

For more information, visit our Web site at www.openjoist.com



CONVENIENCE OF OPEN WEB

FLEXIBILITY OF FIELD TRIMMING

ASSURANCE OF INDIVIDUAL TESTING

where
Speed
meets
Strength



**The only
all-wood,
open-web
floor truss.**



OPEN JOIST™



Top and bottom flanges of 2x3 and 2x4 provide a wider nailing surface for fasteners and adhesives to help ensure a quieter floor.

Open-web engineering allows mechanical systems to be easily installed within the floor frame—eliminating the need for drilling.

Open Joist trusses feature trimmable ends to fit exact framing dimensions. Up to 5-1/2" can be trimmed off of each end, for a total of 11".

Less is More. Shape is Everything.

Open Joist™ from Universal Forest Products® is a revolutionary open-web, all-wood floor truss. Unlike traditional open-web trusses, Open Joist is lighter in weight, easier to handle, safer to install and has greater load carrying capabilities.

Open Joist's unique finger-joint construction is held together with HexiTherm™ high heat-performing adhesives to maximize fire performance. HexiTherm adhesives from Hexion™ Specialty Chemicals use state-of-the-art thermosetting technologies, which are thermally stable under the most rigorous conditions. The waterproof structural glue also eliminates the need for heavy plates, which can sometimes snag electrical wires and cut hands.

Using the structural power of a triangle, Open Joist's through-web engineering creates a stronger, more solid floor and makes installation of mechanical systems easier.

Open Joist provides:

- Top and bottom flanges of 2x3 and 2x4, which allow a wider nailing surface for fasteners and adhesives to help ensure a quieter floor.
- Trusses individually tested to more than twice their design load. These tests ensure that a customer is never shipped a defective truss.



Open-web engineering

Open Joist's configuration makes it easier and faster to install mechanical systems such as plumbing, electrical and HVAC. Rather than suspending these mechanical systems below floor framing, an Open Joist system allows them to be installed within the floor frame. Open-web engineering helps eliminate the dangers of drilling and cutting holes in the wrong place.



Trimmable ends

Open Joist is available immediately from stock, with trimmable ends to fit exact framing dimensions. Up to 5-1/2" can be trimmed off each end, for a total of 11".

Easily installed

Open Joist is lightweight, easy to install and doesn't require structural rim. Several available depths make Open Joist appropriate for all wood-frame construction projects (9-1/4", 11-7/8", 14", 16").



Maximum Clear Space • Open Web • All-Wood Trusses

Lifetime Warranty

Open Joist™ offers builders and homeowners peace of mind, through a lifetime warranty.

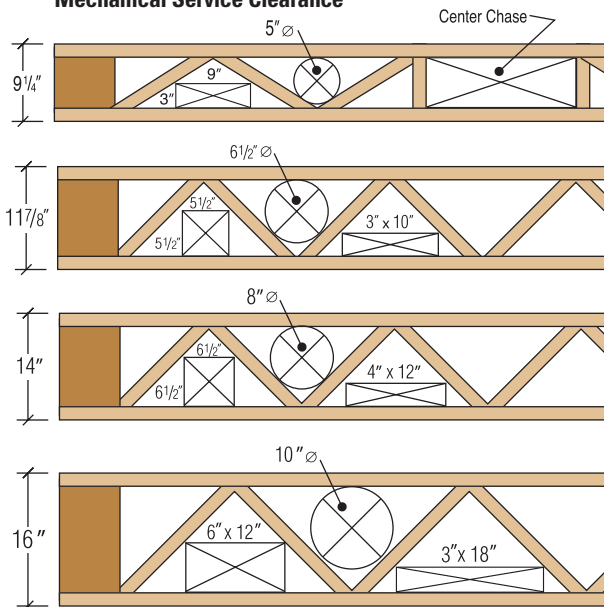
Code of Approval

Open Joist is accredited by International Code Council Evaluation Service Report Number ESR-1035 and is in compliance with the following codes: 2006 International Building Code (IBC), 2006 International Residential Code (IRC), BOCA National Building Code/1999 (BNBC), 1999 Standard Building Code (SBC), and the 1997 Uniform Building Code (UBC). Open Joist is accredited by the city of Los Angeles (RR#25376 and RR#25584), New York City (MEA#300-00-E), the city of Houston (#434B) and the state of Florida (FL#5828). Open Joist is certified by Canadian report #CCMC 12118R and is in compliance with Part 4 and Part 9 of the National Building Code of Canada 1995, the Ontario Building Code 1995 and CAN/CSA-086. 1-M94 standards for limit state design and controlled vibration standards. Code approval reports available at www.openjoist.com.

Standard Open Joist Configurations

Joist Depth	Joist Length	Chord Size and Grade
9-1/4"	3' through 16'	3 x 2 - #2 SPF
9-1/4"	17' through 20'	4 x 2 - MSR 2100 SPF
11-7/8"	3' through 17'	3 x 2 - #2 SPF
11-7/8"	18' through 19'	4 x 2 - #2 SPF
11-7/8"	20' through 23'	4 x 2 - MSR 2100 SPF
14"	3' through 18'	3 x 2 - #2 SPF
14"	19' through 21'	4 x 2 - #2 SPF
14"	22' through 25'	4 x 2 - MSR 2100 SPF
16"	3' through 17'	3 x 2 - #2 SPF
16"	18' through 22'	4 x 2 - #2 SPF
16"	23' through 26'	4 x 2 - MSR 2100 SPF
16"	27' through 30'	4 x 2 - MSR 2400 SPF

Mechanical Service Clearance



9 1/4" Depth Maximum Live Load Deflection - L/360 & L/480, 1 1/2" Minimum Bearing Each End

Chord* Size	Chord* Grade	Loading (PSF)		12" O.C.		16" O.C.		19.2" O.C.		24" O.C.	
		Live	Dead	L/360	L/480	L/360	L/480	L/360	L/480	L/360	L/480
3x2	#2	40	15	15'-9"	15'-9"	15'-9"	14'-11"	15'-6"	14'-0"	14'-3"	12'-10"
4x2	MSR 2100	40	15	19'-9"	19'-5"	19'-1"	17'-3"	17'-11"	16'-6"	16'-11"	--
3x2	#2	50	15	15'-9"	15'-3"	15'-3"	13'-9"	14'-3"	12'-10"	13'-2"	11'-11"
4x2	MSR 2100	50	15	19'-9"	17'-11"	17'-11"	16'-4"	16'-11"	--	--	--
3x2	#2	100	15	13'-2"	11'-11"	11'-11"	10'-8"	11'-1"	9'-11"	9'-3"	8'-9"

11 7/8" Depth Maximum Live Load Deflection - L/360 & L/480, 1 1/2" Minimum Bearing Each End

Chord* Size	Chord* Grade	Loading (PSF)		12" O.C.		16" O.C.		19.2" O.C.		24" O.C.	
		Live	Dead	L/360	L/480	L/360	L/480	L/360	L/480	L/360	L/480
3x2	#2	40	15	16'-9"	16'-9"	16'-9"	16'-9"	16'-9"	16'-8"	16'-9"	15'-2"
4x2	#2	40	15	18'-9"	18'-9"	18'-9"	18'-9"	18'-9"	18'-7"	17'-2"	17'-2"
4x2	MSR 2100	40	15	22'-9"	22'-9"	22'-9"	21'-0"	21'-5"	19'-10"	19'-3"	--
3x2	#2	50	15	16'-9"	16'-9"	16'-9"	16'-5"	16'-9"	15'-2"	15'-4"	14'-1"
4x2	#2	50	15	18'-9"	18'-9"	18'-9"	18'-5"	17'-8"	17'-3"	16'-3"	--
4x2	MSR 2100	50	15	22'-9"	21'-5"	21'-5"	19'-8"	20'-3"	--	--	--
3x2	#2	100	15	15'-7"	14'-1"	13'-11"	12'-9"	12'-3"	11'-11"	10'-4"	10'-4"
4x2	#2	100	15	16'-11"	--	--	--	--	--	--	--

* Because Open Joist is a "stock" product, the length of an Open Joist truss determines the size and grade of the truss' chords (see tables). Maximum spans published on the chart above may be limited by standard joist configuration. To find maximum clear span for each truss depth in a given loading condition, refer to the bottom line of spans shown for that load condition.

NOTE: Clear spans shown on this chart are presented under the following conditions: (1) Bearing of 1-1/2", (2) "Strongback" bracing is not considered, (3) Assumes a single layer of APA rated wood sheathing nailed or screwed, (4) Spans are clear distance between supports for uniformly loaded trusses and include allowable increases for repetitive use members.

Details on fire resistance assemblies for one- and two-hour endurance are available on www.openjoist.com.

14" Depth Maximum Live Load Deflection - L/360 & L/480, 1½" Minimum Bearing Each End

Chord* Size	Chord* Grade	Loading (PSF)		12" O.C.		16" O.C.		19.2" O.C.		24" O.C.	
		Live	Dead	L/360	L/480	L/360	L/480	L/360	L/480	L/360	L/480
3x2	#2	40	15	17'-9"	17'-9"	17'-9"	17'-9"	17'-9"	17'-9"	17'-9"	16'-4"
4x2	#2	40	15	20'-9"	20'-9"	20'-9"	20'-9"	20'-9"	19'-10"	18'-9"	18'-5"
4x2	MSR 2100	40	15	24'-9"	24'-9"	24'-8"	22'-9"	23'-5"	21'-2"	20'-10"	--
3x2	#2	50	15	17'-9"	17'-9"	17'-9"	17'-7"	17'-9"	16'-5"	16'-4"	15'-3"
4x2	#2	50	15	20'-9"	20'-9"	20'-9"	19'-8"	19'-9"	18'-6"	--	--
4x2	MSR 2100	50	15	24'-9"	23'-2"	23'-2"	21'-0"	21'-10"	--	--	--
3x2	#2	100	15	16'-9"	15'-2"	14'-4"	13'-8"	12'-10"	12'-8"	10'-9"	10'-9"
4x2	#2	100	15	18'-4"	--	--	--	--	--	--	--

16" Depth Maximum Live Load Deflection - L/360 & L/480, 1½" Minimum Bearing Each End

Chord* Size	Chord* Grade	Loading (PSF)		12" O.C.		16" O.C.		19.2" O.C.		24" O.C.	
		Live	Dead	L/360	L/480	L/360	L/480	L/360	L/480	L/360	L/480
3x2	#2	40	15	16'-9"	16'-9"	16'-9"	16'-9"	16'-9"	16'-9"	16'-9"	16'-9"
4x2	#2	40	15	21'-9"	21'-9"	21'-9"	21'-9"	21'-9"	21'-9"	21'-9"	21'-9"
4x2	MSR 2100	40	15	25'-9"	25'-9"	25'-9"	25'-9"	25'-9"	25'-6"	25'-9"	22'-5"
4x2	MSR 2400	40	15	29'-9"	29'-8"	29'-9"	27'-7"	28'-5"	--	26'-10"	--
3x2	#2	50	15	16'-9"	16'-9"	16'-9"	16'-9"	16'-9"	16'-9"	16'-9"	16'-9"
4x2	#2	50	15	21'-9"	21'-9"	21'-9"	21'-9"	21'-9"	21'-9"	21'-9"	20'-10"
4x2	MSR 2100	50	15	25'-9"	25'-9"	25'-9"	25'-0"	25'-9"	22'-5"	23'-10"	--
4x2	MSR 2400	50	15	29'-9"	28'-2"	28'-3"	--	26'-10"	--	--	--
3x2	#2	100	15	16'-9"	16'-9"	16'-8"	16'-8"	13'-6"	13'-6"	11'-4"	11'-4"
4x2	#2	100	15	21'-9"	20'-10"	19'-1"	19'-0"	16'-9"	15'-9"	--	--
4x2	MSR 2100	100	15	23'-3"	--	--	--	--	--	--	--

* Because Open Joist is™ a "stock" product, the length of an Open Joist truss determines the size and grade of the truss' chords (see tables). Maximum spans published on the chart above may be limited by standard joist configuration. To find maximum clear span for each truss depth in a given loading condition, refer to the bottom line of spans shown for that load condition.

NOTE: Clear spans shown on this chart are presented under the following conditions: (1) Bearing of 1½", (2) "Strongback" bracing is not considered, (3) Assumes a single layer of APA rated wood sheathing nailed or screwed, (4) Spans are clear distance between supports for uniformly loaded trusses and include allowable increases for repetitive use members.

Details on fire resistance assemblies for one- and two-hour endurance are available on www.openjoist.com.



www.openjoist.com

Sales Inquiries 866-243-7200

Technical Inquiries 800-584-5191

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