



## Anthony Forest Products PJI JOIST SPAN Chart

FLOOR JOISTS LL = 40 PSF  
DL = 15 PSF

### LIMIT STATES DESIGN INPUT PARAMETERS:

LL Deflection Limit	1/360
TL Deflection Limit	1/240
Vibration Checked	YES
Ceiling	NONE
Decking	5/8" OSB, Nailed & Glued ( 3/4" for 24" o.c.)
Strapping	NONE
Blocking	NONE
CODE	NBCC 2010 / OBC 2012

MAXIMUM ALLOWABLE SPAN (centerline of bearing)					
Series	Depth	Joist spacing			
		12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
PJI 40	9-1/2"	16'-0"	15'-1"	14'-7"	14'-1"
	11-7/8"	17'-11"	16'-11"	16'-4"	15'-9"
	14"	19'-9"	18'-5"	17'-8"	17'-1"
	16"	21'-7"	20'-0"	19'-2"	18'-4"
PJI 80	11-7/8"	19'-11"	18'-5"	17'-8"	17'-1"
	14"	22'-1"	20'-6"	19'-6"	18'-8"
	16"	24'-1"	22'-3"	21'-3"	20'-3"



### NOTES:

- Load Duration Factor = 1.0
- Centerline of bearing span applicable to simple span residential floor construction with a design live load of 40 psf (1.92kPa) and dead load of 15 psf (.72kPa). The ultimate limit states are based on the factored loads of 1.25D + 1.50L. The serviceability limit states include the consideration for floor vibration and a live load deflection limit of the span/360 and a total load deflection limit of 1/240.
- Spans are based on composite floor with glue-nail sheathing meeting requirements for APA Rated Sheathing or APA Rated STURD-I-FLOOR conforming to PRP-108, PS1, PS2, CSA 0151, CSA 0437 with a minimum thickness of 5/8 inch for a joist spacing of 19.2" or less, or 23/32 inch for a joist spacing of 24". Adhesive shall meet the requirements given in ASTM D3498 or APA Specification AFG-01. **No concrete topping, gypsum ceiling, or bridging element was assumed.**
- Minimum bearing length shall be 1-3/4" for the end bearings.
- Refer to PJI Installation Guide and Product Information Guide for framing details, web hole chart, and storage and handling instructions.
- Do not cut or notch flanges. Do not violate web hole chart rules.

PJI Evaluation Reports: CCMC 13053-R, ICC-ESR 1262, ICC-ESR 1405 (APA), City of LA RR 25556



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