

ROSEBURG BUILDER'S GUIDE

RFPI® JOISTS



It just makes sense to switch to the Roseburg Framing System®.


ROSEBURG

Why you should choose The Roseburg Framing System®

Available when and where you need it through local building material dealers.

Product manufactured to the industry's highest standards.

Complete engineered wood products package from one manufacturer ensures consistent quality.

We are conscientious stewards of our natural resources and environment

Product approved by local, state and regional building code authorities



The Roseburg Framing System® - which consists of RFPI® Joists, RigidLam® LVL headers, beams and columns and RigidRim® Rimboard - is manufactured by Roseburg Forest Products, one of the nation's largest engineered wood products producers. All components are engineered to the industry's highest standards and have been approved by local, state and regional building code authorities.

The Roseburg Framing System® is available nationwide through local building material suppliers that are supported by the strength of Roseburg and its wholesale distributors and pro yards. Together, they create a supply channel that will deliver product when and where you need it and provide training, technical expertise and support when it counts. They can also streamline the building process by helping ensure installation is correct, costs are managed properly and your projects stay on schedule.

WHY RESIDENTIAL BUILDERS CHOOSE ROSEBURG ENGINEERED WOOD PRODUCTS

To Save Time and Money

- ▶ No need to sort through a pile of lumber, determining crown or cutting up culls.
- ▶ RFPI® Joists are consistent, straight and true.
- ▶ RFPI® Joists stand up on the sill plate during construction.
- ▶ RFPI® Joists provide a better target for nailing.
- ▶ Framers can carry longer lengths because they are 1/3 lighter than dimension lumber.
- ▶ Framers will frame faster because they handle fewer pieces and the longer lengths do not need to be lapped.
- ▶ No "up-charge" for longer lengths.
- ▶ Save money on your construction loan (less interest) due to increased framing speed.
- ▶ Reduced job site theft because long length RFPI® Joists are less likely to disappear.

To Build a Higher-Quality Home

- ▶ Floors are more level, stiffer and truer.
- ▶ Floors are quieter and you will "hear" fewer complaints from the homeowner.
- ▶ Framing crews can not make the mistake of installing RFPI® Joists upside down.
- ▶ Fewer shiners.
- ▶ Build more modern open floor plans.
- ▶ Run HVAC & plumbing through the webs of RFPI® Joists, when needed.
- ▶ Your suppliers can confirm the optimum RFPI® Joist layout with design software.

To Meet Customer Expectations

- ▶ Customers demand quiet and level floors.
- ▶ They want open floor plans.



- ▶ Customers want to feel confident and secure about their home. They know RFPI® Joists are a proven floor joist system.
- ▶ Today's customers strongly support using environmentally friendly products, i.e. "green" products, in their home. They like the idea that RFPI® Joists conserve our forests (they use up to 50% less wood than dimension lumber).
- ▶ They will acknowledge you as a homebuilder staying current with technology.
- ▶ Customers have seen other homebuilders already using RFPI® Joists and promoting their benefits.

RFPI® JOIST SUBSTITUTION GUIDE FOR SOLID-SAWN LUMBER⁽¹⁾

2x10 No. 2 Solid-Sawn

Live Load Deflection = L/360

Species	Maximum Simple Span @16" o.c. ⁽²⁾	Simple Span			Multiple Span		
		9-1/2" RFPI Joist			9-1/2" RFPI Joist		
		Live Load Deflection = L/480			Live Load Deflection = L/480		
		16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Spruce-Pine-Fir	15'-5"	RFPI 400/40	RFPI 400/40	RFPI 70	RFPI 20	RFPI 20	RFPI 400/50
Spruce-Pine-Fir (South)	14'-6"	RFPI 20	RFPI 400/40	RFPI 400/40	RFPI 20	RFPI 20	RFPI 400/40
Hem-Fir	15'-2"	RFPI 20	RFPI 400/40	RFPI 70	RFPI 20	RFPI 20	RFPI 400/50
Douglas Fir-Larch	15'-7"	RFPI 400/40	RFPI 70	-	RFPI 20	RFPI 20	RFPI 400/50
Southern Pine	16'-1"	RFPI 400/40	RFPI 70	-	RFPI 20	RFPI 400/40	RFPI 70

2x12 No. 2 Solid-Sawn

Live Load Deflection = L/360

Species	Maximum Simple Span @16" o.c. ⁽²⁾	Simple Span			Multiple Span		
		11-7/8" RFPI Joist			11-7/8" RFPI Joist		
		Live Load Deflection = L/480			Live Load Deflection = L/480		
		16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.
Spruce-Pine-Fir	17'-10"	RFPI 20	RFPI 400/40	RFPI 70	RFPI 20	RFPI 400/40	RFPI 70
Spruce-Pine-Fir (South)	16'-10"	RFPI 20	RFPI 20	RFPI 400	RFPI 20	RFPI 400/40	RFPI 400
Hem-Fir	17'-7"	RFPI 20	RFPI 400/40	RFPI 70	RFPI 20	RFPI 400/40	RFPI 400
Douglas Fir-Larch	18'-1"	RFPI 20	RFPI 400/40	RFPI 70	RFPI 20	RFPI 400/40	RFPI 70
Southern Pine	18'-10"	RFPI 400/40	RFPI 70	RFPI 90	RFPI 20	RFPI 400	RFPI 90

(1) Comparison chart based on uniform loads (Live load = 40 psf, Dead load = 10 psf).

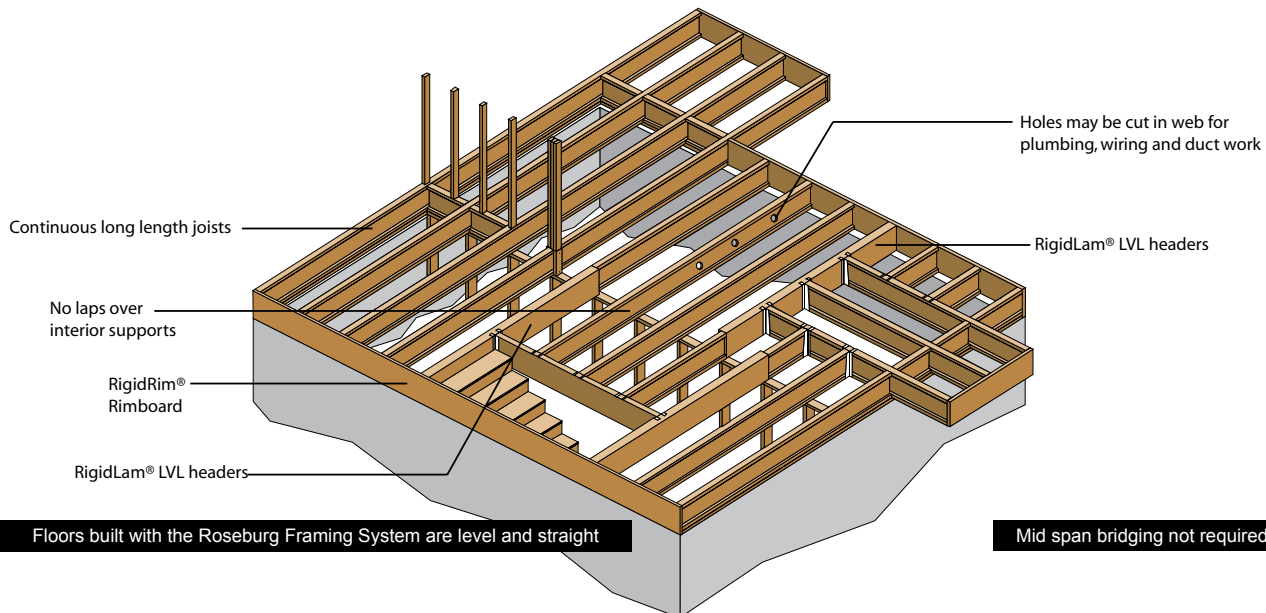
(2) Spans taken from 2002 Western Lumber Use Manual, Southern Pine Use Guide, or 2003 IRC.

Follow these simple steps to see which RFPI® Joist is right for your application

- Find the size and species that you currently use.
- Determine whether you want to use a Simple Span or Multiple Span. RFPI® Joists come in longer lengths and multiple spans are faster to install.
- Determine the on-center spacing you want to use. Larger on-center spacings produce more economical floor systems.
- To more precisely size an RFPI Joist, use the span charts in the Roseburg EWP Design Guide, or the KeyBeam software available on the Roseburg website at www.roseburg.com

The RFPI® Joist series shown can be used to replace the dimension lumber you currently use. Substituting RFPI® Joists for solid-sawn will result in a 33% stiffer floor.

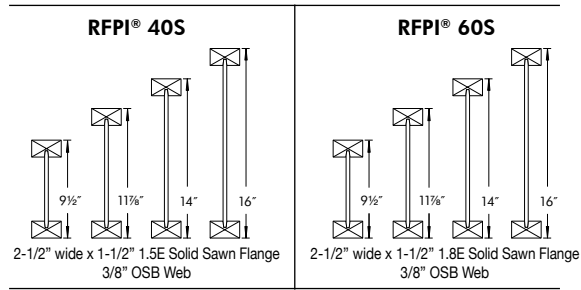
TYPICAL RFPI® JOIST FLOOR FRAMING APPLICATION



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

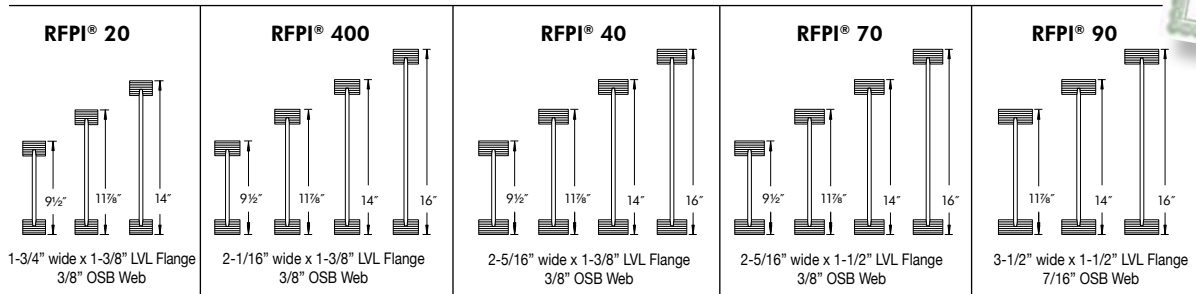


RIGIDRIM® RIM BOARD DESIGN PROPERTIES

	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

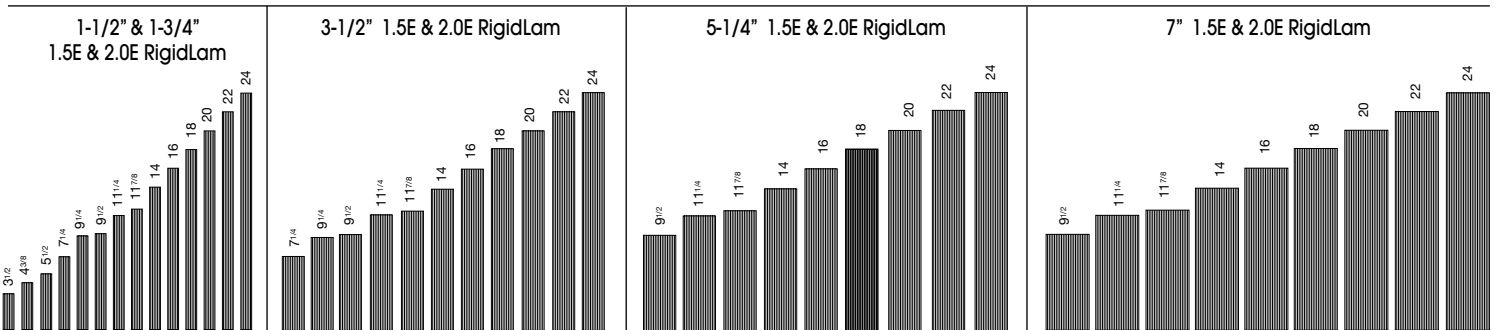


RFPI® JOIST ALLOWABLE SPANS - 40 PSF LIVE LOAD AND 10 PSF DEAD LOAD

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® 400	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"
11-7/8"	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"

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.
14"	RFPI® 20	23' - 4"	21' - 4"	20' - 2"	18' - 6"	25' - 5"	22' - 7"	20' - 7"	16' - 7"
	RFPI® 40S	24' - 4"	22' - 3"	20' - 6"	18' - 4"	25' - 11"	22' - 5"	20' - 5"	18' - 3"
	RFPI® 400	24' - 4"	22' - 3"	21' - 0"	19' - 7"	26' - 7"	24' - 3"	22' - 3"	17' - 9"
	RFPI® 40	25' - 2"	22' - 11"	21' - 8"	20' - 2"	27' - 5"	25' - 0"	23' - 7"	19' - 9"
	RFPI® 60S	25' - 9"	23' - 6"	22' - 2"	20' - 8"	28' - 0"	25' - 7"	24' - 1"	19' - 9"
16"	RFPI® 70	26' - 10"	24' - 5"	23' - 0"	21' - 5"	29' - 3"	26' - 7"	23' - 2"	18' - 6"
	RFPI® 90	30' - 1"	27' - 5"	25' - 9"	23' - 11"	32' - 10"	29' - 10"	28' - 1"	26' - 0"
	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"
	RFPI® 40	27' - 10"	25' - 5"	24' - 0"	22' - 4"	30' - 4"	27' - 8"	24' - 9"	19' - 9"
16"	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"

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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