| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|---------------------------|-----|-----|----------------------------------|
| 2860207 | GE01 | Monopitch Supported Gable | 1 | 1 | Job Reference (optional) |

 Run: 8.42 S
 Dec 30 2020 Print: 8.420 S
 Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36
 Page: 1

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- braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | T01 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:9R8SvMM61HbPd?SponKRpWyg4_7-cZdgVHby0uHaGQMXRAENpCdcHu9?zUf7vLs9Hzyg3TY



Scale = 1:39

Plate Offsets (X, Y): [3:0-3-0,Edge], [8:0-4-0,0-2-0], [10:0-3-8,0-2-8]

| Loading TCLL (roof) | (psf) 30.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | CSI TC | 0.89 | DEFL Vert(LL) | in -0.19 | (loc) 8-10 | l/defl >999 | L/d 240 | PLATES MT20 | GRIP 197/144 |
|---|---|--|--|--|---------------------------------------|--|-------------|---------------|----------------|------------|----------------|------------------------|
| BCLI | 20.0 | Ren Stress Incr | 1.15 YES | WB | 0.04 | Horiz(TL) | -0.51 | 7-0 | >404 n/a | 100 n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | Matrix-S | 0.74 | | 0.00 | , | 174 | Π/α | Weight: 79 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 | | 7) This truss is International R802.10.2 a LOAD CASE(S) | designed in acco Residential Cod nd referenced sta Standard | ordance wi e sections andard AN | th the 2009 R502.11.1 a ISI/TPI 1. | and | | | | | |
| BRACING TOP CHORD | Structural wood she | eathing directly applied, | . , | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | / applied or 10-0-0 oc | | | | | | | | | | |
| | MiTek recommends required cross brac truss erection, in ac Installation guide. | s that Stabilizers and cing be installed during ccordance with Stabilize | er | | | | | | | | | |
| REACTIONS | (Ib/size) 7=1223/0 11=1223/ Max Horiz 11=40 (LC Max Uplift 7=-72 (LC | -5-10, (min. 0-1-15), 0-5-8, (min. 0-1-15) C 6) C 6), 11=-70 (LC 4) | | | | | | | | | | |
| FORCES | (lb) - Max. Comp./M (lb) or less except w | ax. Ten All forces 250 /hen shown. | 0 | | | | | | | | | |
| TOP CHORD | 1-11=-1151/102, 1-2 2-3=-3194/168, 3-4= 4-5=-3194/174 | 2=-3052/186, =-3188/170, | | | | | | | | | | |
| BOT CHORD WEBS | 9-10=-196/3045, 8-9 2-10=-701/122, 1-10 4-8=-625/120, 5-8=- | 9=-196/3045, 7-8=-98/9)=-178/3018, ·82/2329, 5-7=-1577/15 | 81 | | | | | | | | | |
| | nd roof live loads have | been considered for th | hie | | | | | | | | | |
| design. | | | 115 | | | | | | | | | |
| Wind: ASC h=25ft; Ca exterior zo vertical left grip DOL = | CE 7-05; 90mph; TCD t. II; Exp B; Enclosed; ne; cantilever left and t and right exposed; L 1 60 | L=6.0psf; BCDL=6.0ps ; MWFRS (low-rise) I right exposed ; end .umber DOL=1.60 plate | f; | | | | | | | | | |
| 3) This truss combination multiple combination | has been designed fo ons, which include cas oncurrent live loads. | or basic load ses with reductions for | | | | | | | | | | |
| Provide ad This truss chord live l | lequate drainage to p has been designed fo load nonconcurrent w | revent water ponding. or a 10.0 psf bottom ⁄ith any other live loads. | | | | | | | | | | |
| 6) Provide me bearing pla 11 and 72 | echanical connection ate capable of withsta lb uplift at joint 7. | (by others) of truss to inding 70 lb uplift at join | t | | | | | | | | | |
| | | | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | Т02 | Monopitch | 1 | 1 | Job Reference (optional) |

 Run: 8.42 S
 Dec 30 2020 Print: 8.420 S
 Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36
 Page: 1

 ID:RAVYztCWP5dujPiZkK79TUyg4?c-cZdgVHby0uHaGQMXRAENpCdbLu83zT27vLs9Hzyg3TY



Scale = 1:40.3

| Pla | te Offsets (| (X, Y): [5:0-3-7,0-2-0], | [6:0-3-7,0-2-0], [8:0-3- | 8,0-2-0], [11:0-3-8,0- | 2-8] | | | | | | | | |
|--|--|--|--|---|--|---|--|------------------------------|----------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| Lo: TC TC BC BC | ading LL (roof) DL LL DL | (psf) 30.0 20.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2009/TPI2007 | CSI TC BC WB Matrix-S | 0.95 0.90 0.78 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in -0.22 -0.58 0.06 | (loc) 9-11 9-11 7 | l/defl >999 >442 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 83 lb | GRIP 197/144 FT = 10% |
| LU TO BO WE BR TO BO | MBER P CHORD T CHORD EBS ACING P CHORD T CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she except end verticals Rigid ceiling directly bracing. MiTek recommends required cross brac truss erection, in ac Installation guide. | eathing directly applied, a pplied or 10-0-0 oc s that Stabilizers and cing be installed during scordance with Stabilize | 6) Provide met bearing plat 12 and 75 lt 7) This truss is Internationa R802.10.2 a LOAD CASE(S) | chanical conn e capable of v uplift at joint designed in a I Residential (ind referenced Standard | ection (by oth vithstanding 7 7. accordance wi Code sections I standard AN | ers) of truss 3 lb uplift at hth the 2009 R502.11.1 a ISI/TPI 1. | to joint and | | | | | |
| RE | ACTIONS | (lb/size) 7=1274/0 12=1274/0 Max Horiz 12=40 (LC Max Uplift 7=-75 (LC | -5-10, (min. 0-2-0), 0-5-8, (min. 0-2-0) C 6) C 6) 12=-73 (I C 4) | | | | | | | | | | |
| FO | RCES | (lb) - Max. Comp./M | ax. Ten All forces 250 |) | | | | | | | | | |
| то | P CHORD | (lb) or less except w 1-12=-1204/104, 1-2 2-3=-3493/201, 3-4= | hen shown. 2=-3226/191, =-3487/203, - 1424/84 | | | | | | | | | | |
| во | T CHORD | 4-5 | -10=-202/3220, | | | | | | | | | | |
| WE | BS | 8-9=-84/1429 2-11=-736/130, 1-11 4-9=-637/121, 2-9=- 5-9=-132/2168, 6-8= | I=-183/3198, 15/277, 5-8=-1182/140 114/1930, 6-7=-1275/ | , 77 | | | | | | | | | |
| NO | TES | | | | | | | | | | | | |
| 1) | Unbalance | ed roof live loads have | e been considered for th | nis | | | | | | | | | |
| 2) 3) | design. Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for basic load | | | f; | | | | | | | | | |
| combinations, which include cases with reductions for multiple concurrent live loads | | | | | | | | | | | | | |
| Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. | | | | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | Т03 | Monopitch | 1 | 1 | Job Reference (optional) |

 Run: 8.42 S
 Dec 30 2020 Print: 8.420 S
 Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36
 Page: 1

 ID:BdHsNMUuXf3PXB61Dk241qyg40Y-cZdgVHby0uHaGQMXRAENpCdaYu8RzTG7vLs9Hzyg3TY



Scale = 1:41.5

Plate Offsets (X, Y): [5:0-3-7,0-2-0], [6:0-3-7,0-2-0], [8:0-3-8,0-2-0], [11:0-3-0,0-2-12]

| Loading TCLL (roof) | (psf) 30.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | CSI TC | 1.00 | DEFL Vert(LL) | in -0.25 | (loc) 9-11 | l/defl >999 | L/d 240 | PLATES MT20 | GRIP 197/144 |
|---|--|---|---|---|---|---|--------------------|---------------|----------------|------------|----------------|------------------------|
| TCDL | 20.0 | | 1.15 | BC | 0.94 | ven(IL) | -0.64 | 9-11 | >413 | 180 | | |
| BCDL | 0.0 10.0 | Rep Stress Incr Code | YES IRC2009/TPI2007 | WB Matrix-S | 0.83 | Horiz(IL) | 0.07 | / | n/a | n/a | Weight: 86 lb | FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wood she except end verticals Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 9- MiTek recommenda required cross brac truss erection, in ac Installation guide. | eathing directly applied, s. y applied or 10-0-0 oc .11. s that Stabilizers and cing be installed during ccordance with Stabilize | 6) Provide mec bearing plate 12 and 78 lb 7) This truss is International R802.10.2 a LOAD CASE(S) | chanical connection e capable of withsta uplift at joint 7. designed in accord Residential Code s nd referenced stan Standard | (by oth anding 7 lance w sections dard AN | ers) of truss i 5 lb uplift at j th the 2009 Strong 1.1 a SI/TPI 1. | to joint and | | | | | |
| REACTIONS | (lb/size) 7=1325/0 12=1325/ | -5-10, (min. 0-2-1), '0-5-8, (min. 0-2-1) | | | | | | | | | | |
| | Max Horiz 12=41 (LC Max Uplift 7=-78 (LC | C 6) C 6) 12=-75 (I C 4) | | | | | | | | | | |
| FORCES | (lb) - Max. Comp./M (lb) or less except w | lax. Ten All forces 250 /hen shown. |) | | | | | | | | | |
| TOP CHORD | 1-12=-1254/107, 1-2 2-3=-3815/220, 3-4= 4-5=-3815/225, 5-6= | 2=-3395/201, =-3803/221, =-1883/111 | | | | | | | | | | |
| BOT CHORD | 10-11=-213/3388, 9- 8-9=-111/1877 | -10=-213/3388, | | | | | | | | | | |
| WEBS | 2-11=-783/133, 1-11 4-9=-638/121, 2-9=- 5-9=-124/2033, 6-8= | 1=-192/3371, -24/436, 5-8=-1153/140, =-134/2265, 6-7=-1308/8 | , 88 | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Unbalanc | ed roof live loads have | e been considered for th | is | | | | | | | | | |
| Wind: AS h=25ft; Ci exterior z vertical le grip DOL: This truss combinati multiple c | CE 7-05; 90mph; TCD at. II; Exp B; Enclosed; one; cantilever left and ft and right exposed; L =1.60 has been designed fc ions, which include cas | ŗ, | | | | | | | | | | |

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | Т04 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1
ID:XESdb?WiN4_lwu?fXxcKoyyg41o-cZdgVHby0uHaGQMXRAENpCdbLu7yzSd7vLs9Hzyg3TY



Scale = 1:42.8

Plate Offsets (X, Y): [5:0-3-7,0-2-0], [6:0-3-7,0-2-0], [8:0-3-8,0-2-0], [11:0-2-8,0-2-12] Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) //d

| Loa TCL | L (roof) | (pst) 30.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | TC | 0.95 | DEFL Vert(LL) | in -0.26 | (loc) 10-11 | l/defl >999 | L/d 240 | PLATES MT20 | GRIP 197/144 | |
|--|--|---|--|---|---|---|--|----------------------------|----------------|----------------|------------|----------------|------------------------|--|
| BCI BCI | L DL | 20.0 0.0 10.0 | Rep Stress Incr Code | 1.15 YES IRC2009/TPI2007 | WB Matrix-S | 0.97 | Horiz(TL) | -0.67 0.08 | 10-11 | >412 n/a | n/a | Weight: 89 lb | FT = 10% | |
| LUI TOF BO ⁻ WE BR/ TOF BO ⁻ | MBER P CHORD T CHORD BS ACING P CHORD T CHORD | 2x4 SPF No.2 *Exce 1.8E 2x4 SPF No.2 2x4 SPF No.2 Structural wood she except end verticals Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 10 MiTek recommends required cross brac truss erection, in ad Installation quide | ept* T1:2x4 SPF 2100F eathing directly applied, a paplied or 10-0-0 oc -11. s that Stabilizers and ing be installed during coordance with Stabilizer | 5) This truss f chord live la 6) Provide me bearing pla 12 and 81 I 7) This truss i Internationa R802.10.2 LOAD CASE(S | has been design bad nonconcurr chanical conne- te capable of wi b uplift at joint 7 s designed in ac al Residential C and referenced) Standard | eed for a 10.0 ent with any ction (by oth thstanding 7 |) psf bottom other live loa ers) of truss 8 lb uplift at ith the 2009 R502.11.1 a ISI/TPI 1. | ads. to joint and | | | | | | |
| RE/ | ACTIONS | (lb/size) 7=1376/0- 12=1376/0- 12=1376/0- Max Horiz 12=41 (LC Max Uplift 7=-81 (LC | -5-10, (min. 0-2-3), 0-5-8, (min. 0-2-3) C 6) C 6), 12=-78 (LC 4) | | | | | | | | | | | |
| FOF | RCES | (lb) - Max. Comp./M | ax. Ten All forces 25 | 0 | | | | | | | | | | |
| TOF | P CHORD | 1-12=-1305/110, 1-2 2-3=-4132/238, 3-4= 4-5=-4132/243, 5-6= | 2=-3561/211, =-4120/239, =-2342/138 | | | | | | | | | | | |
| BOT | CHORD | 10-11=-223/3555, 9- | -10=-138/2336, | | | | | | | | | | | |
| WE | BS | 2-11=-829/136, 1-11 4-10=-633/120, 2-10 5-8=-1142/144, 5-10 6-8=-157/2653, 6-7= | =-203/3543,)=-32/593,)=-115/1885, 1346/97 | | | | | | | | | | | |
| NO | TES | 0-010112000, 0-1- | 10-0/07 | | | | | | | | | | | |
| 1) | Unbalance | ed roof live loads have | e been considered for the | his | | | | | | | | | | |
| 2) 3) | design. Wind: ASC h=25ft; Ca exterior zo vertical left grip DOL= This truss combination | CE 7-05; 90mph; TCD it. II; Exp B; Enclosed; one; cantilever left and t and right exposed; L 1.60 has been designed fo ons, which include cas | L=6.0psf; BCDL=6.0ps MWFRS (low-rise) right exposed ; end umber DOL=1.60 plate r basic load ses with reductions for | ef; | | | | | | | | | | |
| | multiple co | oncurrent live loads. | | | | | | | | | | | | |

4) Provide adequate drainage to prevent water ponding.

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | Т05 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:KKvUKsVW0Zc4YdSoS8exCSyg45h-cZdgVHby0uHaGQMXRAENpCdbLuFSzR?7vLs9Hzyg3TY



Scale = 1:44

Plate Offsets (X, Y): [6:0-3-7,0-2-8], [8:0-3-8,0-2-8], [11:0-3-8,0-2-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|---|--|-----------------------------|-----------------------------------|--------|------------------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 30.0 | Plate Grip DOL | 1.15 | TC 0 | .95 | Vert(LL) | -0.28 | 9-11 | >999 | 240 | MT20 | 197/144 |
| TCDL | 20.0 | Lumber DOL | 1.15 | BC 0 | .49 | Vert(TL) | -0.70 | 9-11 | >406 | 180 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB 0 | .91 | Horiz(TL) | 0.07 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | Matrix-S | | | | | | | Weight: 93 lb | FT = 10% |
| | | | 5) This truss ha | as been designed for a | a 10.0 |) psf bottom | | | | | | |
| TOP CHORD | 2x4 SPF No.2 *Exce | ept* T1:2x4 SPF 2100F | chord live loa | ad nonconcurrent with | any | other live loa | ids. | | | | | |
| | 2v/ SPE 2100E 1 8 | E | bearing plate | e capable of withstand | ina 8 | 1 lb uplift at i | oint | | | | | |
| WEBS | 2x4 SPF No 2 | | 12 and 84 lb | uplift at joint 7. | | | | | | | | |
| OTHERS | 2x4 SPF No.2 | | 7) This truss is | designed in accordance | ce wi | ith the 2009 | | | | | | |
| BRACING | | | International | Residential Code sec | tions | R502.11.1 a | ind | | | | | |
| TOP CHORD | Structural wood she except end verticals | eathing directly applied, | R802.10.2 a LOAD CASE(S) | nd referenced standar Standard | d AN | ISI/TPI 1. | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 oc | | | | | | | | | | |
| | MiTek recommends required cross brac truss erection, in ac Installation guide. | s that Stabilizers and cing be installed during ccordance with Stabilize | er | | | | | | | | | |
| REACTIONS | (lb/size) 7=1426/0- | -5-10, (min. 0-2-4), | _ | | | | | | | | | |
| | 12=1426/ | 0-5-8, (min. 0-2-4) | | | | | | | | | | |
| | Max Horiz 12=42 (LC | | | | | | | | | | | |
| | Max Upliπ 7=-84 (LC | 56), 12=-81 (LC 4) | | | | | | | | | | |
| FORCES | (lb) - Max. Comp./M | ax. Ten All forces 250 |) | | | | | | | | | |
| | (ID) OF less except w 1_12=_1353/112 1_2 | 2=-3728/220 | | | | | | | | | | |
| | 2-3=-4450/259. 3-4= | =-4450/262. | | | | | | | | | | |
| | 4-5=-4444/263, 5-6= | 2809/165 | | | | | | | | | | |
| BOT CHORD | 10-11=-233/3721, 9- 8-9=-165/2802 | -10=-233/3721, | | | | | | | | | | |
| WEBS | 2-11=-876/139, 1-11 | 1=-211/3711, | | | | | | | | | | |
| | 3-9=-630/119, 2-9=- | 43/751, 5-8=-1135/150 | , | | | | | | | | | |
| | 5-9=-108/1728, 6-8= | =-181/3073, | | | | | | | | | | |
| NOTES | 0-71365/105 | | | | | | | | | | | |
| 1) Unhalance | d roof live loads have | been considered for th | nie | | | | | | | | | |
| design. | | | | | | | | | | | | |
| 2) Wind: ASC | E 7-05; 90mph; TCD | L=6.0psf; BCDL=6.0psf MWERS (low-rise) | f; | | | | | | | | | |
| exterior zo | ne; cantilever left and | I right exposed ; end | | | | | | | | | | |

- exterior zone; canuever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads. 3)
- 4) Provide adequate drainage to prevent water ponding.

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | Т06 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:z0TTR4P3DwHsloaVAE1qYTyg475-cZdgVHby0uHaGQMXRAENpCdaYuF9zRO7vLs9Hzyg3TY



Scale = 1:45.3

Plate Offsets (X, Y): [6:0-3-7,0-2-8], [8:0-3-8,0-2-8], [11:0-3-8,0-1-12]

| | | | | | - | | | | | | | | | |
|--|---------------|-------------------------|--------------------------------------|---------------------------------|-----------------|----------------|----------------|------------|-------|--------|-----|---------------|----------|--|
| Loa | ding | (psf) | Spacing | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCL | .L (roof) | 30.0 | Plate Grip DOL | 1.15 | TC | 1.00 | Vert(LL) | -0.31 | 9-11 | >941 | 240 | MT20 | 197/144 | |
| TCE | DL | 20.0 | Lumber DOL | 1.15 | BC | 0.51 | Vert(TL) | -0.79 | 9-11 | >373 | 180 | MT18HS | 197/144 | |
| | L | 0.0 | Rep Stress Incr | YES | WB Motrix S | 0.95 | Horiz(TL) | 0.07 | 7 | n/a | n/a | Waight: 04 lb | ET - 10% | |
| | | 10.0 | Code | IRC2009/1P12007 | Matrix-5 | | | | | | | weight: 94 lb | FI = 10% | |
| | | | | 7) Provide mer | chanical conn | ection (by oth | ers) of truss | to | | | | | | |
| | | 2x4 SPE No 2 *Exce | ont* T1·2v4 SPE 2100E | bearing plat | e capable of v | vithstanding 8 | 4 lb uplift at | ioint | | | | | | |
| 101 | CHOILD | 1 8F | spt 11.2x4 OFT 21001 | 12 and 87 lb | uplift at joint | 7. | | j = | | | | | | |
| вот | CHORD | 2x4 SPF 2100F 1.8 | E | This truss is | designed in a | accordance w | ith the 2009 | | | | | | | |
| WE | BS | 2x4 SPF No.2 | | Internationa | Residential (| Code sections | R502.11.1 a | and | | | | | | |
| | | | | R802.10.2 a | nd referenced | d standard AN | ISI/TPI 1. | | | | | | | |
| TOF | P CHORD | Structural wood she | athing directly applied, | LOAD CASE(S) | Standard | | | | | | | | | |
| BOT | CHORD | Rigid ceiling directly | , applied or 10-0-0 oc | | | | | | | | | | | |
| | 0.10112 | bracing. | | | | | | | | | | | | |
| | | MiTek recommends | s that Stabilizers and | | | | | | | | | | | |
| | | required cross brac | ing be installed during | | | | | | | | | | | |
| | | truss erection, in ac | cordance with Stabilize | r | | | | | | | | | | |
| | | Installation guide. | | | | | | | | | | | | |
| REA | CTIONS | (lb/size) 7=1477/0- | -5-10. (min. 0-2-5). | | | | | | | | | | | |
| | | 12=1477/ | 0-5-8, (min. 0-2-5) | | | | | | | | | | | |
| | | Max Horiz 12=42 (LC | C 6) | | | | | | | | | | | |
| | | Max Uplift 7=-87 (LC | C 6), 12=-84 (LC 4) | | | | | | | | | | | |
| FOF | RCES | (lb) - Max. Comp./M | ax. Ten All forces 250 | 1 | | | | | | | | | | |
| | | (lb) or less except w | hen shown. | | | | | | | | | | | |
| TOF | P CHORD | 1-12=-1404/115, 1-2 | 2=-3899/230, | | | | | | | | | | | |
| | | 2-3=-4763/277, 3-4= | =-4763/280, | | | | | | | | | | | |
| | | 4-5=-4/56/281, 5-6= | =-3287/193 | | | | | | | | | | | |
| BOI | CHORD | 10-11=-243/3892, 9- | -10=-243/3892, | | | | | | | | | | | |
| | 20 | 0-9=-194/3279 | 1- 221/2006 | | | | | | | | | | | |
| | 55 | 2-11=-923/142, 1-11 | 1=-221/3000, 51/800 5-8=-1136/157 | | | | | | | | | | | |
| | | 5-9=-97/1555 6-8=- | 207/3516 6-7=-1426/11 | 13 | | | | | | | | | | |
| лот | TES | | 20170010,01 1120/1 | | | | | | | | | | | |
| 1) | Unbalance | ed roof live loads have | e been considered for th | is | | | | | | | | | | |
| ., | design. | | | | | | | | | | | | | |
| 2) | Wind: ASC | CE 7-05; 90mph; TCD | L=6.0psf; BCDL=6.0psf | | | | | | | | | | | |
| . | h=25ft; Ca | t. II; Exp B; Enclosed; | ; MWFRS (low-rise) | | | | | | | | | | | |
| | exterior zo | ne; cantilever left and | I right exposed ; end | | | | | | | | | | | |
| | vertical left | t and right exposed; L | umber DOL=1.60 plate | | | | | | | | | | | |
| grip DOL=1.60 | | | | | | | | | | | | | | |
| This truss has been designed for basic load combinations, which include cases with reductions for | | | | | | | | | | | | | | |
| combinations, which include cases with reductions for multiple concurrent live loads. | | | | | | | | | | | | | | |
| 4) Provide adequate drainage to prevent water ponding | | | | | | | | | | | | | | |
| 5) All plates are MT20 plates unless otherwise indicated. | | | | | | | | | | | | | | |
| All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom | | | | | | | | | | | | | | |
| | chord live l | load nonconcurrent w | ith any other live loads. | | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | Т07 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:mH8IjR2BqC2uiQRn3?VKTeyg48s-cZdgVHby0uHaGQMXRAENpCddgu7UzQb7vLs9Hzyg3TY



Scale = 1:46.6

combinations, which include cases with reductions for multiple concurrent live loads.

4) Provide adequate drainage to prevent water ponding.

Plate Offsets (X, Y): [6:0-3-7,0-2-1], [8:0-2-4,0-3-0], [11:0-3-8,0-1-12] 2-0-0 DEFL PLATES GRIP Loading (psf) Spacing CSI in (loc) l/defl L/d TCLL (roof) 1.15 30.0 Plate Grip DOL TC 0.80 Vert(LL) -0.34 10 >896 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 1.00 Vert(TL) -0.86 10-11 >357 180 BCLL 0.0 Rep Stress Incr YES WB Horiz(TL) 0.09 1.00 7 n/a n/a BCDL 10.0 Code IRC2009/TPI2007 Matrix-S Weight: 98 lb FT = 10% This truss has been designed for a 10.0 psf bottom LUMBER 5) TOP CHORD chord live load nonconcurrent with any other live loads. 2x4 SPF 2100F 1.8E 6) Provide mechanical connection (by others) of truss to BOT CHORD 2x4 SPF No.2 *Except* B1:2x4 SPF 2100F bearing plate capable of withstanding 87 lb uplift at joint 1.8E WEBS 2x4 SPF No.2 12 and 90 lb uplift at joint 7. 7) OTHERS 2x4 SPF No.2 This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and BRACING R802.10.2 and referenced standard ANSI/TPI 1. TOP CHORD Structural wood sheathing directly applied or LOAD CASE(S) Standard 2-2-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 8-10 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. **REACTIONS** (lb/size) 7=1528/0-5-10, (min. 0-2-6), 12=1528/0-5-8, (min. 0-2-6) Max Horiz 12=43 (LC 6) Max Uplift 7=-90 (LC 6), 12=-87 (LC 4) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-12=-1453/117, 1-2=-4070/240, 2-3=-5076/293, 3-4=-5064/294, 4-5=-5075/298, 5-6=-3775/221 BOT CHORD 10-11=-254/4063, 9-10=-222/3766, 8-9=-222/3766 WEBS 2-11=-973/146, 1-11=-232/4062, 4-10=-600/112, 2-10=-58/1046, 5-8=-1137/164, 5-10=-85/1372, 6-7=-1470/121, 6-8=-235/3977 NOTES 1) Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; 2) h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed ; end

<sup>exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for basic load</sup>

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | Т08 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 $\label{eq:linear} ID: XBSC? lvDzJCDQ_FjYGpHfpyg4AK-cZdgVHby0uHaGQMXRAENpCdgeuEgzS67vLs9Hzyg3TY$



Scale = 1:47 8

| Plate Offsets (X, Y): [4:0-3-0,Edge], [6:0-2-8,0-2-0], [9:0-3-8,0-2-0] CSI DEFL in (loc) I/deft L/d Loading (pst) Spacing 2-0-0 CSI DEFL in (loc) I/deft L/d TCLL (roof) 30.0 Plate Grip DOL 1.15 BC 0.61 Vert(LL) -0.35 11 >907 240 MT20 197/1 DCL 0.0 Res Stress Incr YES WB 0.84 Horiz(TL) -0.08 11-2 >361 100 MT20 197/1 BCDL 10.0 Res Stress Incr YES WB 0.84 Horiz(TL) -0.08 11-2 >361 100 MT20 197/1 LUMBER 10.0 Res Vers Stress Incr YES WB 0.84 Horiz(TL) -0.18 N/a N/a BOT CHORD 2x4 SPF 2100F 1.8E 6) This truss tas been designed for a 10.0 psf bottom chord involve mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 13 and 93 lb up | |
|--|--|
| Loading TCLL (roof) (psf) 30.0 Spacing Plate Grip DOL 2-0-0 1.15 CSI DEFL (vert(LL) in (loc) //def L/def PLATES GRP TCDL 20.0 Lumber DOL 1.15 TC 0.61 Vert(LL) -0.88 11-12 >361 180 MT20 197/1 BCDL 10.0 Code IRC2009/TPI2007 WB 0.84 Vert(TL) -0.88 11-12 >361 180 MT20 197/1 BCDL 10.0 Code IRC2009/TPI2007 WB 0.84 Vert(TL) -0.88 11-12 >361 180 MT30 197/1 BCDL 10.0 Code IRC2009/TPI2007 Matrix-S Matrix-S Weight: 101 lb FT<= LUMBER Code IRC2009/TPI2007 Nits trust has been designed for a 10.0 pf bottom chord live load. FO Provide mechanical connection (by others) of trusts to bearing plate capable of withstanding 90 lb uplift at joint 1. S S This trust has been designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI | |
| LUMBER TOP CHORD 2x4 SPF 2100F 1.8E BOT CHORD 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. WEBS 2x4 SPF No.2 *Except* W2:2x4 SPF 2100F 1.8E 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. BRACING TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals. 7) BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. 7) MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. 81579/0-5-10, (min. 0-2-8), 13=1579/0-5-8, (min. 0-2-8), Max Horiz 13=44 (LC 6) Max Uplift 8=-93 (LC 6), 13=-90 (LC 4) FORCES (b) or less except when shown. 100 coses 520 (b) or less except when shown. TOP CHORD 1-13=-1507/120, 1-2=-4248/250, | FIP 97/144 97/144 97/144 |
| Installation guide. REACTIONS (lb/size) 8=1579/0-5-10, (min. 0-2-8), 13=1579/0-5-8, (min. 0-2-8) Max Horiz 13=44 (LC 6) Max Uplift 8=-93 (LC 6), 13=-90 (LC 4) FORCES (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-13=-1507/120, 1-2=-4248/250, | 1 - 10 // |
| FORCES (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 1-13=-1507/120, 1-2=-4248/250, | |
| TOP CHORD 1-13=-1507/120, 1-2=-4248/250, | |
| 2-3=-5401/316, 3-4=-5400/319, 4-5=-5394/320, 5-6=-4186/233 | |
| BOT CHORD 11-12=-264/4241, 10-11=-235/4178, 9-10=-235/4178, 8-9=-87/949 | |
| WEBS 2-12=-1016/149, 1-12=-241/4255, 3-11=-624/117, 2-11=-71/1199, 5-9=-1007/150, 5-11=-96/1280, 6-9=-157/3433, 6-8=-1934/178 | |
| NOTES | |
| Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25f; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 | |

- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 Provide adequate drainage to prevent water ponding.
 All plates are MT20 plates unless otherwise indicated.

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | Т09 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:oZa9DlkJM0WmqJV7?Sb4Msyg4D8-cZdgVHby0uHaGQMXRAENpCdf1uEDzTQ7vLs9Hzyg3TY



Scale = 1:49.1

| Plate Offsets | (X, Y): [9:0-3-8,0-2-8], | , [12:0-3-8,0-2-0] | | | | | | | | | | |
|---|--|--|--|---|---|--|------------------------------|---------------------------|-------------------------------|--------------------------|--|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 30.0 20.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2009/TPI2007 | CSI TC BC WB Matrix-S | 0.65 0.57 0.82 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in -0.38 -0.95 0.11 | (loc) 11 11-12 8 | l/defl >855 >342 n/a | L/d 240 180 n/a | PLATES MT20 M18SHS Weight: 104 lb | GRIP 197/144 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SPF 2100F 1.8 2x4 SPF 2100F 1.8 2x4 SPF No.2 *Excention 2x4 SPF No.2 *Excention Structural wood she 2-6-11 oc purlins, e Rigid ceiling directly bracing. MiTek recommend | E E ept* W2:2x4 SPF 2100F eathing directly applied o except end verticals. / applied or 10-0-0 oc | 6) This truss ha chord live lo. 7) Provide mec bearing plate 13 and 95 lb 8) This truss is International R802.10.2 a LOAD CASE(S) | as been designe ad nonconcurre chanical connec e capable of with uplift at joint 8. designed in acc Residential Co nd referenced s Standard | ed for a 10. Int with any tion (by oth hstanding 9 cordance w de sections standard AN | 0 psf bottom other live lo: ers) of truss 3 lb uplift at ith the 2009 R502.11.1 ISI/TPI 1. | ads. to joint and | | | | | |
| | required cross brac truss erection, in ac Installation guide. | cing be installed during ccordance with Stabilize | r | | | | | | | | | |
| REACTIONS | (Ib/size) 8=1630/0 13=1630/ Max Horiz 13=44 (L0 Max Uplift 8=-95 (L0 | -5-10, (min. 0-2-9), 0-5-8, (min. 0-2-9) C 6) C 6), 13=-93 (LC 4) | | | | | | | | | | |
| FORCES | (lb) - Max. Comp./M | lax. Ten All forces 250 | | | | | | | | | | |
| TOP CHORD | (ib) of less except w 1-13=-1558/123, 1-2 2-3=-5717/335, 3-4 4-5=-5717/340, 5-6 | 2=-4418/259, =-5705/336, =-4651/254 | | | | | | | | | | |
| BOT CHORD | 11-12=-274/4411, 1 9-10=-256/4644, 8-9 | 0-11=-256/4644, 9=-129/1489 | | | | | | | | | | |
| WEBS | 2-12=-1062/152, 1- 4-11=-623/117, 2-1 5-11=-95/1123, 6-9 6-8=-2172/189 | 12=-251/4430, 1=-82/1352, 5-9=-965/15 =-135/3354, | 51, | | | | | | | | | |
| NOTES | 0-02172/109 | | | | | | | | | | | |
| Unbalanc design. Wind: AS h=25ft; Ca exterior za vertical le grip DOL= This truss | ed roof live loads have CE 7-05; 90mph; TCD at. II; Exp B; Enclosed one; cantilever left and ft and right exposed; L =1.60 b has been designed fo | e been considered for thi N=6.0psf; BCDL=6.0psf; ; MWFRS (low-rise) d right exposed ; end .umber DOL=1.60 plate or basic load | is ; | | | | | | | | | |

- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
 Provide adequate drainage to prevent water ponding.
 All plates are MT20 plates unless otherwise indicated.

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | T10 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:8RGL?DzoBfaimeA0pkyIJayg4E7-cZdgVHby0uHaGQMXRAENpCdfPuDQzTt7vLs9Hzyg3TY



Scale = 1:50.4

| Plate Offsets (| (X, Y): [6:0-3-7,0-2-8], | [7:0-3-7,0-2-8], [9:0-3-8] | ,0-2-8], [10:0-3-8,0- | 2-8], [13:0-3-8,0-2 | 2-0] | | | | | | | |
|---|--|--|--|---|--|---|------------------------------|------------------------------|-------------------------------|--------------------------|--|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 30.0 20.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2009/TPI2007 | CSI TC BC WB Matrix-S | 0.69 0.62 0.79 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in -0.42 -1.07 0.12 | (loc) 10-12 10-12 8 | l/defl >795 >316 n/a | L/d 240 180 n/a | PLATES MT20 M18SHS Weight: 109 lb | GRIP 197/144 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SPF 2100F 1.8E 2x4 SPF 2100F 1.8E 2x4 SPF No.2 *Exce 1.8E Structural wood she 2-5-1 oc purlins, ex Rigid ceiling directly bracing. MiTek recommends required cross brac truss erection, in ac Installation guide. | E ept* W2:2x4 SPF 2100F eathing directly applied or ccept end verticals. r applied or 10-0-0 oc s that Stabilizers and cing be installed during ccordance with Stabilizer | 6) This truss ha chord live lo 7) Provide mec bearing plate 14 and 98 lb 8) This truss is International R802.10.2 a LOAD CASE(S) | as been designed ad nonconcurrent hanical connectio capable of withs uplift at joint 8. designed in accor Residential Code nd referenced sta Standard | for a 10. with any n (by oth tanding \$ rdance w e sections ndard AN | 0 psf bottom other live loa ers) of truss 16 lb uplift at ith the 2009 s R502.11.1 a ISI/TPI 1. | ads. to joint and | | | | | |
| REACTIONS | (Ib/size) 8=1680/0- 14=1680/0 Max Horiz 14=45 (LC Max Uplift 8=-98 (LC | -5-10, (min. 0-2-10), 0-5-8, (min. 0-2-10) C 6) C 6), 14=-96 (LC 4) | _ | | | | | | | | | |
| FORCES TOP CHORD | (lb) - Max. Comp./M (lb) or less except w 1-14=-1607/126, 1-2 2-3=-6045/350, 3-4= 4-5=-6038/354, 5-6 6-7=-2048/119 | ax. Ten All forces 250 hen shown. 2=-4585/270, 6045/353, 5076/296, | | | | | | | | | | |
| BOT CHORD WEBS | 12-13=-285/4578, 11 10-11=-299/5068, 9- 2-13=-1112/153, 6-9 1-13=-262/4602, 3-1 2-12=-85/1519, 5-10 5-12=-66/1021, 6-10 5-12=-66/1027, 5-0 | 1-12=-299/5068, -10=-120/2043 9=-1550/161, 12=-619/117, 9=-947/143, 0=-190/3208, -155/260 | | | | | | | | | | |
| 7-8=-1675/105, 7-9=-155/2640 IOTES Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed ; end vertical left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads. | | | | | | | | | | | | |

Provide adequate drainage to prevent water ponding.
 All plates are MT20 plates unless otherwise indicated.

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | T11 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:Fbw7ub5d8XWw7agAbcgQOOyg4FF-cZdgVHby0uHaGQMXRAENpCdecuCozUM7vLs9Hzyg3TY



Scale = 1:51.6

| Plate Offsets | s (X, Y): [6:0-3-7,0-2-8], | , [7:0-3-7,0-2-8], [9:0-3-8, | 0-2-8], [10:0-3-8,0- | 2-8], [13:0-3-8,0-2 | 2-0] | | | | | | | |
|---|--|--|---|---|---|---|------------------------------|------------------------------|-------------------------------|--------------------------|--|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 30.0 20.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2009/TPI2007 | CSI TC BC WB Matrix-S | 0.74 0.66 0.76 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in -0.46 -1.17 0.13 | (loc) 10-12 10-12 8 | l/defl >746 >295 n/a | L/d 240 180 n/a | PLATES MT20 M18SHS Weight: 111 lb | GRIP 197/144 197/144 FT = 10% |
| LUMBER TOP CHORI BOT CHORI WEBS BRACING TOP CHORI BOT CHORI | D 2x4 SPF 2100F 1.81 2x4 SPF 2100F 1.81 2x4 SPF No.2 *Exce 1.8E D Structural wood she 2-2-14 oc purlins, e Rigid ceiling directly bracing. MiTek recommend required cross brack truss erection, in at Installation guide. | E E ept* W2:2x4 SPF 2100F eathing directly applied or except end verticals. y applied or 10-0-0 oc s that Stabilizers and cing be installed during ccordance with Stabilizer | 6) This truss ha chord live lo 7) Provide mec bearing plate 14 and 101 8) This truss is International R802.10.2 a LOAD CASE(S) | as been designed ad nonconcurrent thanical connectic e capable of withs b uplift at joint 8. designed in acco Residential Code nd referenced sta Standard | for a 10. with any n (by oth tanding S rdance w e sections ndard AN | 0 psf bottom other live loa ers) of truss 18 lb uplift at ith the 2009 5 R502.11.1 ISI/TPI 1. | ads. to joint and | | | | | |
| REACTIONS | S (lb/size) 8=1731/0 14=1731/ Max Horiz 14=45 (LC Max Lipitt 8= 101 (L | I-5-10, (min. 0-2-11), /0-5-8, (min. 0-2-11) C 6) | _ | | | | | | | | | |
| FORCES | (lb) - Max. Comp./M | lax. Ten All forces 250 | | | | | | | | | | |
| TOP CHORI | (Ib) or less except w 1-14=-1658/129, 1-2 2-3=-6365/369, 3-4= 4-5=-6359/373, 5-6= 6-7=-2617/152 | /hen shown. 2=-4755/280, =-6365/371, =-5529/322, | | | | | | | | | | |
| BOT CHORE | $D = \frac{12-13}{12-13} = -296/4748, 1$ | 1-12=-326/5521, | | | | | | | | | | |
| WEBS | 2-13=-1159/155, 6-9 1-13=-272/4776, 3-7 2-12=-94/1676, 5-10 5-12=-58/882, 6-10= 7-9=-181/3091, 7-8= | 9=-1533/163, 12=-620/117, 0=-905/140, =-183/3085, =-1709/114 | | | | | | | | | | |
| NOTES | 1-5101/0001, 1-0- | | | | | | | | | | | |
| Unbalan design. | ced roof live loads have | e been considered for this | 6 | | | | | | | | | |
| Wind: AS h=25ft; C exterior : vertical le grip DOL This trus combina | SCE 7-05; 90mph; TCD Cat. II; Exp B; Enclosed zone; cantilever left and eft and right exposed; L _=1.60 is has been designed for tions, which include cas | DL=6.0psf; BCDL=6.0psf; ; MWFRS (low-rise) d right exposed ; end .umber DOL=1.60 plate or basic load ses with reductions for | | | | | | | | | | |
| 4) Provide | concurrent live loads. | revent water ponding | | | | | | | | | | |
| 5) All plates | All plates are MT20 plates unless otherwise indicated. | | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | T12 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:2107TW6mm8rBSN8f_Ajylpyg4Hp-cZdgVHby0uHaGQMXRAENpCddguB1zSU7vLs9Hzyg3TY



Scale = 1:52.9

| Plate Offsets (| (X, Y): [6:0-3-7,0-2-8], | [7:0-3-7,0-2-8], [11:0-3- | 8,0-2-0], [12:0-3-8,0 | 0-2-8], [15:0-3-8,0 | -2-0] | | | | | | | |
|---|--|--|---|---|---|--|------------------------------|-------------------------------|-------------------------------|--------------------------|--|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 30.0 20.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2009/TPI2007 | CSI TC BC WB Matrix-S | 0.80 0.71 0.88 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in -0.51 -1.29 0.14 | (loc) 12-14 12-14 10 | l/defl >697 >276 n/a | L/d 240 180 n/a | PLATES MT20 MT18HS Weight: 114 lb | GRIP 197/144 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SPF 2100F 1.8f 2x4 SPF 2100F 1.8f 2x4 SPF No.2 *Exce 1.8E Structural wood she 2-2-0 oc purlins, ex Rigid ceiling directly bracing. MiTek recommendar required cross brack truss erection, in ad Installation guide. | E ept* W2:2x4 SPF 2100F eathing directly applied of coept end verticals. r applied or 10-0-0 oc s that Stabilizers and cing be installed during coordance with Stabilize | 6) Provide med bearing plate 16 and 104 7) This truss is International R802.10.2 a r LOAD CASE(S) | chanical connectic e capable of withs b uplift at joint 10 designed in acco Residential Code nd referenced sta Standard | n (by oth tanding 1 rdance w e sections indard AN | ers) of truss IO1 lb uplift a ith the 2009 ST502.11.1 a ISI/TPI 1. | to t joint and | | | | | |
| REACTIONS | (lb/size) 10=1791/ 16=1781/ Max Horiz 16=46 (LC | | | | | | | | | | | |
| FORCES | (lb) - Max. Comp./M | LC 6), 16=-101 (LC 4) ax. Ten All forces 250 | | | | | | | | | | |
| TOP CHORD | (lb) or less except w 1-16=-1707/132, 1-2 2-3=-6681/387, 3-4= 4-5=-6674/391, 5-6= | hen shown. 2=-4921/289, =-6681/389, =-5972/348, | | | | | | | | | | |
| BOT CHORD WEBS | 14-15=-306/4914, 1 12-13=-352/5964, 1 2-15=-1204/158, 6-1 1-15=-282/4946, 3-1 2-14=-103/1832, 5-1 5-14=-50/747, 6-12= | 3-14=-352/5964, 1-12=-186/3179 11=-1528/168, 14=-621/117, 12=-860/136, 176/2953, | | | | | | | | | | |
| NOTES 1) Wind: ASG h=25ft; Ca exterior zc vertical lef grip DOL= 2) This truss combination multiple cc 3) Provide ac 4) All plates 5) This truss chord live | CE 7-05; 90mph; TCD at. II; Exp B; Enclosed; one; cantilever left and ft and right exposed; L =1.60 has been designed fc ons, which include cas oncurrent live loads. dequate drainage to p are MT20 plates unles has been designed fo load nonconcurrent w | L=6.0psf; BCDL=6.0psf; WWFRS (low-rise) I right exposed ; end .umber DOL=1.60 plate or basic load ses with reductions for revent water ponding. ss otherwise indicated. or a 10.0 psf bottom rith any other live loads. | : | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | T13 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:W8ToPclkYZPiw4WnZb0FXgyg4Is-cZdgVHby0uHaGQMXRAENpCdcHuBFzVS7vLs9Hzyg3TY



Scale = 1:54.2

| Plate Offsets | (X, Y): [2:0-3-8,0-1-8], | [6:0-3-7,0-2-0], [7:0-3-7 | 7,0-2-1], [11:0-3-8,0- | 2-0], [12:0-3-8, | 0-1-8], [15:0 | -3-8,0-2-0] | | | | | | |
|---|--|---|--|--|---|---|-------------------------------|-------------------------------|-------------------------------|--------------------------|--|---|
| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 30.0 20.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2009/TPI2007 | CSI TC BC WB Matrix-S | 0.89 0.76 0.69 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in -0.56 -1.41 0.16 | (loc) 12-14 12-14 10 | l/defl >657 >259 n/a | L/d 240 180 n/a | PLATES MT20 MT18HS Weight: 118 lb | GRIP 197/144 197/144 FT = 10% |
| LUMBER TOP CHORE BOT CHORE WEBS OTHERS BRACING TOP CHORE BOT CHORE | 2x4 SPF 2100F 1.8E 2x4 SPF 2100F 1.8E 2x4 SPF No.2 *Exce 2100F 1.8E 2x4 SPF No.2 Structural wood she 2-2-0 oc purlins, ex Rigid ceiling directly bracing. MiTek recommends required cross brac truss erection, in ac Installation guide. | athing directly applied o cept end verticals. applied or 10-0-0 oc s that Stabilizers and ing be installed during cordance with Stabilizer | 5) This truss ha chord live loc bearing plate 16 and 107 I 7) This truss is International R802.10.2 a IOAD CASE(S) | as been design ad nonconcurre hanical connec e capable of wit b uplift at joint designed in ac Residential Co nd referenced s Standard | ed for a 10.0 ent with any tion (by oth hstanding 1 10. cordance w de sections standard AN |) psf bottom other live loa ers) of truss 04 lb uplift a th the 2009 R502.11.1 a ISI/TPI 1. | ads. to ti joint and | | | | | |
| REACTIONS | (lb/size) 10=1842/0 16=1832/0 Max Horiz 16=46 (LC Max Uplift 10=-107 (| D-5-10, (min. 0-2-14), D-5-8, (min. 0-2-14) C 6) LC 6), 16=-104 (LC 4) | _ | | | | | | | | | |
| FORCES | (lb) - Max. Comp./Ma | ax. Ten All forces 250 | | | | | | | | | | |
| TOP CHORE | (Ib) or less except w 1-16=-1757/135, 1-2 2-3=-7003/405, 3-4= 4-5=-6996/409, 5-6= 6-7=-3778/220 | hen shown. ?=-5090/299, 7003/408, 6418/373, | | | | | | | | | | |
| BOT CHORE |) 14-15=-316/5083, 13 12-13=-378/6410, 12 | 3-14=-378/6410, 1-12=-221/3770 | | | | | | | | | | |
| WEBS | 2-15=-1251/161, 6-1 1-15=-291/5120, 3-1 2-14=-112/1991, 5-1 5-14=-42/616, 6-12= 7-10=-1794/133, 7-1 | 1=-1528/175, 4=-624/118, 2=-811/132, 167/2799, 1=-241/4120 | | | | | | | | | | |
| NOTES | 7-1017 34 /133, 7-1 | | | | | | | | | | | |
| Wind: AS h=25ft; C exterior z vertical le grip DOL This trust combinate multiple of 3) Provide a All plates | SCE 7-05; 90mph; TCD at. II; Exp B; Enclosed; cone; cantilever left and eft and right exposed; L =1.60 s has been designed fo tions, which include cas concurrent live loads. adequate drainage to pr are MT20 plates uples | L=6.0psf; BCDL=6.0psf; MWFRS (low-rise) right exposed ; end umber DOL=1.60 plate r basic load ses with reductions for revent water ponding. | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | T14 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:lxgiK6lz9BrlS6baSIJtDLyg5av-cZdgVHby0uHaGQMXRAENpCda0uAczV47vLs9Hzyg3TY

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31-8-4
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Scale = 1:55.4

Plate Offsets (X, Y): [2:0-3-8,0-1-8], [6:0-3-7,0-2-0], [8:0-3-7,0-2-0], [9:Edge,0-3-8], [10:0-3-8,0-2-0], [11:0-3-8,0-1-8], [14:0-3-8,0-2-0]

| Loading TCLL (roof) TCDL BCLL BCDL | (psf) 30.0 20.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2009/TPI2007 | CSI TC BC WB Matrix-S | 0.97 0.80 0.65 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in -0.62 -1.56 0.17 | (loc) 11-13 11-13 9 | l/defl >613 >241 n/a | L/d 240 180 n/a | PLATES MT20 MT18HS Weight: 121 lb | GRIP 197/144 197/144 FT = 10% | |
|---|---|---|---|---|---|--|------------------------------|------------------------------|-------------------------------|--------------------------|--|---|--|
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD | 2x4 SPF 2100F 1.88 2x4 SPF 2100F 1.88 2x4 SPF No.2 *Exce 2100F 1.8E 2x4 SPF No.2 Structural wood she except end verticals Rigid ceiling directly bracing. MiTek recommendar required cross brack truss erection, in ac Installation guide. | E ept* W2,W10:2x4 SPF eathing directly applied, a paplied or 10-0-0 oc s that Stabilizers and sing be installed during coordance with Stabilize | 5) This truss ha chord live lo: chord live lo: bearing plate 15 and 108 l 7) This truss is International R802.10.2 a LOAD CASE(S) | as been designed fo ad nonconcurrent wi hanical connection e capable of withstau b uplift at joint 9. designed in accorda Residential Code s nd referenced stand Standard | r a 10.(ith any (by oth nding 1 ance w ections lard AN | 0 psf bottom other live loa ers) of truss 09 lb uplift a ith the 2009 R502.11.1 a ISI/TPI 1. | ads. to t joint and | | | | | | |
| REACTIONS FORCES TOP CHORD BOT CHORD WEBS | (Ib/size) 9=1884/0 15=1884/0 Max Horiz 15=69 (LC Max Uplift 9=-108 (L (Ib) - Max. Comp./M (Ib) or less except w 1-15=-1809/139, 1-2 2-3=-7322/433, 3-4= 4-5=-7322/433, 3-4= 4-5=-7322/433, 5-6 6-7=-4361/269, 7-8= 8-9=-1817/140 13-14=-294/5255, 1: 11-12=-381/6869, 11 1-14=-306/5296, 8-1 2-14=-1298/164, 2-1 3-13=-625/118, 5-13 6-11=-156/2668, 6-1 | -9-3, (min. 0-2-15), 0-5-8, (min. 0-2-15), C 6), 15=-109 (LC 4) ax. Ten All forces 250 hen shown. 2=-5262/314, 7328/435, =-6876/412, =-4354/269, 2-13=-381/6869, 0-11=-234/4353 10=-264/4567, 13=-125/2151, 3=-30/476, 5-11=-764/1 10=-1505/176 | 27, | | | | | | | | | | |

NOTES

- Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 This truss has been designed for basic load
- This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | T15 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1



Scale = 1:47.7

Plate Offsets (X, Y): [6:0-3-7,0-3-0], [9:0-3-8,0-1-12], [12:0-3-8,0-2-0] Loading 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) Spacing in (loc) TCLL (roof) 30.0 Plate Grip DOL 1.15 тс Vert(LL) 197/144 0.96 -0.37 9-10 >824 240 MT20 TCDL 20.0 Lumber DOL 1.15 BC 0.56 Vert(TL) -0.92 9-10 >327 180 M18SHS 197/144 BCLL 0.0 Rep Stress Incr YES WB 1.00 Horiz(TL) 0.08 7 n/a n/a IRC2009/TPI2007 BCDL 10.0 Code Matrix-S Weight: 100 lb FT = 10% 6) Provide mechanical connection (by others) of truss to LUMBER bearing plate capable of withstanding 137 lb uplift at joint TOP CHORD 2x4 SPF 2100F 1.8E

| BOT CHORD | 2x4 SPF | 2100F 1.8E |
|------------------------|---|---|
| WEBS | 2x4 SPF 1.8E | No.2 *Except* W2:2x4 SPF 2100F |
| OTHERS | 2x4 SPF | No.2 |
| BRACING | | |
| TOP CHORD BOT CHORD | Structura Rigid ceil bracing. | I wood sheathing directly applied. ing directly applied or 10-0-0 oc |
| | MiTek re required truss ere Installation | commends that Stabilizers and cross bracing be installed during action, in accordance with Stabilize on guide. |
| REACTIONS | (lb/size) Max Horiz Max Uplift | 7=1054/1-4-6, (min. 0-1-10), 8=541/0-3-8, (min. 0-1-8), 13=1551/0-5-8, (min. 0-2-7) 13=38 (LC 5) 7=-137 (LC 6), 13=-92 (LC 4) |
| FORCES | (lb) - Max | . Comp./Max. Ten All forces 250 |
| TOP CHORD | 1-2=-418 3-4=-5210 5-6=-3929 | 3/254, 2-3=-5218/325, 6/328, 4-5=-5205/329, 9/278, 6-7=-1447/133 |
| BOT CHORD | 11-12=-23 9-10=-24 | 33/4178, 10-11=-233/4178, 4/3920 |
| WEBS | 1-13=-14 | 92/121, 2-12=-1028/156, 1/4335_3-10=-581/110 |

2-10=-69/1074, 5-9=-1147/159, 5-10=-59/1359, 6-9=-258/4056 NOTES

- 1) Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for basic load 2) combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding. 3)
- All plates are MT20 plates unless otherwise indicated. 4)
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

7 and 92 lb uplift at joint 13. This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and 7) R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | T16 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:5F53Wslt?Jn77YZXwSK0uZyg3t9-cZdgVHby0uHaGQMXRAENpCdgBu9gzT27vLs9Hzyg3TY



Scale = 1:41.2

Plate Offsets (X, Y): [3:0-3-0,Edge], [11:0-3-8,0-2-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|---------------------------------------|-------------------------------|------------------------------------|---------------------|-------------|----------------|----------|-------|--------|-----|---------------|----------|--|
| TCLL (roof | 30.0 | Plate Grip DOL | 1.15 | тс | 0.64 | Vert(LL) | -0.19 | 9-11 | >999 | 240 | MT20 | 197/144 | |
| TCDL | 20.0 | Lumber DOL | 1.15 | BC | 0.86 | Vert(TL) | -0.49 | 9-11 | >476 | 180 | | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.78 | Horiz(TL) | 0.06 | 7 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2009/TPI2007 | Matrix-S | | | | | | | Weight: 79 lb | FT = 10% | |
| LUMBER | | | 5) Provide med | hanical connect | ion (by oth | ers) of truss | to | | | | | | |
| TOP CHOP | RD 2x4 SPF No.2 *Exce | ept* T1:2x4 SPF 2100F | bearing plate | e capable of with | nstanding 1 | 42 lb uplift a | at joint | | | | | | |
| | 1.8E | • | 7 and 75 lb | uplift at joint 12. | | | | | | | | | |
| BOT CHOF | RD 2x4 SPF No.2 | | 6) This truss is | designed in acc | ordance w | ith the 2009 | | | | | | | |
| WEBS | 2x4 SPF No.2 | | Internationa | Residential Coo | de sections | R502.11.1 | and | | | | | | |
| OTHERS | 2x4 SPF No.2 | | R802.10.2 a | nd referenced st | tandard AN | ISI/TPI 1. | | | | | | | |
| BRACING | | | LOAD CASE(S) | Standard | | | | | | | | | |
| TOP CHOP | RD Structural wood she | eathing directly applied o | r | | | | | | | | | | |
| | 2-6-7 oc purins. | | | | | | | | | | | | |
| BOT CHOP | kD Rigid celling directly bracing. | applied or 10-0-0 oc | | | | | | | | | | | |
| | MiTek recommend | s that Stabilizers and | | | | | | | | | | | |
| | required cross brac | cing be installed during | | | | | | | | | | | |
| | truss erection, in a | ccordance with Stabilize | r | | | | | | | | | | |
| | Installation guide. | | | | | | | | | | | | |
| REACTION | IS (lb/size) 7=875/1-4 | 4-6, (min. 0-1-8), | | | | | | | | | | | |
| | 8=382/0-3 | 3-8, (min. 0-1-8), | | | | | | | | | | | |
| | 12=1217/ | (0-5-8, (min. 0-1-15) | | | | | | | | | | | |
| | Max Horiz 12=34 (LO | C 5) | | | | | | | | | | | |
| | Max Uplift 7=-142 (L | LC 6), 12=-75 (LC 4) | | | | | | | | | | | |
| | Max Grav 7=875 (L0 12=1217 | C 1), 8=459 (LC 3), (LC 1) | | | | | | | | | | | |
| FORCES | (lb) - Max. Comp./M | lax. Ten All forces 250 | | | | | | | | | | | |
| | (lb) or less except w | /hen shown. | | | | | | | | | | | |
| TOP CHOF | 2 1-2=-3067/198, 2-3= | =-3105/214, = 3104/220 | | | | | | | | | | | |
| | RD 10-11=-175/3063, 9 | -10=-175/3063, | | | | | | | | | | | |
| | 8-9=-95/1018, 7-8=- | -95/1018 | | | | | | | | | | | |
| WEBS | 1-12=-1162/104, 2-2 | 11=-707/137, | | | | | | | | | | | |
| | 1-11=-202/3177, 4-9 | 9=-616/117, 5-9=-99/219 | 96, | | | | | | | | | | |
| | 5-7=-1619/173 | | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| 1) Wind: A | SCE 7-05; 90mph; TCD | L=6.0psf; BCDL=6.0psf; | | | | | | | | | | | |
| h=25ft; | Cat. II; Exp B; Enclosed | ; MWFRS (low-rise) | | | | | | | | | | | |
| exterior | 2011e; cantilever left and | umber DOL =1.60 plata | | | | | | | | | | | |
| | 1=1 60 | | | | | | | | | | | | |
| 2) This tru | ss has been designed for | or basic load | | | | | | | | | | | |
| combin | ations, which include car | ses with reductions for | | | | | | | | | | | |
| multiple | concurrent live loads. | | | | | | | | | | | | |
| 3) Provide | adequate drainage to p | revent water ponding. | | | | | | | | | | | |
| 4) This tru | ss has been designed fo | or a 10.0 psf bottom | | | | | | | | | | | |
| chord li | ve load nonconcurrent w | with any other live loads. | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | Corporate Cont_Johnson Boathouse |
|---------|-------|------------|-----|-----|----------------------------------|
| 2860207 | T17 | Monopitch | 1 | 1 | Job Reference (optional) |

Run: 8.42 S Dec 30 2020 Print: 8.420 S Dec 30 2020 MiTek Industries, Inc. Tue Sep 07 09:26:36 Page: 1 ID:Pg7QFVgwLMEUd3oyqiAcROyg3s_-cZdgVHby0uHaGQMXRAENpCddguDkzTQ7vLs9Hzyg3TY



2-3-13

| Loading (pr) Specing 2-0-0 CSI OFFL (in) (io) Udd PLATES GRIP TDLL (roof) 20.0 Plate Stip DOL 1.15 BC 0.80 Vert(L) -0.08 7.8 - 999 20.0 MT20 197/144 BCDL 0.0 0.0 Code III Stap 0.82 Horiz(TL) -0.03 5 nia nia BCDL 0.0 0.0 Rep Stross Incr III Stap Matrix-S Horiz(TL) -0.03 5 nia < | Plate Offsets (| (X, Y): [8:0-3-8,0-1-8] | | | | | | | | | | | |
|--|---|---|--|--|--|---|--|------------------------------|--------------------------|-------------------------------|--------------------------|----------------|------------------------|
| BEDL 10.0 Code IRC2009/TPI2007 Matrix-S Weight: 59 lb FT = 10% LUMBER TOP CHORD 2x4 SPF No.2 () This truss is designed in accordance with the 2009 International Resolutional Code sections R602.11.1 and R802.10.2 and referenced standard ANS/ITP 1. () This truss is designed in accordance with the 2009 International Resolutional Code sections R602.11.1 and R802.10.2 and referenced standard ANS/ITP 1. DAD CHORD Structural wood sheathing directly applied or 2-2-00 c purifica () This truss is designed in accordance with Stabilizer International Resolution () This truss is designed in accordance with Stabilizer International Resolution () () () REACING () Structural wood sheathing directly applied or 2-2-00 c purifica () () () () BOT CHORD Rigid celling directly applied or 2-3-00 c purifica () () () () () REACTIONS () < | Loading TCLL (roof) TCDL BCLL | (psf) 30.0 20.0 0.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 YES | CSI TC BC WB | 0.80 0.60 0.82 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in -0.08 -0.21 0.03 | (loc) 7-8 7-8 5 | l/defl >999 >781 n/a | L/d 240 180 n/a | PLATES MT20 | GRIP 197/144 |
| LUMBER TOP CHORD 24 SPF No.2 DOT CHOR 24 SPF No.2 DOT HER 24 SPF No.2 DOT HER 24 SPF No.2 BACK 05 Standard Restantial Code sectors R502.11.1 and R02.10.2 and referenced standard ANS//TP11. LOAD CASE(3) Standard DOT CHOR 24 SPF No.2 BOT CHOR 25 Sp6 SPF SPF SPF SPF SPF SPF SPF SPF SPF SPF | BCDL | 10.0 | Code | IRC2009/TPI2007 | Matrix-S | | | | | | | Weight: 59 lb | FT = 10% |
| BRACINO TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purfins. BOT CHORD Rigid celling directly applied or 6-0-0 oc bracing. MTex recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS (Ib/size) 5=506/1-4-6, (min. 0-1-8), 6=424/0-3-8, (min. 0-1-8), 9=87/00-5-8, (min. 0-1-8), 9=87/00-5-8, (min. 0-1-8), 9=87/00-5-8, (min. 0-1-8), 9=87/00-5-8, (min. 0-1-8), 9=87/00-5-8, (min. 0-1-8), 9=87/00-5-8, (min. 0-1-8), Max Upit 5=-9 (LC 4), 9=-49 (LC 4), 0=-45 (LC 4), 9=-49 (LC 6) (0) or fees except when shown. TOP CHORD 1-2=-1022/111, 2-3=-881/52, 34==878/55, 45=-748/93 BOT CHORD 7-8=-88/1919 1-9=-81/178, 2-4=-388/117, 1-8=-113/1990, 37=-6178/5, 2-77-1088/66, 4-7=-55/1176 NOTES NOTES NOTES 10 Wind: ASCE 7-05; 90mpt, TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWPRS (low-rise) action: 2-ne; catilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate gip DOL=1.60 plate gip DOL=1.60 plate low for basic load combinations, which include cases with reductions for multiple concurrent with any other low leads. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withshanding 48 buy left at joint 6. | LUMBER TOP CHORD BOT CHORD WEBS OTHERS | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 | | 6) This truss is International R802.10.2 a LOAD CASE(S) | designed in ac Residential C nd referenced Standard | ccordance wi ode sections standard AN | th the 2009 R502.11.1 a SI/TPI 1. | and | · | | | | |
| BOT CHORD Rigid ceiling directly applied or 6-0-0 oc brading. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide. Installation guide. REACTIONS (b/size) 5-60/61-4.6, (min. 0-1-8), 6=424/0-3.6, (min. 0-1-8), 6=424/0-3.6, (min. 0-1.6), 9=870/00-5.8, (min. 0-1.6), 9=870/00-5.8, (min. 0-1.6), Max Horiz 9=31 (LC 5), Max Horiz 9=31 (LC 5), Max Logit 5=-0 (LC 6), 6=.45 (LC 4), 9=-49 (LC 4), 0=-49 (LC 4), FORCES (b) or less except when shown. TOP CHORD 1-2=-1920/111, 2-3=-881/52, 54=-878/55, 4-5=-749/30 -3-75-7195, 2-4=-388/117, 1-8=-113/1990, 3-7=-51795, 2-7=-108.066, 4/7=-55/1176 -3-76-571/55, 2-7=-108.066, 4/7=-55/1176 VWEES 1-9=81777, 2, 2-8=-388/117, 1-8=-113/1990, 3-7=-51795, 2-7=-108.066, 4/7=-55/1176 -3-76-571/55, 2-7=-108.066, 4/7=-55/1176 NOTES 10 Wind: ASCE 7-05; 90mph; TCDL=60, 0psf; 10 Wind: ASCE 7-05; 90mph; TCDL=60, 0psf; | BRACING TOP CHORD | Structural wood she 2-2-0 oc purlins. | eathing directly applied o | or | | | | | | | | | |
| Milek recommends that Stabilizers and required cross braicing be installed during truss erection, in accordance with Stabilizer Installation guide. REACTIONS (Ibisize) 5=500(1-4-6, (min. 0-1-8), 6=4240-3-8, (min. 0-1-8), 9=8700-5-8, (min. 0-1-8), 9=8700-5-8, (min. 0-1-8), 9=8700-5-8, (min. 0-1-8), 19=9200-5-8, (min. 0-1-8), 19=9200-5-8, (min. 0-1-8), 19=920, (LC 4) FORCES (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-1023/111, 2-3=-881/52, 3-4=878/55, 4-5=-749/39 BOT CHORD 7-8=-86/1919 WEBS 1-9=-81778, 2-8=-388/117, 1-8=-113/1990, 3-7=517/95, 2-7=-1088/66, 4-7=-55/1176 NOTES 1) Wind: ASCE 7-05; 90mph; TCDL=6.0psf; h=25ft; Cat. II; Exp B : Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple courrent live loads. 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for basic load combinations, which include cases with reductions for multiple courrent live loads. 5) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for to park blowf. 5) Provide adequate drainage to prevent water ponding. 5) Provide adequate drainage to prevent water ponding. 5) Provide adequate drainage to prevent water ponding. 6) Provide mechanical connection whits holding 4b loybit at joint 9, 9 tho upilit at joint 5, 9 the upilit at joint 5, 9 this tabs for designed for a 100 ps for botom chord live load nonconcurrent with any other live loads. | BOT CHORD | Rigid ceiling directly bracing. | / applied or 6-0-0 oc | _ | | | | | | | | | |
| REACTIONS (Ib/size) 5=506/1-4-6; (min. 0-1-8); 6=424(0-3.8; (min. 0-1-8); 9=870(0-5.8; (min. 0-1-8); 9=870(0-5.6; (min. 0-1-8); 9=870(0-5.6; (min. 0-1-8); Max Uplift 5=9 (LC 6); 6=-45 (LC 4), 9=-49 (LC 4) FORCES (Ib) - Max. Comp./Max. Ten All forces 250 (Ib) or less except when shown. TOP CHORD 1-2=-1923/111, 2-3=-881/52; 3-4==878/55; 4-5=-749/39 BOT CHORD 7-8=-86/1919 WEBS 1-9=-817/76; 2-7=-1088/66; 4-7=-55/1176 NOTES 10 Vint. ASCE 7-05; 90mph; TCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; catilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads. 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for 10.0 psf bottom chord live load nonconcurrent with any other ive loads. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4) B uplift at joint 9, 9 B uplift at joint 5 and 45 Ib uplift at joint 4) | | Millek recommends required cross brac truss erection, in ac Installation guide. | s that Stabilizers and cing be installed during ccordance with Stabilize | 91 | | | | | | | | | |
| FORCES (b) - Max. Comp./Max. Ten All forces 250 (b) or less except when shown. TOP CHORD 1-2=-1923/111, 2-3=-881/52, 3-4=-878/55, 4-5=-749/39 BOT CHORD 7-8=-86/1919 WEBS 1-9=-817/78, 2-8=-388/117, 1-8=-113/1990, 3-7=-517/95, 2-7=-1088/66, 4-7=-55/1176 NOTES 1-9=-517/25, 2-7=-1088/66, 4-7=-55/1176 NOTES 1-9=-517/25, 2-7=-1088/66, 4-7=-55/1176 Notes 1-9=-517/95, 2-7=-1088/66, 4-7=-55/1176 Notes -0=-20-20-20-20-20-20-20-20-20-20-20-20-20- | REACTIONS | (Ib/size) 5=506/1-4 6=424/0-3 9=870/0-5 Max Horiz 9=31 (LC Max Uplift 5=-9 (LC (LC 4) | 4-6, (min. 0-1-8), 3-8, (min. 0-1-8), 5-8, (min. 0-1-8) 5) 6), 6=-45 (LC 4), 9=-49 | | | | | | | | | | |
| TOP CHORD 1-2=-1923/111, 2-3=-881/52, 3-4=-878/55, 4-5=-749/39 BOT CHORD 7-8=-86/1919 WEBS 1-9=-817/78, 2-8=-388/117, 1-8=-113/1990, 3-7=-517/95, 2-7=-1088/66, 4-7=-55/1176 NOTES 1) VII:01: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed; end vertical left and right exposed; lowber box and right exposed; lowber | FORCES | (lb) - Max. Comp./M (lb) or less except w | lax. Ten All forces 250 /hen shown. |) | | | | | | | | | |
| BOI CHORD 7-886/1919 WEBS 1-9-817/78, 2-8388/117, 1-8113/1990, 3-7517/95, 2-71088/66, 4-755/1176 NOTES 1) Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads. 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 9, 9 lb uplift at joint 5 and 45 lb uplift at joint 6. | TOP CHORD | 1-2=-1923/111, 2-3= 4-5=-749/39 | =-881/52, 3-4=-878/55, | | | | | | | | | | |
| NOTES 1) Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads. 3) Provide adequate drainage to prevent water ponding. 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 9, 9 lb uplift at joint 5 and 45 lb uplift at joint 6. | WEBS | 7-8=-86/1919 1-9=-817/78, 2-8=-3 3-7=-517/95 2-7=-1 | 88/117, 1-8=-113/1990 088/66 4-7=-55/1176 | , | | | | | | | | | |
| Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads. Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 9, 9 lb uplift at joint 5 and 45 lb uplift at joint 6. | NOTES | o i o i i i i i o i i i i o i i i i o i i i i o i i i o i i i o i i i o i i i o i i i o i i i o i i o i i o i i | | | | | | | | | | | |
| This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads. Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 9, 9 lb uplift at joint 5 and 45 lb uplift at joint 6. | Wind: ASC h=25ft; Ca exterior zo vertical lef grip DOL= | CE 7-05; 90mph; TCD at. II; Exp B; Enclosed one; cantilever left and ft and right exposed; L =1.60 | L=6.0psf; BCDL=6.0ps ; MWFRS (low-rise) d right exposed ; end .umber DOL=1.60 plate | f; | | | | | | | | | |
| Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 9, 9 lb uplift at joint 5 and 45 lb uplift at joint 6. | This truss combination multiple combination | has been designed fo ons, which include cas oncurrent live loads. | or basic load ses with reductions for | | | | | | | | | | |
| 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 9, 9 lb uplift at joint 5 and 45 lb uplift at joint 6. | Provide ad This truss | dequate drainage to p has been designed fo | revent water ponding. or a 10.0 psf bottom | | | | | | | | | | |
| | 5) Provide m bearing pl 9, 9 lb upl | ioad nonconcurrent w lechanical connection ate capable of withsta ift at joint 5 and 45 lb i | (by others) of truss to nding 49 lb uplift at join uplift at joint 6. | t | | | | | | | | | |

| Job | | Truss | | Truss Type | | Qty | | Ply | Corporate (| Cont_Jol | hnson | Boathouse | |
|---|---|---|--|-----------------|--------------------|---------|----------------|----------------|---------------------|----------------|------------|--------------------|------------------------|
| 2860207 | | T18 | | Monopitch | | 1 | | 1 | Job Refere | nce (opti | ional) | | |
| Builders FirstSour | ce, De Pere, WI | ., David Holzer | | | Run: 8.42 S Dec 30 | 2020 P | rint: 8.4 | 420 S Dec 3 | 30 2020 MiTek | Industrie | s, Inc.⊺ | Fue Sep 07 09:26:3 | 6 Page: 1 |
| | | | | | | ID |):X_?cł | 10R3G0IPI | vhFZ8Kd1tyg3 | 8rcZdgV | 'Hby0uł | HaGQMXRAENpCo | ld9ulbzcd7vLs9Hzyg3TY |
| | | | / | | 9- | 8-5 | | | | | | | |
| | | | ' | | | | | | | | | | |
| | | | | | 0.25 | 12 Г | | | | | | | |
| | | | 3x4 | | | | | 2x4 | | | | 5x8 | |
| | | | | | | | | 2 | | | | 3 | |
| | | | 1 | | | | T | | | | | | |
| | | | | | | | | | | | / | | |
| ٢- | | , | W1 | W2 | _ | | | W3 | | W 4 | | BL1 | r- |
| 2-2 | 2-0-(| | | | | _ | | | | | | | 2-2 |
| | | | | | | | | | $\langle /$ | | | | |
| | | | | | | | B1 | | | | | | |
| Ň | × × | | X | | | | | 6 | | | | | × × |
| | | | 7 | | | | | | | | 5 | 4 | |
| | | | 2x4 | | | | | 3x10 |) | | | 2x4 | |
| | | | | | | | | | | | | | |
| Scale = 1:23.1 | | | <u> </u> | | 9- | 8-5 | | | | | | | |
| | | | · | | | | | | | | | | |
| Loading TCLL (roof) | () | 80.0 Plate | cıng e Grip DOL | 2-0-0 1.15 | TC | 0.77 | Vert(I | - LL) -0 | in (loc) .05 6-7 | l/defl >999 | L/d 240 | MT20 | GRIP 197/144 |
| TCDL BCLI | 2 | 20.0 Lum 0.0 Rep | ber DOL Stress Incr | 1.15 YES | BC WB | 0.29 | Vert(Horiz | TL) -0 (TL) | .15 6-7 n/a - | >649 n/a | 180 n/a | | |
| BCDL | 1 | 0.0 Code | e | IRC2009/TPI2007 | Matrix-S | 0.20 | TIONE | (12) | n/a | n/a | n/a | Weight: 38 lb | FT = 10% |
| TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD | 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 2x4 SPF No.2 Structural wo 3-8-2 oc purli Rigid ceiling of bracing. | 2 2 2 od sheathing ns. directly applid mends that 3 | g directly applie ed or 6-0-0 oc Stabilizers and | d or | | | | | | | | | |
| | required crost truss erection Installation g | ss bracing be n, in accorda juide. | e installed durin ince with Stabil | g zer | | | | | | | | | |
| N N | 5=1 5=1 7=5 Max Horiz 7=2 Max Uplift 4=- | 132/0-3-8, (m 549/0-5-8, (m 27 (LC 5) 4 (LC 6), 5=- | nin. 0-1-8), nin. 0-1-8), nin. 0-1-8) -30 (LC 4), 7=-3 | 31 | | | | | | | | | |
| FORCES | (LC (lb) - Max. Co | , ₄) mp./Max. Te | en All forces 2 | 50 | | | | | | | | | |
| | (lb) or less ex 1-2=-803/45, | cept when sl 2-3=-805/48 | hown. , 3-4=-521/30 1 | | | | | | | | | | |
| NOTES | 3-6=-43/951 | <u>-</u> -000 4 /12 | ·, ·-o++/029, | | | | | | | | | | |
| 1) Wind: ASCE h=25ft; Cat. exterior zon vertical left : grip DOI =1 | E 7-05; 90mpł II; Exp B; En e; cantilever I and right expo 60 | n; TCDL=6.0 closed; MWF eft and right osed; Lumbe | psf; BCDL=6.0 RS (low-rise) exposed ; end r DOL=1.60 pla | osf; te | | | | | | | | | |
| 2) This truss h combinatior multiple cor | as been designs, which inclu ncurrent live lo | gned for basi ide cases wit oads. | c load th reductions fo | r | | | | | | | | | |
| 3) Provide ade 4) This trues b | equate drainaç | ge to prevent | water ponding | | | | | | | | | | |
| chord live lo | ad nonconcu | rrent with an | y other live load | ls. | | | | | | | | | |
| bearing plat | chanical conn te capable of v | ection (by ot withstanding | 31 lb uplift at jo | int | | | | | | | | | |
| 7, 4 lb uplift 6) This truss is | at joint 4 and designed in a | 30 lb uplift a accordance v | it joint 5. with the 2009 | | | | | | | | | | |
| Internationa R802.10.2 a | al Residential | Code section d standard A | ns R502.11.1 an NSI/TPI 1. | nd | | | | | | | | | |

LOAD CASE(S) Standard

| Job | I | Truss | | Truss Type | | Qtv | Plv | Corr | orate C | ont Jo | hnson | Boathouse | |
|---|---|---|---|---|---|--|---|------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| 2860207 | | T10 | | Monopitch Structure | al Cabla | 1 | 1 | | 0.0.0 | 5.n_90 | | 200010000 | |
| 2000207 | | 113 | | | | ' | <u> </u> | Job | Referen | ce (opt | ional) | | |
| Builders FirstSo | urce, De Pere, W | I., David∣ | Holzer | 2-0-0 | Run: 8.42 S De 0 3x4 1 (1 (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2 | ec 30 2020 P ID:0 4-1-1 0.25 Г T1 2 B1 | rint: 8.420 S C QII_gNvuJh50: | 2x4 2 1 2 2 1 | 0 MiTek Zuyg3qO- | o-1-2 | is, Inc. 1 by0uHa | Tue Sep 07 09:26:3 | i6 Paç OuMKzfm7vLs9Hzyg |
| Scale = 1:25.7 | | | | : : ; | 2x4 | 4-1-1 | 4 | 3 4x6 → | | | | | |
| Loading TCLL (roof) TCDL BCLL BCDL | | (psf) 30.0 20.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2009/TPI2007 | CSI TC BC WB Matrix-P | 0.37 0.05 0.03 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in 0.00 0.00 n/a | (loc) 4-5 4-5 - | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 17 lb | GRIP 197/144 FT = 10% |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD | 2x4 SPF No. 2x4 SPF No. 2x4 SPF No. 2x4 SPF No. 2x4 SPF No. Structural wo 4-1-1 oc purl Rigid ceiling bracing. MiTek recor required cro truss erection Installation | 2 2 2 2 2 directly nmends ss braci on, in ac nuide | athing directly applie applied or 10-0-0 oc that Stabilizers and ng be installed durin cordance with Stabil | d or g zer | | | | | | | | | |
| REACTIONS | (lb/size) 3= 4= 5= Max Horiz 5= | 187/1-4 56/0-3-8 212/0-5 -27 (LC | -6, (min. 0-1-8), 3, (min. 0-1-8), -8, (min. 0-1-8) 9) |] | | | | | | | | | |

- Max Uplift 3=-32 (LC 6), 5=-28 (LC 4) Max Grav 3=187 (LC 1), 4=113 (LC 3), 5=212 (LC 1)
- FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (low-rise) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.602) This truss has been designed for basic load
- combinations, which include cases with reductions for multiple concurrent live loads.
- Provide adequate drainage to prevent water ponding.
 This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 5) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 28 lb uplift at joint 5 and 32 lb uplift at joint 3. 6)
- This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Strong-Drive[®] SDWC

Truss Screws

(())

((0))

NON

COMPANY

STRONG-TIE

SIMPSON

0 2017

C-C-2017

The Strong-Drive SDWC Truss Screw is tested in accordance with ICC-ES AC233 (screw) and AC13 (wall assembly and roof-to-wall assembly) for uplift and lateral loads between wall plates and vertical wall framing and between the top plate and the roof rafters or trusses. Strong-Drive SDWC15450 (not SDWC15600) is recognized for use in chemicallytreated wood as described in the evaluation report.

Material: Carbon steel

Finish: SDWC15450 - E-Coat™; SDWC15600 -Clear Zinc Coating (with Orange indicator)

Installation: • See General Notes

Codes: See p. 14 for Code Reference Key Chart

Strong-Drive® SDWC TRUSS Screw Allowable Roof-to-Wall Connection Loads - DF, SP, SPF, HF

| Model No. | Minor Diameter (in.) | Length (in.) | Thread Length (in.) | 120425 | | | | | | |
|--------------|----------------------------|-----------------|---------------------------|--------|-----|----------------|--------|----------------|----------------|--------------|
| | | | | DF/SP | | | SPF/HF | | | Code |
| | | | | Uplift | F1 | F ₂ | Uplift | F ₁ | F ₂ | non. |
| SDWC15600 | 0.152 | 6 | 5¾ | 615 | 130 | 225 | 485 | 115 | 192 | IP5, FL, L25 |

Optimal 221/2°

10

Installation Angle Limit

max

1. Loads have been increased for wind and earthquake ($C_D = 1.6$); no further increases allowed. Reduce when other loads govern.

2. Allowable loads are for a Strong-Drive SDWC Truss screw installed per the 'Recommended' or 'Optional' installation instructions. The Strong-Drive SDWC Truss screw is to be installed through a double 2x top plate into a minimum 2x4 truss or rafter.

3. A Strong-Drive SDWC Truss screw may be used in each ply of a 2- or 3-ply rafter or truss. The allowable uplift load for each screw shall be multiplied by 0.90, but may be limited by the capacity of the plate or the connection between the top plate to the framing below. Strong-Drive SDWC Truss screws in multi-ply assemblies must be spaced a minimum of 11/2" o.c.

- 4. Screws are shown installed on the interior side of the wall. Installations on the exterior side of the wall are acceptable when the rafter or truss overhangs the top plates a minimum of 31/2".
- 5. For uplift continuous load path, plate-to-stud connections should be made using the SDWC screw shown on pp. 322-323
- 6. When the screw is loaded simultaneously in more than one direction, the allowable load must be evaluated using the following unity equation: (Design Uplift ÷ Allowable Uplift) + (Design $F_1 \div$ Allowable F_1) + (Design $F_2 \div$ Allowable F_2) ≤ 1.0 .
- 7. Table loads do not apply to trusses with end-grain bearing.
- 8. Top plate-to-stud and top-plate splice fastened per applicable building code.

Typical Roof-to-Wall Connection



Typical Strong-Drive® SDWC Installation - Truss Aligned with Stud (Offset truss similar)

Optional Roof-to-Wall Connection



Optional Strong-Drive® SDWC Installation - Truss Offset from Stud



Allowable Installation Range (Truss offset from stud only)



Min. Edge Distance for Top Plate Splice



Min. Edge Distance for **Top Plate Splice**







6"

Strong-Drive SDWC15600

SHONDER

Strong-Drive[®] SDWC

Truss Screws (cont.)

(0)

C-C-2017 @ 2017 SIMPSON STRONG-TIE COMPANY INC.

(((

Typical Roof-to-Wall Connection Utilizing Two-Screw Configurations



for optimal 22.5° installation.

Straps and Ties

included in screw kits for optimal 22.5° installation. To pre-drill through truss plates, use a 1/8" drill bit.

Strong-Drive[®] SDWC

SIMPSON Strong Tie

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Truss Screws (cont.)

SDWC Truss/Rafter-to-Top Plate Connections Utilizing Two-Screw Configurations

Allowable loads for the SDWC Truss screws when installed from the underside of the top plate and from the face of the truss/rafter using a two-screw configuration per the detail configurations shown on following page.

SDWC – Allowable Loads for Truss/Rafter-to-Top Plate Two-Screw Connections

| Model No. | Minor Diameter (in.) | Length (in.) | Thread Length (in.) | Quantity Required | | | | | | | |
|--------------|----------------------------|-----------------|---------------------------|----------------------|--------|-----|----------------|--------|-----|----------------|---------------|
| | | | | | DF/SP | | | SPF/HF | | | Configuration |
| | | | | | Uplift | F1 | F ₂ | Uplift | F1 | F ₂ | |
| SDWC15600 | 0.152 | 6 | 5¾ | 2 | 1,200 | 685 | 995 | 1,045 | 495 | 670 | А |
| | | | | | 1,195 | 680 | 925 | 1,195 | 405 | 680 | В |
| | | | | | 905 | 535 | 790 | 850 | 330 | 595 | С |
| | | | | | 1,115 | 645 | 920 | 960 | 385 | 610 | D |

1. Loads have been increased for wind and earthquake loading (Cp = 1.6) with no further increase allowed; reduce where other loads govern.

2. For Uplift Connection Load Path, the designer shall verify complete continuity of the uplift load path.

3. When cross-grain tension cannot be avoided, supplemental reinforcement shall be considered by the Designer.

4. The SDWC screws shall not interfere with other fasteners or truss plates. Where truss plates must be penetrated for Configuration D, a Truss Designer approval is required in accordance with ANSI/TPI 1-2007/2014, Section 7.5.3.4 and 8.9.2. To pre-drill through truss plate, use a 1/8" drill bit.

5. The metal installation guide provided with the screw is angled at 22.5° and can be used for Configurations C and D; proper installation angles for all configurations are the responsibility of the installer.

6. SDWC screws must be offset min. 1/4" from top plate splices for full values.

7. Loads assume minimum overhang of 31/2".

8. When a screw is loaded simultaneously in more than one direction, the allowable load must be evaluated using the unity equation: (Design Uplift \div Allowable Uplift) + (Design F₁ \div Allowable F₁) + (Design F₂ \div Allowable F₂) \le 1.0. The three terms in the unity equation represent the possible generated force directions. The number of terms that must be considered for simultaneous loading is the sole discretion of the Designer and depends on the method of calculating wind forces and the utilization of the screws within the structural system.

SDWC and SDWF Detail Sheet

When used together as a system with anchor bolts at the foundation, the SDWC and SDWF screws are a reliable, safe and economical solution for creating a continuous load path and resisting wind uplift. To learn more, visit strongtie.com/sdwcf.

