

- DESIGN CRITERIA - 2012 IBC**
1. DESIGN LOADS PER ASCE 7-10
 2. CODE REQUIREMENT FOR STEEL - AISC 360
 3. ROOF LIVE LOAD = 20 PSF
 4. DEAD LOAD = 6 PSF
 5. DESIGN WIND SPEED = 105 MPH
 6. BUILDING CATEGORY I
 7. WIND EXPOSURE CATEGORY B
 8. IMPORTANCE FACTOR = 1.0
 9. GROUND SNOW LOAD = 10 PSF

BILL OF MATERIALS

MARK	DESCRIPTION	LENGTH	NUMBER REQUIRED	MATERIAL
A1	TOP CHORD	LL 1.5 x 1.5 x 3/16	23'- 3"	1 A36
A2	BOTTOM CHORD	LL 1.5 x 1.5 x 3/16	23'- 3"	1 A36
A3	VERTICAL	L 1.5 x 1.5 x 3/16	1' 5-1/2"	3 A36
A4	VERTICAL END	LL 1.5 x 1.5 x 3/16	1'- 5"	3 A36
W1	WEB	L 1-1/4 x 1-1/4 x 1/8	1' 5-5/8"	2 A36
W2	WEB	L 1-1/4 x 1-1/4 x 1/8	1' 7-1/2"	18 A36

NOTES:

1. THIS DESIGN IS FOR TRUSS ONLY. THE SUPPORT POST IS ASSUMED TO BE 8" BUT THE POST IS NOT A PART OF THIS DESIGN.
2. THIS DESIGN IS FOR TRUSS FABRICATION ONLY. CONTRACTOR RESPONSIBLE FOR FOR TEMPORARY CONSTRUCTION BRACING.
3. FABRICATOR SHALL VERIFY ALL DIMENSIONS BEFORE PURCHASE AND/OR FABRICATION.
4. THIS DESIGN MAY ALSO BE USED FOR 16', 18', 20', 22' LONG JOIST TRUSS.
5. THIS DESIGN MAY BE USED TO SUPPORT CONNECTING TRUSS CONFIGURATIONS SHOWN IN THE TABLE TO THE LEFT. TRUSS MEMBER SIZES AND LENGTHS MUST BE ADJUSTED ACCORDINGLY.

THE FOLLOWING LOADING CONDITIONS CAN BE USED WITH THIS BAR JOIST

24 FT BAR JOIST TRUSS TO SUPPORT CONNECTING TRUSSES					
CONNECTING TRUSSES			JOIST TRUSS - SHOWN ON THIS DRAWING		
LENGTH (FT)	SPACING (FT)	LOAD** (PSF)	DEPTH (IN)	BC/TC DBL ANGLE	WEB ANGLE
20	12	26	18	LL1.5x1.5x.1875	L1.25x1.25x.125
24	12	26	18	LL1.5x1.5x.1875	L1.25x1.25x.125
28	12	26	18	LL1.5x1.5x.1875	L1.25x1.25x.125
30	12	26	18	LL1.5x1.5x.1875	L1.25x1.25x.125
36	12	26	18	LL2x2x.1875	L1.25x1.25x.125
40	12	26	18	LL2x2x.1875	L1.25x1.25x.125

**LOAD: 20 PSF ROOF LIVE LOAD PLUS 6 PSF DEAD LOAD

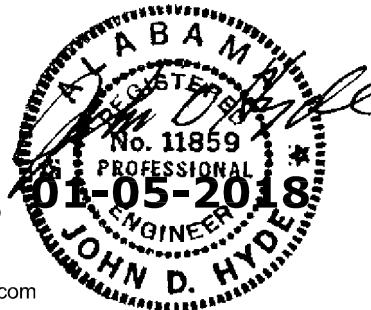
BOLT TABLE

FOR 24' BAR JOIST

CONNECTING TRUSS LENGTH (FT)	BOLT MATERIAL	
	"A" BOLTS	"B" BOLTS
20	1/2" Ø	3/8" Ø
24	1/2" Ø	3/8" Ø
28	1/2" Ø	3/8" Ø
30	1/2" Ø	3/8" Ø
36	5/8" Ø	1/2" Ø
40	5/8" Ø	1/2" Ø

THIS DRAWING WAS PRODUCED BY JOHN D. HYDE AND MAY NOT BE MODIFIED IN ANY WAY NOR SHALL THIS DRAWING BE USED BY ANYONE OTHER THAN AGCOR STEEL, LLC. OR ITS ASSIGNS WITHOUT THE EXPRESS WRITTEN PERMISSION OF JOHN D. HYDE WHOSE PROFESSIONAL ENGINEER'S STAMP APPEARS ON THIS DRAWING.

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AGCOR STEEL, LLC.

24' STEEL BAR JOIST TRUSS

SCALE	DATE	DRAWN BY	DRAWING NO.
AS NOTED	1-5-2018	J. HYDE	18-0105-24
BAR JOIST DETAIL			SHEET NO. 1 OF 1