



**BUILDING EXCELLENCE, ONE FLOOR AT A TIME.**

# Super Floor Span Tables

Unlock the key to precision engineering with our Super Floor Span Tables. Dive into detailed specifications and technical data that empower architects, engineers, and builders to make informed decisions.

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This is our comprehensive guide to optimizing structural design and performance. Whether you're designing a residential oasis or a commercial masterpiece, this document serves as your roadmap to success, ensuring every project is built on a foundation of strength, stability, and innovation. Dive into the contents and unlock the power of precision engineering with Super Floor.

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## Introduction

Super Floor is a leave-in place formwork system that can be installed by almost anyone. The system combines a pre-cambered galvanized steel joist, formwork tray and support bars all made to measure to ensure a high-quality finished floor with fast installation.

The Super Floor system is manufactured locally from pre-galvanized high tensile steel. The joists are placed on the primary support then the Super Floor support bars secure the joists into the correct position. Finally, the tray/pan is laid across the support bars and the system is ready for wire mesh reinforcement to be placed and the concrete to be placed and finished. Generally Super Floor uses a 3.5”- 4” concrete topping but can easily be designed for thicker slabs if required.

The Super Floor USA composite floor system is suitable for use in all types of construction including ICF structures, Steel frame buildings, masonry buildings, poured in-situ or precast concrete. From single family detached housing to mid-rise multi-story residential and commercial buildings as well as parking garages. Super Floor is a complete proprietary system that provides contractors and developers with a piece of mind solution allowing them to continue works on site without interruption, increasing productivity and efficiency.

A handwritten signature in black ink, appearing to read 'Nick Ruebel'.

**Nick Ruebel**  
MANAGING PARTNER

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# Super Floor Load/Span Tables

## STRUCTURAL DESIGN CONDITIONS

- Tables are based on a SDL of 10 PSF and Construction Live Load of 20 PSF
- Concrete compressive strength 4000 psi
- Joists are rolled from 2.97BMT material ( SS50 -G90 Galvanized steel)
- First joist hole to be min. 4' from joist end
- Joists are precambered 0.015" per 10' length
- Vibration has not been considered for span tables
- Dead loads are superimposed in addition to the weight of the floor including concrete.
- No propping required to slab during placement
- Capacities calculated in accordance with ANSI/AISI S100-12, North American Specification
- for 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 is 50 PSF (with 4" topping)
- Suspended Slab Details (over 'Super Floor' Joists)
- 3.5" thick slab U.N.O.
- 6 - 6 ,4.0 x 4.0 WWM, ASTM A1064, GRADE 70.
- #4 Rebar Overall Beam and Slab Edges TYP.

## CONCRETE PROPERTIES

- Minimum 3500 PSI

## GENERAL NOTES

- No point load greater than 3000 pounds to be applied to the Super Floor slab.
- These Span Tables are for estimating only. Final design to be determined by engineer.
- Stairs, columns, steel beams and concrete beams by others.
- Concrete Beams to be poured prior to Super Floor installation

L/360 Deflection									
Slab Topping	Joist Size	40 PSF LL/Joist spacing (ft)				50 PSF LL/Joist spacing (ft)			
		2'	3'	4'	5'	2'	3'	4'	5'
		Clear Span Capability				Clear Span Capability			
3.5"	6"	16'-7"	14'-8"	13'-4"	12'-4"	16'-3"	14'-6"	13'-2"	12'-2"
	8"	20'-4"	18'-1"	16'-7"	15'-6"	20'-2"	17'-10"	16'-3"	15'-2"
	10"	24'-0"	21'-3"	19'-6"	18'-2"	23'-7"	21'-0"	19'-2"	17'-10"
	12"	27'-3"	24'-3"	22'-1"	20'-6"	27'-0"	23'-10"	21'-10"	20'-3"
	14"	30'-6"	26'-9"	24'-6"	22'-8"	30'-2"	26'-7"	24'-2"	21'-2"
	16"	33'-4"	29'-5"	26'-10"	25'-0"	33'-0"	29'-1"	26'-6"	24'-3"
	18"	34'-0"	31'-10"	29'-2"	27'-1"	34'-0"	31'-6"	28'-8"	26'-8"
4.0"	6"	16'-2"	14'-3"	13'-0"	12'-1"	16'-0"	14'-1"	12'-10"	12'-0"
	8"	19'-10"	17'-7"	16'-1"	15'-0"	19'-8"	17'-4"	15'-10"	14'-9"
	10"	23'-6"	20'-9"	19'-0"	17'-8"	23'-2"	20'-6"	18'-9"	17'-6"
	12"	26'-9"	23'-9"	21'-8"	20'-3"	26'-6"	23'-6"	21'-6"	20'-0"
	14"	30'-0"	26'-7"	24'-4"	21'-9"	28'-6"	26'-0"	23'-7"	20'-6"
	16"	33'-1"	29'-4"	26'-9"	24'-9"	32'-7"	29'-0"	26'-6"	23'-6"
	18"	34'-0"	31'-8"	29'-0"	27'-0"	33'-6"	31'-6"	28'-8"	25'-8"
Slab Topping	Joist Size	80 PSF LL/Joist spacing (ft)				100 PSF LL/Joist spacing (ft)			
		2'	3'	4'	5'	2'	3'	4'	5'
3.5"	6"	15'-7"	13'-10"	12'-8"	11'-6"	14'-10"	13'-6"	11'-10"	10'-7"
	8"	19'-3"	17'-2"	15'-8"	14'-3"	18'-10"	16'-8"	14'-9"	13'-3"
	10"	22'-9"	20'-2"	18'-6"	16'-7"	22'-3"	19'-8"	17'-2"	15'-4"
	12"	25'-6"	23'-0"	20'-7"	18'-6"	25'-3"	22'-1"	19'-2"	17'-1"
	14"	28'-10"	24'-0"	22'-6"	20'-3"	28'-2"	24'-2"	20'-8"	18'-6"
	16"	31'-9"	28'-1"	24'-7"	22'-0"	31'-2"	25'-5"	22'-9"	20'-4"
	18"	34'-0"	30'-6"	26'-6"	23'-6"	33'-6"	28'-2"	24'-7"	20'-7"
4.0"	6"	15'-4"	13'-6"	12'-3"	11'-0"	15'-0"	13'-2"	11'-3"	10'-2"
	8"	19'-0"	16'-7"	15'-4"	13'-8"	18'-2"	16'-3"	14'-2"	12'-8"
	10"	22'-3"	19'-11"	18'-2"	16'-6"	22'-0"	19'-4"	17'-2"	15'-4"
	12"	25'-4"	22'-7"	20'-7"	18'-6"	23'-7"	22'-2"	19'-3"	17'-3"
	14"	28'-2"	23'-9"	22'-0"	20'-1"	27'-10"	23'-6"	20'-5"	18'-5"
	16"	31'-6"	28'-0"	24'-7"	21'-9"	30'-8"	26'-7"	22'-8"	20'-5"
	18"	34'-0"	30'-6"	26'-6"	23'-5"	33'-7"	28'-5"	24'-7"	21'-2"

L/500 Deflection									
Slab Topping	Joist Size	40 PSF LL/Joist spacing (ft)				50 PSF LL/Joist spacing (ft)			
		2'	3'	4'	5'	2'	3'	4'	5'
		Clear Span Capability				Clear Span Capability			
3.5"	6"	15'-6"	13'-8"	12'-7"	11'-10"	15'-3"	13'-7"	12'-6"	11'-7"
	8"	19'-1"	17'-0"	15'-7"	14'-6"	19'-0"	16'-9"	15'-4"	14'-4"
	10"	22'-6"	20'-0"	18'-3"	17'-1"	22'-3"	19'-8"	18'-1"	16'-10"
	12"	25'-5"	22'-9"	20'-10"	19'-7"	25'-2"	22'-7"	20'-8"	19'-4"
	14"	28'-8"	25'-6"	23'-3"	21'- 8"	28'-2"	25'-3"	23'-1"	21'-6"
	16"	31'-8"	28'-0"	25'-6"	23'-9"	31'-4"	27'-7"	25'-4"	23'-6"
	18"	34'-0"	30'-3"	27'-8"	25'-9"	33'-6"	30'-1"	27'-4"	25'-6"
4.0"	6"	15'-3"	13'-4"	12'-3"	11'-4"	15'-0"	13'-4"	12'-1"	11'-4"
	8"	18'-7"	16'-5"	15'-1"	14'-1"	18'-6"	16'-5"	15'-0"	14'-0"
	10"	22'-0"	19'-5"	17'-11"	16'-7"	21'-9"	19'-4"	17'-8"	16'-6"
	12"	25'-1"	22'-4"	20'-5"	19'-1"	24'-10"	22'-1"	20'-2"	18'-10"
	14"	28'-6"	25'-0"	22'-10"	21'-5"	27'-10"	24'-8"	22'-8"	21'-3"
	16"	31'-0"	27'-7"	25'-3"	23'-7"	30'-10"	27'-4"	25'-1"	23'-4"
	18"	33'-8"	30'-1"	27'-7"	25'-7"	33'-7"	29'-10"	27'-4"	25'-4"
Slab Topping	Joist Size	80 PSF LL/Joist spacing (ft)				100 PSF LL/Joist spacing (ft)			
		2'	3'	4'	5'	2'	3'	4'	5'
		Clear Span Capability				Clear Span Capability			
3.5"	6"	14'-10"	13'-2"	12'-1"	11'-3"	14'-8"	13'-0"	11'-10"	10'-2"
	8"	18'-4"	16'-3"	15'-0"	14'-0"	18'-1"	16'-1"	14'-7"	12'-10"
	10"	21'-8"	19'-2"	17'-6"	16'-1"	21'-3"	18'-10"	17'-2"	15'-4"
	12"	24'-7"	21'-10"	20'-1"	18'-5"	24'-4"	21'-6"	19'-3"	17'-3"
	14"	27'-5"	24'-6"	22'-6"	20'-3"	27'-2"	23'-8"	21'-3"	19'-0"
	16"	30'-6"	27'-1"	24'-6"	22'-0"	30'-0"	26'-3"	23'-1"	20'-6"
	18"	33'-2"	29'-3"	26'-6"	23'-7"	32'-7"	28'-3"	24'-7"	22'-0"
4.0"	6"	14'-6"	12'-9"	11'-10"	11'-0"	14'-4"	12'-7"	11'-4"	10'-2"
	8"	18'-0"	16'-0"	14'-7"	13'-7"	17'-6"	15'-6"	14'-3"	12'-10"
	10"	21'-3"	18'-10"	17'-3"	16'-0"	21'-0"	18'-7"	17'-0"	15'-4"
	12"	24'-3"	21'-6"	19'-7"	18'-4"	23'-10"	21'-2"	19'-1"	17'-3"
	14"	27'-2"	24'-1"	22'-1"	19'-8"	26'-8"	23'-7"	21'-2"	19'-0"
	16"	30'-0"	26'-6"	24'-4"	21'-9"	29'-7"	26'-2"	23'-0"	20'-6"
	18"	32'-8"	29'-1"	26'-5"	23'-1"	32'-2"	28'-2"	24'-7"	22'-2"

## Get Started with Super Floor

### Request an Estimate

Ready to take the next step towards superior quality and performance in your construction projects? Don't hesitate to reach out to us today. Simply visit our website to fill out a form for a free estimate. Our team of experts will promptly assess your project needs and provide you with a detailed estimate tailored to your requirements.

[Request an Estimate →](#)

### Schedule a Call

Looking for personalized guidance and expert advice? Schedule a call with one of our knowledgeable representatives. Whether you have specific questions or need assistance in choosing the right flooring solution for your project, our team is here to help. Take the first step towards excellence with Super Floor.

[Schedule a Call →](#)

