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I-JOISTS
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even



APPROVED PRODUCTS

 **PINKWOOD** RESIDENTIAL I-JOISTS

PKI 10, PKI 20, PKI 35 plus, PKI 40, PKI 50
Fire Rated I-Joists - Canada



PKI 10 SERIES

Available depths: 9 1/2", 11 7/8", 14"
Chord size: 2 1/2" x 1 1/2"
Webstock: 3/8" OSB

PKI 20 SERIES

Available depths: 9 1/2", 11 7/8", 14", 16"
Chord size: 2 1/2" x 1 1/2"
Webstock: 3/8" OSB

PKI 35 plus & 40 SERIES

Avail. depths: 9 1/2", 11 7/8", 14", 16"
Chord size: 3 1/2" x 1 1/2"
Webstock: 3/8" OSB

PKI 50 SERIES

Avail. depths: 11 7/8", 14", 16"
Chord size: 3 1/2" x 1 1/2"
Webstock: 7/16" OSB

PHYSICAL PROPERTIES for PKjoists LSD

Joist Series	Joist Depth (inches)	Weight (plf)	Factored Moment Resistance (lbs-ft)	Factored Shear Resistance (lbs)	End Reaction (lbs)				Intermediate Reaction (lbs)				Bending Stiffness EI (x 10 ⁶ lbs-in ²)	Shear Deflection Coefficient K(x10 ⁶ lbs)
					1 1/2" Bearing		4" Bearing		3 1/2" Bearing		5 1/2" Bearing			
					Web Stiff.		Web Stiff.		Web Stiff.		Web Stiff.			
					No	Yes	No	Yes	No	Yes	No	Yes		
PKI 10	9 1/2"	2.3	3760	1990	1420	1800	1750	1990	3465	3600	3865	3975	168	4.94
	11 7/8"	2.7	4450	2345	1420	2010	1830	2345	3465	3920	3985	4435	286	6.18
	14"	3.0	6185	2650	1420	2200	1895	2650	3465	4205	4080	4672	420	7.28
PKI 20	9 1/2"	2.6	4675	1990	1530	1800	1750	1990	3465	3750	3865	4160	193	4.94
	11 7/8"	2.9	6250	2345	1530	2010	1830	2345	3680	3985	4095	4465	327	6.18
	14"	3.1	7325	2650	1530	2200	1895	2650	3875	4205	4300	4745	479	7.28
	16"	3.3	8410	2950	1530	2385	1955	2950	4055	4410	4500	5010	652	8.32
PKI 35 Plus	9 1/2"	2.7	5580	1990	1420	1800	1750	1990	3465	3600	3865	3975	234	4.94
	11 7/8"	2.9	7225	2345	1420	2010	1830	2345	3465	3920	3985	4435	396	6.18
	14"	3.2	8665	2650	1420	2200	1895	2650	3465	4205	4080	4672	580	7.28
	16"	3.4	9850	2950	1420	2385	1930	2945	3465	4545	4175	4900	787	8.32
PKI 40	9 1/2"	3.4	8960	2115	1870	2115	2060	2115	4575	4885	4640	5045	328	4.94
	11 7/8"	3.6	11590	2565	1965	2385	2520	2565	4775	5270	4925	5550	553	6.18
	14"	3.9	13960	2960	2020	2620	2520	2960	4865	5625	5175	6005	807	7.28
	16"	4.0	16180	3340	2040	2840	2520	3340	4960	5960	5420	6440	1092	8.32
PKI 50	11 7/8"	4.5	13230	3245	2160	2875	2670	3245	5400	6315	5740	6645	600	6.18
	14"	4.8	15300	3680	2185	3110	2910	3680	5420	6725	5910	7165	875	7.28
	16"	5.0	17720	4080	2210	3330	3135	4080	5445	7110	6075	7665	1183	8.32

Note - Above design properties are factored resistance for Limit States Design, and for standard term load duration

PinkWood I-joists are manufactured on Western Canada's only high-speed equipment with integrated coating technology. PKjoists are built to precise tolerances and will resist warping, crowing and shrinkage. Our residential joists are available in five series ranging in depths of 9.5" up to 16" and manufactured in lengths up to 58'. Our fire rated series joists are available in two performance* levels: 1) Class A FSR of 25 or less 2) Class B FSR of 26-75

SIMPLE SPAN: 40 PSF LL/10 PSF DL (L/480) - 19/32" SHEATHING GLUED & NAILED

JOIST DEPTH	JOIST TYPE	W/O CEILING DIRECTLY APPLIED O/C SPACING			WITH CEILING DIRECTLY APPLIED O/C SPACING		
		12"	16"	19.2"	12"	16"	19.2"
9 1/2"	PKI 10	15'- 4"	14'- 6"	14'- 1"	15'- 10"	15'- 0"	14'- 6"
	PKI 20	15'- 9"	14'- 10"	14'- 5"	16'- 2"	15'- 3"	14'- 9"
	PKI 35 plus	16'- 3"	15'- 4"	14'- 10"	16'- 8"	15'- 9"	15'- 3"
	PKI 40	17'- 2"	16'- 2"	15'- 8"	17'- 7"	16'- 7"	16'- 0"
11 7/8"	PKI 10	17'- 3"	16'- 3"	15'- 9"	17'- 9"	16'- 9"	16'- 3"
	PKI 20	17'- 7"	16'- 7"	16'- 1"	18'- 1"	17'- 1"	16'- 7"
	PKI 35 plus	18'- 2"	17'- 2"	16'- 7"	18'- 10"	17'- 7"	17'- 1"
	PKI 40	19'- 7"	18'- 2"	17'- 6"	20'- 2"	18'- 8"	17'- 11"
14"	PKI 50	19'- 11"	18'- 5"	17'- 9"	20'- 6"	19'- 0"	18'- 2"
	PKI 10	18'- 10"	17'- 8"	17'- 1"	19'- 8"	18'- 3"	17'- 8"
	PKI 20	19'- 5"	18'- 1"	17'- 6"	20'- 2"	18'- 9"	18'- 0"
	PKI 35 plus	20'- 3"	18'- 9"	18'- 0"	20'- 11"	19'- 5"	18'- 8"
16"	PKI 40	21'- 9"	20'- 1"	19'- 3"	22'- 5"	20'- 9"	19'- 10"
	PKI 50	22'- 2"	20'- 6"	19'- 7"	22'- 10"	21'- 1"	20'- 2"
	PKI 20	21'- 1"	19'- 7"	18'- 10"	21'- 11"	20'- 5"	19'- 7"
	PKI 35 plus	22'- 0"	20'- 5"	19'- 7"	22'- 9"	21'- 2"	20'- 3"
16"	PKI 40	23'- 8"	21'- 10"	20'- 11"	24'- 5"	22'- 7"	21'- 7"
	PKI 50	24'- 1"	22'- 3"	21'- 3"	24'- 10"	23'- 0"	21'- 11"

SIMPLE SPAN: 40 PSF LL/10 PSF DL (L/480) - 23/32" SHEATHING GLUED & NAILED

JOIST DEPTH	JOIST TYPE	W/O CEILING DIRECTLY APPLIED O/C SPACING				WITH CEILING DIRECTLY APPLIED O/C SPACING			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9 1/2"	PKI 10	16'- 3"	15'- 4"	14'- 10"	14'- 1"	16'- 8"	15'- 9"	15'- 2"	14'- 1"
	PKI 20	16'- 7"	15'- 8"	15'- 1"	14'- 6"	17'- 0"	16'- 1"	15'- 6"	14'- 8"
	PKI 35 plus	17'- 2"	16'- 2"	15'- 7"	15'- 0"	17'- 6"	16'- 7"	15'- 11"	15'- 4"
	PKI 40	18'- 2"	17'- 1"	16'- 5"	15'- 9"	18'- 7"	17'- 5"	16'- 9"	16'- 1"
11 7/8"	PKI 10	18'- 2"	17'- 2"	16'- 6"	15'- 8"	18'- 10"	17'- 8"	17'- 0"	15'- 8"
	PKI 20	18'- 8"	17'- 6"	16'- 11"	16'- 3"	19'- 4"	18'- 0"	17'- 4"	16'- 8"
	PKI 35 plus	19'- 6"	18'- 1"	17'- 5"	16'- 9"	20'- 1"	18'- 8"	17'- 10"	17'- 2"
	PKI 40	20'- 11"	19'- 4"	18'- 5"	17'- 8"	21'- 6"	19'- 11"	18'- 11"	18'- 0"
14"	PKI 50	21'- 4"	19'- 8"	18'- 9"	17'- 10"	21'- 10"	20'- 3"	19'- 3"	18'- 3"
	PKI 10	20'- 2"	18'- 9"	17'- 11"	17'- 3"	20'- 11"	19'- 6"	18'- 8"	17'- 10"
	PKI 20	20'- 9"	19'- 3"	18'- 5"	17'- 7"	21'- 6"	20'- 0"	19'- 1"	18'- 2"
	PKI 35 plus	21'- 7"	20'- 0"	19'- 1"	18'- 2"	22'- 3"	20'- 8"	19'- 9"	18'- 9"
16"	PKI 40	23'- 3"	21'- 6"	20'- 6"	19'- 5"	23'- 10"	22'- 1"	21'- 1"	19'- 11"
	PKI 50	23'- 8"	21'- 10"	20'- 10"	19'- 9"	24'- 3"	22'- 5"	21'- 5"	20'- 3"
	PKI 20	22'- 7"	20'- 11"	20'- 0"	19'- 0"	23'- 4"	21'- 9"	20'- 9"	19'- 9"
	PKI 35 plus	23'- 6"	21'- 9"	20'- 9"	19'- 9"	24'- 3"	22'- 6"	21'- 6"	20'- 5"
16"	PKI 40	25'- 3"	23'- 4"	22'- 3"	21'- 1"	25'- 11"	24'- 0"	22'- 11"	21'- 8"
	PKI 50	25'- 9"	23'- 9"	22'- 7"	21'- 5"	26'- 4"	24'- 5"	23'- 3"	22'- 0"

* Fire performance levels apply to the I-Joist web only.
See next page for Notes on Span Tales.

NOTES ON SPAN TABLES

- The spans have been determined in accordance with CSA O86-09 "engineering design in wood" and the vibration design criteria developed by the Canadian Construction Materials Centre (CCMC).
- The maximum simple spans in the tables are design spans measured from the centre of minimum end bearing to the centre of minimum end bearing
- Spans are based on composite action for sheathing glued and nailed to the I-joists. The spans are not applicable when the sheathing is nailed only to the joists.
- The spans have been determined by applying a system factor of 1.00 To the joist factored moment resistance.
- Deflection under total load limited to $l/240$.
- Minimum end bearing length required is 1 1/2".
- Span requires 2 1/2" end bearing.
- The adhesive utilized to glue the sheathing to the joists shall comply with standard CAN/CGSB 71.26-M88.
- The ceiling shall be a single layer of 1/2" thick gypsum board directly applied to the joists.
- For multiple spans or load conditions not shown, please consult PinkWood approved software.

ENGINEERED FLOOR SYSTEM GUARANTEE

PinkWood joists are manufactured to meet or exceed the rigorous engineering and testing standards set by every major code approval agency in North America.

All PinkWood joist products are fully guaranteed to be free of manufacturing defects. PinkWood Ltd. guarantees that its PinkWood joist products, when installed and handled as per the PKjoist installation guide, will perform in accordance with the published structural specifications.

In the unlikely event that a problem occurs due to a manufacturing defect, PinkWood Ltd. shall be given a reasonable opportunity to inspect the PinkWood product on site. If this evaluation reveals a problem due to manufacturing defects, the situation shall be promptly corrected.

Please feel free to contact a representative of PinkWood Ltd. for specific details and limitations of this guarantee.



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When you build a home with PinkWood products you are supporting the search for a cure. 20¢ for every gallon of PinkShield™ coating used is donated, to the CBCF.

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