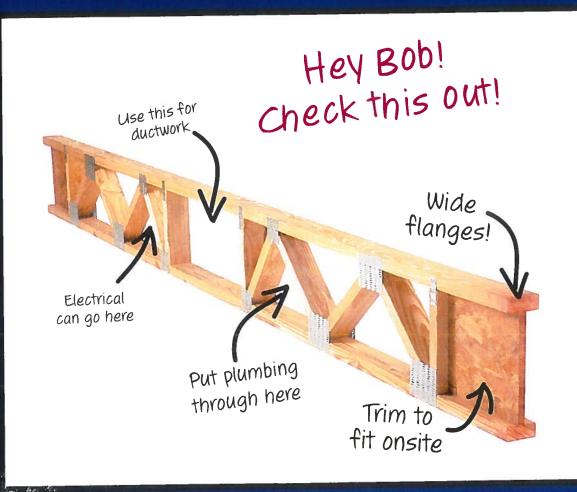
TrimJoist



If Bob tries TrimJoist, he'll find out why TrimJoist is the best choice for floor truss products.

IT'S CONTRACTOR-FRIENDLY.

The end sections can be trimmed onsite.

IT SAVES MONEY AND TIME.

With strut-webbing, there's no need for subcontractors to cut holes.

IT'S STRONGER.

You don't weaken the joist with holes.

IT HAS WIDE FLANGES.

With 3.5-inch flanges on the top and bottom, subfloor application is simple. Nailing and gluing are easier.

IT COMES WITH A TEAM OF ENGINEERS.

Just call our toll-free number for custom engineering.



ENGINEERED WOOD PRODUCTS
1 800 844-8281

www.trimjoist.com

SCANNED

U.S. Patent 5,761,872 • U.S. Patent 6,139,667 • Additional Patents Pending

The uniform foad span charts below indicate the maximum design spans (including a 1½" minimum bearing at each end) for each family of *Trim*Joist floor joists. Each chart is divided into columns which represent common design loadings and rows which show typical spacings. Most residential designs require a minimum of 55 psf loading. Floors used for heavy traffic and/or heavy floor coverings (e.g. Tile) should be designed at 60 psf minimum. All loads are broken down into *Live*, *Top-dead* and *Bottom-dead* components. For example, the 55 psf column is really 40 psf live plus 10 psf top-dead plus 5 psf bottom-dead for a total of 55 psf. Dead loads are the weight of construction materials and are always present for the whole life of the structure. Live loads, on the other hand, are transient and are never constant over the life of the structure. Select the appropriate column based on the *dead* loads of your construction materials. These charts are for *uniformly loaded*, *clear span*, *simply supported* joists. For special applications requiring concentrated loads, asymmetric continuous loads, cantilevers, or special bearing conditions please consult a *Trim*Joist representative or authorized dealer. The TPDS computer program can be used to analyze almost any loading and/or bearing condition.

Deep	Lo	ading	55 PSF (4	0/10/5)	60 PSF (4	0/10/10)
11 1/" D	-	12	24'- 0"	L/589	24'- 0"	L/589
	Spacing	16	23' - 1"	L/455	23' - 1"	L/455
		19.2	21' - 9"	L/454	21'- 9"	L/454
		24	20' - 5"	L/461	20' - 0"	L/465

eeb	Lo	ading	55 PSF (40/10/5)	60 PSF (40/10/10)		
16" D	-	12	28'- 0" L/731	28'- 0" L/731		
	pacing	16	28'- 0" L/549	28'- 0" L/549		
		19.2	28'- 0" L/458	27' - 5" L/486		
	U2	24	26'- 0" L/456	26'- 0" L/456		

eep	Spacing	12	26'-	0"	L/688	26'-	0"	L/688
		16	26'-	0"	L/515	26'-	0"	L/515
7		19.2	25'-	7"	L/450	25'-	7"	L/450
		24	23'-	8"	L/451	23'-	8"	L/451

18" Deep	_	12	30'- 0"	L/768	30'- 0"	L/768
	pacing	16	30'- 0"	L/575	30'- 0"	L/575
		19.2	30'- 0"	L/479	29'-10"	L/488
	03	24	27' - 4"	L/504	26' - 5"	L/579

Notes on Span Charts:

- 1. Spans are based on uniformly loaded joists and include allowances for repetitive use members.
- 2. Live loads of 40 psf are assumed, Additional dead loads should be chosen based on construction materials.
- All TrimJoist floor joists have a TOP orientation and should not be installed upside-down.
- 4. Stiffness factors (L/xxx) assume a minimum %-inch span-rated subfloor that has been both glued and nailed
- 5. Limit total reaction (per end) to that indicated in the Maximum Reaction Table at the right.
- Do not apply center supports, cantilevers, concentrated, or asymmetrical continuous loads without first consulting a *Trim* Joist representative.

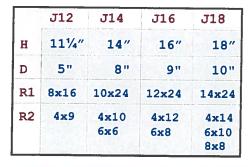
Maximum Reaction Table

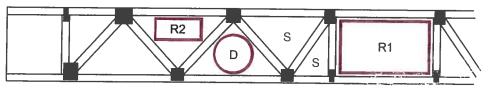
Width	11/2	31/2	51/2
Мах	3000	3500	4000

Width is the width of the loaded wall above, or the bearing wall width whichever is less

A Note About Floor Stiffness: Floor performance is greatly influenced by joist stiffness. Experience has shown that a floor system designed to minimum code acceptance may not meet the expectations of discerning owners. *Trim*Joist Corporation strongly recommends that floor spans be limited to those indicated in the charts above. The numbers in these charts far exceed minimum code requirements and are based on both gluing *and* nailing the subfloor. In cases where the subfloor is nailed only, spans remain the same, but the stiffness must be reduced by 20%. For optimal performance use screws in lieu of nails.

Opening Sizes





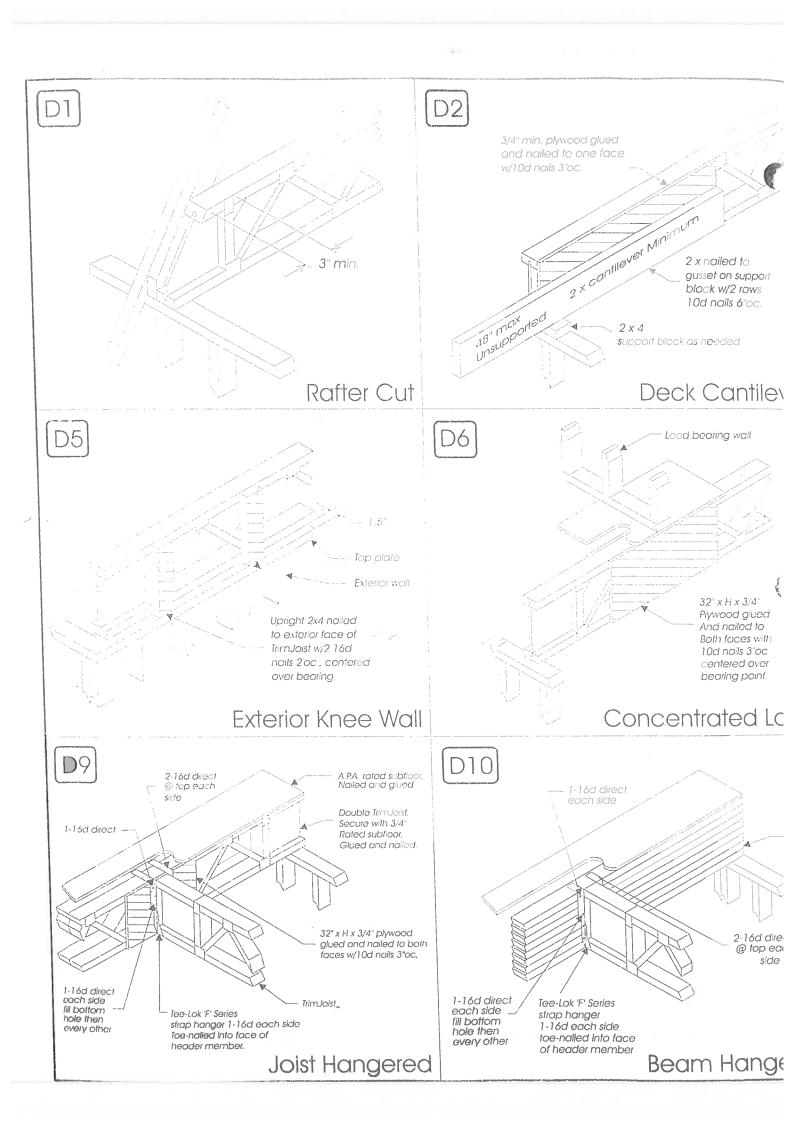
- 1. All sizes given are in inches and denote maximum expected clearance.
- 2. Rectangular opening (R1) is provided at centerline of stock length.
- 3. Only opening D available in 4 stock length (one opening only).
- 4. Only opening R1 available in 6' and 8' stock length.
 5. Openings R2 & D not applicable in shaded areas (s).

My 11cy Sept. 1, 2006

Good Framing Practice...

- DO Install TrimJoists right side up. TOP is stamped on the top of each joist.
- **DO** Make sure that each *Trim*Joist bears on the bottom flange beneath the *Trim*End section or beneath the first metal plate if the *Trim*End section has been removed.
- **DO** Use strongback stiffeners. Although not required for structural performance, strongback adds additional resistance to impact loadings.
- **DO** Provide appropriate bearing width at each end of the *TrimJoist*. The required width can be found in the Maximum Reaction Table above. Use vertical web stiffeners where reactions exceed these values.
- **DO** Use *Trim*Joist approved hangers for flush-mounted bearing conditions. These may be purchased from your local *Trim*Joist dealer.
- **DO** Use an appropriately rated sub-floor that has been both glued and nailed/screwed to the top flange of the *Trim*Joist
- **DO** Consult your *Trim*Joist dealer or representative about special loading or bearing conditions not addressed in this Application Guide.

- **DO NOT** cut any part of the *Trim*Joist except for the *Trim*End sections which are specifically designed to be field cut.
- **DO NOT** remove, cut or alter any metal plate connector on the *TrimJoist* without first consulting a factory engineer.
- **DO NOT** install the *Trim*Joist upside down without first consulting a *Trim*Joist factory engineer.
- **DO NOT** use a *Trim*Joist as a header or beam except as may be instructed by a *Trim*Joist engineer.
- **DO NOT** allow the *Trim* Joist to be supported by the top flange. All support must be from under the bottom flange.
- **DO NOT** depend on "toe nailing" to provide adequate support capacity for flush-mounted framing. Consult your local *Trim* Joist dealer or a *Trim* Joist factory engineer for proper hanger selection.
- **DO NOT** apply special support or load conditions without first consulting a *Trim*Joist representative.



Branard

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001

ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDIN G CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

- 1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPI
- 2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE -----110 MPI
- 3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL	REQUIREME	NTS: Two (2) complete sets of plans containing the following:
Applicant	Plans Examine	
	D	All drawings must be clear, concise and drawn to scale ("Optional details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
		Designers name and signature on document (FBC 104.2.1). If licen sed architect or engineer, official seal shall be affixed.
2	0	Site Plan including: a) Dimensions of lot
		 b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
Z .	ם	Wind-load Engineering Summary, calculations and any details equired a) Plans or specifications must state compliance with FBC Section 1606
D		 b) The following information must be shown as per section 16067 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure — if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the regis ered design professional
		Elevations including:
	0	a) All sides
E C	0	b) Roof pitch
D/	0	c) Overhang dimensions and detail with attic ventilation
p/	0	d) Location, size and height above roof of chimneys
	Ď	e) Location and size of skylights
	0	f) Building height
	0	e) Number of stories

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-/				- 23	Wines Wien	ببالأسالة ببا	
	• 0	-	6	100	Floor Plan		
2//	• 1	0			108409509664		dimensioned
3/					b) Shear wa		
4		0			c) Windows	and doo	rs (including garage doors) showing size, mfg , approval
							ment specs. (FBC 1707) and safety glazing wi ere needed
							n bedrooms to be shown)
7					d) Fireplace	s (gas ap	pliance) (vented or non-vented) or wood burn ag with
				F.	hearth		
<u> </u>		0		,	e) Stairs wit	h dimen	tions (width, tread and riser) and details of gu rdrails and
					handrails	***	Anna Committee of the second of the second of the
f /		П		-	f Mist show	end ide	entify accessibility requirements (accesseable athroom)
_/	-	_			Foundation	Plan in	sparious, reduirements (moderations aminous)
6 .		D					d-bearing will with required footings indicate i as standar
_/					Or mon	olishia as	d dimensions and reinforcing
1		-			L) All seeds		de contentions and removeing
		0			of Wil bosts	STOLOL C	olumn footing including size and reinforcing
3		0	2 1				rt required by soil analysis such as piling
J					d) Location		artical steel
					Reel System		
3		0	1960		a) Truss pac		
						Truss l	syout and truss details signed and sealed by Fl Pro. Eng.
					· 2.	Roofas	sembly (FBC 104.2.1 Roofing system, materials,
()) ())						manufa	cturer, fastening requirements and product ev lustion with
	*						sistance rating)
]					b) Conventi	onal Fra	ning Layout including:
				1.7	1.		ize, species and spacing
	12				2.		neat to wall and uplift
					3.		eam sized and vailey framing and support det ills
	+				4.	Roof as	sembly (PBC 104.2.1 Roofing systems, mater us,
			8		(3)	manufa	cturer, fastening requirements and product ev lustion witi
					0.02	wind re	sistance rating)
					Wall Section		
3					a) Masonry		
					1.		crials making up wall
8					2,	Block s	ize and mortar type with size and spacing of r inforcemen
					3.	Lintel.	tie-beam sizes and reinforcement
			*	•	8 4.	Gable e	nds with rake beams showing reinforcement (: gable trust
					× 5	and wal	I bracing details
					5.	All reg	ired connectors with uplift rating and require number an
				162		size of	asteners for continuous tie from roof to found tion
					6.	Roof	sembly shown here or on roof system detail (F 3C 104.2.1
					:	Roofing	system, materials, manufacturer, fastening n quirements
					¥ 1	and am	duct evaluation with resistance rating)
					7.	Pies ess	istant construction (if required)
			- VE		8.	Picenso	ofing requirements
				1	9.		
					8777	Slob on	pe of termite trestment (termiticide or alterna ve method)
			•		10.		
			25	20 10		a.	Vapor retarder (6mil. Polyethylene with join s lapped 6
	16	×		•	(5) 160 24	1.	
					0.0	D.	Must show control joints, synthetic fiber reis forcement o
							Welded fire fabric reinforcement and suppor s
					* 11.	Indicate	where pressure treated wood will be placed
- 50		12			12.	Provide	insulation R value for the following:
						· 8.	Attic space
			v .			b.	Exterior wall cavity Crawl space (if applicable)
	S.	* .		e * = 8	10.	Slab on a. b.	grade Vapor retarder (6mil, Polyethylene inches and sealed) Must show control joints, synthetic welded fire fabric reinfarcement an

	F	3	b) Wood f	e mall		
•		•	0) W 002 I	All materials mal	ring on soull	
4	7). 1220		. 2	Size and species (
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- •		g 8.	- 4	Shearing size, th	pe and nailing schedule	
		" N	4	Headers sized	4 44	
				Cadle and showin	ng balloon framing detail or gable tr	ss and wall
+			2	ninge bracing det	ail	
		•	6	All required faste	mers for continuous tie from roof to	oundation
	201			truss anchors, str	raps, anchor bolts and washers)	
			7	Roof assembly she	own here or on roof system detail (F	3C104.2.1
		,		Roofing system, n	naterials, manufacturer, fastening re	mirements
		,	N N	ind product evalu	ection with wind resistance rating)	•
Q. 1	33	5	8	fire resistant cons	struction (if applicable)	
			9.	Pireproofing requ	irements	
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84		ι [©] .		inches and	d sealed	appea o
		183			control joints, synthetic fiber reinfe	sament on
4 18			(6)	welded wir	re fabric reinforcement and supports	Contrast of
			1:	ndicate where no	essure treated wood will be placed	
			1	Provide insulation	R value for the following:	
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			: '	b. Exterior		
Ð	D		A.18.4.4 B	c. Crawl sp	ace (if applicable)	
J	U		c) Ment H	wall and roof (designed, signed and scaled by Flor	ia Prof.
				r Architect)		*
17	-		Floor Fra		W WHEN	
/	0		a) Floor tri	package including	g layout and details, signed and seal	d by Florid
	_		Kegister	roressional Engi	ineer	a. ¹³
<u>u</u> ,			b) Floor jo	ize and spacing		£
<u>u</u>	0	8	c) Girder s	and spacing		
0	D		d) Attachn	of joist to girder		
Ø	0		e) Wind lo	equirements who	re applicable	
s			Plumbing.	ture layout	·	
/ 1		3		out including:		
ď,			a) Switche	ticts/recenturies	lighting and all required GFCI out	An 1.8 - 118 -
ď,	B *		b) Ceiling	-trans reachestores	usurus suo su tedantes OLCI OSI	22 10CH 111101
1	ū		c) Smoke d		4	27
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DI	0	27	e) Weter, lo	on with type of so	ervice entrance (overhead or under;	ound)
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U	0		a) Manual	zing equipment or	r equivalent computation	
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D'	D				ons shall match plans)	
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