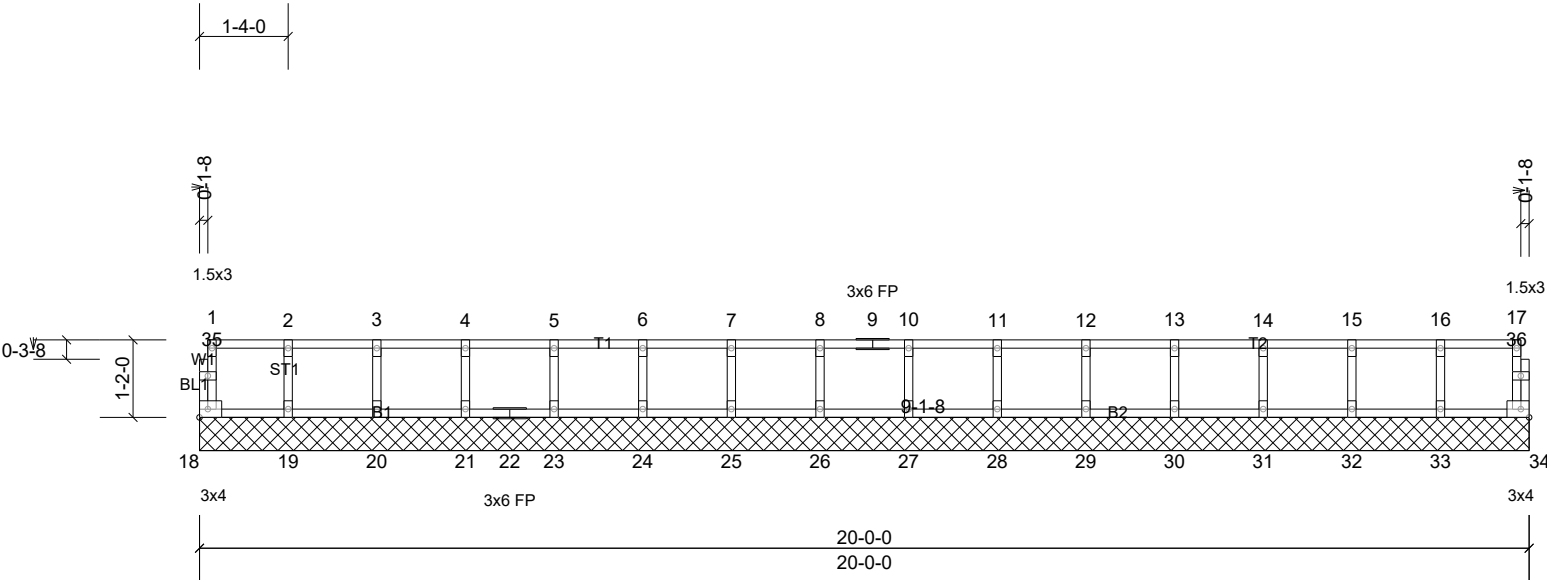


Job	Truss	Truss Type	Qty	Ply	109-25-129 COX109-25-129 COX
250593-B	ET1	GABLE	1	1	Job Reference (optional)



Scale = 1:34.8

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	34	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 83 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(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 20-0-0.

(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34

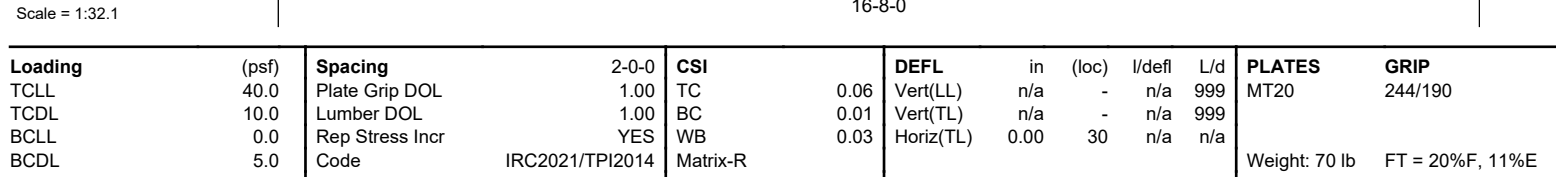
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard

Comtech, Inc., Fayetteville, NC 28309, user Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Mon Aug 18 16:29:02 Page: 1
ID:yM8NdNVZ6vP2wgkR6uNImKzKHmz-kJGkkOvfK07u38hNJvsQ02foTjdUIUJAXtL28hyma1o



NOTES

- 1) All plates are 1.5x3 (||) MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard

Job 250593-B	Truss F1	Truss Type FLOOR	Qty 9	Ply 1	109-25-129 COX109-25-129 COX Job Reference (optional)
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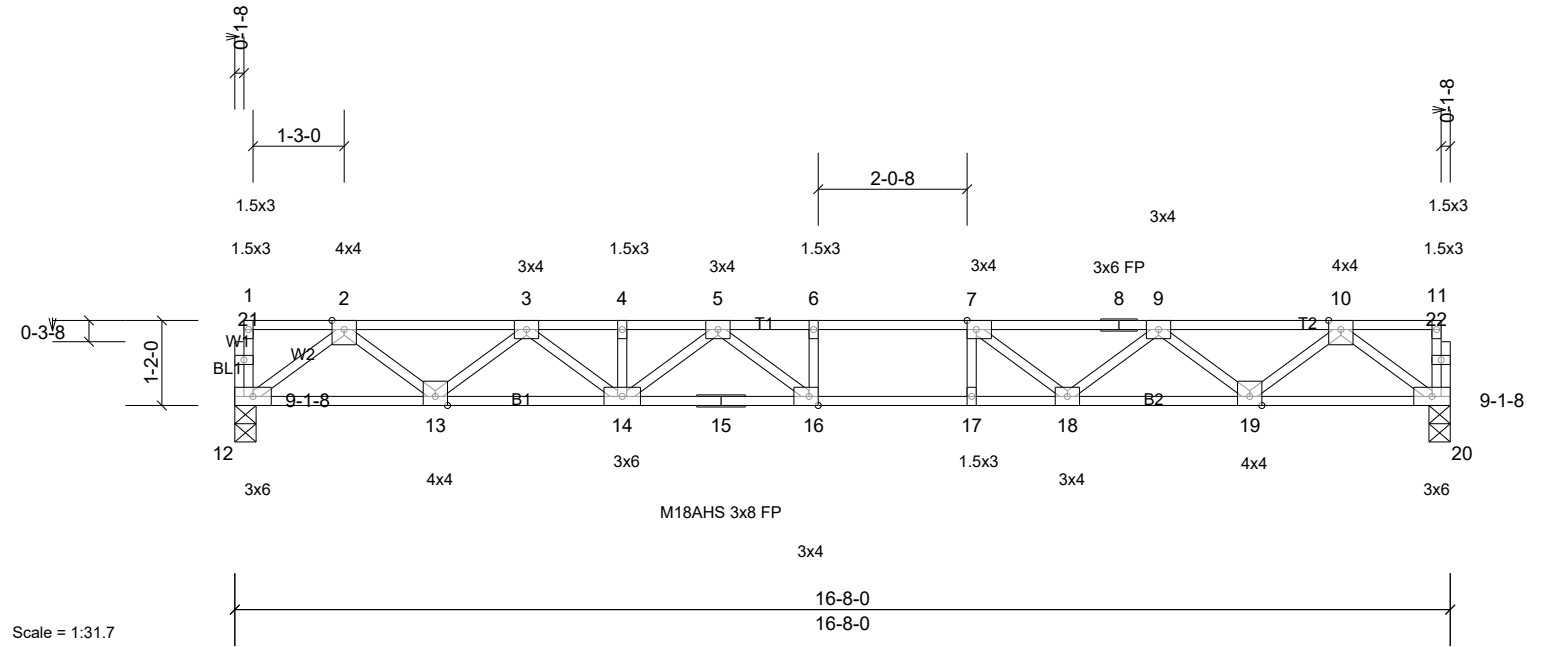


Plate Offsets (X, Y): [7:0-1-8,Edge], [16:0-1-8,Edge]

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	0.60	Vert(LL)	-0.25	14-16	>777	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.35	14-16	>567	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	20	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 84 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP No.1(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, Except: 2-2-0 oc bracing: 14-16,16-17.

REACTIONS (lb/size) 12=897/0-3-8, (min. 0-1-8), 20=897/0-3-8, (min. 0-1-8)

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

TOP CHORD 2-3=-1872/0, 3-4=-3077/0, 4-5=-3077/0, 5-6=-3492/0, 6-7=-3492/0, 7-8=-3020/0, 8-9=-3020/0, 9-10=-1878/0

BOT CHORD 12-13=0/1122, 13-14=0/2595, 14-15=0/3395, 15-16=0/3395, 16-17=0/3492, 17-18=0/3492, 18-19=0/2595, 19-20=0/1122

WEBS 2-12=-1405/0, 2-13=0/977, 3-13=-941/0, 3-14=0/615, 5-14=-406/0, 5-16=-175/488, 10-20=-1405/0, 10-19=0/984, 9-19=-933/0, 9-18=0/602, 7-18=-760/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard

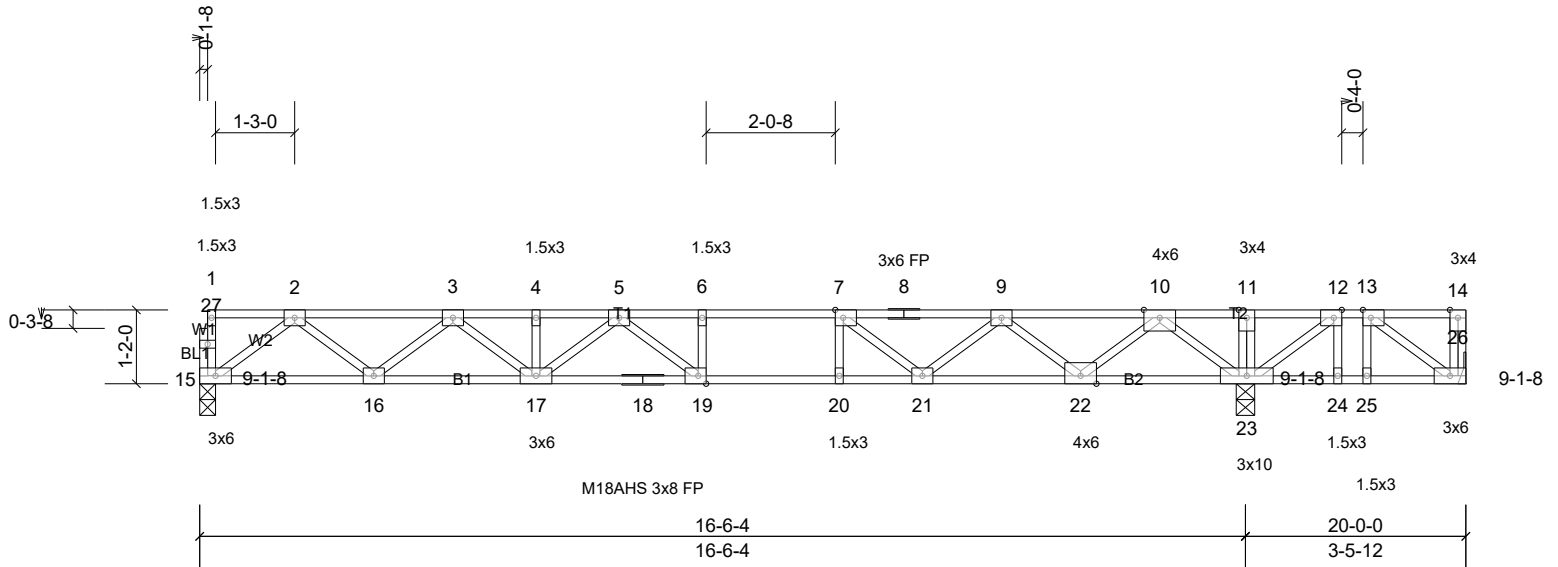
Job	Truss	Truss Type	Qty	Ply	109-25-129 COX109-25-129 COX
250593-B	F2	Floor	8	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, user

Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Mon Aug 18 16:29:02

Page: 1

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Scale = 1:36.6									
Plate Offsets (X, Y): [7:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [19:0-1-8,Edge]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	PLATES
TCLL	40.0	Plate Grip DOL	1.00	TC	0.60	Vert(LL)	-0.24	17-19	M18AHS
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.32	17-19	MT20
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	23	
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S					
									GRIP
									186/179
									244/190
									Weight: 104 lb
									FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except* B2:2x4 SP 2400F
2.0E(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 6-0-0 oc
bracing.

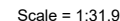
REACTIONS (lb/size) 15=789/0-3-0, (min. 0-1-8),
23=1725/0-3-8, (min. 0-1-8),
26=-348/ Mechanical
Max Uplift 26=-478 (LC 3)
Max Grav 15=790 (LC 10), 23=1725 (LC 1),
26=38 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.
TOP CHORD 2-3=-1602/0, 3-4=-2559/0, 4-5=-2559/0,
5-6=-2591/0, 6-7=-2591/0, 7-8=-1874/0,
8-9=-1874/0, 9-10=-476/0, 10-11=0/1700,
11-12=0/1700, 12-13=0/798
BOT CHORD 15-16=0/980, 16-17=0/2207, 17-18=0/2726,
18-19=0/2726, 19-20=0/2591, 20-21=0/2591,
21-22=0/1304, 22-23=-468/0, 23-24=-798/0,
24-25=-798/0, 25-26=-798/0
WEBS 2-15=-1227/0, 2-16=0/810, 3-16=-787/0,
3-17=0/450, 5-19=-323/207, 10-23=-1593/0,
10-22=0/1145, 9-22=-1083/0, 9-21=0/747,
7-21=-933/0, 7-20=0/284, 13-26=0/986,
13-25=-351/0, 12-23=-1230/0, 12-24=0/371

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 3x4 (=) MT20 unless otherwise indicated.
4) Plates checked for a plus or minus 1 degree rotation
about its center.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 478 lb uplift at joint
26.

7) Recommend 2x6 strongbacks, on edge, spaced at
10-00-00 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.
8) CAUTION, Do not erect truss backwards.
LOAD CASE(S) Standard

Comtech, Inc., Fayetteville, NC 28309, user Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Mon Aug 18 16:29:02 Page: 1
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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	0.79	Vert(LL)	0.34	19	>578	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	0.40	19	>492	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	-0.10	23	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 114 lb	FT = 20%F, 11%E

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-9-10 oc bracing.

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

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1222 lb uplift at joint 15 and 1588 lb uplift at joint 23.

- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-00 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.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 578 lb up at 2-0-0, 18 lb down and 578 lb up at 4-0-0, 18 lb down and 578 lb up at 6-0-0, 18 lb down and 578 lb up at 8-0-0, 18 lb down and 578 lb up at 10-0-0, 18 lb down and 578 lb up at 12-0-0, and 18 lb down and 578 lb up at 14-0-0, and 23 lb down and 550 lb up at 16-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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 (lb/ft)
Vert: 15-23=-10, 1-14=-100
Concentrated Loads (lb)
Vert: 11=62 (F), 3=62 (F), 9=62 (F), 7=62 (F), 26=62
(F), 27=62 (F), 28=62 (F), 29=34 (F)