	25 1"	39 3"	33 9"	29 5"	27 3"	25 1"	37 1"	33 9"	29 5"	26 2"	24 0"



Load/Span Tables

Deflection for L/360

Slab Thickness	Joist Size	80 PSF LL/Joist spacing (ft)					100 PSF LL/Joist spacing (ft)					125 PSF LL/Joist spacing (ft)				
		1'	2'	3'	4'	5'	1'	2'	3'	4'	5'	1'	2'	3'	4'	5'
		Clear Span Capability					Clear Span Capability					Clear Span Capability				
3.5"	6"	15 3"	14 2"	13 1"	11 11"	11 11"	14 2"	13 1"	12 0"	11 11"	10 10"	To Be Confirmed				
	8"	19 7"	18 6"	16 4"	15 3"	13 1"	18 6"	16 4"	16 4"	14 2"	13 1"					
	10"	22 10"	21 9"	19 7"	17 5"	16 4"	20 8"	19 7"	18 6"	17 5"	16 4"					
	12"	25 1"	23 11"	21 9"	19 7"	18 6"	23 11"	21 9"	20 8"	19 7"	18 6"					
	14"	27 3"	24 0"	22 10"	20 8"	19 7"	23 11"	21 9"	20 8"	19 7"	18 6"					
	16"	30 6"	28 4"	25 1"	23 11"	22 10"	27 3"	25 1"	23 11"	21 9"	20 8"					
	18"	32 8"	30 6"	28 4"	26 2"	24 0"	29 5"	27 3"	25 1"	23 11"	22 10"					
4.0"	6"	15 3"	14 2"	12 0"	11 11"	10 10"	14 2"	13 1"	12 0"	11 11"	10 10"					
	8"	19 7"	17 5"	16 4"	14 2"	13 1"	17 5"	16 4"	15 3"	14 2"	13 1"					
	10"	23 11"	21 9"	19 7"	17 5"	16 4"	21 9"	19 7"	18 6"	17 5"	16 4"					
	12"	26 2"	23 11"	21 9"	20 8"	18 6"	23 11"	22 10"	20 8"	19 7"	18 6"					
	14"	26 2"	23 11"	21 9"	20 8"	19 7"	23 11"	21 9"	20 8"	18 6"	17 5"					
	16"	31 7"	27 3"	25 1"	23 11"	21 9"	27 3"	24 0"	22 10"	21 9"	20 8"					
	18"	33 9"	30 6"	27 3"	25 1"	23 11"	30 6"	27 3"	25 1"	23 11"	21 9"					



Load/Span Tables

Deflection For L/500

Slab Thickness	Joist depth	40 PSF LL/Joist spacing (ft)					50 PSF LL/Joist spacing (ft)					60 PSF LL/Joist spacing (ft)				
		1'	2'	3'	4'	5'	1'	2'	3'	4'	5'	1'	2'	3'	4'	5'
		Clear Span Capability					Clear Span Capability					Clear Span Capability				
3.5"	6"	18 6"	14 2"	12 0"	11 11"	10 10"	18 6"	14 2"	12 0"	11 11"	10 10"	17 5"	14 2"	12 0"	11 11"	10 10"
	8"	22 10"	18 6"	16 4"	14 2"	13 1"	22 10"	18 6"	16 4"	14 2"	13 1"	22 10"	18 6"	16 4"	14 2"	13 1"
	10"	26 2"	21 9"	19 7"	17 5"	16 4"	26 2"	21 9"	19 7"	17 5"	16 4"	25 1"	21 9"	18 6"	17 5"	15 3"
	12"	30 6"	24 0"	21 9"	19 7"	18 6"	29 5"	24 0"	21 9"	19 7"	18 6"	28 4"	24 0"	21 9"	19 7"	18 6"
	14"	33 9"	27 3"	23 11"	21 9"	20 8"	33 9"	26 2"	23 11"	21 9"	20 8"	31 7"	26 2"	23 11"	21 9"	19 7"
	16"	36 0"	29 5"	26 2"	23 11"	22 10"	36 0"	29 5"	25 1"	23 11"	21 9"	34 10"	29 5"	25 1"	23 11"	21 9"
	18"	39 3"	32 8"	28 4"	25 1"	23 11"	39 3"	31 7"	28 4"	25 1"	23 11"	36 0"	31 7"	27 3"	25 1"	23 11"
4.0"	6"	18 6"	14 2"	12 0"	11 11"	10 10"	17 5"	14 2"	12 0"	11 11"	10 10"	17 5"	14 2"	12 0"	11 11"	10 10"
	8"	22 10"	18 6"	15 3"	14 2"	13 1"	21 9"	18 6"	15 3"	14 2"	13 1"	21 9"	17 5"	15 3"	14 2"	13 1"
	10"	26 2"	21 9"	19 7"	17 5"	16 4"	25 1"	21 9"	18 6"	17 5"	16 4"	25 1"	21 9"	18 6"	17 5"	15 3"
	12"	29 5"	24 0"	21 9"	19 7"	18 6"	29 5"	24 0"	21 9"	19 7"	18 6"	29 5"	24 0"	21 9"	19 7"	18 6"
	14"	33 9"	27 3"	23 11"	21 9"	20 8"	32 8"	27 3"	23 11"	21 9"	20 8"	31 7"	26 2"	23 11"	21 9"	20 8"
	16"	36 0"	29 5"	26 2"	23 11"	22 10"	36 0"	29 5"	26 2"	23 11"	21 9"	34 10"	29 5"	25 1"	23 11"	21 9"
	18"	39 3"	32 8"	28 4"	25 1"	24 0"	39 3"	31 7"	28 4"	25 1"	23 11"	37 1"	31 7"	28 4"	25 1"	23 11"



Load/Span Tables

Deflection For L/500

Slab Thickness	Joist depth	80 PSF LL/Joist spacing (ft)					100 PSF LL/Joist spacing (ft)					125 PSF LL/Joist spacing (ft)				
		1'	2'	3'	4'	5'	1'	2'	3'	4'	5'	1'	2'	3'	4'	5'
		Clear Span Capability					Clear Span Capability					Clear Span Capability				
3.5"	6"	15 3"	14 2"	12 0"	11 11"	10 10"	14 2"	13 1"	12 0"	11 11"	10 10"	To Be Confirmed				
	8"	19 7"	17 5"	15 3"	14 2"	13 1"	18 6"	16 4"	15 3"	14 2"	13 1"					
	10"	22 10"	21 9"	18 6"	16 4"	15 3"	20 8"	19 7"	18 6"	16 4"	15 3"					
	12"	25 1"	23 11"	20 8"	19 7"	17 5"	23 11"	21 9"	20 8"	18 6"	17 5"					
	14"	27 3"	24 0"	22 10"	20 8"	19 7"	23 11"	21 9"	20 8"	19 7"	18 6"					
	16"	30 6"	28 4"	25 1"	23 11"	21 9"	27 3"	25 1"	23 11"	21 9"	20 8"					
	18"	32 8"	30 6"	27 3"	25 1"	23 11"	29 5"	27 3"	25 1"	23 11"	22 10"					
4.0"	6"	15 3"	14 2"	12 0"	11 11"	10 10"	14 2"	13 1"	12 0"	11 11"	10 10"					
	8"	19 7"	17 5"	15 3"	14 2"	13 1"	17 5"	16 4"	15 3"	13 1"	12 0"					
	10"	23 11"	20 8"	18 6"	16 4"	15 3"	21 9"	19 7"	18 6"	16 4"	15 3"					
	12"	26 2"	23 11"	20 8"	19 7"	17 5"	23 11"	22 10"	20 8"	19 7"	17 5"					
	14"	26 2"	23 11"	21 9"	20 8"	19 7"	23 11"	21 9"	20 8"	18 6"	17 5"					
	16"	31 7"	27 3"	25 1"	23 11"	21 9"	27 3"	24 0"	22 10"	21 9"	20 8"					
	18"	33 9"	30 6"	27 3"	25 1"	23 11"	30 6"	27 3"	25 1"	23 11"	21 9"					