



R O S E B U R G

INTRODUCING

RFPI® 40S and 60S

Solid Sawn I-Joist

Improving

on nature's design.

quality engineered wood products for today's builder®

Why You Should Use RFPI® Joists

- ✓ Environmentally friendly products
- ✓ Manufactured to the industry's highest standards
- ✓ Product & Performance Warranty
- ✓ No "up-charge" for longer lengths
- ✓ To save time and money
- ✓ RFPI® Joists are consistent, straight and true
- ✓ RFPI® Joists provide a better target for nailing... fewer shiners
- ✓ Floors are more level, stiffer and truer... eliminates squeaks
- ✓ Allows you to build open floor plans
- ✓ Run HVAC & plumbing through the webs of RFPI® Joists, when needed
- ✓ To build a higher-quality home

Design Properties for RFPI® 40S and 60S Series I-Joist

Joist Series	Depth (inches)	EI Bending Stiffness (x10 ⁶ lb-in ²)	M Allowable Moment (lb-ft)	V Allowable Shear (lb)	IR Allowable Inter. Reaction (lb)	ER Allowable End Reaction (lb)	Weight (plf)
RFPI 40S	9-1/2"	193	2,735	1,120	2,160	1,080	2.52
	11-7/8"	330	3,545	1,420	2,500	1,200	2.79
	14"	482	4,270	1,710	2,500	1,200	3.03
	16"	657	4,950	1,970	2,500	1,200	3.26
RFPI 60S	9-1/2"	231	3,780	1,120	2,160	1,080	2.52
	11-7/8"	396	4,900	1,420	2,500	1,200	2.79
	14"	584	5,895	1,710	2,500	1,200	3.03
	16"	799	6,835	1,970	2,500	1,200	3.26

Allowable Floor Clear Spans - 40 PSF Live Load + 10 PSF Dead Load

Joist Series	Depth (inches)	SIMPLE SPAN				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.
RFPI 40S	9-1/2"	18'-0"	16'-5"	15'-6"	14'-6"	19'-7"	17'-11"	16'-4"	14'-7"
	11-7/8"	21'-5"	19'-7"	18'-6"	16'-8"	23'-5"	20'-5"	18'-7"	16'-7"
	14"	24'-4"	22'-3"	20'-6"	18'-4"	25'-11"	22'-5"	20'-5"	18'-3"
	16"	26'-11"	24'-3"	22'-1"	19'-9"	27'-11"	24'-2"	22'-0"	19'-8"
RFPI 60S	9-1/2"	18'-11"	17'-4"	16'-4"	15'-3"	20'-8"	18'-10"	17'-9"	16'-6"
	11-7/8"	22'-7"	20'-8"	19'-6"	18'-2"	24'-8"	22'-6"	21'-2"	19'-7"
	14"	25'-9"	23'-6"	22'-2"	20'-8"	28'-0"	25'-7"	24'-1"	19'-9"
	16"	28'-6"	26'-0"	24'-7"	22'-10"	31'-1"	28'-4"	24'-9"	19'-9"

Spans are based on:

- Uniform loads
- Glued-nailed sheathing
- L/480 live load and L/240 total load deflection criteria
- Clear span distances between supports

Hole Chart

Joist Series	Depth (inches)	Round Hole Diameter (in.)														
		2	3	4	5	6	6 1/4	7	8	8 5/8	9	10	10 3/4	11	12	12 3/4
		Minimum Distance from Inside Face of Any Support to Center of Hole (ft-in.)														
RFPI 40S	9-1/2"	1'-2"	2'-2"	3'-3"	4'-4"	5'-9"	6'-3"									
	11-7/8"	0'-7"	0'-10"	1'-10"	2'-11"	4'-0"	4'-4"	5'-2"	6'-8"	7'-11"						
	14"	0'-7"	0'-8"	0'-8"	1'-4"	2'-5"	2'-8"	3'-6"	4'-7"	5'-5"	6'-0"	7'-7"	9'-4"			
	16"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	1'-5"	2'-9"	3'-7"	4'-1"	5'-6"	6'-7"	7'-0"	8'-9"	10'-9"
RFPI 60S	9-1/2"	2'-0"	3'-3"	4'-8"	6'-1"	7'-7"	8'-0"									
	11-7/8"	0'-8"	1'-10"	3'-2"	4'-5"	5'-10"	6'-2"	7'-4"	8'-11"	10'-1"						
	14"	0'-7"	0'-8"	0'-8"	1'-8"	3'-2"	3'-6"	4'-9"	6'-6"	7'-8"	8'-4"	10'-4"	12'-2"			
	16"	0'-7"	0'-8"	0'-8"	0'-9"	0'-9"	0'-10"	1'-10"	3'-6"	4'-6"	5'-2"	7'-3"	8'-11"	9'-6"	11'-10"	13'-9"

Notes:

- Distances in this hole chart are conservatively based on uniformly loaded joists and the maximum allowed single or multi-span applications with 40 live/10 dead or 40 live/20 dead at on-center spacings of 12", 16", 19.2" or 24". **Holes that fall outside of these hole chart guidelines may still be acceptable based on actual span and loading conditions.** The most accurate method of determining the acceptability of a given hole is the use of appropriate software (e.g. RFP-KeyBeam® by Keymark Enterprises, LLC) or engineering analysis for the actual condition.
- For continuous joists with more than one span, use the longest span to determine hole location in either span.
- The sides of square holes or longest sides of rectangular holes should not exceed three fourths of the diameter of the maximum round hole permitted at that location.

Web Stiffener & Filler Information*

Web Stiffener - 1" x 2-5/16" (min.)

Backer Block - 1-1/8" thick.

Maximum backer block load capacity using 16-10d com nails = 1248 lbs

Double I-Joist Filler Block - 2-1/8" thick (min.)

*See Roseburg's Engineered Wood Products (EWP) Design Guide for framing details

RFPI® 40S and 60S I-Joist Framing Connectors

Face Mount Hangers		Fastener Schedule		Allowable Load (lbs.)		Uplift (lbs.)	
		Header	Joist	Header Material			
				DF/SP	SPF		
				100%	100%		133%
Joist Size	Model						
SIMPSON	2-1/2 x 9-1/2	IUS2.56/9.5	8-10d	-	935	810	75
		MIU2.56/9	16-16d	2-10d x 1-1/2	2270	1970	230
	2-1/2 x 11-7/8	IUS2.56/11.88	10-10d	-	1170	1010	75
		MIU2.56/11	20-16d	2-10d x 1-1/2	2840	2460	230
	2-1/2 x 14	IUS2.56/14	12-10d	-	1405	1210	75
		MIU2.56/14	22-16d	2-10d x 1-1/2	3125	2705	230
2-1/2 x 16	IUS2.56/16	14-10d	-	1640	1415	75	
	MIU2.56/16	24-16d	2-10d x 1-1/2	3410	2950	230	

USP	2-1/2 x 9-1/2	THF25925	12-10d	2-10d	1370	1175	175
	2-1/2 x 11-7/8	THF25112	14-10d	2-10d	1595	1370	300
	2-1/2 x 14	THF25140	18-10d	2-10d	2090	1800	300
	2-1/2 x 16	THF25160	22-10d	2-10d	2550	2200	300

Face Mount Double Hangers

SIMPSON	5 x 9-1/2	MIU5.12/9	16-16d	2-10d x 1-1/2	2270	1970	230
		HU310-2 ^a	14-16d	6-10d	1875	1625	905
	5 x 11-7/8	MIU5.12/11	20-16d	2-10d x 1-1/2	2840	2460	230
		HU312-2 ^a	16-16d	6-10d	2145	1855	905
	5 x 14	MIU5.12/14	22-16d	2-10d x 1-1/2	3125	2705	230
		MIU5.12/16	24-16d	2-10d x 1-1/2	3410	2950	230

USP	5 x 9-1/2	THF25925-2 ^a	12-10d	6-10d	1390	1200	930
	5 x 11-7/8	THF25112-2 ^a	16-10d	6-10d	1855	1600	930
	5 x 14	THF25140-2 ^a	20-10d	6-10d	2500	2180	1000
	5 x 16	THF25160-2 ^a	24-10d	6-10d	3000	2615	1000

^a Indicates hangers that require web stiffeners at joist ends.

Slope/Skew Hangers

		Fasteners		Allowable Load (lbs.)				
				Header Material				
				DF/SP		SPF		
		Joist Width	Model	Header	Joist	Floor 100%	Uplift 133%	Floor 100%
SIMPSON	Sloped Only Hangers							
	2-1/2	LSSUH310	18-16d	12-10d x 1-1/2	2295	1150	1930	990
	5	LSU5.12	24-16d	16-10d x 1-1/2	3215	885	2785	760
	Skewed Only or Sloped and Skewed Hangers							
	2-1/2	LSSUH310	14-16d	12-10d x 1-1/2	1600	1150	1385	990
	5	LSU5.12	24-16d	16-10d x 1-1/2	1790	885	1550	760
USP	Sloped Only Hangers							
	2-1/2	LSSH25	18-16d	12-10d x 1-1/2	2485	1195	2140	1195
	Skewed Only or Sloped and Skewed Hangers							
	2-1/2	LSSH25	14-16d	12-10d x 1-1/2	1825	1195	1665	1195

Top Mount Hangers		Dim.	Fastener Schedule		Allowable Load (lbs.)			Uplift (lbs.)	
			Hanger Top Flange Depth (in.)	Solid Header	Joist	Header Material			
						DF/SP I-Joist	DF/SP		SPF
						100%	100%		133%
Joist Size	Model								
SIMPSON	2-1/2 x 9-1/2	ITS2.56/9.5	1-7/16	6-10d	-	920	1520	1150	105
		LBV2.56/9.5	2-1/2	10-16d	2-10d x 1-1/2	1270	2460	2060	265
	2-1/2 x 11-7/8	ITS2.56/11.88	1-7/16	6-10d	-	920	1520	1150	105
		LBV2.56/11.88	2-1/2	10-16d	2-10d x 1-1/2	1270	2460	2060	265
	2-1/2 x 14	ITS2.56/14	1-7/16	6-10d	-	920	1520	1150	105
		LBV2.56/14	2-1/2	10-16d	2-10d x 1-1/2	1270	2460	2060	265
2-1/2 x 16	ITT316	1-3/8	6-10d	2-10d x 1-1/2	890	1465	1200	235	
	LBV2.56/16	2-1/2	10-16d	2-10d x 1-1/2	1270	2460	2060	265	

USP	2-1/2 x 9-1/2	TFL2595	1-1/2	6-10d	2-10d x 1-1/2	1245 ^b	1600	1230	300
		THO25950	1-15/16	10-10d	2-10d x 1-1/2	1625 ^b	1625	1625	300
	2-1/2 x 11-7/8	TFL25118	1-1/2	6-10d	2-10d x 1-1/2	1245 ^b	1600	1230	300
		THO25118	1-15/16	10-10d	2-10d x 1-1/2	1835 ^b	1835	1835	300
	2-1/2 x 14	TFL2514	1-1/2	6-10d	2-10d x 1-1/2	1245 ^b	1600	1230	300
		TFI314	2	6-16d	2-10d x 1-1/2	-	2560	1660	300
2-1/2 x 16	TFL2516	1-1/2	6-10d	2-10d x 1-1/2	1245 ^b	1600	1230	300	
	TFI316	2	6-16d	2-10d x 1-1/2	-	2560	1660	300	

Top Mount Double Hangers

SIMPSON	5 x 9-1/2	MIT39.5-2	2-5/16	8-16d	2-10d x 1-1/2	1045	2305	1665	215
		LBV5.12/9.5	2-1/2	10-16d	2-10d x 1-1/2	1270	2460	2060	265
	5 x 11-7/8	MIT311.88-2	2-5/16	8-16d	2-10d x 1-1/2	1045	2305	1665	215
		LBV5.12/11.88	2-1/2	10-16d	2-10d x 1-1/2	1270	2460	2060	265
	5 x 14	MIT314-2	2-5/16	8-16d	2-10d x 1-1/2	1045	2305	1665	215
		LBV5.12/14	2-1/2	10-16d	2-10d x 1-1/2	1270	2460	2060	265
5 x 16	MIT5.12/16	2-5/16	8-16d	2-10d x 1-1/2	1045	2305	1665	215	
	LBV5.12/16	2-1/2	10-16d	2-10d x 1-1/2	1270	2460	2060	265	

USP	5 x 9-1/2	THO25950-2 ^a	2-1/8	10-16d	6-10d	2630 ^b	3665	3000	1015
		PHM2595-2 ^a	3	2-16d	2-10d	-	3255	3255	-
	5 x 11-7/8	THO25118-2 ^a	2-1/8	10-16d	6-10d	2630 ^b	3665	3000	1015
		PHM25118-2 ^a	3	2-16d	2-10d	-	3255	3255	-
	5 x 14	THO25140-2 ^a	2-1/8	12-16d	6-10d	2630 ^b	4450	3300	1015
		PHM2514-2 ^a	3	2-16d	2-10d	-	3255	3255	-
5 x 16	THO25160-2 ^a	2-1/8	12-16d	6-10d	2630 ^b	4450	3300	1015	
	PHM2516-2 ^a	3	2-16d	2-10d	-	3255	3255	-	

^a Indicates hangers that require web stiffeners at joist ends.

^b When I-Joists with flanges less than 1-1/2" thick are used as headers, the published capacity shall be reduced. Contact USP for additional information.

Adjustable Pitch Connectors

		Fasteners		Allowable Load (lbs.)		Uplift (lbs.)				
				Header Material						
				DF/SP		SPF		DF/SP		SPF
		100%	100%	133%	160%	133%	160%			
Joist Width	Model	Plate	Joist							
Simpson	2-1/2	VPA3	9-10d	2-10d x 1-1/2	1230	1020	245	295	210	250
USP	2-1/2	TMP25	6-10d	4-10d x 1-1/2	1970	1970	220	220	220	220

General Notes:

1. Loads listed are the lowest hanger/header/fastener limitations based on the header material listed in the tables. Joist reaction should be checked by a qualified designer to ensure proper hanger selection.
2. See current version of hanger manufacturer's full line catalog for additional notes, installation and detail information not shown, and for potential load increases based on higher duration of load applications.
3. All nails shown are common nails unless otherwise noted.

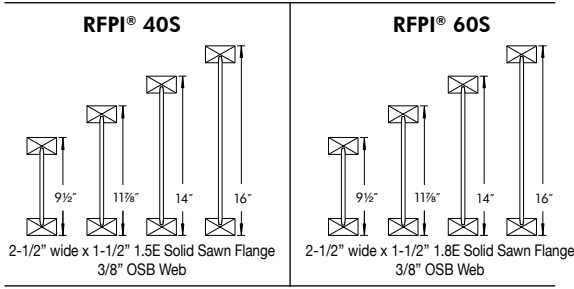
Hanger information

Hanger guides specific to the Roseburg EWP product line are available from both Simpson Strong-Tie® and USP Structural Connectors® and can be downloaded from the Roseburg website at www.roseburg.com. The hanger guides can also be found at the websites of the hanger manufacturers (www.strongtie.com or www.USPconnectors.com).

The Roseburg Framing System®

The Roseburg Framing System® consists of: RFPI® Joists used in floor and roof construction; RigidLam® LVL which is used for headers, beams, columns, studs and stair stringers; and RigidRim® Rim Board. All of the components are engineered to the industry's highest standards to help contractors build solid, durable, and better performing framing systems compared to ordinary dimension lumber.

SOLID SAWN FLANGE RFPI® JOISTS

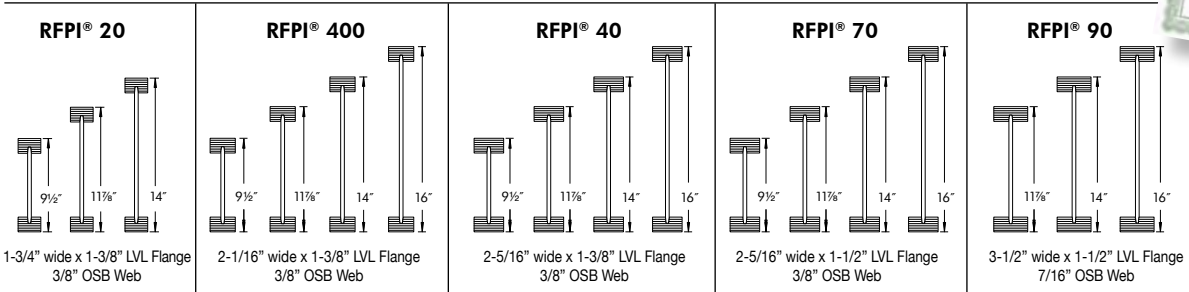


RIGIDRIM® RIM BOARD DESIGN PROPERTIES

	Thickness	Vertical Load (PLF)	Horizontal Load (PLF)	Post Load (Pounds)	Lag Screw (1/2") (Pounds)
OSB Rim Board	1-1/8"	4400	180 (8d box or common)	3500	350
OSB Rim Board Plus	1-1/8"	4850	200 (8d box or common)	3500	350
OSB Rim Board Seismic	1-1/4"	5700	240 (8d common)	5900	400
1.3E LVL Rim Board	1-1/2"	4900	215 (8d box or common)	-	400



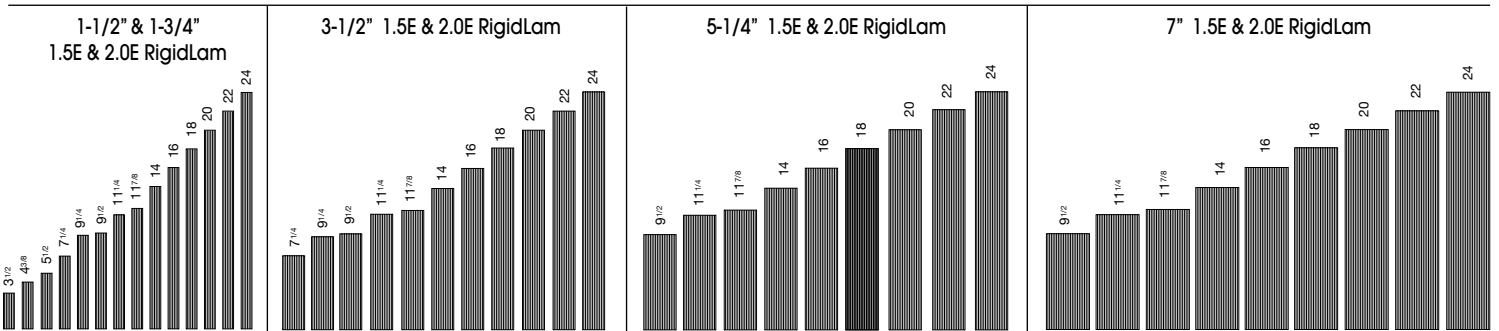
LVL FLANGE RFPI® JOISTS



RFPI® JOIST ALLOWABLE SPANS - 40 PSF LIVE LOAD AND 10 PSF DEAD LOAD

Joist Depth	Joist Series	40/10 SIMPLE SPAN				40/10 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.
9-1/2"	RFPI® 20	17' - 2"	15' - 9"	14' - 10"	13' - 10"	18' - 9"	17' - 1"	16' - 2"	13' - 5"
	RFPI® 40S	18' - 0"	16' - 5"	15' - 6"	14' - 6"	19' - 7"	17' - 11"	16' - 4"	14' - 7"
	RFPI® 40	18' - 0"	16' - 5"	15' - 6"	14' - 6"	19' - 7"	17' - 10"	16' - 10"	15' - 9"
	RFPI® 40	18' - 7"	16' - 11"	16' - 0"	14' - 11"	20' - 2"	18' - 5"	17' - 5"	16' - 2"
	RFPI® 60S	18' - 11"	17' - 4"	16' - 4"	15' - 3"	20' - 8"	18' - 10"	17' - 9"	16' - 6"
11-7/8"	RFPI® 70	19' - 9"	18' - 0"	17' - 0"	15' - 10"	21' - 6"	19' - 7"	18' - 5"	17' - 2"
	RFPI® 20	20' - 6"	18' - 9"	17' - 9"	16' - 5"	22' - 4"	20' - 2"	16' - 9"	13' - 5"
	RFPI® 40S	21' - 5"	19' - 7"	18' - 6"	16' - 8"	23' - 5"	20' - 5"	18' - 7"	16' - 7"
	RFPI® 400	21' - 5"	19' - 7"	18' - 6"	17' - 3"	23' - 4"	21' - 4"	20' - 1"	17' - 9"
	RFPI® 40	22' - 1"	20' - 2"	19' - 0"	17' - 9"	24' - 1"	22' - 0"	20' - 8"	19' - 3"
16"	RFPI® 60S	22' - 7"	20' - 8"	19' - 6"	18' - 2"	24' - 8"	22' - 6"	21' - 2"	19' - 7"
	RFPI® 70	23' - 7"	21' - 6"	20' - 3"	18' - 10"	25' - 8"	23' - 5"	22' - 0"	18' - 6"
	RFPI® 90	26' - 6"	24' - 1"	22' - 8"	21' - 1"	28' - 10"	26' - 3"	24' - 8"	22' - 11"
	RFPI® 40S	26' - 11"	24' - 3"	22' - 1"	19' - 9"	27' - 11"	24' - 2"	22' - 0"	19' - 8"
	RFPI® 400	27' - 0"	24' - 8"	23' - 4"	20' - 10"	29' - 6"	26' - 4"	22' - 3"	17' - 9"
14"	RFPI® 40	27' - 10"	25' - 5"	24' - 0"	22' - 4"	30' - 4"	27' - 8"	24' - 9"	19' - 9"
	RFPI® 60S	28' - 6"	26' - 0"	24' - 7"	22' - 11"	31' - 1"	28' - 4"	24' - 9"	19' - 9"
	RFPI® 70	29' - 9"	27' - 1"	25' - 6"	23' - 1"	32' - 5"	27' - 10"	23' - 2"	18' - 6"
	RFPI® 90	33' - 4"	30' - 4"	28' - 7"	26' - 7"	36' - 5"	33' - 1"	31' - 1"	26' - 7"
	RFPI® 20	23' - 4"	21' - 4"	20' - 2"	18' - 6"	25' - 5"	22' - 7"	20' - 7"	16' - 7"

AVAILABLE RIGIDLAM® LVL SIZES



Not all sizes available in all markets. Contact your Roseburg representative for availability. The location and contact information for your regional EWP representative can be found on our company website www.roseburg.com or by calling (800) 347-7260.

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10599 Old Hwy 99 South | Dillard Oregon 97432
tel 800-347-7260 | fax 541-679-2612
web www.Roseburg.com | email ewpsales@rfpco.com