

LISTING INFORMATION OF Pinkwood Ltd. PKI-Joist Series

SPEC ID: 34689

Pinkwood Ltd. 5929 6th Street NE Calgary, AB T2K 5R5 Canada

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### LISTING INFORMATION

PKI I-Joist Series is a pre-fabricated joist consisting of dimensional or finger joint lumber for flanges and OSB web stock. For I-joists with depths ranging from 9 ½" to 16", 3/8" thick OSB web stock is used and for depths ranging from 18" to 24", 7/16" thick OSB web stock is used (except for PKI 23 – PKI 23 consists of 7/16" thick OSB web). The specific Product Descriptions are presented in the tables below:

Product name	Depth	Lumber grade			
	9 1⁄2"	Enhanced/Dinned 3v6 no. 3 Structural SDE			
PKI 10	11 7/8"	Ennanced/Ripped 2x6 no. 2 Structural, SPF Binped 2x6 1650 1 55 MSP lumber			
	14"				
DKI 15	9 1⁄2"	2x2 no. 2 SPE			
PKIIJ	11 7/8"	- 2x3 110. 2 3FF			
	9 ½"				
BKI 20	11 7/8"	Enhanced/Ripped 2x6 no. 2 Structural, SPF			
PKI 20	14"	Ripped 2x6 1650 1.5E MSR lumber			
	16"				
	9 ½"				
DKI 22	11 7/8"	Enhanced/Dinned 3x6 3400 MSD 4 9E SDE			
PKI 23	14"	Ennanced/kipped 2x6 2100 MSR 1.8E, SPF			
	16"				
PKI 35 Plus	9 ½"				
	11 7/8"	- Enhanced/Rinned 2v8 No. 2 structural SPI			
	14"	- Enhanced/Ripped 2x8 No. 2 Structural, SPF			
	16"				
	9 1⁄2"				
	11 7/8"				
	14"				
	16"				
PKI 40	18"	Enhanced 2x4 2100 MSR 1.8E, SPF			
	20"				
	22"				
	24"				
	11 7/8"				
	14"				
	16"				
PKI-50	18"	ENHANCED 2X4 2400 MSR 2.0E, SPF			
	20"				
	22"				
	24"	<u>]</u>			

FRA and FRB I-Joist Series are PKI series joists with factory applied intumescent coating. The specific Product Descriptions are presented in the tables below:

Product name	Depth	Lumber grade		
FRA & FRB 10	<b>9</b> ½"	Enhanced/Dinned 2x6 no. 2 Structural SDE		
	11 7/8"	Ennanced/Ripped 2x6 no. 2 Structural, SF		
	14"	Ripped 2x6 1650 1.5E MSR lumber		

	<b>9</b> ½"					
	11 7/8"	Enhanced/Ripped 2x6 no. 2 Structural, SPF				
	14"	Ripped 2x6 1650 1.5E MSR lumber				
	16"					
	<b>9</b> ½"					
	11 7/8"	Enhanced/Binned 2x6 2100 MSB 1 8E SBE				
	14"	Enhanced/Ripped 2x6 2100 MSR 1.6E, SPF				
<b>[</b>	16"					
	<b>9</b> ½"					
FRA & FRB 35 Plus	11 7/8"	Enhanced/Dinned 200 No. 2 structural CDE				
	14"	Ennanced/Ripped 2x8 No. 2 Structural, SPF				
	16"					
	<b>9</b> ½"					
	11 7/8"					
	14"					
	16"					
	18"	Ennanced 2x4 2100 MSR 1.8E, SPF				
	20"					
	22"					
	24"					
	11 7/8"					
	14"					
	16"					
FRA & FRB 50	18"	ENHANCED 2X4 2400 MSR 2.0E, SPF				
	20"					
	22"					
	24"					

Allowable Stress Design of PKI I-Joists

Standard	Joist Series	Joist Depth (in.)Series	Bending Stiffness (10 <sup>6</sup> lbf-in. <sup>2</sup> )	Moment Capacity (lbf-ft)	Shear Capacity (Ibf)	Uniform Vertical Load Capacity (Ibf/ft)	Coefficient of Shear Deflection (10 <sup>6</sup> lbf)
		9-1/2	168	2365	1260	2000	4.94
	PKI 10	11-7/8	286	3100	1485	2000	6.18
		14	420	3720	1680	2000	7.28
	PKI 15	9-1/2	136	2320	970	2000	4.50
		11-7/8	243	2850	1070	2000	5.64
AGTM	PKI 20	9-1/2	193	2810	1260	2000	4.94
ASTNI D5055		11-7/8	327	3755	1485	2000	6.18
03033		14	479	4405	1680	2000	7.28
		16	652	5060	1870	2000	8.32
		9-1/2	208	3330	1585	2000	4.94
	DKI 22	11-7/8	352	4320	1805	2000	6.18
		14	515	5200	2005	2000	7.28
		16	700	6030	2190	2000	8.32

	9-1/2	234	3395	1260	2000	4.94
PKI 35	11-7/8	396	4395	1485	2000	6.18
PLUS	14	580	5270	1680	2000	7.28
	16	787	5990	1870	2000	8.32
	9-1/2	328	5390	1340	2000	4.94
	11-7/8	553	6970	1625	2000	6.18
	14	807	8395	1875	2000	7.28
	16	1092	9730	2115	2000	8.32
PKI 40	18	1421	11005	2535	1800	9.36
	20	1799	12175	2680	1600	10.40
	22	2224	13335	2815	1300	11.44
	24	2698	14480	2945	1100	12.48
	11-7/8	565	7955	2135	2000	6.18
	14	824	9200	2280	2000	7.28
	16	1115	10655	2415	2000	8.32
PKI 50	18	1453	12770	2535	1800	9.36
	20	1839	14175	2680	1600	10.40
	22	2273	14590	2815	1300	11.44
	24	2757	15845	2945	1100	12.48

#### Reaction Capacities (Allowable Stress Design) for PKI I-Joists

Standard			End React	nd Reaction (lbf)				Intermediate Reaction (Ibf)			
	loist		1-1/2 in. or 2-1/2 in.		3-1/2 in. o	3-1/2 in. or 4 in.		3-1/2 in. Brg.		Brg.	Flange
	Joist	Denth	Brg. Leng	th	Brg. Length		Length		Length		Bearing
Seri	Series	(in.)	Without Brg. Stiffeners	With Brg. Stiffeners	Without Brg. Stiffeners	With Brg. Stiffeners	Without Brg. Stiffeners	With Brg. Stiffeners	Without Brg. Stiffeners	With Brg. Stiffeners	Capacity (Ibf/in.)
		9-1/2	900	1140	1110	1260	2195	2280	2450	2520	
	PKI 10	11-7/8	900	1275	1160	1485	2195	2485	2525	2810	955
		14	900	1395	1200	1680	2195	2665	2585	2960	
		9-1/2	960	-	970	-	1940	-	1940	-	F 2 0
	FKI 15	11-7/8	960	-	1070	-	2000	-	2140	-	550
ASTM		9-1/2	970	1140	1110	1260	2195	2375	2450	2635	
D5055	<b>DKI 20</b>	11-7/8	970	1275	1160	1485	2330	2525	2595	2830	055
	F KI 20	14	970	1395	1200	1680	2455	2665	2725	3005	900
		16	970	1510	1240	1870	2570	2795	2850	3175	
		9-1/2	1050	1430	1350	1500	2410	2770	2850	3210	
	22 122	11-7/8	1050	1470	1435	1680	2410	2770	2850	3280	1100
	F KI 23	14	1050	1505	1485	1845	2410	2770	2850	3340	1100
		16	1050	1540	1500	2000	2410	2770	2850	3400	
		9-1/2	900	1140	1110	1260	2195	2280	2450	2520	
	PKI 35	11-7/8	900	1275	1160	1485	2195	2485	2525	2810	1200
	PLUS	14	900	1395	1200	1680	2195	2665	2585	2960	1300
		16	900	1510	1240	1865	2195	2880	2645	3105	

9-1/2 11-7/2 14 PKI 40 16 18	9-1/2	1185	1340	1305	1340	2900	3095	2940	3195	
	11-7/8	1245	1510	1595	1625	3025	3340	3120	3515	
	14	1295	1660	1595	1875	3085	3565	3280	3805	
	16	1310	1800	1595	2115	3145	3775	3435	4080	1705
	18	1310	2060	1680	2550	2850	4285	3435	4970	1705
	20	1310	2185	1680	2640	2850	4410	3435	4970	
	22	1310	2310	1680	2735	2850	4530	3435	4970	
	24	1310	2440	1680	2830	2850	4640	3435	4970	
	11-7/8	1245	1510	1595	1625	3025	3340	3120	3515	
	14	1280	1660	1595	1875	3085	3565	3280	3805	
	16	1295	1800	1595	2115	3145	3775	3435	4080	
PKI 50	18	1310	2060	1680	2550	2850	4285	3435	4970	1995
	20	1310	2185	1680	2640	2850	4410	3435	4970	
	22	1310	2310	1680	2735	2850	4530	3435	4970	
	24	1310	2440	1680	2830	2850	4640	3435	4970	

#### FIRE RESISTANCE RATINGS

Standard	Rating	Design Number
	45-Minute	PWL/SFSW 45-01
	60-Minute	PWL/SFSW 60-01
	60-Minute	PWL/SFSW 60-02
	60-Minute	PWL/SFSW 60-03
CAN/OLC STOT	60-Minute	PWL/SFSW 60-04
	90-Minute	PWL/SFSW 90-01
	120-Minute	PWL/SFSW 120-01

#### QUALITY ASSURANCE

This specification confirms the products are manufactured under a program of follow-up inspections conducted by Intertek. The inspections verify the products are manufactured in a manner consistent with the submitted quality system documentation. Pinkwood's WEBShield panel is also under Intertek's follow-up inspections:

Product	Evaluation Report		
WERShield Denel	IAPMO ER-0431		
	IAPMO ER-0653		

Attribute	Value
Criteria	CAN / ULC S101 (2007)
Criteria	ASTM E119 (2012a)
Criteria	ASTM D5055 (2012)
Criteria	ASTM D5055 (2016)
CSI Code	06 17 33 Wood I-Joists

Intertek ServicesCertificationIntertek ServicesQuality AssuranceListed or InspectedLISTEDListing SectionPREFABRICATED JOISTSSpec ID34689

# **DRAWING INDEX**

PWL/SFSW 45-01 PWL/SFSW 60-02 PWL/SFSW 60-03 PWL/SFSW 60-04 PWL/SFSW 60-05 PWL/SFSW 90-01 PWL-SFSW 120-01

# **PWL/SFSW 45-01**



### PWL/SFSW 45-01 (2 OF 2)

<ul> <li>These additional channels shall extend to the next joist on each side of the board end joint.</li> <li>GYPSUM WALLBOARD: Min. 5/8 in. thick Type X gypsum wallboard installed with long dimension perpendicular to resilient channels and fastened to each channel with min. 1-1/8 in. long Type S drywall screws. Fasteners spaced 12 in. oc in the field of the wallboard,</li> </ul>	<ul> <li>8 in. oc at wallboard end joints, and 1-1/2 if from panel edges and ends. Edge joints shall be centered on joists. End joints of wallboard staggered a min. of one channel spacing.</li> <li>FINISH SYSTEM: (Not Shown) Face layer join covered with tape and coated with joi compound. Screw heads covered with joi compound.</li> </ul>
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### PWL/SFSW 60-01 (2 OF 2)

# in

the joists with one 1-1/4 in. drywall screw. Channels spaced a max. of 16 in. oc. The max. channel spacing may be increased to 24 in. oc when joists are spaced a max. of 16 in. oc.

- **6. GYPSUM WALLBOARD:** Two layers of min. 1/2 in. Type X gypsum wallboard attached with the long dimension perpendicular to the resilient channels (or joists) as follows:
  - 6a. WALLBOARD BASE LAYER Base layer of wallboard attached to resilient channels (or joists) using 1-1/4 in. Type S drywall screws at 12 in. oc. When resilient channels are installed, edge joints shall be centered on joists. End joints of wallboard staggered a min. of one channel (or joist) spacing.

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- 6b. WALLBOARD FACE LAYER Face layer of wallboard attached to resilient channels (or joists) through base layer using 1-5/8 in. Type S drywall screws spaced 12 in. oc. Edge joints of wallboard face layer offset a distance equal to the joist spacing, from those of base layer. End joints shall be offset from base layer joints by a min. of one channel (or joist) spacing and shall be centered in-between channel (or joist) spacing. Additionally, wallboard face layer attached to base layer with 1-1/2 in. Type G drywall screws spaced 8 in. oc, placed 1-1/2 in. from face layer end joints.
- **7. FINISH SYSTEM:** (Not Shown) Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.

Components	STC Rating	IIC Rating	Acoustic Mat	Floor Topping	Insulation Thickness	
Ceramic tile bonded	C.F.	F 2	5 mm Recycled	1 in. thick Gypsum	1-1/2 in. thick mineral	
with thinset adhesive	65	55	Rubber Underlayment	Concrete	wool insulation	
Ceramic tile bonded		E 4	5 mm Recycled	1-1/2 in. thick	1-1/2 in. thick mineral	
with thinset adhesive	00	54	Rubber Underlayment	lightweight concrete	wool insulation	
Ceramic tile bonded		40	5 mm Recycled	Nono	1-1/2 in. thick mineral	
with thinset adhesive	55	49	Rubber Underlayment	None	wool insulation	
Llardurand	C.F.		2 mm Foam	1 in. thick Gypsum	1-1/2 in. thick mineral	
Hardwood	65	22	Underlayment	Concrete	wool insulation	
Llardurand		FC	2 mm Foam	1-1/2 in. thick	1-1/2 in. thick mineral	
Hardwood	00	50	Underlayment	lightweight concrete	wool insulation	
Llardurand		47	2 mm Foam	Nana	1-1/2 in. thick mineral	
Hardwood	55	47	Underlayment	None	wool insulation	
Cushionod Vinul	CE.		Nono	1 in. thick Gypsum	1-1/2 in. thick mineral	
Cushioneu viityi	05	55	None	Concrete	wool insulation	
Cushioned Vinyl	66	56	None	1-1/2 in. thick	1-1/2 in. thick mineral	
Cushioneu viityi	00	50	None	lightweight concrete	wool insulation	
Cushionod Vinul		16	Nono	Nono	1-1/2 in. thick mineral	
cushioneu viriyi	55	40	NOTE	None	wool insulation	
Corpot with Dod	CE.	F.0	Nono	1 in. thick Gypsum	1-1/2 in. thick mineral	
Carpet with Pau	05	59	None	Concrete	wool insulation	
Carpot with Bad	66	62	Nono	1-1/2 in. thick	1-1/2 in. thick mineral	
Carper With Pau	00	02	NONE	lightweight concrete	wool insulation	
Carpot with Pad	55	19	None	None	1-1/2 in. thick mineral	
Carper with Pau	55	40	NUTE	NUTE	wool insulation	

Table 1 – STC and IIC Ratings

NOTE: The STC and IIC ratings are estimated by Swallow Acoustic Consultants Ltd. The ratings apply to assemblies with 19/32 in. thick subfloor or thicker.

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SFT-BC-OP-19i

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### PWL/SFSW 60-02 (2 OF 2)

# in

drywall screws. Resilient channels spaced a max. of 16 in. oc. Additional channels are required at gypsum board end joints so that each board is attached to a separate channel. These additional channels shall extend to the next joist on each side of the board end joint.

 GYPSUM WALLBOARD: Min. 5/8 in. thick Type C gypsum wallboard installed with long dimension perpendicular to resilient channels and fastened to each channel with min. 1 in. long Type S drywall screws. Fasteners spaced Division 06 – Wood, Plastics, and Composites 06 17 00 Shop Fabricated Structural Wood 06 17 33 Wood I-Joists

12 in. oc in the field of the wallboard, 8 in. oc at wallboard end joints, and 1-1/2 in. from panel edges and ends. Edge joints shall be centered between joists. End joints shall be staggered one channel spacing.

**7. FINISH SYSTEM:** (Not Shown) Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.

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Components	STC Rating	IIC Rating	Acoustic Mat	Floor Topping	Insulation Thickness
Ceramic tile bonded	62	50	5 mm Recycled	1 in. thick Gypsum	1-1/2 in. thick mineral
with thinset adhesive		50	Rubber Underlayment	Concrete	wool insulation
Ceramic tile bonded	63	52	5 mm Recycled	1-1/2 in. thick	1-1/2 in. thick mineral
with thinset adhesive		52	Rubber Underlayment	lightweight concrete	wool insulation
Ceramic tile bonded	51	47	5 mm Recycled	None	1-1/2 in. thick mineral
with thinset adhesive		47	Rubber Underlayment		wool insulation
11l	62	53	2 mm Foam	1 in. thick Gypsum	1-1/2 in. thick mineral
Hardwood			Underlayment	Concrete	wool insulation
Hardwood	64	54	2 mm Foam	1-1/2 in. thick	1-1/2 in. thick mineral
			Underlayment	lightweight concrete	wool insulation
Hardwood	51	45	2 mm Foam	None	1-1/2 in. thick mineral
Hardwood		45	Underlayment		wool insulation
Cushioned Vinyl	62	52	None	1 in. thick Gypsum	1-1/2 in. thick mineral
				Concrete	wool insulation
Cushioned Vinyl	63	55	None	1-1/2 in. thick	1-1/2 in. thick mineral
				lightweight concrete	wool insulation
Cushioned Vinyl	51	44	None	None	1-1/2 in. thick mineral
					wool insulation
Carpet with Pad	62	57	None	1 in. thick Gypsum	1-1/2 in. thick mineral
				Concrete	wool insulation
Carpet with Pad	63	60	None	1-1/2 in. thick	1-1/2 in. thick mineral
				lightweight concrete	wool insulation
Carpet with Pad	51	46	None	None	1-1/2 in. thick mineral
					wool insulation
None	51	N/A	None	None	1-1/2 in. thick mineral
					wool insulation

Table 1 – STC and IIC Ratings

NOTE: The STC and IIC ratings are estimated by Swallow Acoustic Consultants Ltd. The ratings apply to assemblies with 19/32 in. thick floor sheathing or thicker.

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### PWL/SFSW 60-03 (2 OF 2)

# (in)

- 6. RESILIENT CHANNELS: Min. 0.019 in. thick galvanized steel resilient channels, attached perpendicular to joists using 1-5/8 in. long drywall screws. Resilient channels spaced 16 in. oc. Additional channels are required at gypsum board end joints so that each board is attached to a separate channel. These additional channels shall extend to the next joist on each side of the board end joint.
- 7. GYPSUM WALLBOARD: Min. 5/8 in. thick Type
  - C gypsum wallboard installed with long

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dimension perpendicular to resilient channels and fastened to each channel with min. 1-1/8 in. long Type S drywall screws. Fasteners spaced 7 in. oc and 1-1/2 in. from panel edges and ends. Edge joints shall be centered between joists. End joints shall be staggered one channel spacing.

8. FINISH SYSTEM: (Not Shown) Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.

Components	STC Rating	IIC Rating	Acoustic Mat	Floor Topping	Insulation Thickness	
Ceramic tile bonded	62	50	5 mm Recycled	1 in. thick Gypsum	1-1/2 in. thick mineral	
with thinset adhesive		50	Rubber Underlayment	Concrete	wool insulation	
Ceramic tile bonded	64	64	52	5 mm Recycled	1-1/2 in. thick	1-1/2 in. thick mineral
with thinset adhesive				Rubber Underlayment	lightweight concrete	wool insulation
Hardwood	62	53	2 mm Foam	1 in. thick Gypsum	1-1/2 in. thick mineral	
			Underlayment	Concrete	wool insulation	
Hardwood	64	54	2 mm Foam	1-1/2 in. thick	1-1/2 in. thick mineral	
			Underlayment	lightweight concrete	wool insulation	
Cushioned Vinyl	62	52	None	1 in. thick Gypsum	1-1/2 in. thick mineral	
				Concrete	wool insulation	
Cushioned Vinyl	64	55	None	1-1/2 in. thick	1-1/2 in. thick mineral	
				lightweight concrete	wool insulation	
Carpet with Pad	62	57	None	1 in. thick Gypsum	1-1/2 in. thick mineral	
				Concrete	wool insulation	
Carpet with Pad	64 6	60	60 None	1-1/2 in. thick	1-1/2 in. thick mineral	
		60		lightweight concrete	wool insulation	

Table 1 – STC and IIC Ratings

NOTE: The STC and IIC ratings are estimated by Swallow Acoustic Consultants Ltd. The ratings apply to assemblies with 19/32 in. thick floor sheathing or thicker.

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### PWL/SFSW 60-04 (2 OF 2)

# ín

with the joists. Clips nailed to the side of joist bottom flange with one 1-1/2 in. long No 11 GA nail. Additional channels are required at gypsum board end joints so that each board is attached to a separate channel. These additional channels shall extend to the next joist on each side of the board end joint.

6. GYPSUM WALLBOARD: Min. 1/2 in. thick Type C gypsum wallboard. Wallboard installed with long dimension perpendicular to furring channels and fastened to each channel with min. 1 in. long Type S drywall screws. Fasteners Division 06 – Wood, Plastics, and Composites 06 17 00 Shop Fabricated Structural Wood 06 17 33 Wood I-Joists

spaced 12 in. oc in the field of the wallboard, 6 in. oc at wallboard end joints, and 1-1/2 in. from panel edges and ends. Edge joints shall be centered between joists. End joints shall be staggered one channel spacing and offset from insulation joints by a min. of one channel spacing.

**7. FINISH SYSTEM:** (Not Shown) Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.

Components	STC Rating	IIC Rating	Acoustic Mat	Floor Topping	Insulation Thickness
Ceramic tile bonded	55	20	5 mm Recycled Rubber	1 in. thick Gypsum	1 in. thick mineral
with thinset adhesive		39	Underlayment	Concrete	wool insulation
Ceramic tile bonded	56	41	5 mm Recycled Rubber	1-1/2 in. thick	1 in. thick mineral
with thinset adhesive			Underlayment	lightweight concrete	wool insulation
Ceramic tile bonded	4.4	42	5 mm Recycled Rubber	None	1 in. thick mineral
with thinset adhesive	44	43	Underlayment		wool insulation
Hardwood		42	2 mm Foam	1 in. thick Gypsum	1 in. thick mineral
Haruwoou	55		Underlayment	Concrete	wool insulation
Llanduused	56	43	2 mm Foam	1-1/2 in. thick	1 in. thick mineral
Hardwood			Underlayment	lightweight concrete	wool insulation
Hardwood	44	44	2 mm Foam	None	1 in. thick mineral
			Underlayment		wool insulation
Cushioned Vinyl	55	42	None	1 in. thick Gypsum	1 in. thick mineral
				Concrete	wool insulation
Cushioned Vinyl	56	43	None	1-1/2 in. thick	1 in. thick mineral
				lightweight concrete	wool insulation
Cushioned Vinyl	44	43	None	None	1 in. thick mineral
					wool insulation
Carpet with Pad	55	48	None	1 in. thick Gypsum	1 in. thick mineral
				Concrete	wool insulation
Carpet with Pad	56	50	None	1-1/2 in. thick	1 in. thick mineral
				lightweight concrete	wool insulation
Carpet with Pad	44	44	None	None	1 in. thick mineral
					wool insulation

Table 1 – STC and IIC Ratings

NOTE: The STC and IIC ratings are estimated by Swallow Acoustic Consultants Ltd.

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### PWL/SFSW 60-05 (2 OF 2)

# (in)

of 36 lbs. (refer to the PAC International Inc. product specifications for recommended clip spacing). The metal "L" bracket must be tight to the framing member. Locate the first row of RSIC-1 EXT04 clips within 8 in. of the wall at each end of a run. Snap in the furring channel into the RSIC-1 clip at right angles (perpendicular or parallel).

6. GYPSUM WALLBOARD: Min. 5/8 in. thick Type C gypsum wallboard. Wallboard installed with long dimension perpendicular to furring channels and fastened to each channel with Division 06 – Wood, Plastics, and Composites 06 17 00 Shop Fabricated Structural Wood 06 17 33 Wood I-Joists

min. 1 in. long Type S drywall screws. Fasteners spaced 12 in. oc in the field of the wallboard, 6 in. oc at wallboard end joints, and 1-1/2 in. from panel edges and ends. Edge joints shall be centered between joists. End joints shall be staggered one channel spacing and offset from insulation joints by a min. of one channel spacing.

**7. FINISH SYSTEM:** (Not Shown) Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.

Components	STC Rating	IIC Rating	Acoustic Mat	Floor Topping	Insulation Thickness
Ceramic Tile bonded	59	F 4	5 mm recycled	1 in. Gypsum	1.5 in. Mineral wool
with thinset adhesive		51	rubber underlayment	Concrete	insulation
Ceramic Tile bonded with thinset adhesive	60	54	5 mm recycled rubber underlayment	1-1/2 in. Lightweight Concrete	1.5 in. Mineral wool insulation
Ceramic Tile bonded with thinset adhesive	56	51	5 mm recycled rubber underlayment	None	1.5 in. Mineral wool insulation
Hardwood	59	54	2 mm foam underlayment	1 in. Gypsum Concrete	1.5 in. Mineral wool insulation
Hardwood	60	56	2 mm foam underlayment	1-1/2 in. Lightweight Concrete	1.5 in. Mineral wool insulation
Hardwood	56	48	2 mm foam underlayment	None	1.5 in. Mineral wool insulation
Cushioned Vinyl	59	53	None	1 in. Gypsum Concrete	1.5 in. Mineral wool insulation
Cushioned Vinyl	60	56	None	1-1/2 in. Lightweight Concrete	1.5 in. Mineral wool insulation
Cushioned Vinyl	56	47	None	None	1.5 in. Mineral wool insulation
Carpet with pad	59	58	None	1 in. Gypsum Concrete	1.5 in. Mineral wool insulation
Carpet with pad	60	61	None	1-1/2 in. Lightweight Concrete	1.5 in. Mineral wool insulation
Carpet with pad	56	49	None	None	1.5 in. Mineral wool insulation

Table 1 – STC and IIC Ratings

NOTE: The STC and IIC ratings are estimated by Swallow Acoustic Consultants Ltd.

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#### PWL/SFSW 90-01 (2 OF 2)

# in

- GYPSUM WALLBOARD: Two layers of min. 5/8 in. thick Type C gypsum wallboard as follows:
  - 6a. WALLBOARD BASE LAYER Base layer of wallboard attached to resilient channels using 1-1/4 in. Type S drywall screws at 12 in. oc. Edge joints shall be centered between joists. End joints shall be staggered one channel spacing.
  - 6b. WALLBOARD FACE LAYER Face layer of wallboard attached to resilient channels through base layer using 1-5/8 in. Type S drywall screws spaced 12 in. oc, 6 in. oc at

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wallboard end joints, and 1-1/2 in. from panel edges and ends. Edge joints of wallboard face layer offset a distance equal to one joist spacing from those of base layer. End joints shall be offset from base layer joints by a min. of one channel spacing. Additionally, wallboard face layer attached to base layer with 1-1/2 in. Type G drywall screws spaced 8 in. oc, placed 1-1/2 in. from face layer end joints.

**7. FINISH SYSTEM:** (Not Shown) Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.

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# **PWL-SFSW 120-01**



### PWL-SFSW 120-01 (2 OF 2)

# in

- 6. GYPSUM WALLBOARD: Three layers of min. 5/8 in. Type C gypsum wallboard as follows:
  - 6a. WALLBOARD BASE LAYER Base layer of wallboard installed perpendicular to the joists and directly attached to the bottom flange using 1-5/8 in. Type S drywall screws at 12 in. oc. End joints of wallboard centered on bottom flange and staggered a min. of one joist spacing.
  - 6b. WALLBOARD MIDDLE LAYER Middle layer of wallboard attached to furring channels using 1 in. Type S drywall screws spaced 12 in. oc, with the long dimension of wallboard perpendicular to furring channels. Edge joints shall be centered on the joists and offset a min. of one joist space from base layer end joints. End joints staggered a min. of one channel

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spacing and offset from the edge joints in the base layer a min. of one channel spacing.

- 6c. WALLBOARD FACE LAYER Face layer of wallboard attached to channels through middle layer using 1-5/8 in. Type S drywall screws spaced 8 in. oc. Edge joints of face layer of wallboard shall be centered on the joists and offset a min. distance equal to the joist spacing from those of middle layer. End joints of face layer of wallboard staggered a min. of one channel spacing with respect to the middle layer end joint and base layer edge joint.
- **7. FINISH SYSTEM:** (Not Shown) Face layer joints covered with tape and coated with joint compound. Screw heads covered with joint compound.

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