

Trenco

818 Soundside Rd Edenton, NC 27932

Re: Master_FT HERRING

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I39310849 thru I39310870

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



November 18,2019

Sevier, Scott

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	HERRING
Master FT	F01	ROOF TRUSS	1	1	I39310849
master_r :		Index integer			Job Reference (optional)

Apex, NC - 27523, Builders FirstSource,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:06 2019 Page 1 ID:roHhUsgqWusUxq3sQOAq53yLGQf-bis33nDO_ZQx8fafMQuLrGW6iO0rR_b?1F?DWqyI?bB

Structural wood sheathing directly applied or 6-0-0 oc purlins,

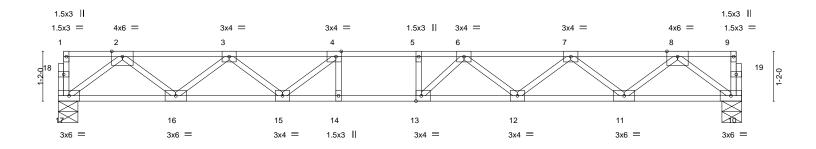
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





0-1-8 Scale = 1:27.0



2-9-0			-		10-9-0				13-3-0		
2-9-0	2-	-6-0	<u> </u>		5-6-0				2-6-0		9-0
(4:0-1-8,Edge)	, [13:0-1-8,E	dge]									
SPACII	NG-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
Plate G	rip DOL	1.00	TC	0.61	Vert(LL)	-0.21	13	>920	480	MT20	244/190
Lumber	DOL	1.00	BC	0.80	Vert(CT)	-0.28	13	>665	360		
Rep Str	ess Incr	YES	WB	0.44	Horz(CT)	0.05	10	n/a	n/a		
Code I	RC2015/TPI	2014	Matrix	∢-S						Weight: 80 lb	FT = 20%F, 11%E
	2-9-0 Y) [4:0-1-8,Edge] SPACII Plate G Lumber Rep Str	2-9-0 2 Y) [4:0-1-8,Edge], [13:0-1-8,E SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-9-0 2-6-0 Y) [4:0-1-8,Edge], [13:0-1-8,Edge] SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	2-9-0 2-6-0 Y) [4:0-1-8,Edge], [13:0-1-8,Edge] SPACING- 2-0-0 CSI. Plate Grip DOL 1.00 TC Lumber DOL 1.00 BC Rep Stress Incr YES WB	2-9-0 2-6-0 Y) [4:0-1-8,Edge], [13:0-1-8,Edge] SPACING- 2-0-0 CSI. Plate Grip DOL 1.00 TC 0.61 Lumber DOL 1.00 BC 0.80 Rep Stress Incr YES WB 0.44	2-9-0 2-6-0 5-6-0 Y) [4:0-1-8,Edge], [13:0-1-8,Edge] SPACING- 2-0-0 CSI. DEFL. Plate Grip DOL 1.00 TC 0.61 Vert(LL) Lumber DOL 1.00 BC 0.80 Vert(CT) Rep Stress Incr YES WB 0.44 Horz(CT)	2-9-0 2-6-0 5-6-0 Y) [4:0-1-8,Edge], [13:0-1-8,Edge] SPACING- 2-0-0 CSI. DEFL. in Plate Grip DOL 1.00 TC 0.61 Vert(LL) -0.21 Lumber DOL 1.00 BC 0.80 Vert(CT) -0.28 Rep Stress Incr YES WB 0.44 Horz(CT) 0.05	2-9-0 2-6-0 5-6-0 Y) [4:0-1-8,Edge], [13:0-1-8,Edge] SPACING- 2-0-0 CSI. DEFL. in (loc) Plate Grip DOL 1.00 TC 0.61 Vert(LL) -0.21 13 Lumber DOL 1.00 BC 0.80 Vert(CT) -0.28 13 Rep Stress Incr YES WB 0.44 Horz(CT) 0.05 10	2-9-0 2-6-0 5-6-0 Y) [4:0-1-8,Edge], [13:0-1-8,Edge] SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl Plate Grip DOL 1.00 TC 0.61 Vert(LL) -0.21 13 >920 Lumber DOL 1.00 BC 0.80 Vert(CT) -0.28 13 >665 Rep Stress Incr YES WB 0.44 Horz(CT) 0.05 10 n/a	2-9-0 2-6-0 5-6-0 2-6-0 Y) [4:0-1-8,Edge], [13:0-1-8,Edge] SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d Plate Grip DOL 1.00 TC 0.61 Vert(LL) -0.21 13 >920 480 Lumber DOL 1.00 BC 0.80 Vert(CT) -0.28 13 >665 360 Rep Stress Incr YES WB 0.44 Horz(CT) 0.05 10 n/a n/a	2-9-0 2-6-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (lb/size) 17=860/0-5-8, 10=860/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1787/0, 3-4=-2836/0, 4-5=-3228/0, 5-6=-3228/0, 6-7=-2841/0, 7-8=-1786/0

BOT CHORD

2-10-17072, 15-16=0/2465, 14-15=0/3228, 13-14=0/3228, 12-13=0/3168, 11-12=0/2472, 10-11=0/1070 8-10=-1339/0, 2-17=-1342/0, 8-11=0/933, 2-16=0/931, 7-11=-893/0, 3-16=-883/0, 7-12=0/480, 3-15=0/529, **WEBS**

6-12=-427/0, 4-15=-652/0, 6-13=-192/423

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019



🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid for use only with new Connectors. This design is based only upon parameters shown, and is for an individual building Component, not a truss system. Before use, the building designe must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	HERRING
Master FT	F01G	ROOF TRUSS	1	1	139310851
madior_r :					Job Reference (optional)

0-1_8

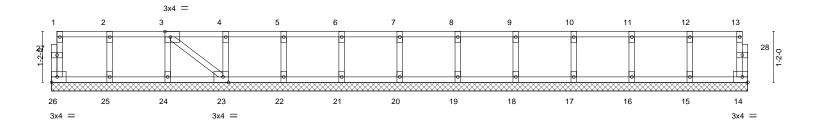
8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:08 2019 Page 1 ID:roHhUsgqWusUxq3sQOAq53yLGQf-X4_pUTEeWBgfNzj2UrwpwhbaLCtiv_YIVZUJbjyl?b9

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Scale = 1:26.5



						16-0-0						1
Plate Offse	ets (X,Y)	[3:0-1-8,Edge], [23:0-1-8	,Edge]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	· -	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	5.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 69 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

16-0-0

OTHERS 2x4 SP No.3(flat)

2x4 SP No.2(flat)

2x4 SP No.2(flat)

2x4 SP No.3(flat)

REACTIONS. All bearings 16-0-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

LUMBER-

WEBS

TOP CHORD

BOT CHORD

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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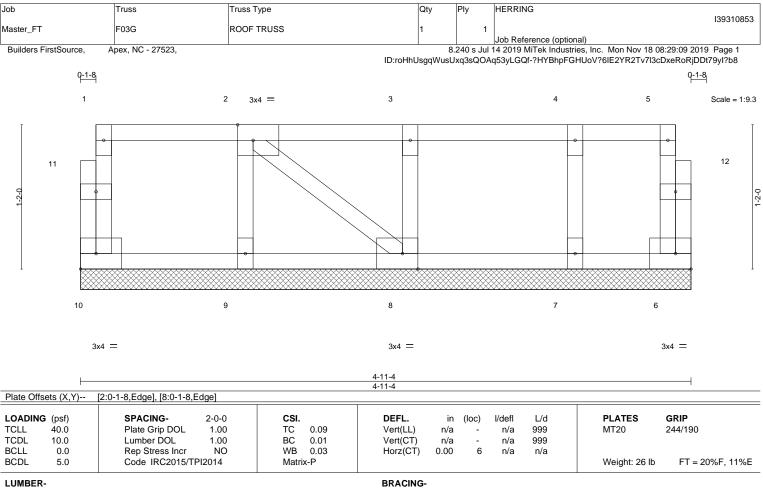


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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 4-11-4 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. All bearings 4-11-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty HERRING 139310854 F04 Master FT ROOF TRUSS | Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:10 2019 Page 1 Builders FirstSource, Apex, NC - 27523, ID:roHhUsgqWusUxq3sQOAq53yLGQf-TT6Zv9Gu2owMcGtRbGyH06gwd?X3Nt0bytzQfbyl?b7

> 0₋₁₋₈ Scale = 1:11.4 1-3-0 0-3-8

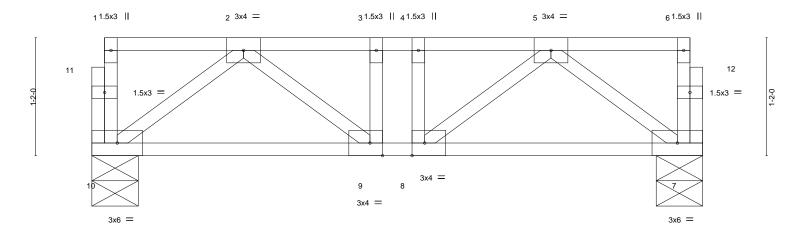


Plate Offsets (X,Y)--[8:0-1-8,Edge], [9:0-1-8,Edge] LOADING (psf) SPACING-DEFL. **PLATES** (loc) I/defI L/d 40.0 Plate Grip DOL 0.10 **TCLL** 1.00 TC Vert(LL) -0.01 7-8 >999 480 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.00 ВС 0.15 Vert(CT) -0.01 9-10 >999 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.10 Horz(CT) 0.00 n/a n/a BCDL Code IRC2015/TPI2014 FT = 20%F, 11%E Matrix-S Weight: 34 lb 5.0

BOT CHORD

6-0-8

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) BOT CHORD WEBS 2x4 SP No.3(flat)

0-1-8

REACTIONS. (lb/size) 10=312/0-5-8, 7=312/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-452/0, 3-4=-452/0, 4-5=-452/0 **BOT CHORD** 9-10=0/331, 8-9=0/452, 7-8=0/331 **WEBS** 2-10=-412/0, 5-7=-412/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

November 18,2019



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Job Truss Truss Type Qty Ply HERRING 139310855 Master FT F05G ROOF TRUSS | Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:11 2019 Page 1

Builders FirstSource,

0-1-8

Apex, NC - 27523,

ID:roHhUsgqWusUxq3sQOAq53yLGQf-xfgy6VGWp62DEQSd9zTWYKD5XPvP6LlkBXi_B1yl?b6

0-1-8

Scale = 1:11.3

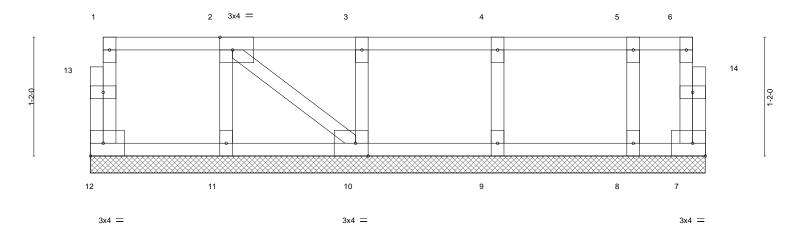


Plate Offsets (X,Y)--[2:0-1-8,Edge], [10:0-1-8,Edge] DEFL. **PLATES** GRIP LOADING (psf) SPACINGin I/defI L/d (loc) 40.0 **TCLL** Plate Grip DOL 1.00 TC 0.09 Vert(LL) n/a 999 MT20 244/190 n/a **TCDL** 10.0 Lumber DOL 1.00 ВС 0.01 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr NO WB 0.03 0.00 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20%F, 11%E BCDL Matrix-P Weight: 30 lb 5.0

6-0-8

LUMBER-

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat) **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. All bearings 6-0-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019



Job Truss Truss Type Qty Ply HERRING 139310856 F07 ROOF TRUSS Master FT

Builders FirstSource, Apex, NC - 27523,

| Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:11 2019 Page 1 ID:roHhUsgqWusUxq3sQOAq53yLGQf-xfgy6VGWp62DEQSd9zTWYKDzVPjn6CckBXi_B1yl?b6

0-1-8 H | 1-3-0

0-1-8 Scale: 3/8"=1

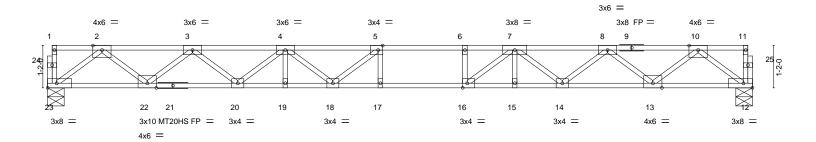


Plate Offsets (X,Y)--[5:0-1-8,Edge], [16:0-1-8,Edge] LOADING (psf) SPACING-DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.61 Vert(LL) -0.39 17 >598 480 MT20 244/190 **TCDL** 10.0 Lumber DOL 1.00 ВС 0.82 Vert(CT) -0.53 17 >435 360 MT20HS 187/143 **BCLL** Rep Stress Incr YES WB 0.59 0.08 12 0.0 Horz(CT) n/a n/a Code IRC2015/TPI2014 **BCDL** FT = 20%F. 11%E 5.0 Matrix-S Weight: 98 lb

LUMBER-

TOP CHORD 2x4 SP SS(flat) BOT CHORD 2x4 SP SS(flat)

WEBS 2x4 SP No.3(flat) **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (lb/size) 23=1050/0-5-8, 12=1050/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2262/0, 3-4=-3774/0, 4-5=-4638/0, 5-6=-4800/0, 6-7=-4800/0, 7-8=-3763/0,

8-10=-2265/0

BOT CHORD $22 - 23 = 0/1321,\ 20 - 22 = 0/3170,\ 19 - 20 = 0/4378,\ 18 - 19 = 0/4378,\ 17 - 18 = 0/4800,\ 16 - 17 = 0/4800,\ 18 - 19 = 0$ 15-16=0/4334, 14-15=0/4334, 13-14=0/3180, 12-13=0/1318

 $2-23 = -1654/0, \ 2-22 = 0/1225, \ 3-22 = -1182/0, \ 3-20 = 0/787, \ 4-20 = -771/0, \ 4-18 = 0/471, \ 4-18 =$

5-18=-580/170, 10-12=-1650/0, 10-13=0/1233, 8-13=-1191/0, 8-14=0/759, 7-14=-728/0,

7-16=-12/965, 6-16=-327/0

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	HERRING
Master FT	F07G	ROOF TRUSS	1	1	I39310858
madior_r :					Job Reference (optional)

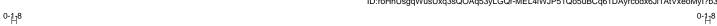
8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:14 2019 Page 1 ID:roHhUsgqWusUxq3sQOAq53yLGQf-MEL4IWJP51Qo5uBCq61DAyrcodx6Ji1AtVxeoMyl?b3

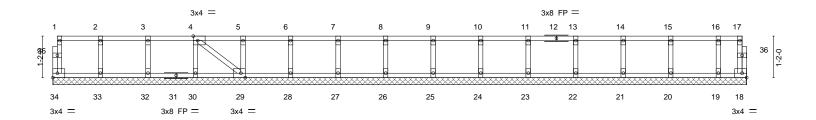
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Scale: 3/8"=1'





FI + 0% + 0/10	19-5-8 19-5-8 late Offsets (X,Y) [4:0-1-8.Edge], [29:0-1-8,Edge]											
Plate Offsets (X,Y) [4:0-1-8,Eagej, [29:0-1-8,	,Eagej	_									
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	` -	n/a	999	MT20	244/190	
TCDL 10.0	Lumber DOL	1.00	ВС	0.01	Vert(CT)	n/a	-	n/a	999			
BCLL 0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	18	n/a	n/a			
BCDL 5.0	Code IRC2015/TF	PI2014	Matri	x-S	' '					Weight: 84 lb	FT = 20%F, 11%E	
BCDL 5.0	Code IRC2015/TF	PI2014	Matri	x-S	BRACING-					Weight: 84 lb	FT = 20%	

TOP CHORD

BOT CHORD

WEBS 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat)

2x4 SP No.2(flat)

2x4 SP No.2(flat)

REACTIONS. All bearings 19-5-8. (lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20,

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

TOP CHORD

BOT CHORD

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019



🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty HERRING 139310859 Master FT F08G ROOF TRUSS

Builders FirstSource,

0-1-8

Apex, NC - 27523,

| Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:14 2019 Page 1 ID:roHhUsgqWusUxq3sQOAq53yLGQf-MEL4IWJP51Qo5uBCq61DAyrcjdx?Ji?AtVxeoMyl?b3

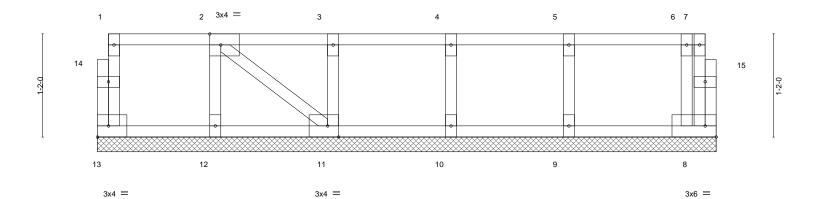
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8

Scale = 1:13.0



	-					7-0-0 7-0-0						
Plate Offse	ets (X,Y)	[2:0-1-8,Edge], [11:0-1-8,	Edge]			7 0 0						
LOADING TCLL TCDL	40.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI. TC BC	0.10 0.02	DEFL. Vert(LL) Vert(CT)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 5.0	Rep Stress Incr Code IRC2015/TF	NO PI2014	WB Matri	0.03 x-S	Horz(CT)	0.00	8	n/a	n/a	Weight: 34 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat)

REACTIONS. All bearings 7-0-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 13, 8, 12, 11, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty HERRING 139310860 Master FT F09 ROOF TRUSS | Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:15 2019 Page 1

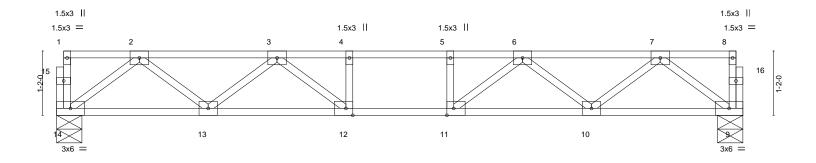
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





2-9-0				12-5-8					
2-9-0	6-11-8							2-9-0	ı
11:0-1-8,Edge], [12:0-1-	8,Edge]								
SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.09 12-13	>999	480	MT20	244/190
Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.12 12-13	>999	360		
Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.03 9	n/a	n/a		
Code IRC2015/TF	PI2014	Matrix-	·S					Weight: 63 lb	FT = 20%F, 11%E
2	2-9-0 11:0-1-8,Edge], [12:0-1- SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-9-0 11:0-1-8,Edge], [12:0-1-8,Edge] SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00	2-9-0 11:0-1-8,Edge], [12:0-1-8,Edge] SPACING- 2-0-0 CSI. Plate Grip DOL 1.00 TC Lumber DOL 1.00 BC Rep Stress Incr YES WB	2-9-0 11:0-1-8,Edge], [12:0-1-8,Edge] SPACING- 2-0-0 CSI. Plate Grip DOL 1.00 TC 0.40 Lumber DOL 1.00 BC 0.58 Rep Stress Incr YES WB 0.29	2-9-0 6-11-8 11:0-1-8,Edge], [12:0-1-8,Edge] SPACING- 2-0-0 CSI. DEFL. Plate Grip DOL 1.00 TC 0.40 Vert(LL) Lumber DOL 1.00 BC 0.58 Vert(CT) Rep Stress Incr YES WB 0.29 Horz(CT)	2-9-0 6-11-8 11:0-1-8,Edge], [12:0-1-8,Edge] SPACING- 2-0-0 CSI. DEFL. in (loc) Plate Grip DOL 1.00 TC 0.40 Vert(LL) -0.09 12-13 Lumber DOL 1.00 BC 0.58 Vert(CT) -0.12 12-13 Rep Stress Incr YES WB 0.29 Horz(CT) 0.03 9	2-9-0 6-11-8 11:0-1-8,Edge], [12:0-1-8,Edge] SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl Plate Grip DOL 1.00 TC 0.40 Vert(LL) -0.09 12-13 >999 Lumber DOL 1.00 BC 0.58 Vert(CT) -0.12 12-13 >999 Rep Stress Incr YES WB 0.29 Horz(CT) 0.03 9 n/a	2-9-0 6-11-8 11:0-1-8,Edge], [12:0-1-8,Edge] SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d Plate Grip DOL 1.00 TC 0.40 Vert(LL) -0.09 12-13 >999 480 Lumber DOL 1.00 BC 0.58 Vert(CT) -0.12 12-13 >999 360 Rep Stress Incr YES WB 0.29 Horz(CT) 0.03 9 n/a n/a	2-9-0 11:0-1-8,Edge], [12:0-1-8,Edge] SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES Plate Grip DOL 1.00 TC 0.40 Vert(LL) -0.09 12-13 >999 480 MT20 Lumber DOL 1.00 BC 0.58 Vert(CT) -0.12 12-13 >999 360 Rep Stress Incr YES WB 0.29 Horz(CT) 0.03 9 n/a n/a

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (lb/size) 14=665/0-5-8, 9=665/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1294/0, 3-4=-1934/0, 4-5=-1934/0, 5-6=-1934/0, 6-7=-1294/0 TOP CHORD **BOT CHORD**

13-14=0/820, 12-13=0/1732, 11-12=0/1934, 10-11=0/1732, 9-10=0/820 7-9=-1026/0, 2-14=-1026/0, 7-10=0/616, 2-13=0/616, 6-10=-571/0, 3-13=-571/0, 6-11=0/453, 3-12=0/453 WEBS

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



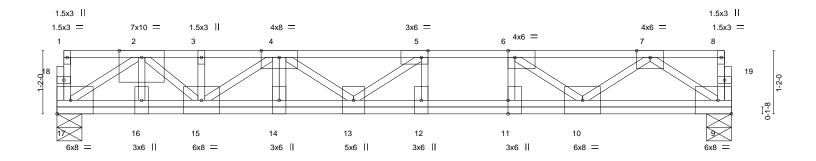
Job Truss Truss Type Qty Ply HERRING 139310861 Master FT F09GR ROOF TRUSS | Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:16 2019 Page 1

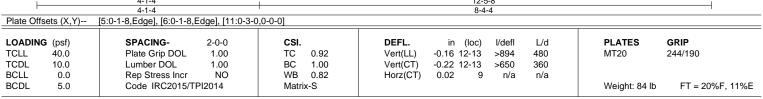
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0-1-8 Scale = 1:21.3





LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (lb/size) 17=1794/0-5-8, 9=1018/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3539/0, 3-4=-3539/0, 4-5=-4419/0, 5-6=-3601/0, 6-7=-2198/0

BOT CHORD 16-17=0/2259, 15-16=0/2248, 14-15=0/4753, 13-14=0/4753, 12-13=0/3601, 11-12=0/3601, 10-11=0/3601, 9-10=0/1338 **WEBS**

 $2-17 = -2646/0,\ 4-15 = -1469/0,\ 3-15 = -314/0,\ 7-9 = -1592/0,\ 7-10 = 0/1097,\ 6-10 = -1751/0,\ 4-13 = -476/0,\ 5-13 = 0/1182,\ 5-13 = 0/$

5-12=-834/0, 6-11=0/853, 2-15=0/1726

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 700 lb down at 4-1-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 9-17=-10, 1-4=-300(F=-200), 4-8=-100

Concentrated Loads (lb) Vert: 4=-700(F)



November 18,2019



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty HERRING 139310862 Master FT F10GR ROOF TRUSS | Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:17 2019 Page 1 Builders FirstSource, Apex, NC - 27523, ID:roHhUsgqWusUxq3sQOAq53yLGQf-mp1DNYLHOypNyLvnWEawobT_tqu7W?8dZT9lPhyl?b0 0-1-8 0<u>-1-8</u> Scale = 1:10.6 1-3-0 1 1.5x3 II 2 3x6 = 113 1.5x3 || 4 3x6 = 5 1.5x3 || 9 10 -5-0 1.5x3 = 1.5x3 = 3x6 =3x6 = 3x6 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) **TCLL** Plate Grip DOL 1.00 Vert(LL) -0.01 >999 244/190 40.0 TC 0.61 480 MT20 **TCDL** 10.0 Lumber DOL 1.00 ВС 0.31 Vert(CT) -0.02 >999 360 **BCLL** 0.0 Rep Stress Incr NO WB 0.26 Horz(CT) 0.01 6 n/a n/a Code IRC2015/TPI2014 BCDL 5.0 Matrix-P Weight: 32 lb FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) BOT CHORD

WEBS 2x4 SP No.3(flat) BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins,

except end verticals

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (lb/size) 8=689/Mechanical, 6=752/0-3-0

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1072/0, 3-4=-1072/0 **BOT CHORD** 7-8=0/865, 6-7=0/899

WEBS 4-6=-1124/0, 2-8=-1083/0, 3-7=-272/0, 2-7=0/265

NOTES-

- 1) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 431 lb down at 1-10-12, and 431 lb down at 3-10-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 6-8=-10, 1-5=-100 Concentrated Loads (lb)

Vert: 4=-431(F) 11=-431(F)



November 18,2019



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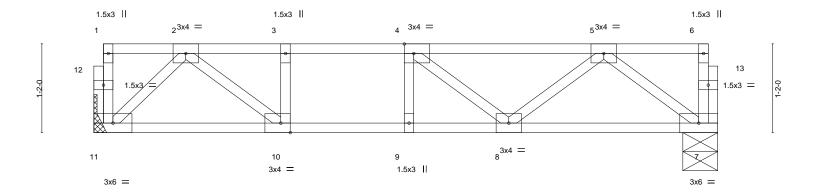
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.



0₁1-8 Scale = 1:15.2



	-	5-5-8 5-5-8							+			
Plate Offs	ets (X,Y)	[4:0-1-8,Edge], [10:0-1-8	,Edge]								2-9-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.05	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.07	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 43 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (lb/size) 11=431/Mechanical, 7=431/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-795/0, 3-4=-795/0, 4-5=-702/0 TOP CHORD

BOT CHORD 10-11=0/403, 9-10=0/795, 8-9=0/795, 7-8=0/529

5-7=-662/0, 2-11=-555/0, 2-10=0/502 WEBS

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019



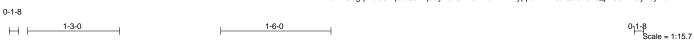


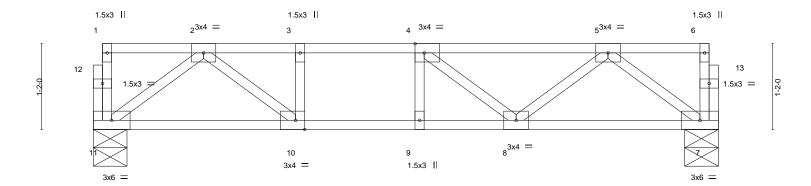
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





	5-9-0			
4:0-1-8,Edge], [10:0-1-8,Edge]			200	
SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d PI	_ATES GRIP
Plate Grip DOL 1.00	TC 0.37	Vert(LL) -0.05 8-9	>999 480 M	T20 244/190
Lumber DOL 1.00	BC 0.56	Vert(CT) -0.07 8-9	>999 360	
Rep Stress Incr YES	WB 0.23	Horz(CT) 0.01 7	n/a n/a	
Code IRC2015/TPI2014	Matrix-S		W	eight: 44 lb FT = 20%F, 11%E
	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	5-9-0 4:0-1-8,Edge], [10:0-1-8,Edge] SPACING- 2-0-0 CSI. Plate Grip DOL 1.00 TC 0.37 Lumber DOL 1.00 BC 0.56 Rep Stress Incr YES WB 0.23	5-9-0 SPACING- 2-0-0 CSI. DEFL. in (loc)	SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PI

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat)

REACTIONS. (lb/size) 11=448/0-5-8, 7=448/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-867/0, 3-4=-867/0, 4-5=-743/0 TOP CHORD

BOT CHORD 10-11=0/513, 9-10=0/867, 8-9=0/867, 7-8=0/548 WEBS 5-7=-685/0, 2-11=-639/0, 5-8=0/254, 2-10=0/473

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019

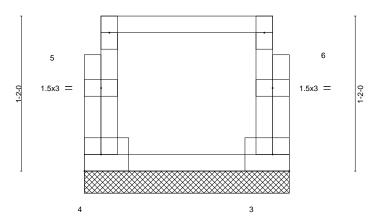


Job Truss Truss Type Qty HERRING 139310865 Master FT F13G ROOF TRUSS Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:21 2019 Page 1

Builders FirstSource, Apex, NC - 27523, ID:roHhUsgqWusUxq3sQOAq53yLGQf-faGkDwOoSAJpRyDYI4fsyRdo1RJhStFCU57VXSyI?ay



Scale = 1:8.7



3x4 = 3x4 =

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a		n/a	999	
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL	5.0	Code IRC2015/TI	PI2014	Matr	ix-R						

PLATES GRIP MT20 244/190

FT = 20%F, 11%E Weight: 9 lb

LUMBER-

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) BOT CHORD

WEBS 2x4 SP No.3(flat) BRACING-TOP CHORD

Structural wood sheathing directly applied or 1-6-8 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (lb/size) 4=65/1-6-8, 3=65/1-6-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Gable requires continuous bottom chord bearing.
- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.
- 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019



Job	Truss	Truss Type	Qty	Ply	HERRING
Master FT	F14	ROOF TRUSS	1	1	I39310866
madior_r :					Job Reference (optional)

Apex, NC - 27523, Builders FirstSource,

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:22 2019 Page 1 ID:roHhUsgqWusUxq3sQOAq53yLGQf-7nq6QGPQDURf26oklnA5VeAuZrWsBBBMjlt33vyl?ax

Structural wood sheathing directly applied or 6-0-0 oc purlins,

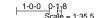
Rigid ceiling directly applied or 10-0-0 oc bracing.

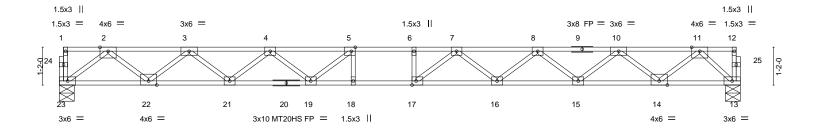
except end verticals.

0-1-8









2-9-0 2-9-0	5-3-0	7-9-0		13-6-0		16-0-0		18-6-0	21-0-0
	2-6-0	2-6-0		5-9-0		2-6-0		2-6-0	2-6-0
Plate Offsets (X,Y)	[5:0-1-8,Edge], [17:0-1-8,Edge]	igej							
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc	c) I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.42	Vert(LL)	-0.39 1	7 >643	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.59	Vert(CT)	-0.53 1	7 >466	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.08 1	3 n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2	014	Matrix-S					Weight: 104 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP SS(flat)

2x4 SP SS(flat)

BOT CHORD WEBS 2x4 SP No.3(flat)

REACTIONS. (lb/size) 23=907/0-5-8, 13=907/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-1979/0, 3-4=-3348/0, 4-5=-4184/0, 5-6=-4498/0, 6-7=-4498/0, 7-8=-4127/0, TOP CHORD 8-10=-3235/0, 10-11=-1813/0

 $22 - 23 = 0/1144,\ 21 - 22 = 0/2787,\ 19 - 21 = 0/3884,\ 18 - 19 = 0/4498,\ 17 - 18 = 0/4498,\ 16 - 17 = 0/4418,$

BOT CHORD 15-16=0/3803, 14-15=0/2647, 13-14=0/954

11-13=-1299/0, 2-23=-1433/0, 11-14=0/1119, 2-22=0/1086, 10-14=-1085/0, 3-22=-1052/0, 10-15=0/765, 3-21=0/730, 8-15=-739/0, 4-21=-697/0, 8-16=0/423,

4-19=0/499, 7-16=-403/0, 5-19=-625/7, 7-17=-233/474

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

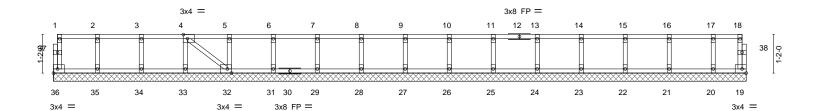


Job	Truss	Truss Type	Qty	Ply	HERRING
Master FT	F14G	ROOF TRUSS	1	1	I39310868
madior_r :					Job Reference (optional)

0-1_H8

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:25 2019 Page 1 ID:roHhUsgqWusUxq3sQOAq53yLGQf-XMWE2HRIWPpEvaWJ_vko7HoU12hhOgloPi5jgDyl?au

Scale = 1:34.9



—	21-0-0 21-0-0											
Plate Offsets (X,Y) [4:0-1-8,Edge], [32:0-1-8,Edge]												
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	19	n/a	n/a		
BCDL	5.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 90 lb	FT = 20%F, 11%E
						Horz(CT)	0.00	19	n/a	n/a	Weight: 90 lb	FT = 20%F, 1°

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.2(flat) except end verticals.

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3(flat)

REACTIONS. All bearings 21-0-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 33, 32, 31, 29, 28, 27, 26, 25, 24, 23, 22,

21, 20

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019



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Job	Truss	Truss Type	Qty	Ply	HERRING
Master_FT	F16G	ROOF TRUSS	1	1	139310870
					Job Reference (optional)

19

0-1-8

20

3x4 =

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 18 08:29:28 2019 Page 1 ID:roHhUsgqWusUxq3sQOAq53yLGQf-xxBNhJUBoKBpn1Fuf2HVkvQ?FGiOb1VE5gKNHYyl?ar

13

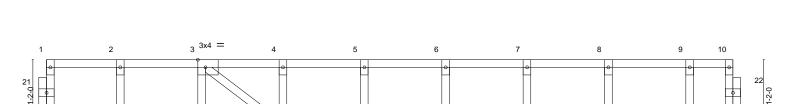
Structural wood sheathing directly applied or 6-0-0 oc purlins,

12

11

3x4 =

Scale = 1:18.9



15



16

Plate Off	sets (X,Y)	[3:0-1-8,Edge], [17:0-1-8	s,Edge]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matri	x-S						Weight: 52 lb	FT = 20%F, 11%E

TOP CHORD

LUMBER-**BRACING-**

2x4 SP No.2(flat) TOP CHORD BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat)

18

17

3x4 =

except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

14

REACTIONS. All bearings 11-6-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 18,2019



Job	Truss	Truss Type	Qty	Ply	HERRING
Master_FTD	F01A	ROOF TRUSS	1	1	I39408071
					Job Reference (optional)

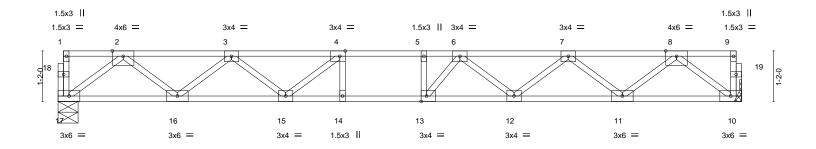
Apex, NC - 27523, Builders FirstSource,

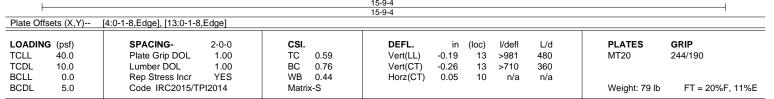
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Structural wood sheathing directly applied or 6-0-0 oc purlins,



0-1-8 Scale = 1:26.6





TOP CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.1(flat) WEBS

except end verticals. 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (lb/size) 17=847/0-5-8, 10=847/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1756/0, 3-4=-2774/0, 4-5=-3138/0, 5-6=-3138/0, 6-7=-2776/0, 7-8=-1755/0 BOT CHORD

 $16-17=0/1055,\ 15-16=0/2421,\ 14-15=0/3138,\ 13-14=0/3138,\ 12-13=0/3093,\ 11-12=0/2425,\ 10-11=0/1053$ **WEBS**

8-10=-1319/0, 2-17=-1320/0, 8-11=0/914, 2-16=0/913, 7-11=-872/0, 3-16=-865/0, 7-12=0/458, 3-15=0/509,

6-12=-419/0, 4-15=-618/0, 6-13=-204/417

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 25,2019



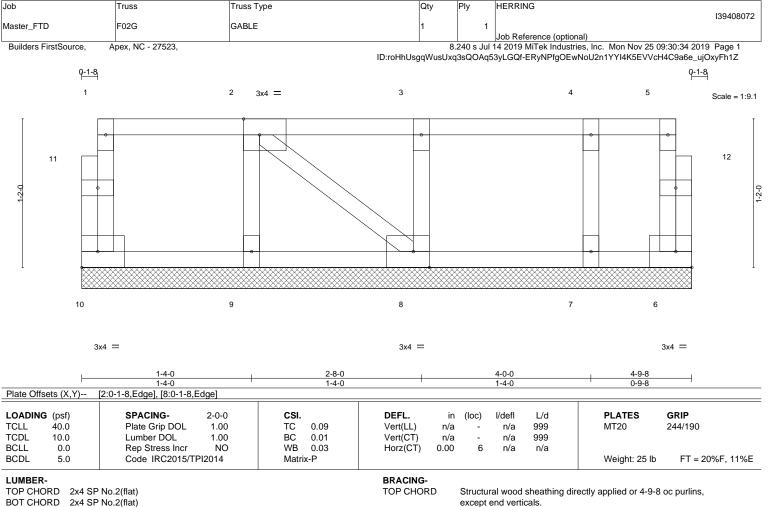
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.





BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing

WEBS 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat)

REACTIONS. All bearings 4-9-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7 FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 25,2019



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Job	Truss	Truss Type	Qty	Ply	HERRING
Master_FTD	F07A	ROOF TRUSS	1	1	I39408073
madici 2		The state of the s			Job Reference (optional)

8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 09:30:35 2019 Page 1 ID:roHhUsgqWusUxq3sQOAq53yLGQf-jdWlc?h0?DVf6CMD6FpJsInZm?RDxT3FseeGwNyFh1Y

0-1-8 H 1-0-4 1-3-0

2-2-8

0-1-8 Scale = 1:31.7

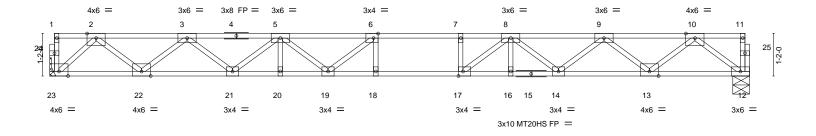


Plate Offsets (X,Y)--[6:0-1-8,Edge], [17:0-1-8,Edge] LOADING (psf) SPACING-DEFL. (loc) I/defl L/d **PLATES** GRIP **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.57 Vert(LL) -0.36 >628 480 MT20 244/190 18 **TCDL** 10.0 Lumber DOL 1.00 ВС 0.78 Vert(CT) -0.50 18 >457 360 MT20HS 187/143 **BCLL** Rep Stress Incr YES WB 0.59 0.08 12 0.0 Horz(CT) n/a n/a Code IRC2015/TPI2014 **BCDL** FT = 20%F. 11%E 5.0 Matrix-S Weight: 97 lb

LUMBER-

TOP CHORD 2x4 SP SS(flat) BOT CHORD 2x4 SP SS(flat)

WEBS 2x4 SP No.3(flat) **BRACING-**TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (lb/size) 23=1038/Mechanical, 12=1038/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2062/0, 3-5=-3604/0, 5-6=-4500/0, 6-7=-4691/0, 7-8=-4691/0, 8-9=-3702/0,

9-10=-2234/0

BOT CHORD $22 - 23 = 0/1107, \ 21 - 22 = 0/2986, \ 20 - 21 = 0/4223, \ 19 - 20 = 0/4223, \ 18 - 19 = 0/4691, \ 17 - 18 = 0/4691, \ 10 -$

 $16\text{-}17\text{=}0/4260,\ 14\text{-}16\text{=}0/4260,\ 13\text{-}14\text{=}0/3133,\ 12\text{-}13\text{=}0/1301$

WEBS 2-23=-1494/0, 2-22=0/1244, 3-22=-1202/0, 3-21=0/805, 5-21=-790/0, 5-19=0/481,

6-19=-598/137, 10-12=-1630/0, 10-13=0/1213, 9-13=-1171/0, 9-14=0/740, 8-14=-712/0,

8-17=-32/928, 7-17=-317/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated. 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 25,2019



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ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qua
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job Truss Truss Type Qty HERRING 139408074 F14A ROOF TRUSS Master FTD Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 09:30:36 2019 Page 1

Builders FirstSource, Apex, NC - 27523,

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0-1-8

1-9-0

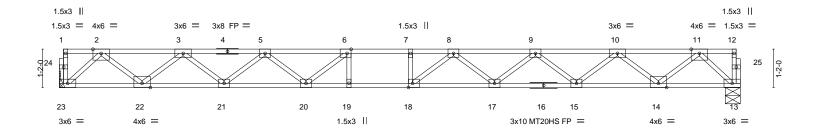


Plate Offsets (X,Y)--[6:0-1-8,Edge], [18:0-1-8,Edge] LOADING (psf) SPACING-DEFL. (loc) L/d **PLATES** GRIP -0.37 244/190 **TCLL** 40.0 Plate Grip DOL 1.00 TC 0.43 Vert(LL) >658 480 MT20 18 **TCDL** 10.0 Lumber DOL 1.00 ВС 0.60 Vert(CT) -0.52 17-18 >477 360 MT20HS 187/143 **BCLL** Rep Stress Incr YES WB 0.53 0.08 0.0 Horz(CT) 13 n/a n/a Code IRC2015/TPI2014 **BCDL** FT = 20%F. 11%E 5.0 Matrix-S Weight: 103 lb

LUMBER-

TOP CHORD 2x4 SP SS(flat) BOT CHORD 2x4 SP SS(flat)

WEBS 2x4 SP No.3(flat) **BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (lb/size) 13=897/0-5-8, 23=897/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1804/0, 3-5=-3198/0, 5-6=-4059/0, 6-7=-4394/0, 7-8=-4394/0, 8-9=-4058/0,

9-10=-3187/0, 10-11=-1791/0

BOT CHORD $22 - 23 = 0/959,\ 21 - 22 = 0/2625,\ 20 - 21 = 0/3744,\ 19 - 20 = 0/4394,\ 18 - 19 = 0/4394,\ 17 - 18 = 0/4334,\ 18 - 19 = 0/4394,\ 18 - 19 = 0/$ 15-17=0/3744, 14-15=0/2612, 13-14=0/943

11-13=-1284/0, 2-23=-1294/0, 11-14=0/1103, 2-22=0/1101, 10-14=-1069/0,

3-22=-1069/0, 10-15=0/749, 3-21=0/745, 9-15=-724/0, 5-21=-711/0, 9-17=0/409, 5-20=0/508, 8-17=-388/0, 6-20=-639/0, 8-18=-247/452

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



November 25,2019





Job Truss Truss Type Qty HERRING 139408075 Master FTD F15GR ROOF TRUSS | Job Reference (optional) 8.240 s Jul 14 2019 MiTek Industries, Inc. Mon Nov 25 09:30:36 2019 Page 1 Builders FirstSource, Apex, NC - 27523,

> 1-3-0 1-11-0

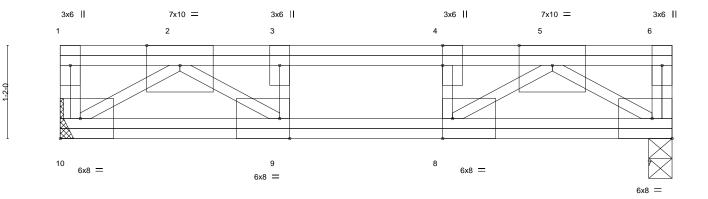
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ID:roHhUsgqWusUxq3sQOAq53yLGQf-Bq47qKiemXdWjMxQgzKYPWKpxPvFgtgP5INqSqyFh1X

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



	—		7-8-0 7-8-0										
Plate Offsets (X,Y) [4:0-3-0,0-0-0], [8:0-1-8,Edge], [9:0-1-8,Edge]													
LOADING TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 NO	CSI. TC BC WB	0.22 0.29 0.83	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.06 0.01	(loc) 9 8-9	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20	GRIP 244/190	
BCDL	5.0	Code IRC2015/Ti		Matri		11012(01)	0.01	•	11/4	11/4	Weight: 60 lb	FT = 20%F, 11%E	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP SS(flat)

BOT CHORD 2x4 SP SS(flat) WEBS 2x4 SP No.3(flat)

REACTIONS. (lb/size) 10=1891/Mechanical, 7=1891/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-10=-310/0, 6-7=-310/0, 2-3=-3594/0, 3-4=-3594/0, 4-5=-3594/0 TOP CHORD

BOT CHORD 9-10=0/2328, 8-9=0/3594, 7-8=0/2328

 $2\text{-}10\text{=-}2798/0,\ 2\text{-}9\text{=-}0/1733,\ 5\text{-}7\text{=-}2798/0,\ 5\text{-}8\text{=-}0/1733,\ 3\text{-}9\text{=-}876/0,\ 4\text{-}8\text{=-}876/0}$ WEBS

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 7-10=-10, 1-6=-500(F=-400)



November 25,2019

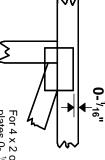


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ^{1/16}" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

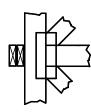
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



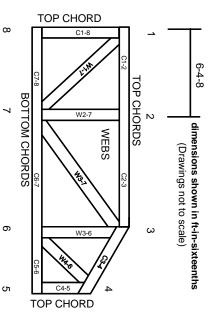
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing. Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.