

• From: Adam Furr [AFurr@cavinessandcates.com](mailto:AFurr@cavinessandcates.com)  
Subject: Fwd: I-joist hole chart  
Date: Jul 1, 2019 at 12:22:03 PM  
To: Ray L. Holder [rholder@harnett.org](mailto:rholder@harnett.org)  
Cc: Jennifer Brock [jbrock@harnett.org](mailto:jbrock@harnett.org), Adam Furr  
[AFurr@cavinessandcates.com](mailto:AFurr@cavinessandcates.com)

---

This is regarding lot 733 Lexington plantation, address is 50  
Old Montague Way.

See attached chart for I-joist forwarded from our engineer.  
The joist width is 14 inches, NI40x. The hole follows into the  
2 foot range which is where the current hole has been  
punched now. Engineer instructions is to take a jig saw and  
clean the cut up. Make cut circular instead of the jagged  
edges as it is now. Thank you and please advise if you need  
further information.

Adam Furr  
Project Manager, Cates Building  
639 Executive Place, Suite 400  
Fayetteville, NC 28305  
910-850-0745  
[afurr@cavinessandcates.com](mailto:afurr@cavinessandcates.com)

Begin forwarded message:

From: "Scot Duncan" <[sduncan@comtechfay.com](mailto:sduncan@comtechfay.com)>  
To: "Adam Furr" <[AFurr@cavinessandcates.com](mailto:AFurr@cavinessandcates.com)>  
Subject: I-joist hole chart

## MINIMUM DISTANCE FROM INSIDE FACE OF ANY SUPPORT TO CENTER OF HOLE (ft.-in.)

### FOR SINGLE OR MULTIPLE SPAN FOR DEAD LOADS UP TO 15 psf AND LIVE LOADS UP TO 40 psf

JOIST SERIES	MINIMUM DISTANCE FROM INSIDE FACE OF ANY SUPPORT TO CENTER OF HOLE (ft.-in.)												SPAN ADJ. FACTOR				
	2	3	4	5	6	6-1/4	7	8	8-5/8	9	10	10-3/4		11	12	12-3/4	
2	NI-20	0-7"	1-4"	2-8"	4-0"	5-5"	5-9"	6-10"	6-11"	6-11"	6-11"	6-11"	6-11"	6-11"	6-11"	6-11"	13-6"
	NI-40x	0-7"	1-4"	2-8"	4-2"	5-8"	6-2"	6-2"	6-2"	6-2"	6-2"	6-2"	6-2"	6-2"	6-2"	6-2"	15-0"
	NI-60	1-0"	2-4"	3-9"	5-3"	6-10"	7-3"	7-3"	7-3"	7-3"	7-3"	7-3"	7-3"	7-3"	7-3"	7-3"	15-3"
	NI-70	1-10"	3-3"	4-8"	6-2"	7-9"	8-3"	8-3"	8-3"	8-3"	8-3"	8-3"	8-3"	8-3"	8-3"	8-3"	16-5"
11-7/8	NI-80	2-0"	3-5"	4-10"	6-4"	8-0"	8-5"	8-5"	8-5"	8-5"	8-5"	8-5"	8-5"	8-5"	8-5"	8-5"	16-9"
	NI-20	0-7"	0-8"	0-10"	2-0"	3-4"	3-9"	4-9"	6-3"	7-5"	8-0"	8-0"	8-0"	8-0"	8-0"	8-0"	16-1"
	NI-40x	0-7"	0-8"	1-0"	2-4"	3-8"	4-0"	5-2"	6-8"	8-0"	8-8"	8-8"	8-8"	8-8"	8-8"	8-8"	17-2"
	NI-60	0-7"	1-4"	2-8"	4-0"	5-5"	5-10"	7-0"	8-8"	9-9"	9-9"	9-9"	9-9"	9-9"	9-9"	9-9"	18-2"
14	NI-70	1-2"	2-5"	3-9"	5-2"	6-8"	7-0"	8-2"	9-10"	11-0"	11-0"	11-0"	11-0"	11-0"	11-0"	11-0"	19-7"
	NI-80	1-4"	2-8"	4-0"	5-4"	6-10"	7-3"	8-5"	10-2"	11-3"	11-3"	11-3"	11-3"	11-3"	11-3"	11-3"	20-5"
	NI-90	0-7"	0-8"	1-3"	2-11"	4-8"	5-2"	6-6"	8-6"	9-11"	9-11"	9-11"	9-11"	9-11"	9-11"	9-11"	20-7"
	NI-90x	0-7"	0-8"	0-8"	2-3"	4-2"	4-6"	6-0"	6-0"	6-0"	6-0"	6-0"	6-0"	6-0"	6-0"	6-0"	18-1"
16	NI-40x	0-7"	0-8"	0-8"	0-9"	2-0"	2-4"	3-4"	4-9"	5-9"	6-3"	6-3"	6-3"	6-3"	6-3"	6-3"	20-8"
	NI-60	0-7"	0-8"	1-3"	2-6"	4-0"	4-3"	5-3"	6-9"	7-9"	8-3"	8-3"	8-3"	8-3"	8-3"	8-3"	22-2"
	NI-70	0-7"	1-8"	3-0"	4-3"	5-8"	6-0"	7-0"	8-6"	9-6"	10-2"	10-2"	10-2"	10-2"	10-2"	10-2"	22-2"
	NI-80	0-8"	1-10"	3-2"	4-6"	6-0"	6-3"	7-4"	8-10"	9-10"	10-6"	10-6"	10-6"	10-6"	10-6"	10-6"	23-2"
16	NI-90	0-7"	0-8"	0-9"	2-3"	3-10"	4-3"	5-6"	7-3"	8-5"	9-2"	9-2"	9-2"	9-2"	9-2"	9-2"	23-2"
	NI-90x	0-7"	0-8"	0-8"	1-10"	3-6"	4-0"	5-3"	7-0"	8-3"	9-0"	9-0"	9-0"	9-0"	9-0"	9-0"	24-2"
	NI-60	0-7"	0-8"	0-8"	1-2"	2-5"	2-9"	3-9"	5-0"	6-0"	6-6"	6-6"	6-6"	6-6"	6-6"	6-6"	25-2"
	NI-70	0-7"	0-9"	2-0"	3-3"	4-8"	5-0"	6-0"	7-5"	8-4"	9-0"	9-0"	9-0"	9-0"	9-0"	9-0"	25-2"
16	NI-80	0-7"	1-2"	2-4"	3-8"	5-0"	5-4"	6-4"	7-10"	8-9"	9-4"	9-4"	9-4"	9-4"	9-4"	9-4"	25-2"
	NI-90	0-7"	0-8"	0-8"	1-6"	3-0"	3-5"	4-6"	6-3"	7-3"	7-10"	7-10"	7-10"	7-10"	7-10"	7-10"	25-2"
	NI-90	0-7"	0-8"	0-8"	1-10"	3-4"	3-9"	5-0"	6-6"	7-6"	8-3"	8-3"	8-3"	8-3"	8-3"	8-3"	25-2"
	NI-90x	0-7"	0-8"	0-8"	1-10"	3-4"	3-9"	5-0"	6-6"	7-6"	8-3"	8-3"	8-3"	8-3"	8-3"	8-3"	25-2"

**NOTES:**

- Above table may be used for I-joist spacing of 24 inches on center or less.
- Minimum distance is measured from inside face of supports to center of hole.



## Disclaimer

The information contained in this communication from the sender is confidential. It is intended solely for use by the recipient and others authorized to receive it. If you are not the recipient, you are hereby notified that any disclosure, copying, distribution or taking action in relation of the contents of this information is strictly prohibited and may be unlawful.

This email has been scanned for viruses and malware, and may have been automatically archived by **Mimecast Ltd**, an innovator in Software as a Service (SaaS) for business. Providing a **safer** and **more useful** place for your human generated data. Specializing in; Security, archiving and compliance. To find out more [Click Here](#).

**TABLE 1**  
**MINIMUM DISTANCE FROM INSIDE FACE OF ANY SUPPORT TO CENTER OF CIRCULAR HOLE IN JOIST WEBS**  
**for Single or Multiple Span for Dead Loads up to 15 psf and Live Loads up to 10 psf**

JOIST SERIES	MINIMUM DISTANCE FROM INSIDE FACE OF ANY SUPPORT TO CENTER OF CIRCULAR HOLE IN JOIST WEBS (in.)									
	2	3	4	5	6	6-1/4	7	8	8-5/8	9
12'	NI-20	0-7"	1-4"	2-8"	4-0"	5-5"	5-9"	...	...	...
	NI-40x	0-7"	1-4"	2-8"	4-2"	5-8"	6-2"	...	...	...
	NI-60	1-0"	2-4"	3-9"	5-3"	6-10"	7-3"	...	...	...
	NI-70	1-10"	3-3"	4-8"	6-2"	7-9"	8-3"	...	...	...
11'-7/8"	NI-80	2-0"	3-5"	4-10"	6-4"	8-0"	8-5"	...	...	...
	NI-20	0-7"	0-8"	0-10"	2-0"	3-4"	3-9"	4-9"	6-3"	7-5"
	NI-40x	0-7"	0-8"	1-0"	2-4"	3-8"	4-0"	5-2"	6-8"	8-0"
	NI-60	0-7"	1-4"	2-8"	4-0"	5-5"	5-10"	7-0"	8-8"	9-9"
11'	NI-70	1-2"	2-5"	3-9"	5-2"	6-8"	7-0"	8-2"	9-10"	11-0"
	NI-80	1-4"	2-8"	4-0"	5-4"	7-3"	7-3"	8-5"	10-2"	11-3"
	NI-90	0-7"	0-8"	1-3"	2-11"	4-8"	5-2"	6-6"	8-6"	9-11"
	NI-90x	0-7"	0-8"	0-8"	2-3"	4-2"	4-6"	6-0"	...	...
10'-7/8"	NI-40x	0-7"	0-8"	0-8"	0-9"	2-0"	2-4"	3-4"	4-9"	5-9"
	NI-60	0-7"	0-8"	1-3"	2-6"	4-0"	4-3"	5-3"	7-9"	7-9"
	NI-70	0-7"	1-8"	3-0"	4-3"	5-8"	6-0"	7-0"	8-6"	9-6"
	NI-80	0-8"	1-10"	3-2"	4-6"	6-0"	6-3"	7-4"	8-10"	9-10"
10'	NI-90	0-7"	0-8"	0-9"	2-3"	3-10"	4-3"	5-6"	7-3"	8-5"
	NI-90x	0-7"	0-8"	0-8"	1-10"	3-6"	4-0"	5-3"	7-0"	8-3"
	NI-60	0-7"	0-8"	0-8"	1-2"	2-5"	2-9"	3-9"	5-0"	6-0"
	NI-70	0-7"	0-9"	2-0"	3-3"	4-8"	5-0"	6-0"	7-5"	8-4"
9'-7/8"	NI-80	0-7"	1-2"	2-4"	3-8"	5-0"	5-4"	6-4"	7-10"	8-9"
	NI-90	0-7"	0-8"	0-8"	1-6"	3-0"	3-5"	4-6"	6-3"	7-3"
	NI-90x	0-7"	0-8"	0-8"	1-10"	3-4"	3-9"	5-0"	6-6"	7-6"
	NI-90x	0-7"	0-8"	0-8"	1-10"	3-4"	3-9"	5-0"	6-6"	7-6"

**NOTES:**  
1. Above table may be used for I-joist spacing of 24 inches on center or less.  
2. Minimum distance is measured from inside face of supports to center of hole.

loads up to 40 psf

DISTANCE TO CENTER OF HOLE (ft-in.)						SPAN ADJ. FACTOR
9	10	10-3/4	11	12	12-3/4	
---	---	---	---	---	---	13-6"
---	---	---	---	---	---	15-0"
---	---	---	---	---	---	15-3"
---	---	---	---	---	---	16-5"
---	---	---	---	---	---	16-9"
---	---	---	---	---	---	16-1"
---	---	---	---	---	---	17-2"
---	---	---	---	---	---	18-2"
---	---	---	---	---	---	19-7"
---	---	---	---	---	---	19-11"
---	---	---	---	---	---	20-5"
---	---	---	---	---	---	20-7"
---	---	---	---	---	---	18-1"
6'-3"	8'-0"	9'-9"	---	---	---	20-8"
8'-3"	10'-2"	11'-10"	---	---	---	22-2"
10'-2"	12'-0"	13'-4"	---	---	---	22-7"
10'-6"	12'-3"	13'-8"	---	---	---	23-1"
9'-2"	11'-2"	12'-9"	---	---	---	23-1"
9'-0"	---	---	---	---	---	22-1"
6'-6"	8'-0"	9'-2"	9'-8"	11'-9"	13'-9"	24"
9'-0"	10'-5"	11'-9"	12'-2"	14'-0"	15'-5"	25"
9'-4"	11'-0"	12'-2"	12'-6"	14'-4"	16'-0"	25"
7'-10"	9'-8"	11'-0"	11'-6"	13'-6"	15'-3"	25"
8'-3"	10'-0"	11'-5"	11'-10"	---	---	25"