



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

RE: Stephen_Jones - Stephen Jones

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: SCCI Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 6 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T20537563	A1GE	6/23/20
2	T20537564	A2	6/23/20
3	T20537565	CJ1	6/23/20
4	T20537566	J1	6/23/20
5	T20537567	J2	6/23/20
6	T20537568	J3	6/23/20



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc.
under my direct supervision based on the parameters
provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Albani, Thomas

My license renewal date for the state of Florida is February 28, 2021.

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



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 23,2020

Albani, Thomas

1 of 1

Job	Truss	Truss Type	Qty	Ply	Stephen Jones	T20537563
STEPHEN_JONES	A1GE	Hip Girder	2	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 09:39:50 2020 Page 1
 ID:SHnotHqBJyHJ0AFDRpE5chz5?0Z-TnWOP0?FYp34XijKvdwQFpCHDFRdRt_RBiA3k3mz3RV7
 -1-6-0 5-0-0 10-6-14 16-0-0 21-5-2 27-0-0 32-0-0 33-6-0
 1-6-0 5-0-0 5-6-14 5-5-2 5-5-2 5-6-14 5-0-0 1-6-0
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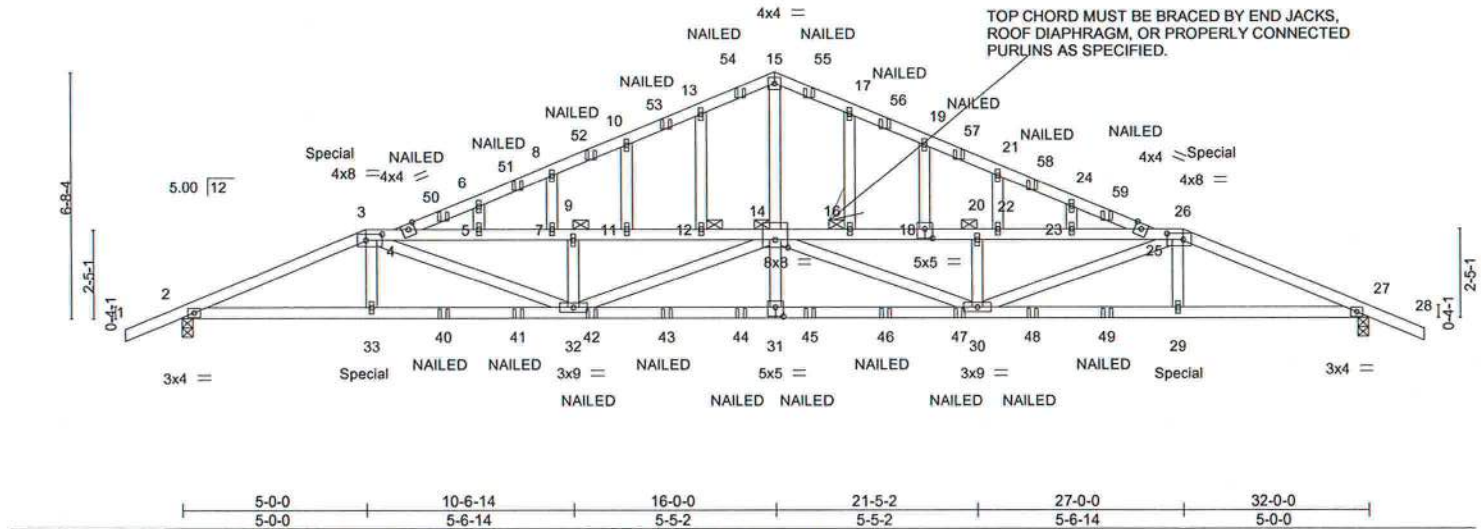


Plate Offsets (X,Y)--		[3:0-5-4,0-2-0], [14:0-4-0,0-2-8], [18:0-2-8,0-3-0], [26:0-5-4,0-2-0], [31:0-2-8,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCCL 20.0	Plate Grip DOL	1.25	TC 0.77	Vert(LL)	-0.16 30-31	>999	240	MT20	244/190		
TCDL 10.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.33 30-31	>999	180				
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.24	Horz(CT)	0.10 27	n/a	n/a				
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS								
								Weight: 419 lb	FT = 0%		

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-5-2 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	JOINTS	1 Brace at Jt(s): 9, 14, 20, 12, 16

REACTIONS. (size) 2=0-3-8, 27=0-3-8
 Max Horz 2=109(LC 24)
 Max Uplift 2=-4(LC 8), 27=-4(LC 8)
 Max Grav 2=2141(LC 1), 27=2141(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4827/0, 3-4=-4914/0, 4-5=-2276/67, 5-7=-2276/67, 7-9=-2276/67, 9-11=-2276/67, 11-12=-2276/67, 12-14=-2276/67, 14-16=-2276/67, 16-18=-2276/67, 18-20=-2276/67, 20-22=-2276/67, 22-23=-2276/67, 23-25=-2276/67, 25-26=-4914/0, 26-27=-4828/0, 4-6=-2894/0, 6-8=-2821/0, 8-10=-2907/0, 10-13=-2918/15, 13-15=-2864/33, 15-17=-2864/33, 17-19=-2918/15, 19-21=-2907/0, 21-24=-2821/0, 24-25=-2894/0
 BOT CHORD 2-33=0/4422, 32-33=0/4442, 31-32=0/2916, 30-31=0/2916, 29-30=0/4442, 27-29=0/4422
 WEBS 3-33=0/384, 3-32=-77/506, 9-32=-740/145, 14-32=-10/2146, 14-31=0/351, 14-30=-10/2147, 20-30=-740/145, 26-30=-77/506, 26-29=0/384, 14-15=0/1881, 7-8=-410/85, 21-22=-410/85

- NOTES-
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 27.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.



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 Date:

June 23,2020

Job	Truss	Truss Type	Qty	Ply	Stephen Jones	T20537563
STEPHEN_JONES	A1GE	Hip Girder	2	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 09:39:50 2020 Page 2
ID:SHnotHqBJyHJ0AFDRpE5chz570Z-TnWOPO?FYp34XijKvdwQFpCHDFRdT_RBIA3k3mz3RV7

NOTES-

- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 165 lb down and 95 lb up at 5-0-0, and 165 lb down and 95 lb up at 27-0-0 on top chord, and 183 lb down at 5-0-0, and 183 lb down at 26-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 25-26=-60, 26-28=-60, 34-37=-20, 4-15=-60, 15-25=-60

Concentrated Loads (lb)

Vert: 3=-69(F) 26=-69(F) 33=-183(F) 29=-183(F) 40=-38(F) 41=-38(F) 42=-38(F) 43=-38(F) 44=-38(F) 45=-38(F) 46=-38(F) 47=-38(F) 48=-38(F) 49=-38(F) 50=-65(F) 51=-65(F) 52=-65(F) 53=-65(F) 54=-65(F) 55=-65(F) 56=-65(F) 57=-65(F) 58=-65(F) 59=-65(F)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Stephen Jones	T20537564
STEPHEN_JONES	A2	Common	18	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 09:39:52 2020 Page 1

ID:SHnotHqBjyHJ0AFDRpE5chz570Z-Q9e9q40W4QJnm?ii12yuKEHkx38MxolU9UYr7ez3RV5

-1-6-0	5-9-3	10-10-10	16-0-0	21-1-6	26-2-13	32-0-0	33-6-0
1-6-0	5-9-3	5-1-6	5-1-6	5-1-6	5-1-6	5-9-3	1-6-0

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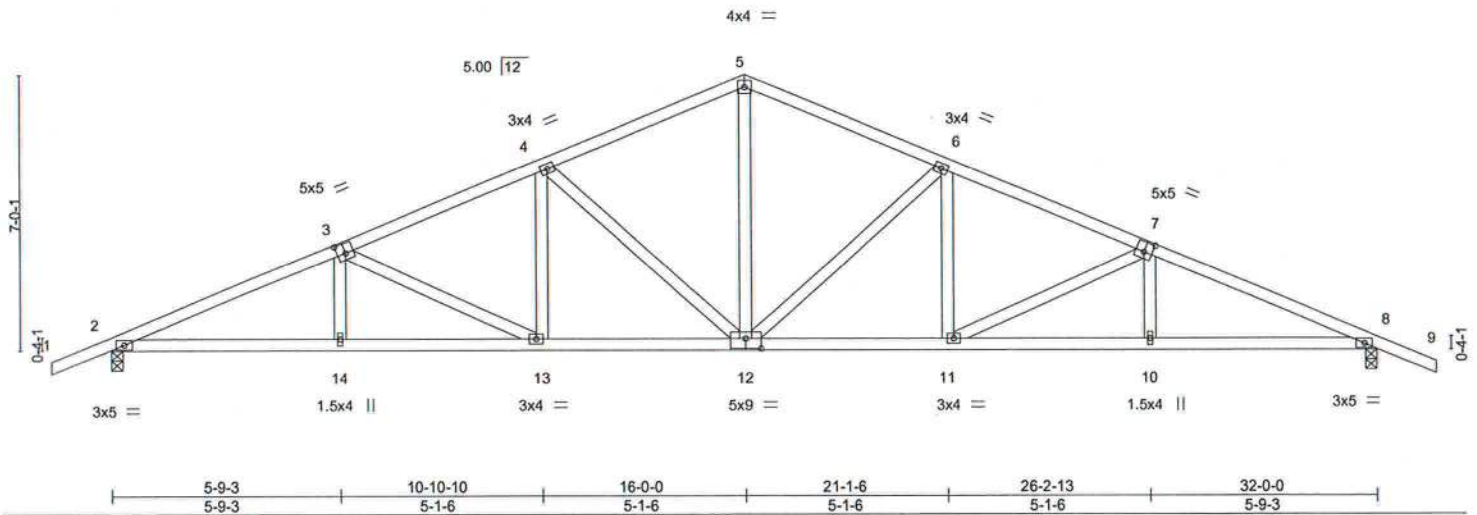


Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [12:0-4-8,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.38	Vert(LL)	-0.15 12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.31 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.12 8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 168 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 2=0-3-8, 8=0-3-8
Max Horz 2=-114(LC 10)
Max Uplift 2=-36(LC 12), 8=-36(LC 12)
Max Grav 2=1370(LC 1), 8=1370(LC 1)

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

TOP CHORD 2-3=-2775/648, 3-4=-2259/579, 4-5=-1729/502, 5-6=-1729/502, 6-7=-2259/579,
7-8=-2775/648
BOT CHORD 2-14=-493/2511, 13-14=-495/2507, 12-13=-349/2032, 11-12=-351/2032, 10-11=-510/2507,
8-10=-508/2511
WEBS 5-12=-227/985, 6-12=-669/217, 6-11=-15/381, 7-11=-535/176, 4-12=-669/217,
4-13=-15/381, 3-13=-535/176

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

June 23,2020



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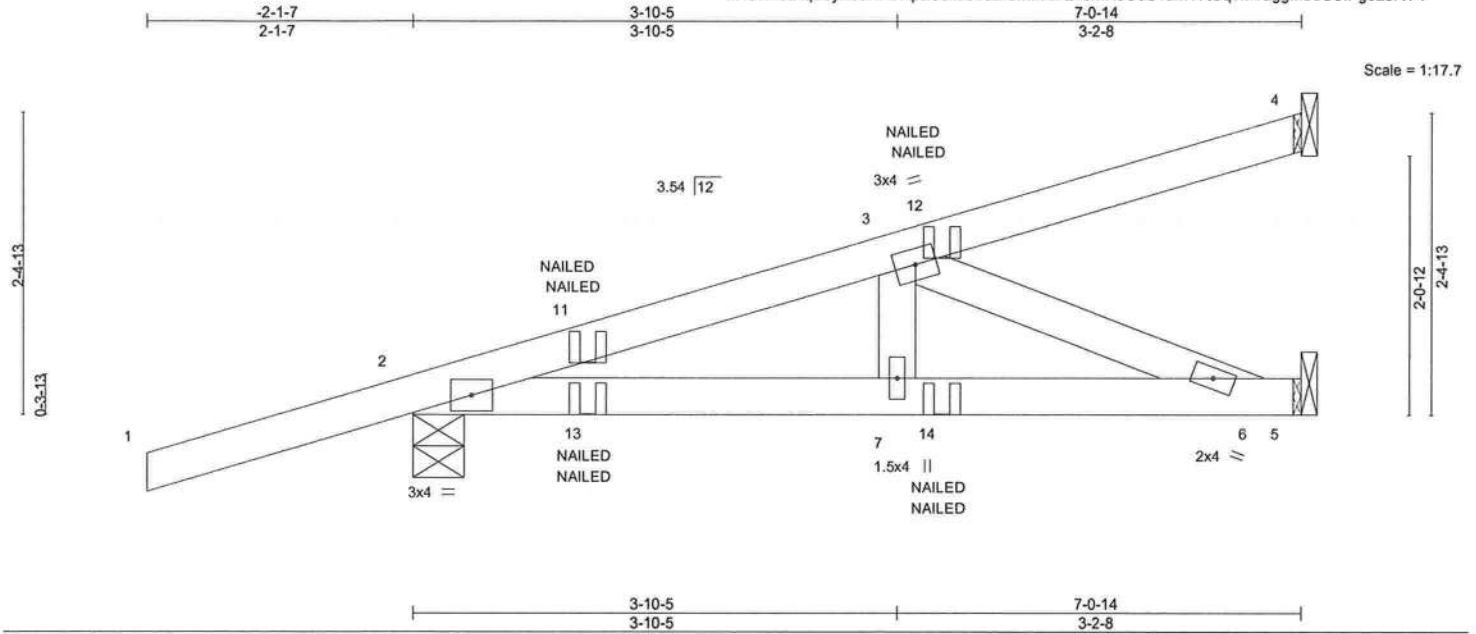


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Stephen Jones	T20537565
STEPHEN_JONES	CJ1	Diagonal Hip Girder	4	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 09:39:53 2020 Page 1
ID:SHnotHqBJyHJ0AFDRpE5chz570Z-uMBX2Q18rkReO9SvamT7tSqVMTaggMudO8IPg5z3RV4



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.25	Vert(LL) -0.02 7-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.07	Vert(CT) -0.02 6-7 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 5 n/a n/a		
	Code FBC2017/TP12014			Weight: 31 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-4-15, 5=Mechanical
Max Horz 2=72(LC 8)
Max Uplift 4=-18(LC 8), 2=-73(LC 8)
Max Grav 4=88(LC 17), 2=380(LC 1), 5=180(LC 29)

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

TOP CHORD 2-3=-475/0
BOT CHORD 2-7=0/421, 6-7=0/421
WEBS 3-6=-454/0

NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 13=62(F=31, B=31) 14=-8(F=-4, B=-4)



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Date:

June 23,2020

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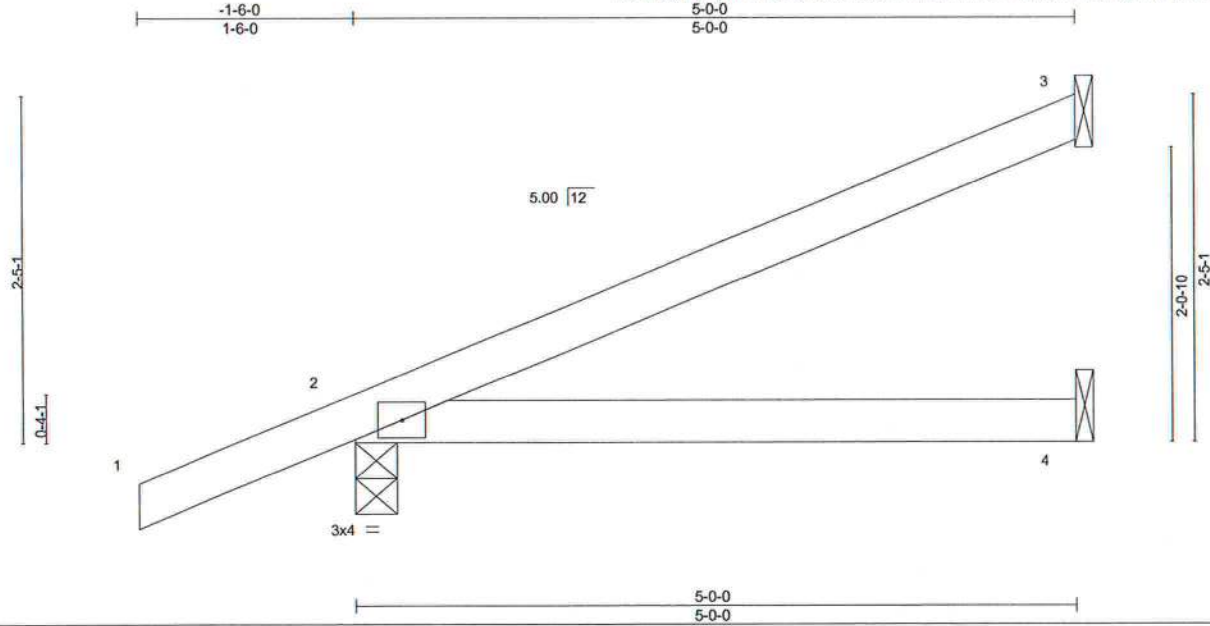
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Stephen Jones	T20537566
STEPHEN_JONES	J1	Jack-Open	24	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:SHnotHqBJyHJOAFDRpE5chz570Z-MYlvFm2mc2ZV?J158T?MQfN5ytvAPqCndo1yCXz3RV3



Scale = 1:15.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.02	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						Weight: 18 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=72(LC 12)
Max Uplift 3=25(LC 12), 2=33(LC 12)
Max Grav 3=125(LC 1), 2=301(LC 1), 4=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

June 23,2020

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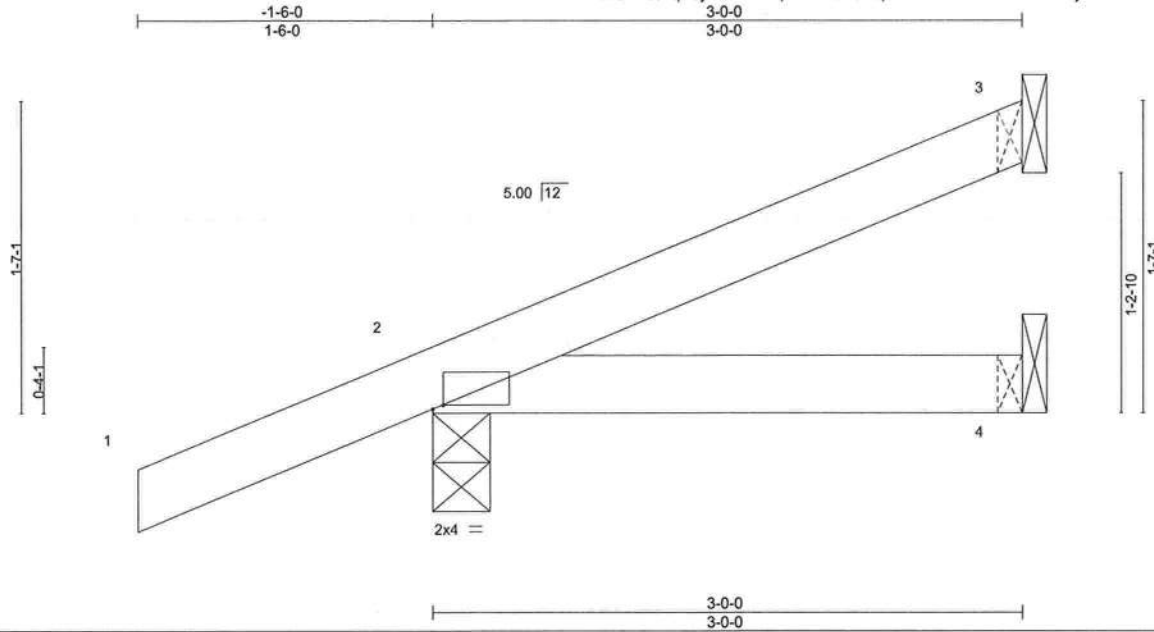
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Stephen Jones	T20537567
STEPHEN_JONES	J2	Jack-Open	8	1	Job Reference (optional)	

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 09:39:55 2020 Page 1
ID:SHnotHqBJyHJ0AFDRpE5chz5?0Z-qkJHS63ONLhMdTchIBWbytlrGHZ8HSwrSnVkzz3RV2



Scale = 1:11.3

Plate Offsets (X,Y)--		[2:0-0-10,Edge]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.14		Vert(LL)	-0.00	4-7	>999	240		MT20	244/190
TCDL 10.0		Lumber DOL	1.25	BC 0.07		Vert(CT)	-0.01	4-7	>999	180			
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00	3	n/a	n/a			
BCDL 10.0		Code FBC2017/TPI2014		Matrix-MP								Weight: 12 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=52(LC 12)
Max Uplift 3=-10(LC 12), 2=-42(LC 12)
Max Grav 3=64(LC 1), 2=230(LC 1), 4=50(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

June 23,2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



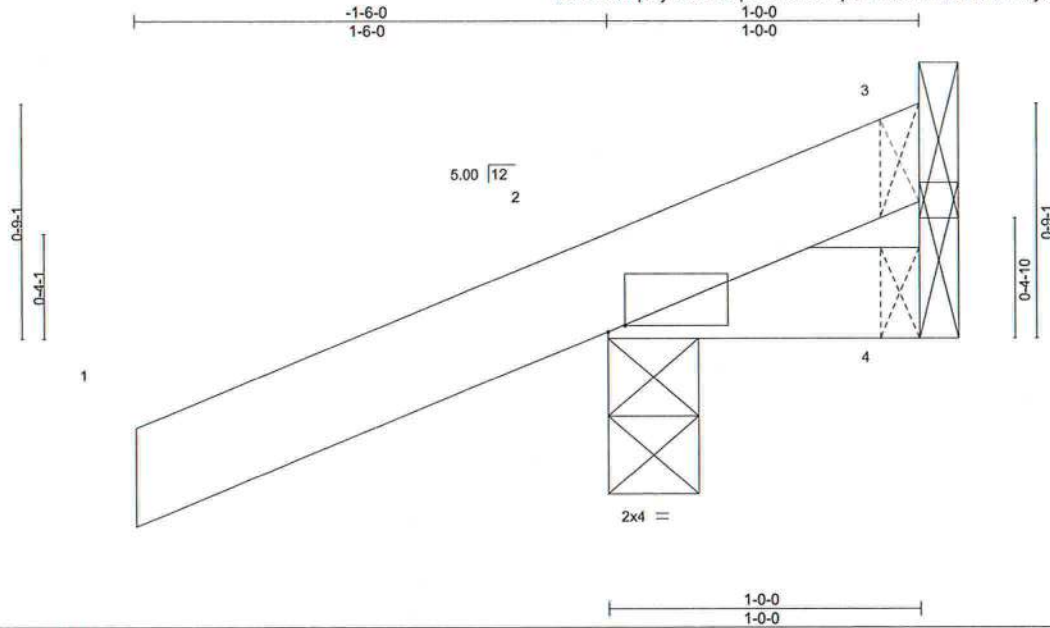
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Stephen Jones	T20537568
STEPHEN_JONES	J3	Jack-Open	8	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Tue Jun 23 09:39:55 2020 Page 1

ID:SHnotHqBJyHJ0AFDRpE5chz5?0Z-qk.JHS63ONLhMdTcHiBWbytlrGij8HSwrSnVkzz3RV2



Scale = 1:7.1

Plate Offsets (X,Y)-- [2-0-0-10,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vert(LL)	0.00	5	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	0.00	5	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	4	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						
								Weight: 6 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=33(LC 12)
Max Uplift 3=-6(LC 1), 2=-69(LC 12), 4=-23(LC 1)
Max Grav 3=11(LC 12), 2=198(LC 1), 4=21(LC 12)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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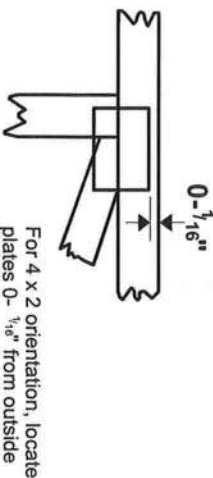
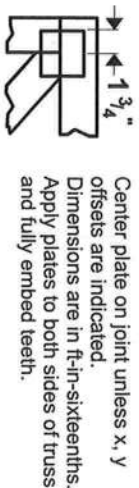
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

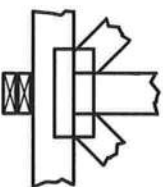
4 X 4

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

LATERAL BRACING LOCATION



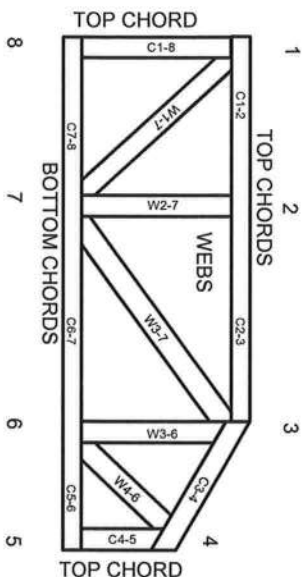
BEARING



Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative 1 or 1 bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.

Performance Data

FLORIDA PRODUCT APPROVAL PERFORMANCE DATA

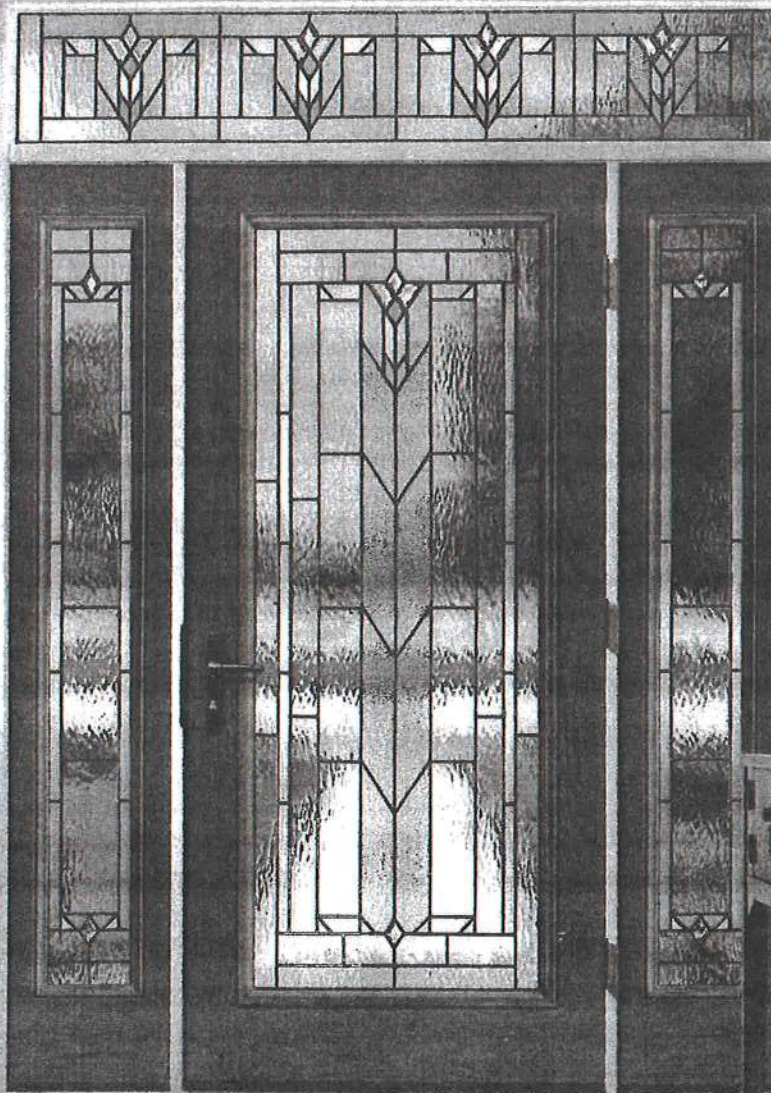
November 2016

		STANDARD PRODUCTS						IMPACT PRODUCTS					
		Design Pressure		Product Approval		HVHZ	MPL	Design Pressure		Product Approval		HVHZ	MPL
Configurations		Opaque	Glazed	Opaque	Glazed			Opaque	Glazed	Opaque	Glazed		
CLASSIC-CRAFT													
6/8	X	I=90 D=100		15036.1		Y		67		5891.3			
	X	77	57	15225.1	15225.1			100		10537.1 or 14986.2		Y	
	X	77	57	15227.1	15227.1	Y							
	X							90		10537.1		Y	
	XX, XO, OXO	47	40	15225.1	15225.1								
	XX, OXO	47	40	15225.1	15225.1								
	XX, OXO	40	34	15225.1	15225.1								
	XX, OXO	47	40	15227.1	15227.1	Y							
	XX, OXO	47	40	15227.1	15227.1	Y							
	XX, OXO	40	34	15227.1	15227.1	Y							
	XX, XO, OXO, XX, OXO							55		10537.2 to 5		Y	
	XX, XO, OXO							55					
	XX, OXO							50					
	X, XO, XO, OXO							I=35-40 D=55		10975.1 to 3		Y	
	XX, OXO									10975.4.5		Y	
	X, XO, XO, OXO									10975.6 to 8		Y	Y
	XX, OXO							55		10975.9.10		Y	Y
	X, XO, XO, OXO, XX, OXO							50		15037.1.2			
	X, XO, XO, OXO, XX, OXO	55		15036.2 to 5		Y							
	X							I=47-63 D=50		7640.1			
	XX, OXO							I=47-50 D=50		7640.4.5			
	XX, OXO							I=49-50 D=50		7640.2.3			
	XX, OXO							50		7640.6 to 10		Y	
	X, XO, OXO	47		14982.1.2				+90-95		14986.1		Y	
	X							65		14986.7		Y	
	X							+90-95		14986.2		Y	
	X							70		14986.3 to 6		Y	
	6/8 CONTINUOUS SYSTEMS WITH MULTIPOINT LOCK												
14 Inswing	X, XO, XO, OXO	80	55	9196.1 to 3	9196.4 to 6	Y	Y						
	X, XO, XO, OXO		75		9196.7 to 9	Y	Y						
	X, XO, XO, OXO		70		9196.10 to 12	Y	Y						
	X, XO, XO, OXO	80	60	9856.13 to 15	9856.16 to 18	Y	Y						
	X, XO, XO, OXO		90		9856.19 to 21	Y	Y						
	X, XO, XO, OXO		90		9856.22 to 24	Y	Y						
8/0	X	75		15036.6		Y		67		5891.6			
	X	64	57	15225.1	15225.1								
	X	64	57	15227.1	15227.1	Y							
	X	60	60	14999.3	14999.1	Y	Y						
	X							I=50-65 D=50		6993.1			
	X							65		8871.1		Y	
	XX, XO, OXO	40	40	15225.1	15225.1								
	XX, OXO	40	40	15225.1	15225.1			65		8871.8.9		Y	
	XX, OXO	34	34	15225.1	15225.1								
	XX, XO, OXO	40	40	15227.1	15227.1	Y							
	XX, OXO	40	40	15227.1	15227.1	Y							
	XX, OXO	34	34	15227.1	15227.1	Y							
	X, XO, XO, OXO							65		8871.2 to 4		Y	
	X, XO, XO, OXO, XX, OXO							50	50	15037.3.4	7630.1 to 5		
	X, XO, XO, OXO, XX, OXO	47		15036.7 to 10		Y							
	X, XO, XO, OXO, XX, OXO	60		15036.7 to 10		Y							
	X, XO, XO, OXO, XX, OXO							50		7630.6 to 10		Y	
	XX, OXO							50		12334.4.5		Y	Y
	X, XO, XO, OXO							55		12334.1 to 3		Y	Y
	X, XO, XO, OXO, XX, OXO							+50-55		12334.16 to 20		Y	Y
	X, XO, XO, OXO, XX, OXO							+50-55		12334.11 to 15		Y	Y
	X, XO							55		14665.1.2		Y	
	X, XO, XO, OXO, OXO							I=50-55 D=55		14665.1.2		Y	
	X, XO							55		14665.1.2		Y	Y
	X, XO, XO, OXO, OXO							I=50-55 D=55		14665.1.2		Y	Y
	X	I=60-70 D=60	I=60-70 D=60	19897.1	19897.3								
	XX, XO, OXO	35	35	19897.2	19897.4								
	XX, XO, OXO	I=30-45 D=50	I=30-45 D=50	19897.2	19897.4								
X	I=65-75 D=65	I=65-75 D=65	19897.1	19897.3	Y								
XX, XO, OXO	+55-60	+55-60	19897.2	19897.4	Y								
8/0 CONTINUOUS SYSTEMS WITH MULTIPOINT LOCK													
14 Inswing	X, XO, XO, OXO	55		9223.1 to 3		Y	Y						
	X, XO, XO, OXO		55		9223.4 to 6	Y	Y						
	X, XO, XO, OXO		60		9223.7 to 9	Y	Y						
	X, XO, XO, OXO		70		8604.10 to 12	Y	Y						
	X, XO, XO, OXO		60		8604.13 to 15	Y	Y						
	X, XO, XO, OXO		80		8604.16 to 18	Y	Y						
COMPOSITE EDGE SMOOTH-STAR AND FIBER-CLASSIC	X	I=70-75 D=67	50	20461.1	20461.9			67	I=47-53 D=50	20468.1	20468.7		
	X	80	50	20461.1	20461.9	Y		67	50	20468.1	20468.7	Y	
	X		I=55-60 D=55		20461.9	Y							
	X		I=55-65 D=55		20461.9								
	X		I=55-65 D=55		20461.9	Y							
	X	67	I=45-50 D=65	20470.17	20470.23	Y							
	X	67	I=45-50 D=65	20470.17	20470.23	Y	Y						
	X		50		20461.9								

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