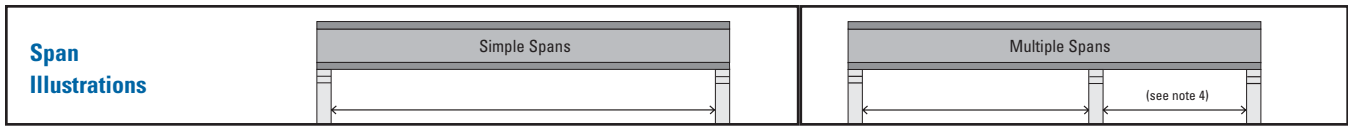


# GPI and WI Series Joists – Residential Floor Span Charts



## 40 PSF Live Load + 10 PSF Dead Load

## Improved Performance<sup>1</sup> (L/480)

Joist	Joist Depth	Spacing (Simple Span)				Spacing (Multiple Span)			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
GPI 20	1 1/8"	20'-05"	18'-08"	17'-08"	16'-06"	22'-02"	20'-03"	19'-01"	17'-05"
GPI 40	9 1/2"	18'-00"	16'-06"	15'-07"	14'-06"	19'-07"	17'-10"	16'-10"	15'-06"
	1 1/8"	21'-06"	19'-08"	18'-07"	17'-04"	23'-04"	21'-04"	19'-09"	17'-08"
	14"	24'-04"	22'-03"	21'-00"	19'-05"	26'-06"	23'-09"	21'-08"	19'-04"
GPI 65	1 1/8"	23'-03"	21'-03"	20'-00"	18'-08"	25'-03"	23'-00"	21'-09"	20'-03"
	14"	26'-05"	24'-02"	22'-09"	21'-03"	28'-09"	26'-02"	24'-08"	20'-08"
	16"	29'-04"	26'-09"	25'-03"	23'-07"	31'-11"	29'-01"	25'-11"	20'-08"
WI 40	9 1/2"	18'-00"	16'-05"	15'-06"	14'-06"	19'-07"	17'-11"	16'-04"	14'-07"
	1 1/8"	21'-05"	19'-07"	18'-06"	16'-08"	23'-05"	20'-05"	18'-07"	16'-07"
	14"	24'-04"	22'-03"	20'-06"	18'-04"	25'-11"	22'-05"	20'-05"	18'-03"
WI 60	1 1/8"	22'-07"	20'-08"	19'-06"	18'-02"	24'-08"	22'-06"	21'-02"	19'-07"
	14"	25'-09"	23'-06"	22'-02"	20'-08"	28'-00"	25'-07"	24'-01"	19'-09"
	16"	28'-06"	26'-00"	24'-07"	22'-10"	31'-01"	28'-04"	24'-09"	19'-09"
WI 80	1 1/8"	24'-11"	22'-08"	21'-04"	19'-10"	27'-01"	24'-08"	23'-03"	21'-07"
	14"	28'-03"	25'-09"	24'-03"	22'-07"	30'-10"	28'-00"	26'-05"	23'-11"
	16"	31'-04"	28'-06"	26'-10"	25'-00"	34'-02"	31'-01"	29'-03"	23'-11"

## 40 PSF Live Load + 20 PSF Dead Load

## Improved Performance<sup>1</sup> (L/480)

Joist	Joist Depth	Spacing (Simple Span)				Spacing (Multiple Span)			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
GPI 20	1 1/8"	20'-05"	18'-08"	17'-08"	15'-11"	22'-02"	19'-05"	17'-09"	15'-05"
GPI 40	9 1/2"	18'-00"	16'-06"	15'-07"	14'-02"	19'-07"	17'-04"	15'-10"	14'-02"
	1 1/8"	21'-06"	19'-08"	18'-01"	16'-02"	22'-10"	19'-09"	18'-00"	16'-01"
	14"	24'-04"	21'-09"	19'-10"	17'-09"	25'-01"	21'-08"	19'-09"	17'-01"
GPI 65	1 1/8"	23'-03"	21'-03"	20'-00"	18'-08"	25'-03"	23'-00"	21'-06"	17'-02"
	14"	26'-05"	24'-02"	22'-09"	21'-03"	28'-09"	25'-11"	21'-06"	17'-02"
	16"	29'-04"	26'-09"	25'-03"	22'-03"	31'-11"	25'-11"	21'-06"	17'-02"
WI 40	9 1/2"	18'-00"	16'-05"	14'-11"	13'-04"	18'-11"	16'-04"	14'-11"	13'-03"
	1 1/8"	21'-05"	18'-08"	17'-01"	15'-03"	21'-06"	18'-07"	17'-00"	15'-02"
	14"	23'-09"	20'-06"	18'-09"	16'-09"	23'-08"	20'-05"	18'-08"	16'-05"
WI 60	1 1/8"	22'-07"	20'-08"	19'-06"	17'-11"	24'-08"	21'-11"	20'-00"	16'-05"
	14"	25'-09"	23'-06"	22'-00"	19'-08"	27'-10"	24'-01"	20'-07"	16'-05"
	16"	28'-06"	26'-00"	23'-09"	19'-10"	30'-00"	24'-09"	20'-07"	16'-05"
WI 80	1 1/8"	24'-11"	22'-08"	21'-04"	19'-10"	27'-01"	24'-08"	22'-09"	18'-02"
	14"	28'-03"	25'-09"	24'-03"	21'-02"	30'-10"	28'-00"	24'-11"	19'-11"
	16"	31'-04"	28'-06"	26'-06"	21'-02"	34'-02"	30'-00"	24'-11"	19'-11"

**NOTES:**

1. These span charts are based on uniform loads, as noted above; live load deflection is limited to L/480 for better performance. Floor performance is greatly influenced by the stiffness of the floor joists. Experience has shown that joists designed to the code minimum live load deflection (L/360) will result in a floor which may not meet the expectations of some end users. BlueLinX strongly recommends floor spans for Wood I Beam joists be in accordance with those given above, which are based on L/480 live load deflection. (One-third stiffer than required by code.)
2. Spans are clear distances between supports, and are based on composite action with glued-nailed APA Rated Sheathing or Sturd-I-Floor of minimum thickness 19/32" (40/20 or 20 oc) for joist spacing of 19.2" or less, or 23/32" (48/24 or 24 oc) for a joist spacing of 24".

- Adhesive must meet APA AFG-01 or ASTM D3498. Apply a continuous line of glue (about 1/4" diameter) to top flange of joists. All surfaces must be clean and dry. If sheathing is nailed only (not recommended), reduce spans by 12".
3. Minimum end bearing length is 1-3/4". Minimum intermediate bearing length is 3-1/2".
  4. For multiple-span joists: End spans must be at least 40% of the adjacent span. Spans shown above cover a broad range of applications. It may be possible to exceed these spans by analyzing a specific application with GP FASTBeam® selection software.
  5. For loading other than that shown above use GP FASTBeam® selection software or contact BlueLinX Engineered Lumber Technical Services.
  6. Not all products are available at all distribution centers; contact BlueLinX for availability.