City of Belle Isle BUILDING PERMIT 2018-02-070

PERMIT MUST BE POSTED ON SITE

Permit Number: **2018-02-070**

Issue Date: **03/05/2018**

Site Address: **6501 Matchett Rd 32809**

Parcel Number: **24-23-29-0600-04-060**

Subdivision:

Class: **Residential**

Description of Work: **NEW DETACHED SINGLE STORY WOOD FRAME GARAGE (2 CAR)** *

Issued To: HOME OWNER

Business Phone: 407 607-1308

Name: Springer Jospeh Peter

Contractor License N/A

Payment Date & Method:

4/26/2018 ☐ Visa ■ Master Card ☐ Amex ☐ Check / Money Order # 0771

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

BUILDING	INSPECTOR	DATE	COMMENTS
100 Demo Final			
110 Footing			
120 Stem Wall			
130 Slab			
140 Lintel/Tie Beam			
150 Down Pour			
160 Tilt Panel			
170 Window In-progress			
180 Sheathing (wall)			
190 Sheathing (roof)			
195 Dry-in (roof/walls)			
200 Framing			
205 Drywall Nail/Screw			
210 Fire Rated Assembly			
220 Above-Ceiling			
230 Insulation			
240 Lathe			
250 Final			
260 Other			

Universal Engineering Sciences - 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

* OVERSIZED PLANS ARE INCLUDED THAT CANNOT BE SCANNED!

Inspection requests are to be emailed to BIDscheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 4pm. Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed. Inspection results will be sent out the following business day.

RECEIVED
APR 06 2018
revised
BY:

RECEIVED
MAR 29 2018
BY:

City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Building Permit (Land Use) Application

DATE: 2/12/18

PERMIT # 2016-02070

PROJECT ADDRESS 6501 Matchett Road, Belle Isle, FL ✓32809 ___32812

PROPERTY OWNER Joseph Springer PHONE 407 607 1308 VALUE OF WORK (labor &material) $ 16,000

IS: 28.20

PLEASE LIST THE NATURE OF YOUR PROPOSED IMPROVEMENTS

New detatched single story wood frame garage (2 car)

Please provide information, if applicable.

- **SINGLE FAMILY RESIDENCE:** 8.5"x11" Plat Survey, Plot Plan of Home and Floor Plans of New Construction/Revision Required
- **BOAT DOCK:** DEP Clearance Required with Application (Call 407-897-4100); please provide a copy of their report
- **SEPTIC SYSTEM (RESIDENTIAL):** – Provide verification of OC Health Dept approval for on-site septic tank system, per FAC Chap. 64E-6
- Homeowners will be required to have a contractor on record for homes that are rented and/or not homestead

Please Complete for the City of Belle Isle Zoning Review: **Parcel Id Number:** 24-23-29-0600-04-060

To obtain this information, please visit http://www.ocpafl.org/Searches/ParcelSearch.aspx

ZONING APPROVED

SPECIAL CONDITIONS: STRUCTURES MAY NOT ENCROACH INTO ANY EASEMENT OR REQUIRED SETBACK. Survey specific foundation plan required to show compliance with zoning setbacks. Note: this Zoning Approval MAY or MAY NOT be in conflict with your Deed Restrictions. For New Single Family Residence, a Traffic Impact Fee and School Impact will be assessed.

PLANNING & ZONING APPROVAL Date: 4/5/18 DATE

PLEASE COMPLETE for Building Review (min. of 2 sets of signed/sealed plans required)

CONSTRUCTION TYPE

OCCUPANCY GROUP ____Comm **Res:** ____Single Fam ____Multi Fam

#BLDG. ____ #UNITS ____ #STORIES 1 TOTAL SQ.FT. 600

MAX. FLOOR LOAD ____ MAX. OCCUPANCY ____

MIN. FLOOD ELEV. ____ LOW FLOOR ELEV. ____

WATER SERVICE ____ WELL ____ SEPTIC ____

BUILDING REVIEWER ____ DATE 4-9-18

VERIFIED CONTRACTOR'S LICENSE & INSURANCE ARE ON FILE DATE 4-9-18

NOC ✓ O/B disclosure

Per FSS 105.3.3:
An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies."

Republic Services is by legal contract the sole authorized provider of garbage, recycling, yard waste, and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial businesses may contact Republic Services at 407-293-8000 to setup accounts for Commercial, Construction Roll Off, or other services needed. Rates are fixed by contract and are available at City Hall or from Republic Services. The City enforces the contract through its code enforcement office. Failure to comply will result in a stop work order.

SEPARATE PERMITS ARE REQUIRED FOR ROOFING, ELECTRICAL, PLUMBING, GAS, MECHANICAL, SIGNS, POOLS, ENCLOSURES, ETC.

Wind Exposure Category: B____ C____ D____

SPRINKLERS REQ'D	Y	N	
If Required – SUBMIT COPY OF PLANS FOR FIRE REVIEW	Date: Sent ____	RCD ____	
ZONING	(Y)	N	$ 165.-
CERT OF OCC	Y	N	$ ____
TRAFFIC	Y	N	$ ____
SCHOOL	Y	N	$ ____
FIRE	Y	N	$ ____
SWIMMING POOL	Y	N	$ ____
SCREEN ENCLOSURE	Y	N	$ ____
ROOFING	Y	N	$ ____
BOAT DOCK	Y	N	$ ____
BUILDING	(Y)	N	$ 205.50
WINDOW(S)	Y	N	$ ____
DOOR(S)	Y	N	$ ____
FENCE	Y	N	$ ____
SHED	Y	N	$ ____
DRIVEWAY	Y	N	$ ____
OTHER ____	Y	N	$ ____
1% BCAIB FEE			2.06
1.5% DCA FEE			3.08
TOTAL			375.64

OTHER PERMITS REQUIRED:

ELECTRICAL	Y	NA
PREPOWER	Y	NA
MECHANICAL	Y	NA
PLUMBING	Y	NA
ROOFING	Y	NA
GAS	Y	NA

1ST FL 25
28 x 4 112
137
68.50
205.50

MC 0771
PAID 4.26.2018

101712, 104905, 107061

City of Belle Isle
Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Building Permit (Land Use) Application
To be completed as required by State Statute Section 713 and other applicable sections.

PERMIT # 2018-02-070

Owner's Name Joseph Springer

Owner's Address 6501 Matchett Rd, Belle Isle, FL 32809

Contractor Name By Owner	Company Name
License #	Company Address
Contact Phone/Cell 407 607 1308	City, State, ZIP
Contact Email jspringr@hotmail.com	Contact Fax

WARNING TO OWNER: Your failure to record a Notice of Commencement may result in your paying twice for improvements to your property. A notice of commencement must be recorded if job is $2500(+) or if A/C Replacement $7500(+) and posted on the job site before the first inspection. If you intend to obtain financing, consult with your lender or an attorney before recording your Notice of Commencement.

I hereby make Application for Permit as outlined above, and if same is granted I agree to conform to all Division of Building Safety Regulations (www.floridabuilding.org) and City Ordinances (www.municode.com) regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable City and/or State of Florida codes and /or ordinances. Application is hereby made to obtain a permit to do the work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction. I understand that a separate permit must be secured for all other construction including ROOFING, ELECTRICAL, MECHANICAL, PLUMBING, GAS, SIGNS, POOLS, SCREEN ENCLOSURES, ETC.

OWNER'S AFFIDAVIT: *I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.*

Owner Signature _____

The foregoing instrument was acknowledged before me this 2/2/18

by Joseph Springer who is personally known to me

and who produced Driver License as identification and who did not take an oath.

Notary as to Owner _____
State of Florida
County of Orange

MELISSA VILA
Notary Public - State of Florida
My Comm. Expires Jun 4, 2018
Commission # FF 129319

Contractor Signature _____

COMPANY NAME _____

The foregoing instrument was acknowledged before me this ___/___/___

by _____ who is personally known to me

and who produced _____ as identification and who did not take an oath.

Notary as to Owner _____
State of Florida
County of Orange

By owner

Impervious Surface Ratio Worksheet
Development Zoned A-1. A-2, R-1-AAA, R-1-AA, R-1-A, R-1 per City Code, Section 50-74: Impervious Surface Ratio

1. Total Lot Area (sqft) X 0.35 = Allowable Impervious Area (BASE).
   Total Lot Area 12443 X 0.35=
   Allowable Impervious Area (BASE) 4355
2. Calculate the "proposed" impervious area on the lot. This includes the sum of all areas that do not allow direct percolation of rainwater. *Examples include house, pool, deck, driveway, accessory building, etc*
   - House 2190
   - Driveway See below
   - Walkway See below
   - Accessory Buildings _____
   - Pool & Spa Total 2048
   - Deck & Patio included
   - Other _____

   Actual Impervious Area (AIA) 4238
3. If AIA is less than BASE, subtract AIA from BASE to determine the amount of impervious area that may be added without providing onsite retention.
4. If AIA is greater than BASE, then onsite retention **must be provided.**

Assuming 7.5 inches of rainfall based on a 24hr 10 year Rain Event (TP40), the formula is: **(7.5 inches rainfall/12 inches p/foot) X (result from line 4) = cubic feet of storage volume needed**

DW walkway

Permit Number: _____
Folio/Parcel Identification Number: _____
Prepared by: _____
_____
_____
Return to: _____
_____
_____

DOC# 20180232097
04/18/2018 11:28:37 AM Page 1 of 1
Rec Fee: $10.00
Phil Diamond, Comptroller
Orange County, FL
MB - Ret To: JOSEPH SPRINGER

NOTICE OF COMMENCEMENT

State of Florida, County of Orange

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. **Description of property** (legal description of the property, and street address if available)
   6501 Matchett Road, Belle Isle, Florida 32809
2. **General description of improvement**
   New Garage
3. **Owner information or Lessee information if the Lessee contracted for the improvement**
   Name Joseph Springer
   Address 6501 Matchett Rd, Belle Isle, FL 32809
   Interest in Property _____
   Name and address of fee simple titleholder (if different from Owner listed above)
   Name _____
   Address _____
4. **Contractor**
   Name Same as owner Telephone Number _____
   Address _____
5. **Surety** (if applicable, a copy of the payment bond is attached)
   Name _____ Telephone Number _____
   Address _____ Amount of Bond $ _____
6. **Lender**
   Name _____ Telephone Number _____
   Address _____
7. **Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**
   Name _____ Telephone Number _____
   Address _____
8. **In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**
   Name _____ Telephone Number _____
   Address _____
9. **Expiration date of notice of commencement** (the expiration date may not be before the completion of construction and final payment to the contractor, but will be 1 year from the date of recording unless a different date is specified) 4/18/19

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Under penalty of perjury, I declare that I have read the foregoing notice of commencement and that the facts stated in it are true to the best of my knowledge and belief.

_____ _____
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager — Signatory's Title/Office

The foregoing instrument was acknowledged before me this 18 day of April (month/year) 2018 by Joseph Peter Springer (name of person)

as _____ (Type of authority, e.g., officer, trustee, attorney in fact) for _____ (Name of party on behalf of whom instrument was executed)

_____ _____
Signature of Notary Public – State of Florida — Print, type, or stamp Commissioned Name of Notary Public

MARIA E. RAMOS
Notary Public – State of Florida
Commission # GG017297
My Comm. Expires May 25, 2021
Bonded through National Notary Assn.

Personally Known ____ OR Produced ID ✓
Type of ID Produced FL DL S145-195-58-106-0
exp. 3/24/2020

Form Revised: September 26, 2011

City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

RECEIVED
APR 19 2018
BY:

Product Approval Form

DATE: 4/19/18 PERMIT # 2018-02-070

PROJECT ADDRESS 6501 Matchett Rd Belle Isle, FL, Belle Isle, FL ✓ 32809 ___ 32812

As required by Florida Statue 553.842 and Florida Administrative Code 9B-72m, please provide the information and approval numbers of the building components listed below if they will be utilized on the building or structure. FL Approved products are listed online at www.floridabuilding.org or can be obtained from the local product supplier. The following information must be turned in with permit application and available onsite for inspections:

1. **This Product Approval Cover Sheet**
2. **Internet screen from FloridaBuilding.org showing PA#, approval and code edition stamped**
3. **Manufacturer's *installation* details from FloridaBuilding.org and requirements for each product stamped**

Product Type	Manufacturer	Model/Series	FL Product Approval #
EXTERIOR DOORS			
Swinging	~~Weld~~-Wen	746796	22513.6
Sliding			
Sectional/Rollup			
Other Garage	Pella 1880	" "	21967.R2
			.2E.3
WINDOWS			
Single/Dbl Hung	Jeld-Wen	Tilt	14104.1
Horizontal Slider			
Casement			
Fixed			
Mullion			
Skylights			
Other			
STRUCTURAL COMPONENTS			
Wood Connectors			
Wood Anchors			
Truss Plates			
Insulation Forms			
Lintels			
Other			

Product Type	Manufacturer	Model/Series	FL Product Approval #
WALL PANELS			
Sliding * Siding			24444.1 ✓
Soffits			
Other			
ROOFING PRODUCTS			
Asphalt Shingles			
Non Struct Metal			
Roofing Tiles			
Single Ply Roof			
Underlayment			
Other			
OTHER			

It is the applicant's responsibility to verify that specific products have been installed in accordance with their limitations and with the minimum required design pressures for the structure. Specific compliance will be verified during field inspections.

Applicant Signature _____ Date 4/19/18

UNIVERSAL
ENGINEERING SCIENCES
Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Materials Testing • Threshold Inspection
Building Code Administration, Compliance Inspection & Plan Review
3532 Maggie Blvd, Orlando, FL 32811 - P: 407.423.0504 - F: 407.423.3106

Work Order No. 107061

Inspection Report

Project Name:	6501 Matchett Road ~ COBI	Date:	04/09/2018 Any any
Address:	6501 Matchett Road ~ COBI, Belle Isle, Orange County, FL	Permit No:	2018-02-070
Client:	City of Belle Isle	Lot No.:	
ProjectNo.:	0115.1600430.0000-0115-05	Contact:	Susan Manchester at 407 581 8161

Scope of Inspection: REVIEW bldg app for detached garage - zoning has been approved

Inspection Type:

Disposition of Inspection:

Comments:

I hereby affirm that to the best of my knowledge and belief, the above listed inspection was performed as indicated and the work was reviewed for compliance with the approved plans, and all pertinent sections of the Florida Building Code.

Inspector: Dale Baker, BN 3927

Dale Baker

Need Product Approval information for siding, roofing, doors, windows, overhead door

4-10-18

PA's complete on 4.25.18

FLORIDA DEPARTMENT OF
Business & Professional Regulation

Florida dbpr

Product Approval
USER: Public User

OFFICE OF THE SECRETARY

FL #	FL21867-R2 Add revision ✓
Application Type	Revision
Code Version	2017
Application Status	Approved
	.2 & .3
Comments	
Archived	☐
Product Manufacturer	Amarr Garage Doors/Entrematic
Address/Phone/Email	165 Carriage Court Winston-Salem, NC 27105 (336) 251-1307 robert.richardson@entrematic.com
Authorized Signature	Robert Richardson robert.richardson@entrematic.com
Technical Representative	Robert Richardson
Address/Phone/Email	165 Carriage Court Winston-Salem, NC 27105 (336) 251-1307 robert.richardson@entrematic.com
Quality Assurance Representative	Danny Joyner
Address/Phone/Email	Amarr Garage Doors 165 Carriage Court Winston-Salem, NC 27105 djoyner@amarr.com
Category	Exterior Doors
Subcategory	Sectional Exterior Door Assemblies
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Thomas L. Shelmerdine
Florida License	PE-0048579
Quality Assurance Entity	Intertek Testing Services NA, Inc. - QA Entity
Quality Assurance Contract Expiration Date	12/31/2020
Validated By	Steven M. Urich, PE ☑ Validation Checklist - Hardcopy Received
Certificate of Independence	FL21867_R2_COI_Statement of Independence 2017.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ANSI/DASMA 108	2012
ANSI/DASMA 115	2012
ASTM E1886	2005
ASTM E1996	2009
ASTM E330	2002
ASTM F588	2004
TAS 201, 202, 203	1994

Equivalence of Product Standards Certified By

Florida Licensed Professional Engineer or Architect
FL21867_R2_Equiv_DASMA 108 and 115 2005 vs 2012.pdf

Sections from the Code

Product Approval Method — Method 1 Option D

Date Submitted — 12/18/2017
Date Validated — 12/19/2017
Date Pending FBC Approval — 01/06/2018
Date Approved — 04/10/2018

Summary of Products

FL #	Model, Number or Name	Description
21867.1	Amarr Olympus 3200 (Model C500);Amarr Designers Choice 3200	IRC-C509-155-15-I Thru 9'-0" wide
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +38.0/-44.9 **Other:** Clamshell Section Profile;Impact glazing is 1/4" polycarbonate with aluminum frame		**Installation Instructions** FL21867_R2_II_IRC-C509-155-15-I Drawing 7-10 FL.pdf Verified By: Thomas L. Shelmerdine PE-0048579 Created by Independent Third Party: Yes **Evaluation Reports** FL21867_R2_AE_IRC-C509-155-15-I Evaluation Report 7-10 FL.pdf FL21867_R2_AE_IRC-C509-155-15-I Report 7-10 FL.pdf FL21867_R2_AE_Makrolon NOA 17-0410.01.pdf FL21867_R2_AE_NOA 17-0410.01 FBC 6th Edition Compliance Letter.PDF Created by Independent Third Party: Yes
21867.2	Amarr Olympus 3200 (Model C500);Amarr Designers Choice 3200	IRC-C516-155-26-I Thru 16'-0" wide
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +36.4/-41.4 **Other:** Clamshell Section Profile;Impact glazing is 1/4" polycarbonate with aluminum frame		**Installation Instructions** FL21867_R2_II_IRC-C516-155-26-I Drawing 7-10 FL.pdf Verified By: Thomas L. Shelmerdine PE-0048579 Created by Independent Third Party: Yes **Evaluation Reports** FL21867_R2_AE_IRC-C516-155-26-I Evaluation Report 7-10 FL.pdf FL21867_R2_AE_IRC-C516-155-26-I Report 7-10 FL.pdf FL21867_R2_AE_Makrolon NOA 17-0410.01.pdf FL21867_R2_AE_NOA 17-0410.01 FBC 6th Edition Compliance Letter.PDF Created by Independent Third Party: Yes
21867.3	Amarr Olympus 3200 (Model C500);Amarr Designers Choice 3200	IRC-C518-155-26-I Thru 18'-0" wide
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +37.0/-40.6 **Other:** Clamshell Section Profile;Impact glazing is 1/4" polycarbonate with aluminum frame		**Installation Instructions** FL21867_R2_II_IRC-C518-155-26-I Drawing 7-10 FL.pdf Verified By: Thomas L. Shelmerdine PE-0048579 Created by Independent Third Party: Yes **Evaluation Reports** FL21867_R2_AE_IRC-C518-155-26-I Evaluation Report 7-10 FL.pdf FL21867_R2_AE_IRC-C518-155-26-I Report 7-10 FL.pdf FL21867_R2_AE_Makrolon NOA 17-0410.01.pdf FL21867_R2_AE_NOA 17-0410.01 FBC 6th Edition Compliance Letter.PDF Created by Independent Third Party: Yes
21867.4	Amarr Stratford 1000, 2000 (M600); Amarr Heritage 1000, 2000 (M950); Amarr Oak Summit 1000, 2000 (M650)	IRC-6018-110-15 Thru 18'-2" wide
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes		**Installation Instructions** FL21867_R2_II_IRC-6018-110-15 Drawing 7-10 FL.pdf Verified By: Thomas L. Shelmerdine PE-0048579

Impact Resistant: No **Design Pressure:** +18.2/-20.6 **Other:** Glazing not available in wind borne debris regions		Created by Independent Third Party: Yes **Evaluation Reports** FL21867_R2_AE_IRC-6018-110-15 Evaluation Report 7-10 FL.pdf FL21867_R2_AE_IRC-6018-110-15 Report 7-10 FL.pdf Created by Independent Third Party: Yes
21867.5	Amarr Stratford 1000, 2000 (Model 600);Amarr Oak Summit 1000, 2000 (Model 650);Amarr Heritage 1000, 2000 (Model 950)	IRC-6018-130-24-L Thru 18'-0" wide
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +25.4/-28.7 **Other:** Glazing not available in wind borne debris regions		**Installation Instructions** FL21867_R2_II_IRC-6018-130-24-L Drawing 7-10 FL.pdf Verified By: Thomas L. Shelmerdine PE-0048579 Created by Independent Third Party: Yes **Evaluation Reports** FL21867_R2_AE_IRC-6018-130-24-L Evaluation Report 7-10 FL.pdf FL21867_R2_AE_IRC-6018-130-24-L Report 7-10 FL.pdf Created by Independent Third Party: Yes
21867.6	Model 1000/(Amarr 2432)	IBC-1009-150-11-I Thru 9'-2" wide
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +32.7/-38.4 **Other:** Impact glazing is 1/4" polycarbonate with aluminum frame		**Installation Instructions** FL21867_R2_II_IBC-1009-150-11-I Drawing 7-10 FL.pdf Verified By: Thomas L. Shelmerdine PE-0048579 Created by Independent Third Party: Yes **Evaluation Reports** FL21867_R2_AE_IBC-1009-150-11-I Evaluation Report 7-10 FL.pdf FL21867_R2_AE_IBC-1009-150-11-I Report 7-10 FL.pdf FL21867_R2_AE_Makrolon NOA 17-0410.01.pdf FL21867_R2_AE_NOA 17-0410.01 FBC 6th Edition Compliance Letter.PDF Created by Independent Third Party: Yes
21867.7	Model 1000/(Amarr 2432)	IBC-1012-150-15-I Thru 12'-2" wide
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +32.0/-36.7 **Other:** Impact glazing is 1/4" polycarbonate with aluminum frame		**Installation Instructions** FL21867_R2_II_IBC-1012-150-15-I Drawing 7-10 FL.pdf Verified By: Thomas L. Shelmerdine PE-0048579 Created by Independent Third Party: Yes **Evaluation Reports** FL21867_R2_AE_IBC-1012-150-15-I Evaluation Report 7-10 FL.pdf FL21867_R2_AE_IBC-1012-150-15-I Report 7-10 FL.pdf FL21867_R2_AE_Makrolon NOA 17-0410.01.pdf FL21867_R2_AE_NOA 17-0410.01 FBC 6th Edition Compliance Letter.PDF Created by Independent Third Party: Yes
21867.8	Model 1000/(Amarr 2432)	IBC-1016-195-26-I Thru 16'-2" wide
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +52.8/-59.7 **Other:** Impact glazing is 1/4" polycarbonate with aluminum frame		**Installation Instructions** FL21867_R2_II_IBC-1016-195-26-I Drawing 7-10 FL.pdf Verified By: Thomas L. Shelmerdine PE-0048579 Created by Independent Third Party: Yes **Evaluation Reports** FL21867_R2_AE_B117-11 to -16.pdf FL21867_R2_AE_C5463.01-106-18-r0.pdf FL21867_R2_AE_IBC-1016-195-26-I Evaluation Report 7-10 FL.pdf FL21867_R2_AE_Makrolon NOA 17-0410.01.pdf FL21867_R2_AE_NOA 17-0410.01 FBC 6th Edition Compliance Letter.PDF Created by Independent Third Party: Yes
21867.9	Model 2000/(Amarr 2002, 2012, 2022)	IBC-2009-130-11 Thru 9'-2" wide
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +24.2/-28.4 **Other:** Glazing not available in wind borne debris regions		**Installation Instructions** FL21867_R2_II_IBC-2009-130-11 Drawing 7-10 FL.pdf Verified By: Thomas L. Shelmerdine PE-0048579 Created by Independent Third Party: Yes **Evaluation Reports** FL21867_R2_AE_IBC-2009-130-11 Evaluation Report 7-10 FL.pdf FL21867_R2_AE_IBC-2009-130-11 Report 7-10 FL.pdf Created by Independent Third Party: Yes
21867.10	Model 2000/(Amarr 2002, 2012, 2022)	IBC-2009-150-11 Thru 9'-2" wide

Limits of Use	Installation Instructions
Approved for use in HVHZ: No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +32.7/-38.4 **Other:** Glazing not available in wind borne debris regions	FL21867_R2_II_IBC-2009-150-11 Drawing 7-10 FL.pdf Verified By: Thomas L. Shelmerdine PE-0048579 Created by Independent Third Party: Yes **Evaluation Reports** FL21867_R2_AE_IBC-2009-150-11 Evaluation Report 7-10 FL.pdf FL21867_R2_AE_IBC-2009-150-11 Report 7-10 FL.pdf Created by Independent Third Party: Yes

Back Next

Business & Professional Regulation

dbpr

Product Approval
USER: Public User

OFFICE OF THE SECRETARY

FL #	FL24444
Application Type	New
Code Version	2017
Application Status	Approved
Comments	
Archived	
Product Manufacturer	Ply Gem Siding Group
Address/Phone/Email	2405 Campbell Road Sidney, OH 45365 (937) 498-6720 alan.hoying@plygem.com
Authorized Signature	Alan Hoying alan.hoying@plygem.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Panel Walls
Subcategory	Siding
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Allen Reeves
Florida License	PE-19354
Quality Assurance Entity	Architectural Testing, Inc., an Intertek company
Quality Assurance Contract Expiration Date	12/31/2020
Validated By	Ted Berman, PE ✔ Validation Checklist - Hardcopy Received
Certificate of Independence	FL24444_R0_COI_2017 FBC - COI Georgia Pacific Siding.pdf

Referenced Standard and Year (of Standard)	**Standard**	**Year**
	ASTM D3679	2011

Equivalence of Product Standards Certified By	
Sections from the Code	
Product Approval Method	Method 1 Option D

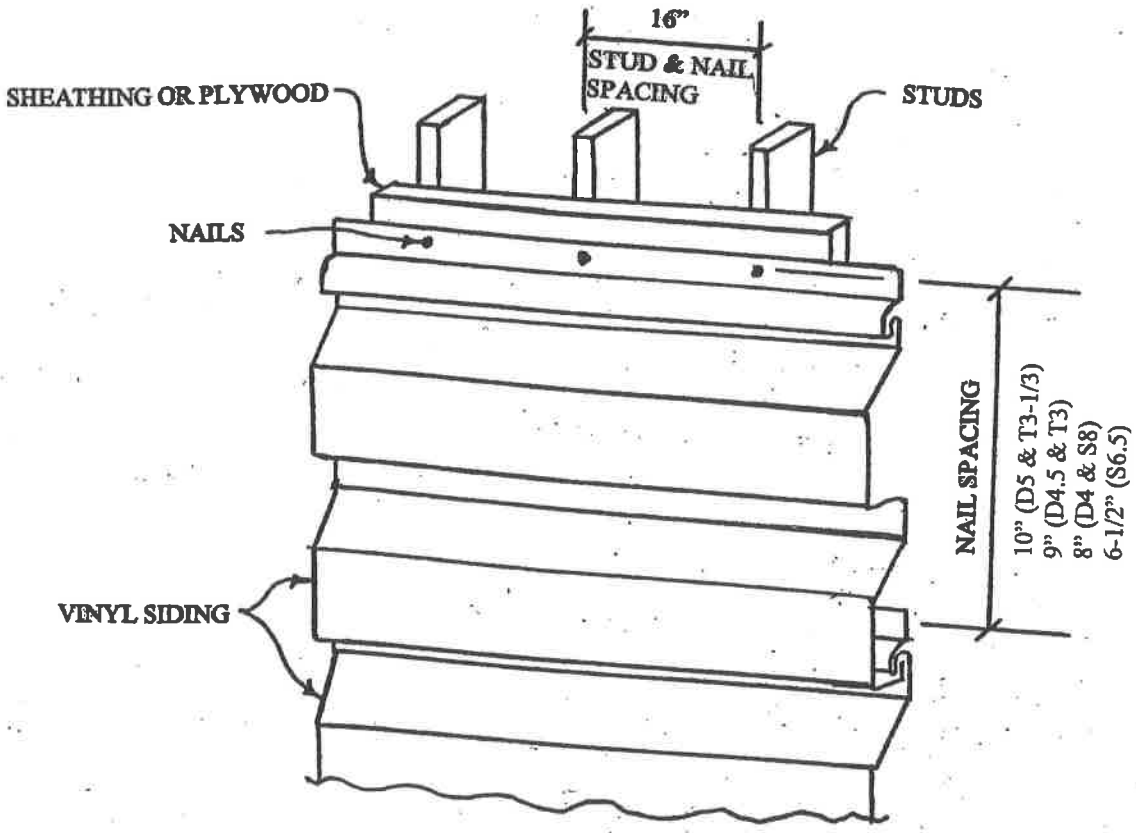
Date Submitted	11/08/2017
Date Validated	11/13/2017
Date Pending FBC Approval	11/15/2017
Date Approved	02/13/2018

Summary of Products

FL #	Model, Number or Name	Description
24444.1	Georgia Pacific Siding	Vinyl and Steel Siding
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +83.0/-83.0 **Other:** See Product evaluation for Design Pressures.		**Installation Instructions** FL24444_R0_II_2017 FBC - Georgia Pacific Siding Installation Details.pdf Verified By: Allen Reeves 19354 Created by Independent Third Party: Yes **Evaluation Reports** FL24444_R0_AE_2017 FBC - Georgia Pacific Siding Product Evaluation.pdf FL24444_R0_AE_2017 FBC -Georgia Pacific Siding Calculations.pdf Created by Independent Third Party: Yes

Back Next

HR Engineering, Inc.	REV. 2 NOV. 2017 DATE: 20 JAN. 2012	17090006 PROJECT NO. 11120001 SHEET 1 OF 6
CLIENT: PLYGEM / GEORGIA-PACIFIC	BY: A. REEVES	PROJECT NAME: VINYL SIDING INSTALLATION



PLYGEM / GEORGIA-PACIFIC VINYL SIDING INSTALLATION

GENERAL NOTES

1. NAILS ARE GALVANIZED STEEL ROOFING NAILS, 1-1/2" LONG, WITH 1/8" DIAMETER SHANKS, AND 3/8" DIAMETER HEADS.

2. ALL STUDS MUST HAVE NAILS IN THEM AND ALL NAILS MUST BE IN STUDS.

3. SHEATHING MUST BE NAILABLE WITH A MINIMUM THICKNESS OF 5/8", AND PLYWOOD MUST BE A MINIMUM OF ½" THICK.

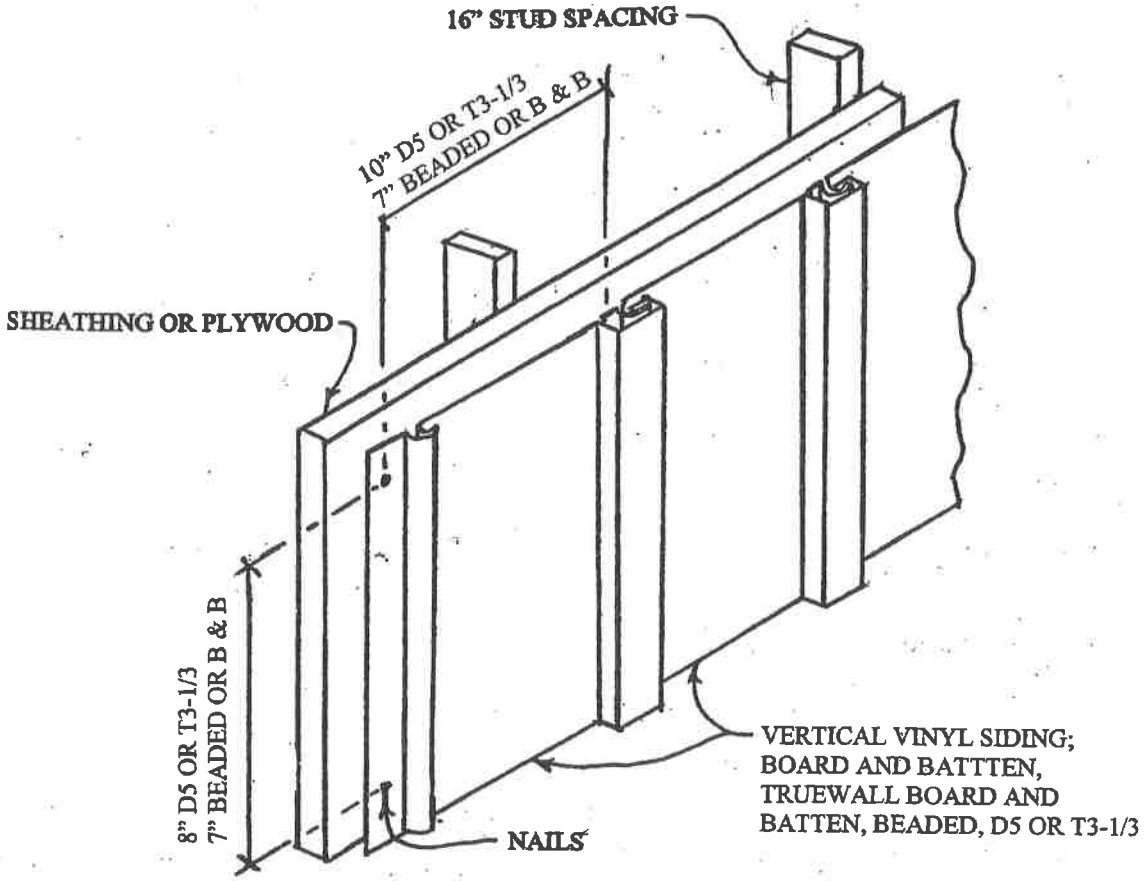
4. FOR ALOWABLE DESIGN WIND LOADS ON VINYL SIDING USING THIS INSTALLATION PROCEDURE, SEE EVALUATION REPORT FOR PLYGEM / GEORGIA-PACIFIC SIDING.

5. THE INSTALLATION DETAILS SHOWN ON THIS DRAWING ARE IN CONFORMANCE WITH FLORIDA BUILDING CODE 2017, PARAGRAPHS 1404.9 AND 1405.14; PLUS FLORIDA RESIDENTIAL CODE 2017, PARAGRAPH 703.11.

Allen N. Reeves
3 NOV. 2017

Allen N. Reeves, P.E., SECB
Structural Engineer
Florida License No. 19354

HR Engineering, Inc.	REV. 2 NOV. 2017 DATE: 20 JAN. 2012	17090006 PROJECT NO. 11120001 SHEET 2 OF 6
CLIENT: PLYGEM / GEORGIA-PACIFIC	BY: A. REEVES	PROJECT NAME: VINYL SIDING INSTALLATION



PLYGEM / GEORGIA-PACIFIC VERTICAL VINYL SIDING INSTALLATION

GENERAL NOTES

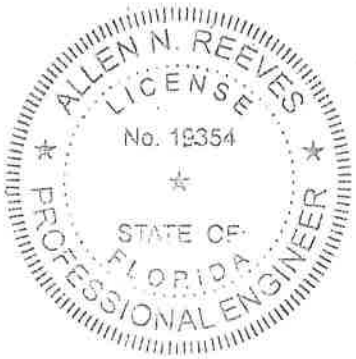
1. NAILS ARE GALVANIZED STEEL ROOFING NAILS, 1-1/2" LONG, WITH 1/8" DIAMETER SHANKS, AND 3/8" DIAMETER HEADS.

2. STUDS ARE NOT REQUIRED TO HAVE NAILS IN THEM. NAILS MUST PENETRATE THE SHEATHING OR PLYWOOD ONLY.

3. SHEATHING MUST BE NAILABLE WITH A MINIMUM THICKNESS OF 5/8", AND PLYWOOD MUST BE A MINIMUM OF ½" THICK.

4. FOR ALOWABLE DESIGN WIND LOADS ON VINYL SIDING USING THIS INSTALLATION PROCEDURE, SEE EVALUATION REPORT FOR PLYGEM / GEORGIA-PACIFIC SIDING.

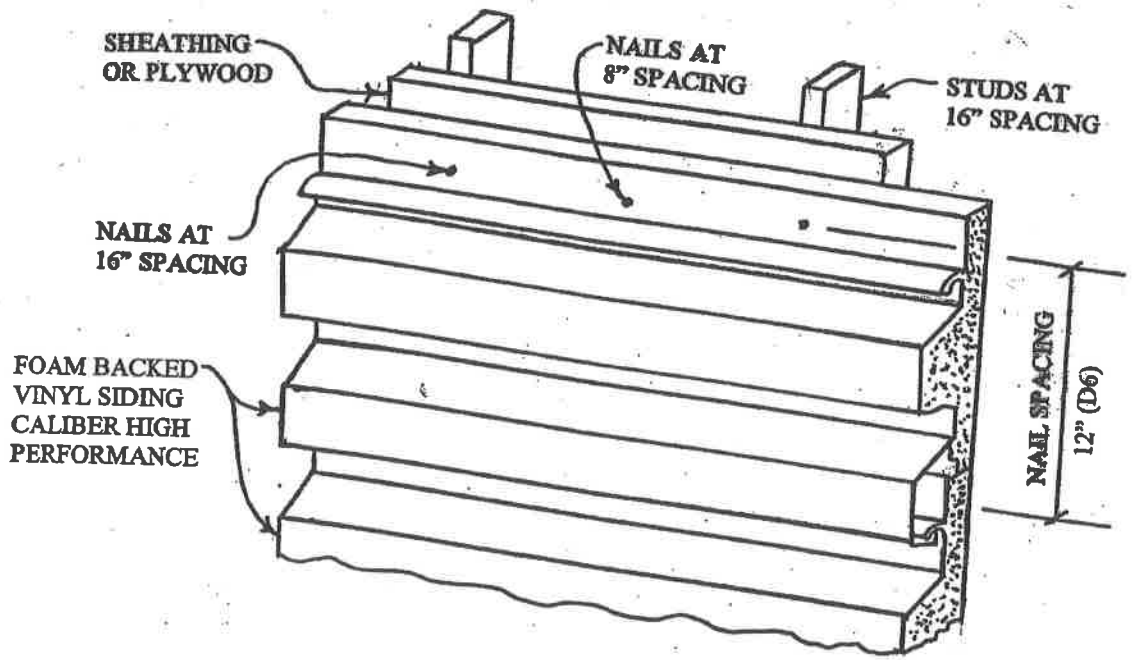
5. THE INSTALLATION DETAILS SHOWN ON THIS DRAWING ARE IN CONFORMANCE WITH FLORIDA BUILDING CODE 2017, PARAGRAPHS 1404.9 AND 1405.14; PLUS FLORIDA RESIDENTIAL CODE 2017, PARAGRAPH 703.11.



Allen N. Reeves
3 NOV. 2017

Allen N. Reeves, P.E., SECB
Structural Engineer
Florida License No. 19354

HR Engineering, Inc.	REV. 2 NOV. 2017 DATE: 20 JAN. 2012	17090006 PROJECT NO. 11120001 SHEET 3 OF 6
CLIENT: PLYGEM / GEORGIA-PACIFIC	BY: A. REEVES	PROJECT NAME: VINYL SIDING INSTALLATION



PLYGEM / GEORGIA-PACIFIC FOAM BACKED VINYL SIDING INSTALLATION

GENERAL NOTES

1. NAILS ARE GALVANIZED STEEL ROOFING NAILS, 1-1/2" LONG, WITH 1/8" DIAMETER SHANKS, AND 3/8" DIAMETER HEADS.

2. ALL STUDS MUST HAVE NAILS IN THEM AND ALL NAILS MUST BE IN STUDS, WITH THE SINGLE EXCEPTION OF D6 WITH 8" NAIL SPACING, WHICH HAS ½ OF NAILS IN STUDS.

3. NAILABLE SHEATHING AND PLYWOOD MUST BE A MINIMUM OF 5/8" THICK, EXCEPT FOR D6 WITH 16" NAIL SPACING, WHICH MUST BE A MINIMUM OF ½" THICK.

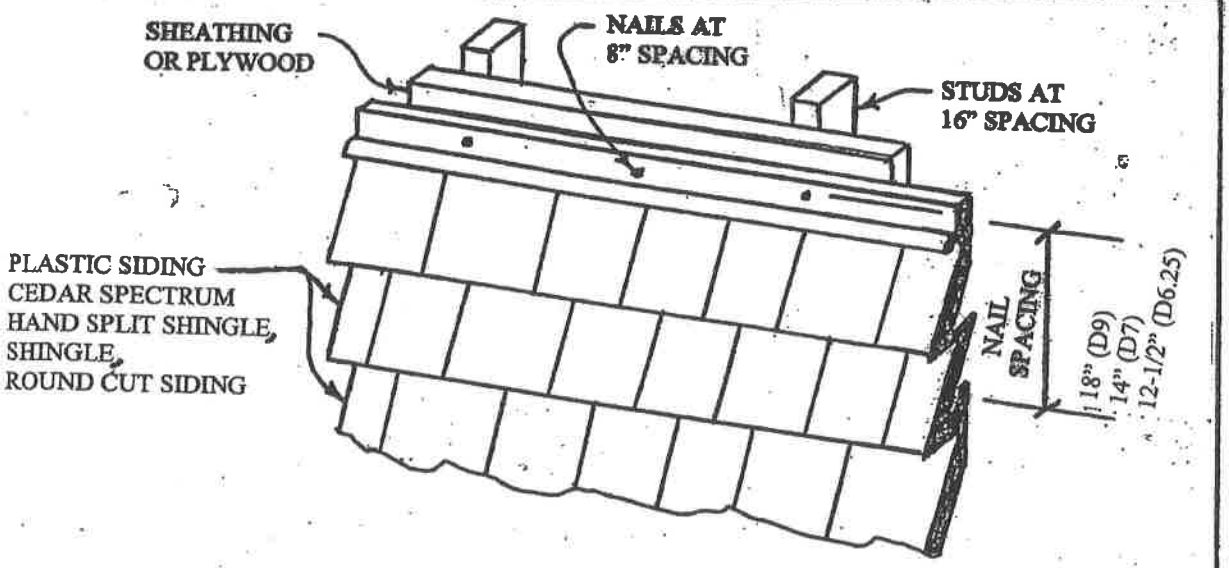
4. ALLOWABLE DESIGN WIND LOADS ARE; +/-61.7 PSF ON D6 WITH 16" NAIL SPACING OR +/-95.7 PSF WITH 8" NAIL SPACING.

5. THE INSTALLATION DETAILS SHOWN ON THIS DRAWING ARE IN CONFORMANCE WITH FLORIDA BUILDING CODE 2017, PARAGRAPHS 1404.9 AND 1405.14; PLUS FLORIDA RESIDENTIAL CODE 2017, PARAGRAPH 703.11.

Allen N. Reeves
3 Nov. 2017

Allen N. Reeves, P.E., SECB
Structural Engineer
Florida License No. 19354

HR Engineering, Inc.	REV. 2 NOV. 2017	17090006
CLIENT: PLYGEM / GEORGIA-PACIFIC	DATE: 20 JAN. 2012	PROJECT NO. 11120001 SHEET 4 OF 6
	BY: A. REEVES	PROJECT NAME: VINYL SIDING INSTALLATION



PLYGEM / GEORGIA-PACIFIC PLASTIC SIDING INSTALLATION

GENERAL NOTES

1. NAILS ARE GALVANIZED STEEL ROOFING NAILS, 1-1/2" LONG, WITH 1/8" DIAMETER SHANKS, AND 3/8" DIAMETER HEADS.

2. ALL STUDS MUST HAVE NAILS IN THEM AND ½ OF ALL NAILS MUST BE IN STUDS.

3. NAILABLE SHEATHING AND PLYWOOD MUST BE A MINIMUM OF 5/8" THICK.

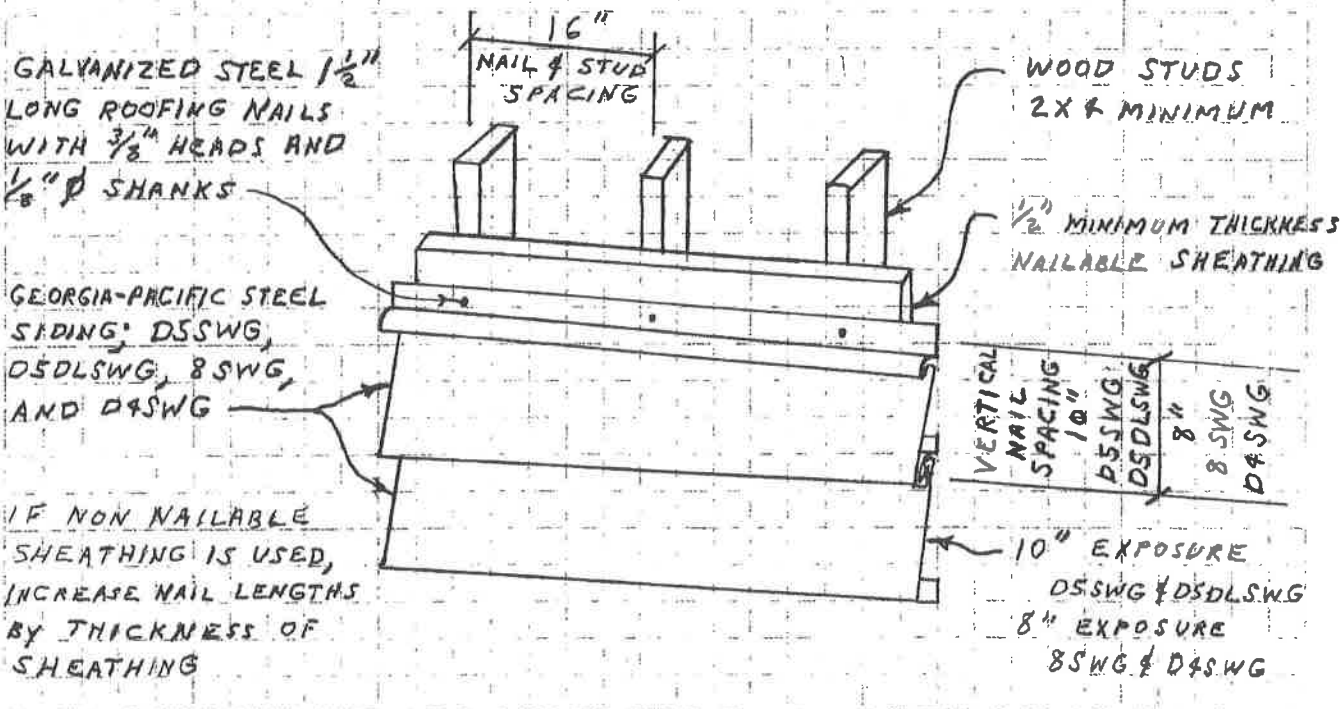
4. ALLOWABLE DESIGN WIND LOADS ARE; +/-65.0 PSF FOR DOUBLE 9" HAND SPLIT SHINGLE, +/-83.6 PSF FOR DOUBLE 7" SHINGLE, AND +/-74.9 PSF FOR DOUBLE 6-1/4" ROUND CUT SIDING.

5. THE INSTALLATION DETAILS SHOWN ON THIS DRAWING ARE IN CONFORMANCE WITH FLORIDA BUILDING CODE 2017, PARAGRAPH 1404.8 AND SECTION 2605.

Allen N. Reeves
3 Nov. 2017

Allen N. Reeves, P.E., SECB
Structural Engineer
Florida License No. 19354

HR Engineering, Inc.	DATE: 2 NOV. 2017	PROJECT NO. 17090006 SHEET 5 OF 6
CLIENT: PLYGEM/GEORGIA-PACIFIC	BY: A. REEVES	PROJECT NAME: STEEL SIDING INSTALLATION



STEEL SIDING INSTALLATION DETAIL

NOT TO SCALE

GENERAL NOTES

1. THE PRESSURES LISTED IN THE TABLE BELOW ARE IN CONFORMANCE WITH THE INTENT OF FLORIDA BUILDING CODE 2017 AND THE FLORIDA RESIDENTIAL CODE 2017.

2. PRESSURES WERE DETERMINED BY COMPARATIVE ANALYSES BASED ON TESTING TO ASTM D5206.

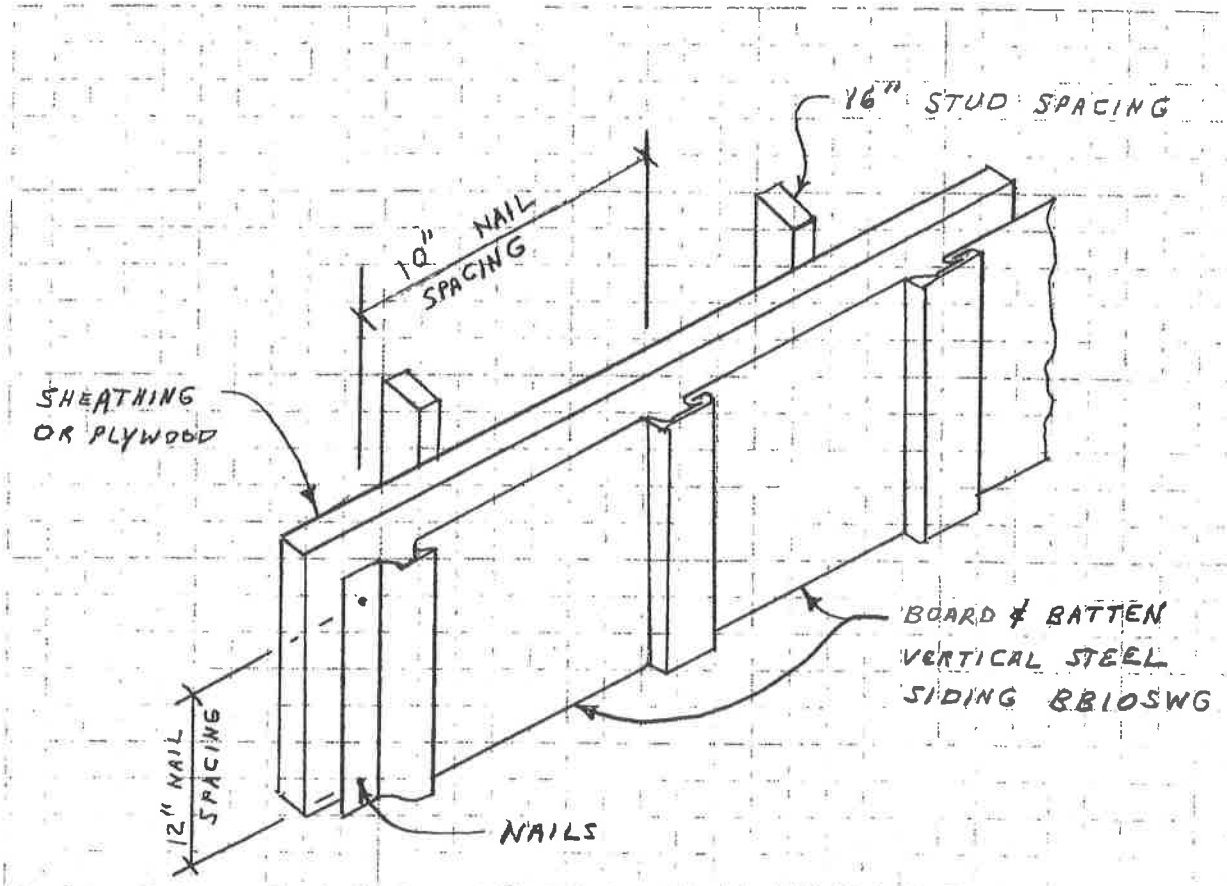
GEORGIA-PACIFIC STEEL SIDING TYPE.	ALLOWABLE DESIGN WIND PRESSURES IN PSF
WOODGRAIN, DOUBLE 5" D5SWG	+/- 60.0
WOODGRAIN, DOUBLE 5" DUTCHLAP D5DLSWG	+/- 60.0
WOODGRAIN, 8", 8SWG	+/- 75.0
WOODGRAIN, DOUBLE 4" D4SWG	+/- 75.0

ALLEN N. REEVES LICENSE No. 19354 STATE OF FLORIDA PROFESSIONAL ENGINEER

Allen N. Reeves 3 NOV. 2017

Allen N. Reeves, P.E., SECB
Structural Engineer
Florida License No. 19354

HR Engineering, Inc.	DATE: 2 NOV. 2017	PROJECT NO. 17090006 SHEET 6 OF 6
CLIENT: PLYGEM/GEORGIA-PACIFIC	BY: A. REEVES	PROJECT NAME: STEEL SIDING INSTALLATION



VERTICAL STEEL SIDING INSTALLATION DETAIL

NOT TO SCALE

1. NAILS ARE GALVANIZED STEEL ROOFING NAILS 1-½" LONG WITH ⅛" DIAMETER SHANKS, AND ⅜" DIAMETER HEADS.

2. STUDS ARE NOT REQUIRED TO HAVE NAILS IN THEM, NAILS MUST PENETRATE THE SHEATHING OR PLYWOOD ONLY.

3. SHEATHING AND PLYWOOD MUST BE A MINIMUM OF ½" THICK, AND SHEATHING MUST BE NAILABLE.

4. ALLOWABLE DESIGN WIND LOADING USING THIS INSTALLATION PROCEDURE ON PLYGEM/GEORGIA-PACIFIC VERTICAL STEEL SIDING ARE +/-36.7 PSF.

5. THE INSTALLATION DETAILS SHOWN ON THIS DRAWING ARE IN CONFORMANCE WITH FLORIDA BUILDING CODE 2017 AND FLORIDA RESIDENTIAL CODE 2017.

ALLEN N. REEVES LICENSE No. 19354 STATE OF FLORIDA PROFESSIONAL ENGINEER

Allen N. Reeves
3 NOV. 2017

Allen N. Reeves, P.E., SECB
Structural Engineer
Florida License No. 19354

FLORIDA DEPARTMENT OF
Business & Professional Regulation

Florida dbpr

Product Approval
USER: Public User

FL #	FL14104-R15
Application Type	Revision
Code Version	2017
Application Status	Approved
Comments	
Archived	
Product Manufacturer	JELD-WEN
Address/Phone/Email	3737 Lakeport Blvd Klamath Falls, OR 97601 (800) 535-3936 fbc1@jeld-wen.com
Authorized Signature	Jason Kantola fbc1@jeld-wen.com
Technical Representative Address/Phone/Email	JELD-WEN Corporate Customer Service 3737 Lakeport Blvd. Klamath Falls, OR 97601 (800) 535-3936 customerserviceagents@jeld-wen.com
Quality Assurance Representative Address/Phone/Email	
Category	Windows
Subcategory	Single Hung
Compliance Method	Certification Mark or Listing
Certification Agency	American Architectural Manufacturers Association
Validated By	American Architectural Manufacturers Association

Referenced Standard and Year (of Standard)	**Standard**	**Year**
	AAMA/WDMA/CSA 101/I.S.2/A440	2008

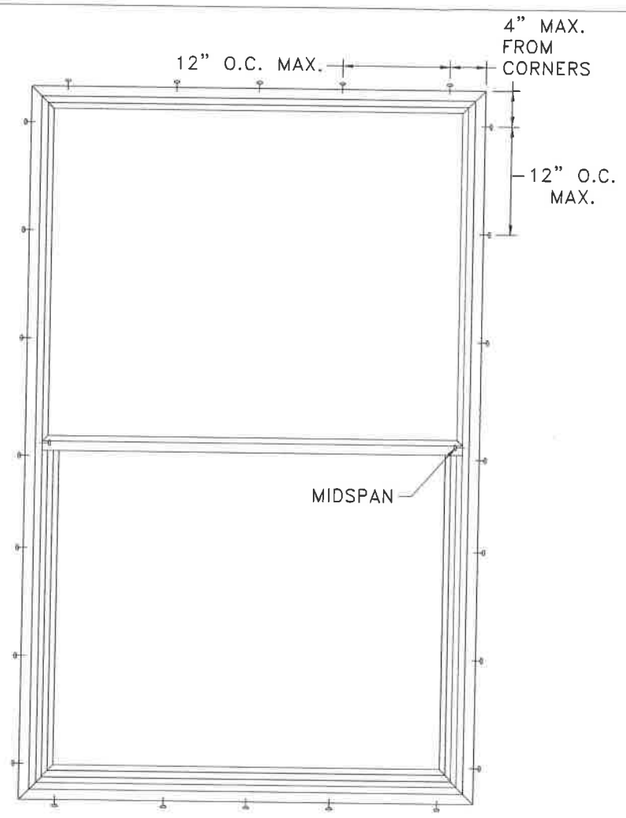
Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A
Date Submitted	07/06/2017
Date Validated	07/13/2017
Date Pending FBC Approval	
Date Approved	07/15/2017

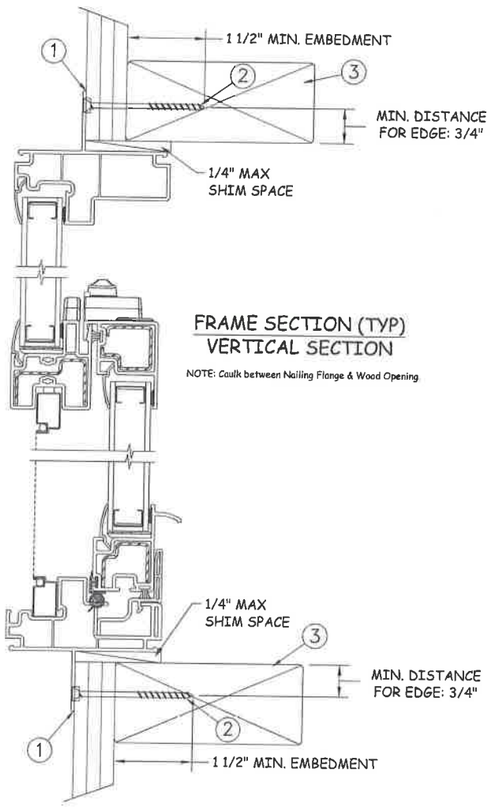
Summary of Products

FL #	Model, Number or Name	Description
14104.1	Builders Vinyl (V-2500)	Tilt Single Hung 48" x 77" Annealed Insulated Glass
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +50/-50 **Other:**		**Certification Agency Certificate** FL14104_R15_C_CAC_R-PG50-48x77.pdf **Quality Assurance Contract Expiration Date** 10/04/2021 **Installation Instructions** FL14104_R15_II_Bldr Vinyl Tilt SH FBC Installs 48x77 SS 2017-06-13.pdf Verified By: American Architectural Manufacturers Association Created by Independent Third Party: **Evaluation Reports** FL14104_R15_AE_PER4868 SS 2017-06-13.pdf Created by Independent Third Party: Yes
14104.2	Builders Vinyl (V-2500)	Two Wide Tilt Single Hung 84" x 57" Annealed Insulated Glass
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +50/-50 **Other:**		**Certification Agency Certificate** FL14104_R15_C_CAC_XX_R-PG50-84x57.pdf **Quality Assurance Contract Expiration Date** 08/28/2021 **Installation Instructions** FL14104_R15_II_R-PG50-84x57_Installation_Instructions.pdf Verified By: American Architectural Manufacturers Association Created by Independent Third Party: **Evaluation Reports** FL14104_R15_AE_PER_3076.pdf Created by Independent Third Party: Yes
14104.3	Builders Vinyl (V-2500)	Three Wide Tilt Single Hung 108" x 74" Annealed Insulated Glass
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +50/-50 **Other:**		**Certification Agency Certificate** FL14104_R15_C_CAC_XXX_R-PG50_108x74.pdf **Quality Assurance Contract Expiration Date** 01/26/2021 **Installation Instructions** FL14104_R15_II_BV-_Triple_TSH_CHS_PG50_108x74_SJW2012-014_Nail_Fin_5-25-16.pdf Verified By: American Architectural Manufacturers Association Created by Independent Third Party: **Evaluation Reports** Created by Independent Third Party:
14104.4	Builders Vinyl (V-2500)	Three Wide With Center Picture Tilt Single Hung 109" x 74" Annealed Insulated Glass
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +50/-50 **Other:**		**Certification Agency Certificate** FL14104_R15_C_CAC_XOX_R-PG50-109x74.pdf **Quality Assurance Contract Expiration Date** 01/29/2022 **Installation Instructions** FL14104_R15_II_XOX_R-PG50-109x74_Installation_Instructions.pdf Verified By: American Architectural Manufacturers Association Created by Independent Third Party: **Evaluation Reports** FL14104_R15_AE_PER_3077.pdf Created by Independent Third Party: Yes
14104.5	Builders Vinyl (V-2500)	Tilt Single Hung 36" x 84" Annealed Insulated Glass
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +35/-35 **Other:**		**Certification Agency Certificate** FL14104_R15_C_CAC_R-PG35-36x84.pdf **Quality Assurance Contract Expiration Date** 12/20/2019 **Installation Instructions** FL14104_R15_II_R-PG35-36x84_Nail_Fin_Installation_Instructions.pdf Verified By: American Architectural Manufacturers Association Created by Independent Third Party: **Evaluation Reports** Created by Independent Third Party:

14104.6	Builders Vinyl (V-2500)	Tilt Single Hung 52 1/8" x 75" Annealed Insulated Glass
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +50/-50 **Other:**		**Certification Agency Certificate** FL14104_R15_C_CAC_R-PG50-52.125x75.pdf **Quality Assurance Contract Expiration Date** 05/13/2022 **Installation Instructions** FL14104_R15_II_R-PG50-52.125x75_Installation_Instructions.pdf Verified By: American Architectural Manufacturers Association Created by Independent Third Party: **Evaluation Reports** FL14104_R15_AE_PER_3079.pdf Created by Independent Third Party: Yes
14104.7	Builders Vinyl (V-2500)	Tilt Single Hung 48" x 72" Annealed Insulated Glass
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +35/-40 **Other:**		**Certification Agency Certificate** FL14104_R15_C_CAC_R-PG35-48x72_DP-40_Cert.pdf **Quality Assurance Contract Expiration Date** 06/25/2018 **Installation Instructions** FL14104_R15_II_R-PG35-48x72_DP-40_Installation_Instructions.pdf Verified By: American Architectural Manufacturers Association Created by Independent Third Party: **Evaluation Reports** Created by Independent Third Party:
14104.8	Builders Vinyl (V-2500)	Tilt Single Hung 36" x 72" Annealed Insulated Glass
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +50/-55 **Other:**		**Certification Agency Certificate** FL14104_R15_C_CAC_R-PG50-36x72_DP-55.pdf **Quality Assurance Contract Expiration Date** 09/09/2021 **Installation Instructions** FL14104_R15_II_Bldr_Vinyl_TSH_FBC_36x72_AT_2016-10-20.pdf FL14104_R15_II_Bldr_Vinyl_TSH_FBC_36x72_SS_2016-10-20.pdf Verified By: American Architectural Manufacturers Association Created by Independent Third Party: **Evaluation Reports** FL14104_R15_AE_PER4544.pdf Created by Independent Third Party: Yes

Back Next

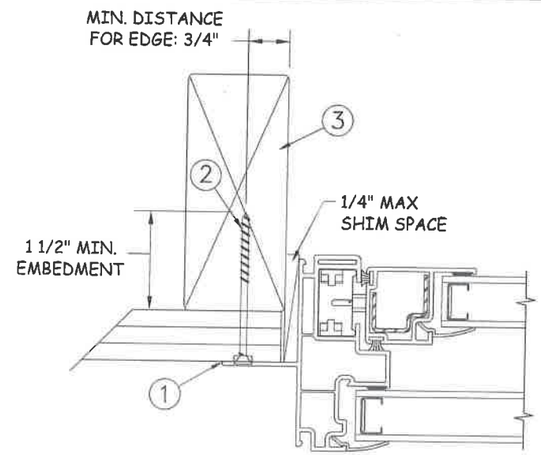




FRAME SECTION (TYP)
VERTICAL SECTION

NOTE: Caulk between Nailing Flange & Wood Opening

NAIL FIN INSTALLATION



JAMB SECTION (TYP)
HORIZONTAL SECTION

NOTE: Caulk between Nailing Flange & Wood Opening.

Max Frame	DP RATING	IMPACT
48 x 77	+50/-50	NO

Installation Notes:

1. Seal flange/frame to substrate.
2. Use #8 PH or greater fastener though the nail fin with sufficient length to penetrate a minimum of 1 1/2" into the wood framing. For 2X wood frame substrate (min. S.G. = 0.42).
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code(IBC), the International Residential Code(IRC), the Florida Building Code(FBC) and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be single strength annealed insulating glass.

This schedule addresses only the fasteners required to anchor the window to achieve the rated design pressure up to the size limitations noted. It is not intended as a guide to the installation process and does not address the sealing consideration that may arise in different wall conditions. For the complete installation procedure, see the instructions packaged with the window or go to www.jeld-wen.com.

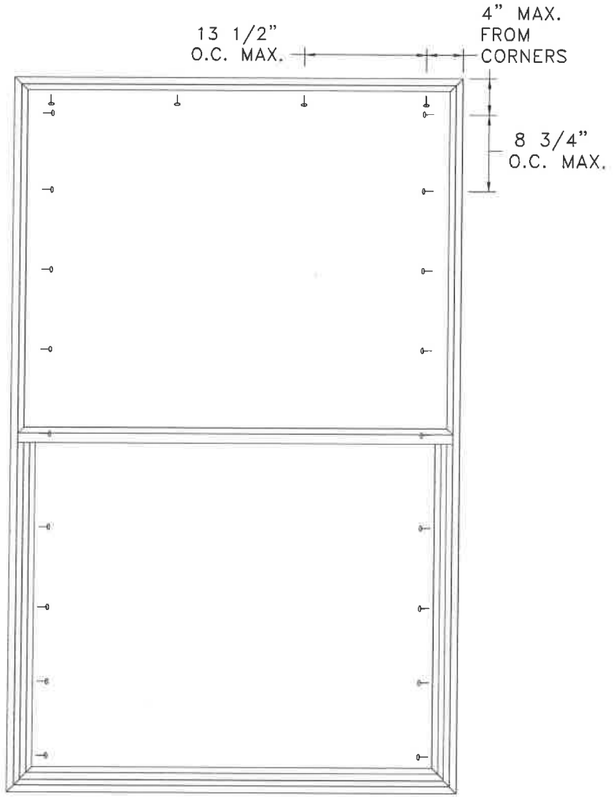
DISCLAIMER:
This drawing and its contents are confidential and are not to be reproduced or copied in whole or in part or used or disclosed to others except as authorized by JELD-WEN Inc.

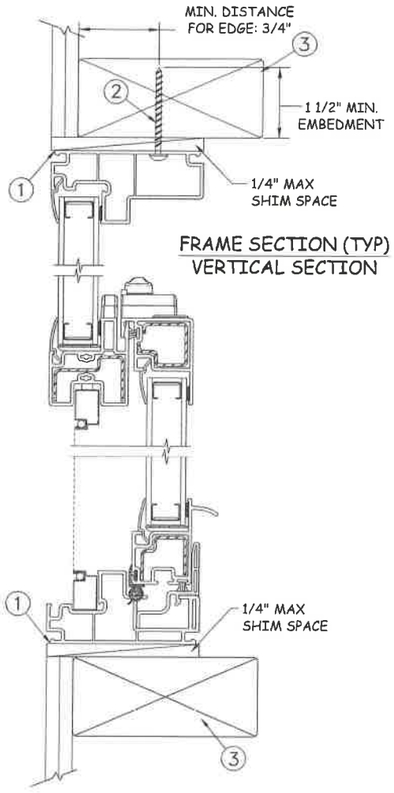
Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2017.06.13 15:55:23 -04'00'

HERMES F. NORERO LICENSE No. 73778 STATE OF FLORIDA PROFESSIONAL ENGINEER

Hermes F. Norero, P.E.
Florida No. 73778
398 East Dania Beach Blvd. Suite 338
Dania Beach, FL 33004

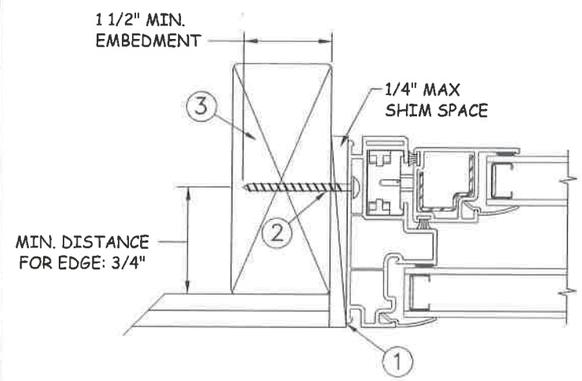
PROJECT ENGINEER: --	DATE: 03/31/2017	JELD-WEN	3737 Lakeport Blvd Klamath Falls, OR. 97601 Phone: (541) 882-3451
DRAWN BY: J.HAWKINS	SCALE: NTS		
CHECKED BY: D.BELAU	TITLE: Builders Vinyl Tilt Single Hung		
APPROVED BY: J.GOOSSEN			
PART/PROJECT No.: D008499			
IDENTIFIER No. SJW2012-202-FBC	PLANT NAME AND LOCATION:	CAD DWG. No.: BldrsVinylTSH	REV: A / SHEET 1 OF 4





FRAME SECTION (TYP)
VERTICAL SECTION

THROUGH FRAME INSTALLATION



JAMB SECTION (TYP)
HORIZONTAL SECTION

Max Frame	DP RATING	IMPACT
48 x 77	+50/-50	NO

Installation Notes:

1. Seal flange/frame to substrate.
2. Use #8 PH or greater fastener though the frame with sufficient length to penetrate a minimum of 1 1/2" into the wood framing. For 2X wood frame substrate (min. S.G. = 0.42).
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

General Notes:

1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code(IBC), the International Residential Code(IRC), the Florida Building Code(FBC) and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be single strength annealed insulating glass.

This schedule addresses only the fasteners required to anchor the window to achieve the rated design pressure up to the size limitations noted. It is not intended as a guide to the installation process and does not address the sealing consideration that may arise in different wall conditions. For the complete installation procedure, see the instructions packaged with the window or go to www.jeld-wen.com.

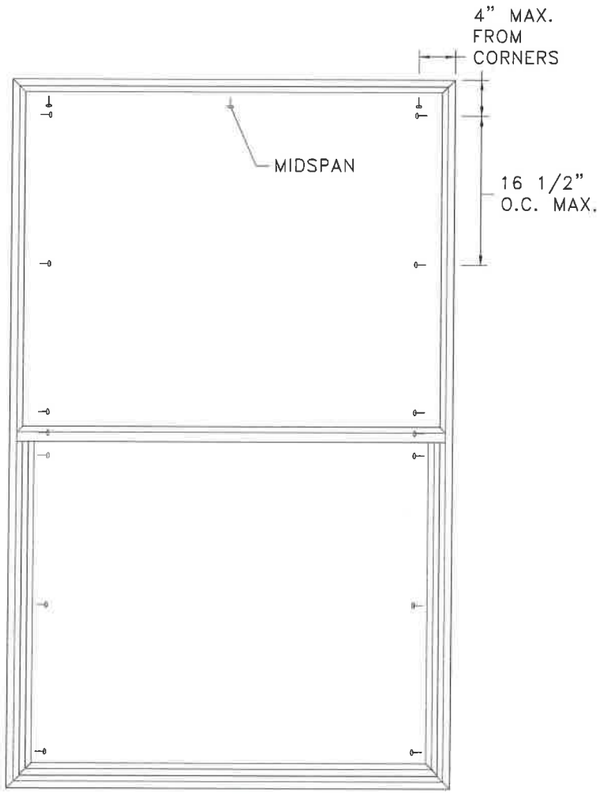
DISCLAIMER:
This drawing and its contents are confidential and are not to be reproduced or copied in whole or in part or used or disclosed to others except as authorized by JELD-WEN Inc.

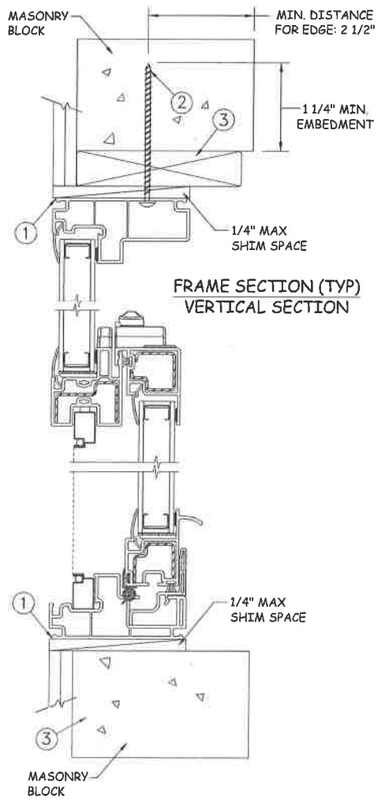
HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Hermes F. Norero, P.E.
Florida No. 73778
398 East Dania Beach Blvd. Suite 338
Dania Beach, FL 33004

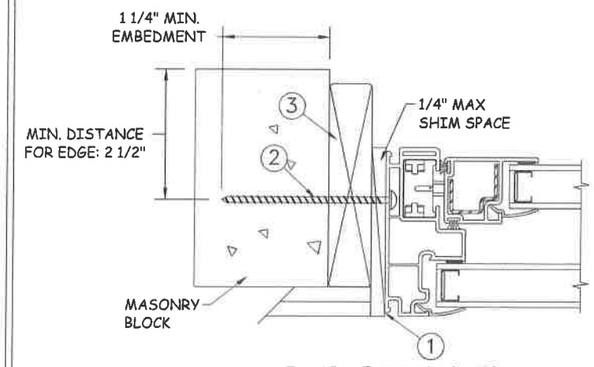
PROJECT ENGINEER: --	DATE: 03/31/2017	JELD-WEN	3737 Lakeport Blvd Klamath Falls, OR. 97601 Phone: (541) 882-3451
DRAWN BY: J.HAWKINS	SCALE: NTS		
CHECKED BY: D.BELAU	TITLE: Builders Vinyl Tilt Single Hung		
APPROVED BY: J.GOOSSEN			
PART/PROJECT No.: D008499			
IDENTIFIER No. 110-16-134	PLANT NAME AND LOCATION:	CAD DWG. No.: BldrsVinylTSH	REV: A / SHEET 2 OF 4

MASONRY INSTALLATION





FRAME SECTION (TYP)
VERTICAL SECTION



JAMB SECTION (TYP)
HORIZONTAL SECTION

Max Frame	DP RATING	IMPACT
48 x 77	+50/-50	NO

Installation Notes:

1. Seal flange/frame to substrate.
2. Use 3/16" Tapcon or equivalent fasteners through frame with sufficient length to penetrate a minimum of 1 1/4" into concrete or masonry at each location with a 2 1/2" min from edge distance. For concrete (min. = 3000psi) or masonry (CMU shall conform to ASTM C90).
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

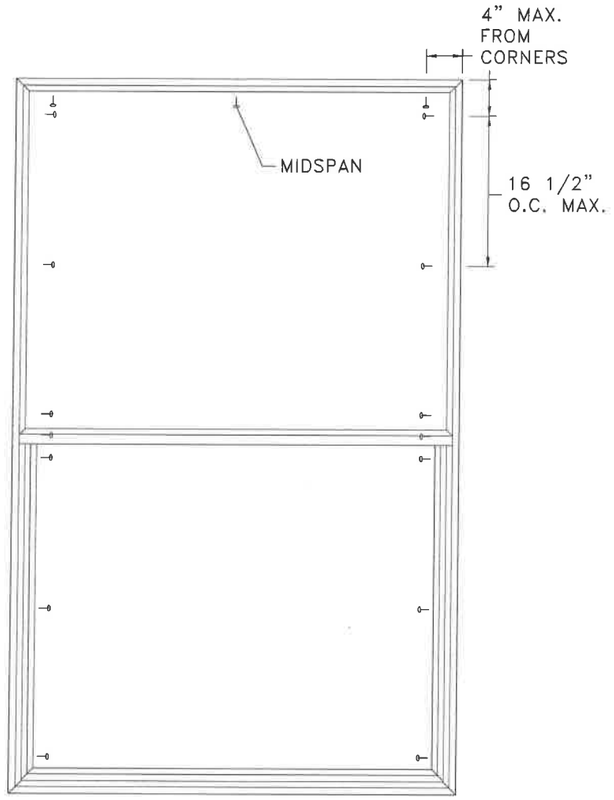
This schedule addresses only the fasteners required to anchor the window to achieve the rated design pressure up to the size limitations noted. It is not intended as a guide to the installation process and does not address the sealing consideration that may arise in different wall conditions. For the complete installation procedure, see the instructions packaged with the window or go to www.jeld-wen.com.

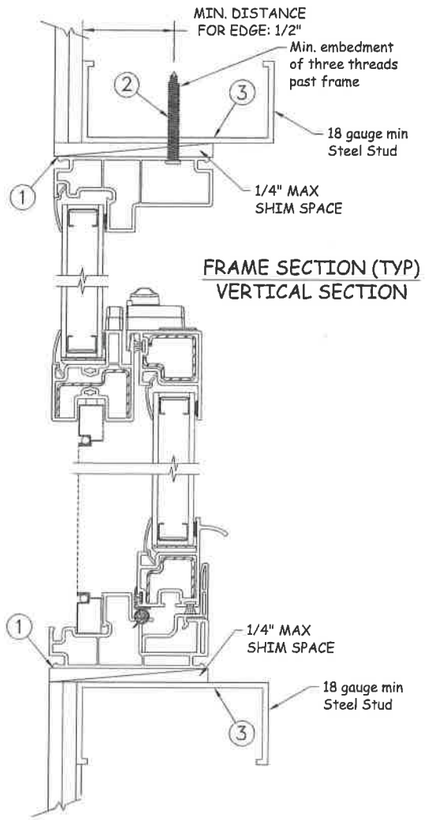
General Notes:

1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code(IBC), the International Residential Code(IRC), the Florida Building Code(FBC) and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be single strength annealed insulating glass.

HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
Hermes F. Norero, P.E.
Florida No. 73778
398 East Dania Beach Blvd. Suite 338
Dania Beach, FL 33004

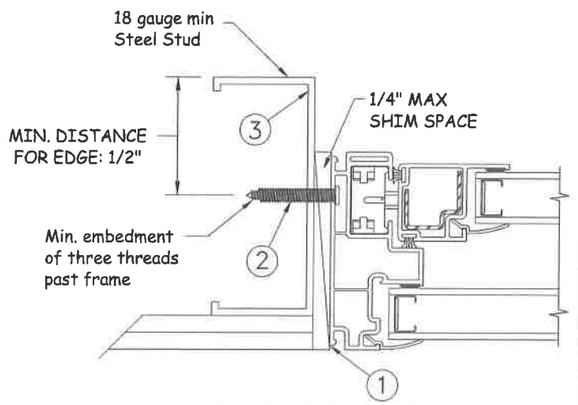
PROJECT ENGINEER: --	DATE: 03/31/2017	JELD-WEN	3737 Lakeport Blvd Klamath Falls, OR. 97601 Phone: (541) 882-3451
DRAWN BY: J.HAWKINS	SCALE: NTS		
CHECKED BY: D.BELAU	TITLE: Builders Vinyl Tilt Single Hung		
APPROVED BY: J.GOOSSEN			
PART/PROJECT No.: D008499			
IDENTIFIER No. 110-16-134	PLANT NAME AND LOCATION:	CAD DWG. No.: BldrsVinylTSH	REV: A / SHEET 3 OF 4





FRAME SECTION (TYP)
VERTICAL SECTION

STEEL INSTALLATION



JAMB SECTION (TYP)
HORIZONTAL SECTION

Max Frame	DP RATING	IMPACT
48 x 77	+50/-50	NO

Installation Notes:

1. Seal flange/frame to substrate.
2. For anchoring into metal framing, use #8 TEK Self Tapping screws with sufficient length to achieve a minimum embedment of three threads past the frame thickness. Locate anchors as shown in elevations and installation details. Steel substrate min. 18ga., fy = 33 ksi.
3. Host structure (wood buck, masonry, steel) to be designed and anchored to properly transfer all loads to the structure. The host structure is the responsibility of the architect or engineer of record for the project of installation.

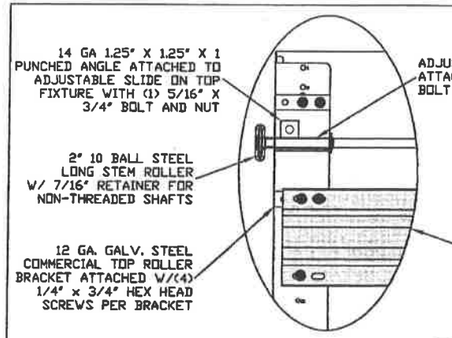
This schedule addresses only the fasteners required to anchor the window to achieve the rated design pressure up to the size limitations noted. It is not intended as a guide to the installation process and does not address the sealing consideration that may arise in different wall conditions. For the complete installation procedure, see the instructions packaged with the window or go to www.jeld-wen.com.

General Notes:

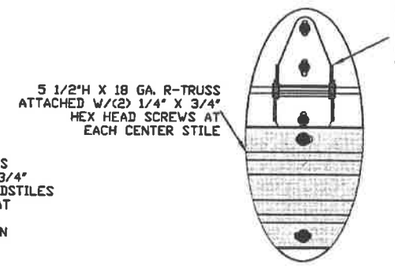
1. The product shown herein is designed, tested and manufactured to comply with the wind load criteria of the adopted International Building Code(IBC), the International Residential Code(IRC), the Florida Building Code(FBC) and the industry requirement for the stated conditions.
2. All glazing shall conform to ASTM E1300.
3. At minimum, glazing shall be single strength annealed insulating glass.

HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
Hermes Norero, P.E.
Florida No. 73778
398 East Dania Beach Blvd. Suite 338
Dania Beach, FL 33004

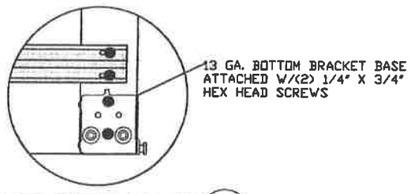
PROJECT ENGINEER: --	DATE: 03/31/2017	JELD-WEN	3737 Lakeport Blvd Klamath Falls, OR. 97601 Phone: (541) 882-3451
DRAWN BY: J.HAWKINS	SCALE: NTS		
CHECKED BY: D.BELAU	TITLE: Builders Vinyl Tilt Single Hung		
APPROVED BY: J.GOOSSEN			
PART/PROJECT No.: D008499			
IDENTIFIER No. 110-16-134	PLANT NAME AND LOCATION:	CAD DWG. No.: BldrsVinylTSH	REV: A
			SHEET 4 OF 4



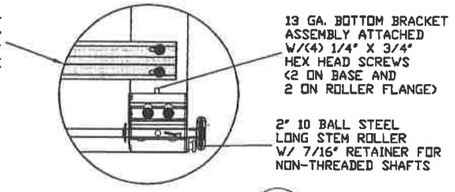
TYPICAL TOP FIXTURES (1)
N.T.S.



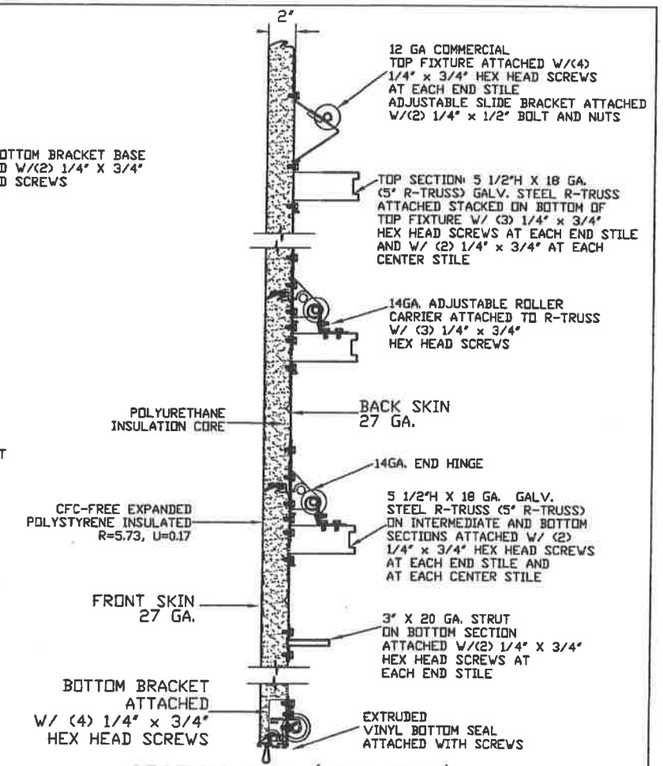
TYPICAL CENTER HINGE (2)
N.T.S.



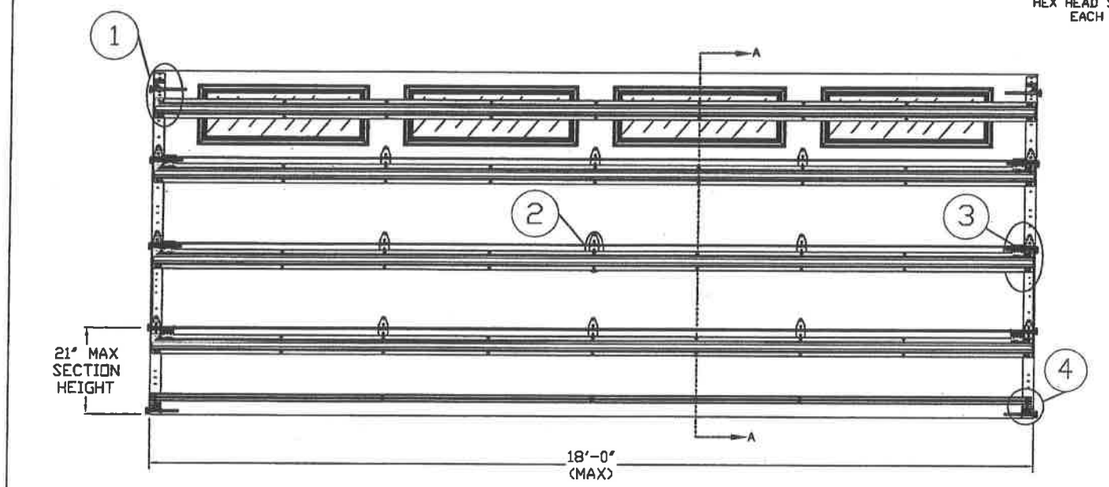
TRBB-375 BOTTOM BRACKET (4A)
N.T.S.



TRBB-375 BOTTOM BRACKET (4B)
N.T.S.

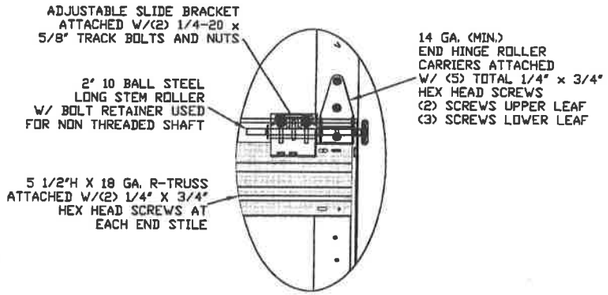


SECTION A-A (SIDE VIEW)
N.T.S.

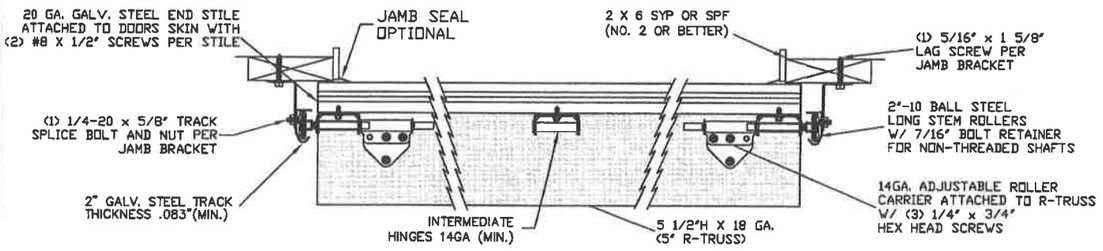


INSIDE ELEVATION
N.T.S.

LARGE MISSILE IMPACT RESISTANT



TYPICAL END HINGE (3)
N.T.S.



TRACK MOUNTING DETAIL
N.T.S.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1996, F588 AND DASMA 108, 115. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-10 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

WIND SPEED (MPH)	200	181	172	165	158
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' x 14'

DESIGN LOADS
+37.0 PSF
-40.6 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+55.5 PSF
-60.9 PSF

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

THOMAS L. SHELMERDINE LICENSE No. 48579 2/4/16 STATE OF FLORIDA PROFESSIONAL ENGINEER
FL

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr ENTREMATIC

MODEL C500 (CLAMSHELL)
AMARR OLYMPUS 3200,
AMARR DESIGNERS CHOICE 3200

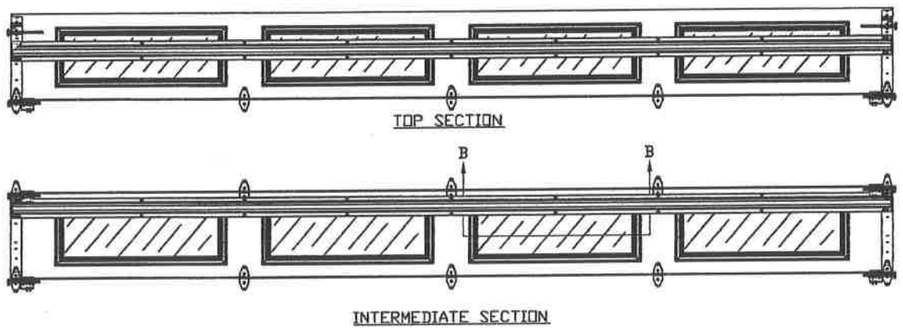
SIZE	DRAWN BY	RLR	DATE	01/19/16	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	01/19/16	IRC-C518-155-26-I

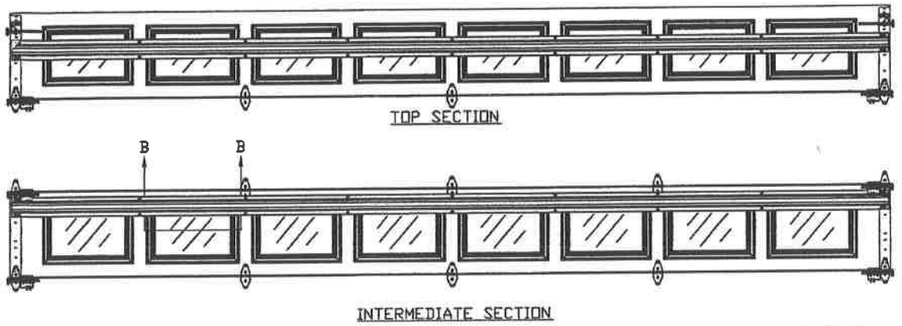
ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 1 OF 3

OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS

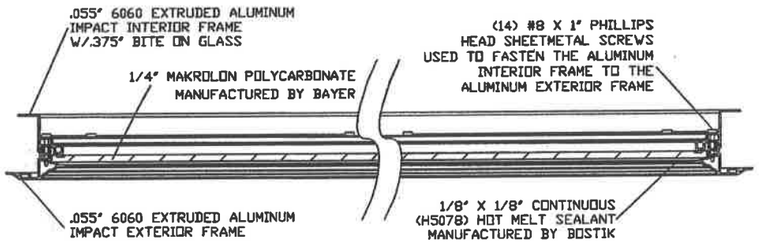
N.T.S.



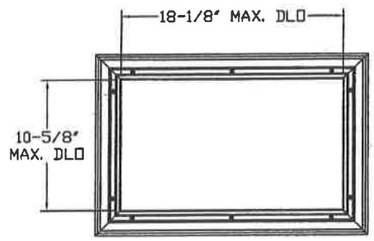


SPECIFICATIONS AND NOTES

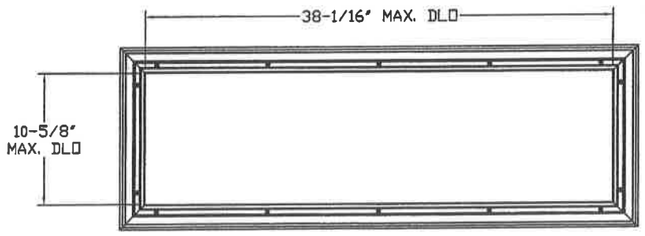
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +333.0 LBS/FT & −365.4 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.015) MIN. EXTERIOR AND INTERIOR SKIN, ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 14'0" HIGH USE (1) 5.5" 18GA R-TRUSS PER SECTION AND (1) 3" STRUT ON THE BOTTOM SECTION.
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.



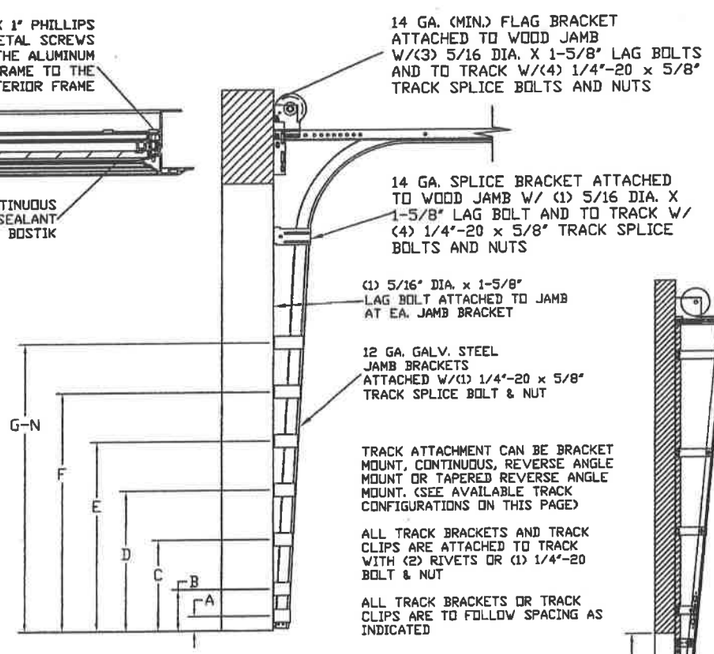
SECTION B-B IMPACT WINDOW DETAIL
N.T.S.



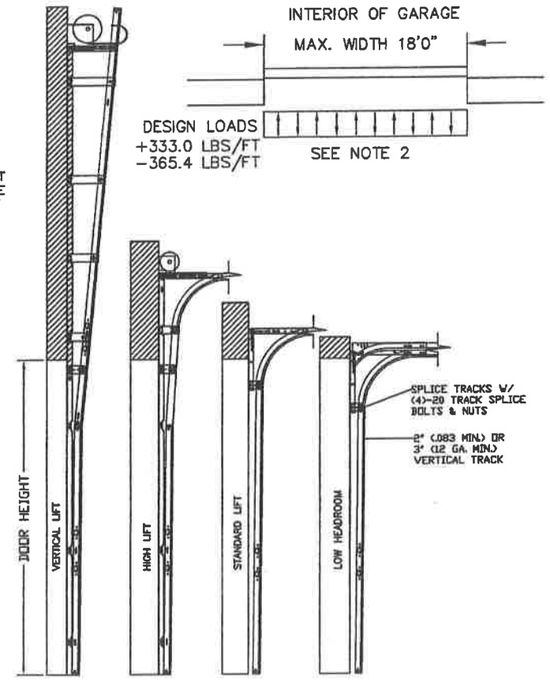
SHORT PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



LONG PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



TRACK CONFIGURATION FOR UP TO 14' TALL DOORS
SEE TABLE 1



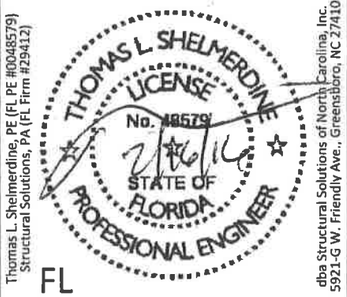
AVAILABLE TRACK CONFIGURATIONS
N.T.S.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' x 14'

DESIGN LOADS
+37.0 PSF
−40.6 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+55.5 PSF
−60.9 PSF



Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr ENTREMATIC

MODEL C500 (CLAMSHELL)
AMARR OLYMPUS 3200,
AMARR DESIGNERS CHOICE 3200

SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	RLR	01/19/16	IRC-C518-155-26-I
	CHECKED BY RLR	DATE 01/19/16	
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105			SHEET 2 OF 3

TABLE 1

HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6' 0"	3.5"	10"	22"	34"	46"	58"									64"
6' 6"	3.5"	10"	22"	34"	46"	58"									70"
7' 0"	3.5"	10"	22"	34"	46"	58"	70"								76"
7' 6"	3.5"	10"	22"	34"	46"	58"	70"								82"
8' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"							88"
8' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"							94"
9' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						100"
9' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						106"
10' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					112"
10' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					118"
11' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				124"
11' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				130"
12' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			136"
12' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			142"
13' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		148"
13' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		154"
14' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	160"

ALL TRACK ATTACHMENT SPACING +/– 3/4" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

TABLE 2

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)			Max Design Loads Allowed	
		1st (in)	2nd (in)	3rd (in)	Positive (PSF)	Negitive (PSF)
16' 2	Short	50.27	97.00	143.73	41.1	45.2
16' 2	Long	51.17	97.00	142.83	41.1	45.2
16' 4	Short	51.27	98.00	144.73	40.7	44.7
16' 4	Long	52.17	98.00	143.83	40.7	44.7
16' 6	Short	52.27	99.00	145.73	40.3	44.2
16' 6	Long	51.34	99.00	146.66	40.3	44.2
16' 8	Short	51.34	100.00	148.66	39.9	43.8
16' 8	Long	52.20	100.00	147.80	39.9	43.8
16' 10	Short	51.50	101.00	150.50	39.5	43.4
16' 10	Long	53.20	101.00	148.80	39.5	43.4
17' 0	Short	53.34	102.00	150.66	39.1	42.9
17' 0	Long	54.20	102.00	149.80	39.1	42.9
17' 2	Short	53.00	103.00	153.00	38.7	42.5
17' 2	Long	55.20	103.00	150.80	38.7	42.5
17' 4	Short	54.00	104.00	154.00	38.4	42.1
17' 4	Long	56.20	104.00	151.80	38.4	42.1
17' 6	Short	55.00	105.00	155.00	38.0	41.7
17' 6	Long	57.20	105.00	152.80	38.0	41.7
17' 8	Short	54.80	106.00	157.20	37.6	41.3
17' 8	Long	55.80	106.00	156.20	37.6	41.3
17' 10	Short	55.80	107.00	158.20	37.3	40.9
17' 10	Long	56.25	107.00	157.75	37.3	40.9
18' 0	Short	57.25	108.00	158.75	37.0	40.6
18' 0	Long	57.80	108.00	158.20	37.0	40.6

WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

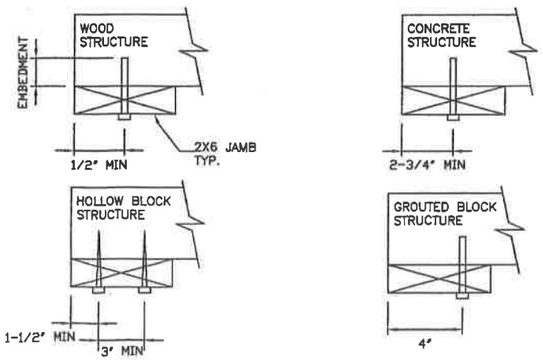
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS
THEN 14" O.C. (1 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS
THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2–3/4" STARTING 6" FROM ENDS
THEN 12" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU–BOLT) 3/8" X 4" STARTING 6" FROM ENDS
THEN 24" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C–90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART)
AT 8 O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2–3/4" KWIK–CON II+ SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/4" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C–90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8" X 2–3/4" STARTING 6" FROM ENDS
THEN 14" O.C. (1 1/4" EMBEDMENT)
(OR, USE FASTENERS FOR HOLLOW C–90 BLOCK)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS



REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
18' x 14'

DESIGN LOADS
+37.0 PSF
–40.6 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+55.5 PSF
–60.9 PSF

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

THOMAS L. SHELMERDINE
LICENSE
No. 48579
STATE OF FLORIDA
PROFESSIONAL ENGINEER
FL

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

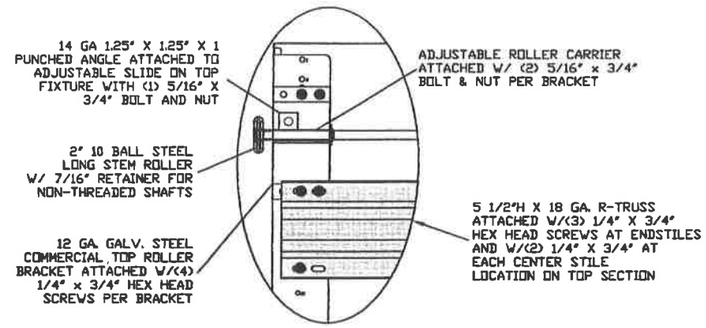
Amarr
ENTREMATIC

MODEL C500 (CLAMSHELL)
AMARR OLYMPUS 3200,
AMARR DESIGNERS CHOICE 3200

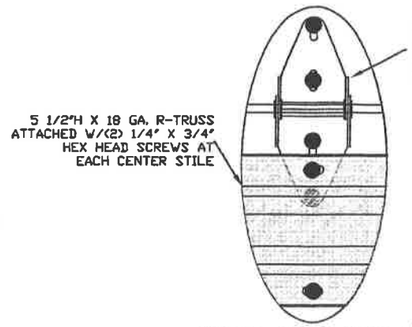
SIZE	DRAWN BY	DATE	DRAWING NUMBER
B	CHECKED BY RLR	DATE 01/19/16	IRC-C518-155-26-I

ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

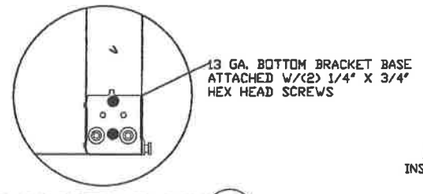
SHEET 3 OF 3



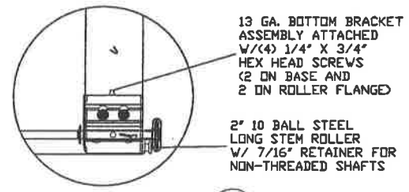
TYPICAL TOP FIXTURES (1)
N.T.S.



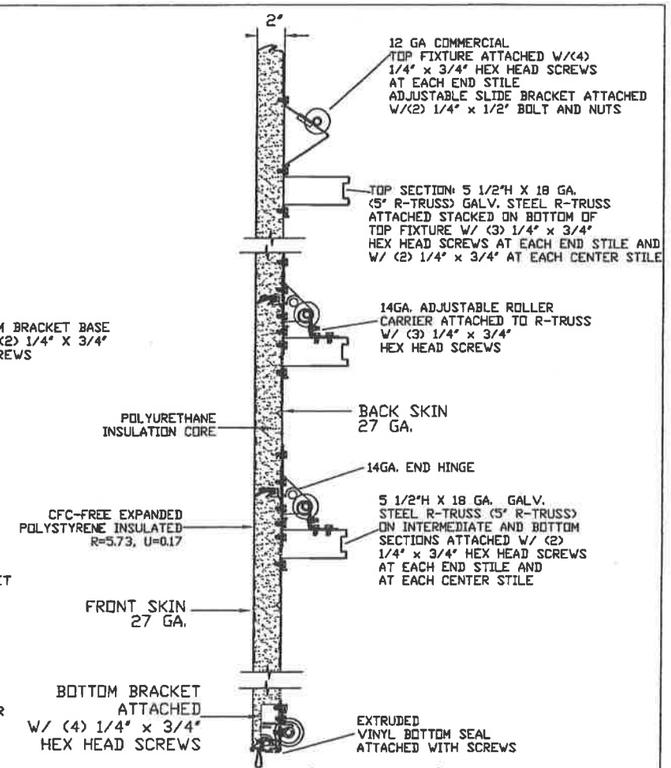
TYPICAL CENTER HINGE (2)
N.T.S.



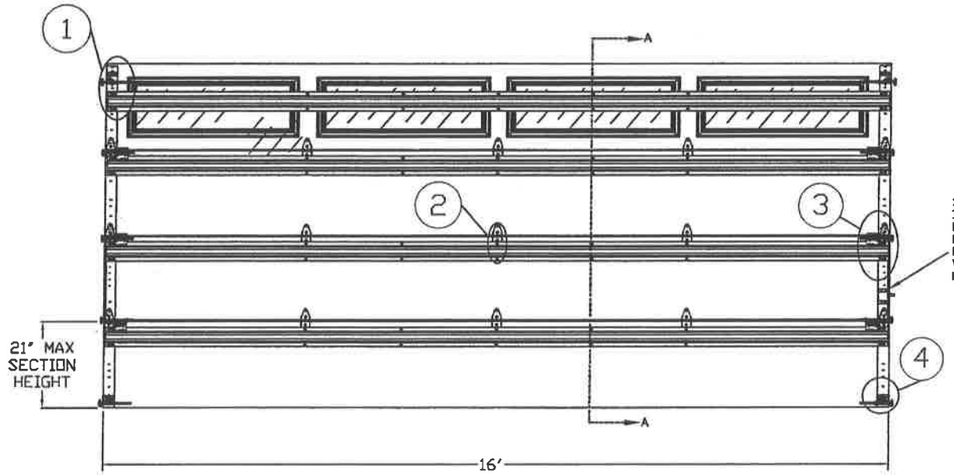
TRBB-375 BOTTOM BRACKET (4A)
N.T.S.



TRBB-375 BOTTOM BRACKET (4B)
N.T.S.

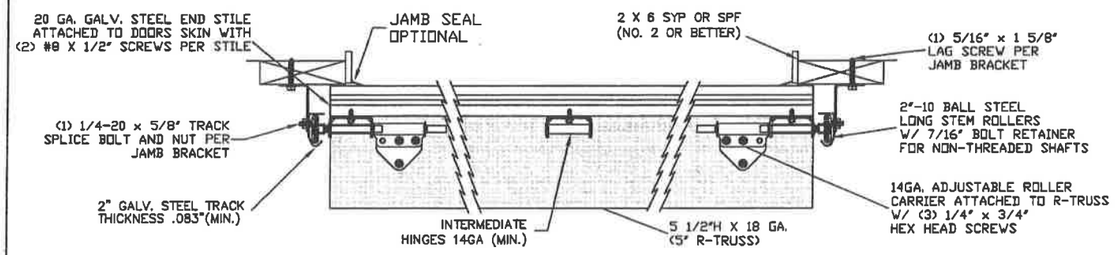


SECTION A-A (SIDE VIEW)
N.T.S.

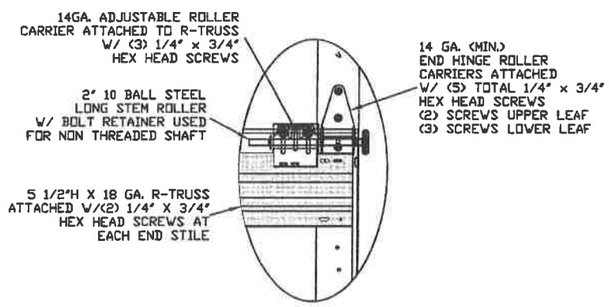


INSIDE ELEVATION
N.T.S.

LARGE MISSILE IMPACT RESISTANT



TRACK MOUNTING DETAIL
N.T.S.



TYPICAL END HINGE (3)
N.T.S.

THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN ASTM E330, E1996, F588 AND DASMA 108, 115. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-10 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE):

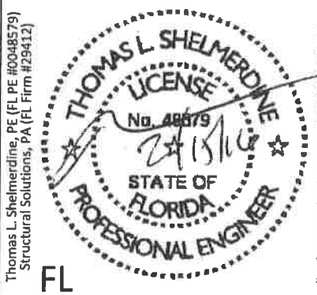
WIND SPEED (MPH)	200	182	173	165	158
EXPOSURE LEVEL	B	C	C	D	D
MEAN ROOF HEIGHT	30'	15'	25'	15'	25'

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+36.4 PSF
-41.4 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+54.6 PSF
-62.1 PSF



Thomas L. Shelmerdine, PE (FL PE #0048679)
Structural Solutions, PA (FL Firm #29412)

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr ENTREMATIC

MODEL C500 (CLAMSHELL)
AMARR OLYMPUS 3200,
AMARR DESIGNERS CHOICE 3200

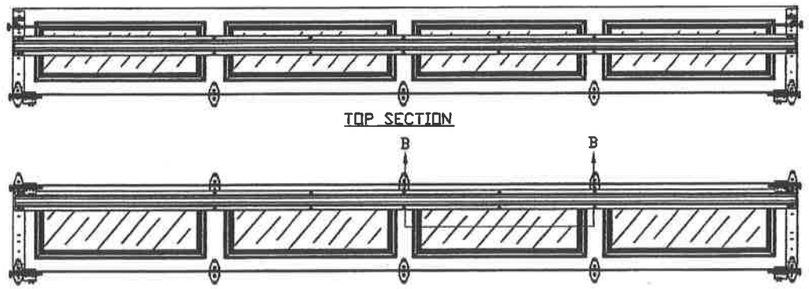
SIZE	DRAWN BY	RLR	DATE	01/13/16	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	01/13/16	IRC-C516-155-26-I

ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, NC. 27105

SHEET 1 OF 3

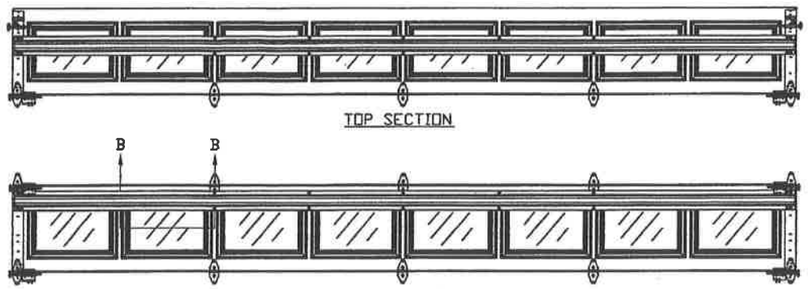
OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS

N.T.S.



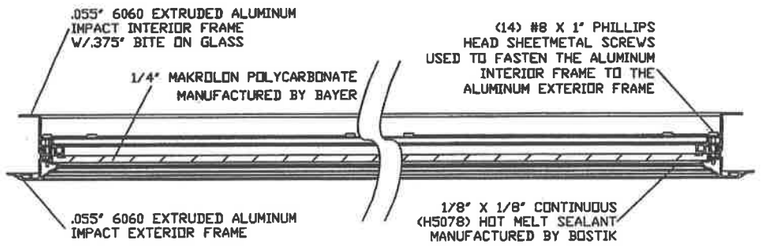
TOP SECTION

INTERMEDIATE SECTION



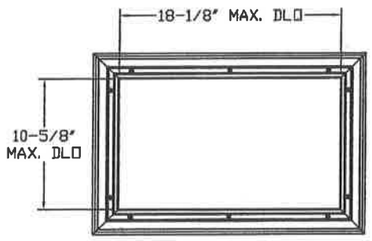
TOP SECTION

INTERMEDIATE SECTION



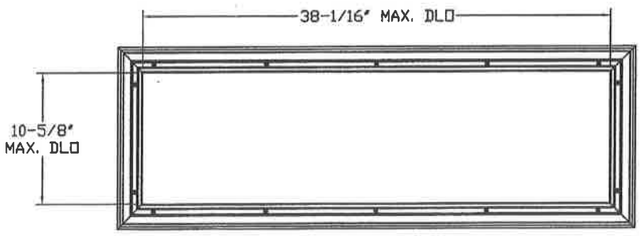
SECTION B-B IMPACT WINDOW DETAIL

N.T.S.



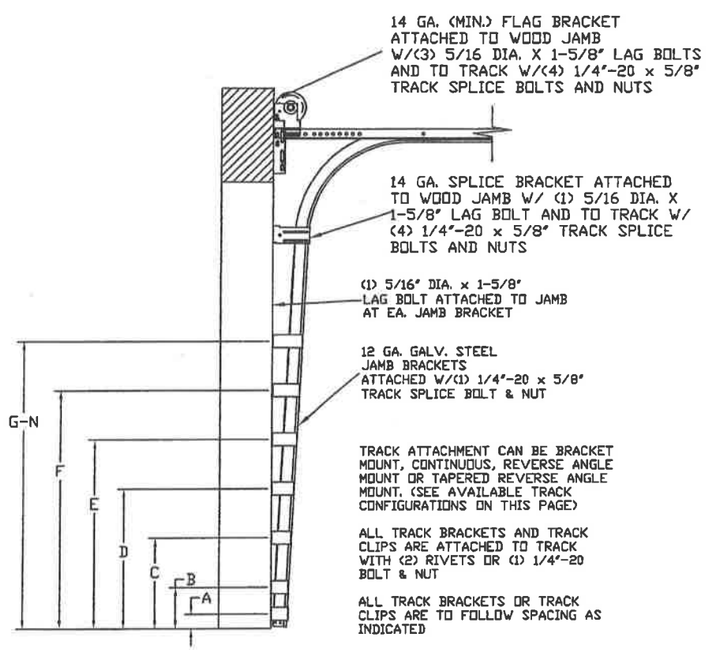
SHORT PANEL IMPACT GLAZING FASTENER DETAIL

N.T.S.



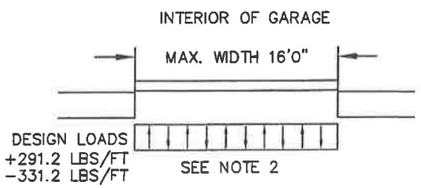
LONG PANEL IMPACT GLAZING FASTENER DETAIL

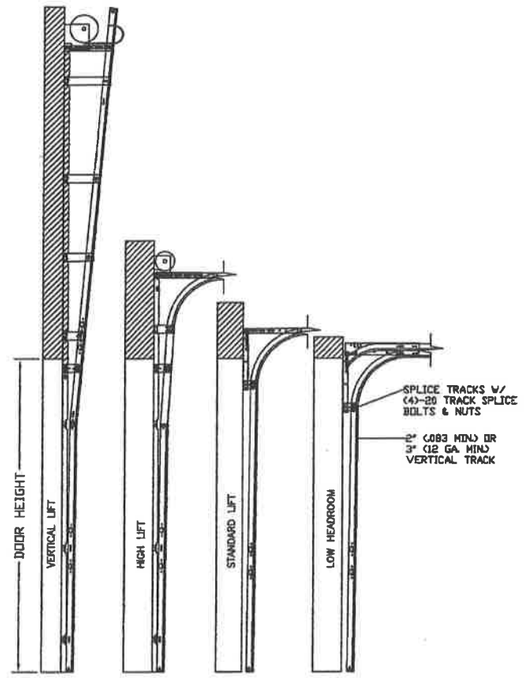
N.T.S.



TRACK CONFIGURATION FOR UP TO 14' TALL DOORS

SEE TABLE 1





AVAILABLE TRACK CONFIGURATIONS

N.T.S.

SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD TRANSFERRED FROM THE DOOR.
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +291.2 LBS/FT & -331.2 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 27 GA. (.015) MIN. EXTERIOR AND INTERIOR SKIN, ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS UP TO 14'0" USE (1) 5.5" 18GA R-TRUSS PER SECTION.
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTRED PROFESSIONAL ENGINEER FOR WIND LOADS INDICATED ON THIS DRAWING IN ADDITION TO OTHER LOADINGS.

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+36.4 PSF
-41.4 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+54.6 PSF
-62.1 PSF

THOMAS L. SHELMERDINE LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/13/16
FL

Thomas L. Shelmerdine, PE (FL PE #0048579)
Structural Solutions, PA (FL Firm #29412)

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr ENTREMATIC

MODEL C500 (CLAMSHELL)
AMARR OLYMPUS 3200,
AMARR DESIGNERS CHOICE 3200

SIZE	DRAWN BY	RLR	DATE	01/13/16	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	01/13/16	IRC-C516-155-26-I

ENTREMATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

SHEET 2 OF 3

WOOD JAMB ATTACHMENT TO STRUCTURE (OPTIONAL)

2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS
THEN 16" O.C. (1 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS
THEN 24" O.C. (2 1/2" EMBEDMENT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS
THEN 14" O.C. (1 1/4" EMBEDMENT)
ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS
THEN 24" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART)
AT 8" O.C. (1 1/2" EMBEDMENT)
HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS,
USE PAIRS OF FASTENERS (3" APART) AT 8" O.C. (1 1/4" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS
THEN 16" O.C. (1 1/4" EMBEDMENT)
(OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
*PREPARATION OF WOOD JAMBS BY OTHERS

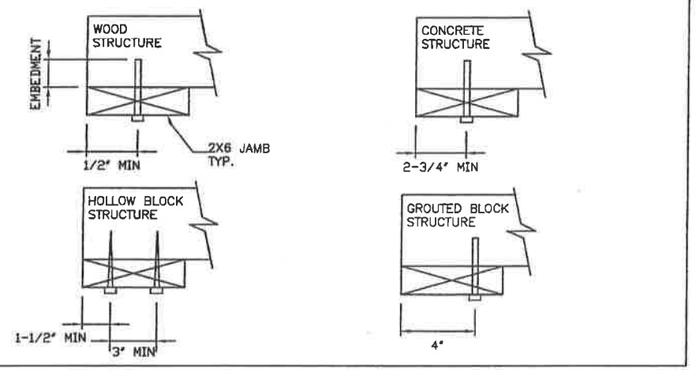


TABLE 1

HEIGHT	TRACK ATTACHMENT														SPLICE
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
6' 0"	3.5"	10"	22"	34"	46"	58"									64"
6' 6"	3.5"	10"	22"	34"	46"	58"									70"
7' 0"	3.5"	10"	22"	34"	46"	58"	70"								76"
7' 6"	3.5"	10"	22"	34"	46"	58"	70"								82"
8' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"							88"
8' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"							94"
9' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						100"
9' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"						106"
10' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					112"
10' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"					118"
11' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				124"
11' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"				130"
12' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			136"
12' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"			142"
13' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		148"
13' 6"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"		154"
14' 0"	3.5"	10"	22"	34"	46"	58"	70"	82"	94"	106"	118"	130"	142"	154"	160"

ALL TRACK ATTACHMENT SPACING +/- 2" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

TABLE 2

Section Width (ft)	Panel Type	Center Stile Locations (Measured from Left Edge)				Max Design Loads Allowed	
		1st (in)	2st (in)	3rd (in)	4th (in)	Positive (PSF)	Negitive (PSF)
13' 10	Short	57.16	82.94	108.71		42.1	47.8
14' 0	Short	57.76	83.94	110.11		41.6	47.3
14' 2	Short	58.85	84.94	111.41		41.1	46.7
14' 4	Short	59.16	85.94	112.71		40.6	46.2
14' 6	Short	59.86	86.94	114.01		40.1	45.6
14' 8	Short	60.56	87.94	115.31		39.7	45.1
14' 8	Long	44.81	88.00	131.19		39.7	45.1
14' 10	Short	61.26	88.94	116.61		39.2	44.6
14' 10	Long	45.60	89.00	132.40		39.2	44.6
15' 0	Short	61.94	89.94	117.94		38.8	44.1
15' 0	Long	46.60	90.00	133.40		38.8	44.1
15' 2	Short	62.66	90.94	119.21		38.4	43.6
15' 2	Long	47.60	91.00	134.40		38.4	43.6
15' 4	Short	53.60	79.20	104.80	130.40	37.9	43.2
15' 4	Long	47.25	92.00	136.75		37.9	43.2
15' 6	Short	46.62	93.00	139.38		37.5	42.7
15' 6	Long	47.60	93.00	138.40		37.5	42.7
15' 8	Short	47.62	94.00	140.38		37.1	42.2
15' 8	Long	48.60	94.00	139.40		37.1	42.2
15' 10	Short	48.62	95.00	141.38		36.7	41.8
15' 10	Long	49.17	95.00	140.83		36.7	41.8
16' 0	Short	49.62	96.00	142.38		36.4	41.4
16' 0	Long	50.60	96.00	141.40		36.4	41.4

REV	DESCRIPTION OF REVISIONS	DATE	BY

MAX SIZE
16' x 14'

DESIGN LOADS
+36.4 PSF
-41.4 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+54.6 PSF
-62.1 PSF

Thomas L. Shelmerdine, PE (FL PE #00485791)
Structural Solutions, PA (FL Firm #29412)

THOMAS L. SHELMERDINE LICENSE No. 48579 STATE OF FLORIDA PROFESSIONAL ENGINEER
2/15/16
FL

dba Structural Solutions of North Carolina, Inc.
5921-G W. Friendly Ave., Greensboro, NC 27410

Amarr ENTREMATIC

MODEL C500 (CLAMSHELL)
AMARR OLYMPUS 3200,
AMARR DESIGNERS CHOICE 3200

SIZE	DRAWN BY	RLR	DATE	01/13/16	DRAWING NUMBER
B	CHECKED BY	RLR	DATE	01/13/16	IRC-C516-155-26-I
ENTREMATIC 165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105					SHEET 3 OF 3

FLORIDA DEPARTMENT OF
Business & Professional Regulation

Product Approval
USER: Public User

FL #	FL22513-R1
Application Type	Affirmation
Code Version	2017
Application Status	Approved
Comments	
Archived	
Product Manufacturer	Masonite International
Address/Phone/Email	1955 Powis Road West Chicago, IL 60185 (800) 663-3667 sschreiber@masonite.com
Authorized Signature	Steve Schreiber sschreiber@masonite.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Certification Mark or Listing
Certification Agency	National Accreditation & Management Institute
Validated By	National Accreditation & Management Institute

Referenced Standard and Year (of Standard)

Standard	Year
TAS 201	1994
TAS 202	1994
TAS 203	1994

Equivalence of Product Standards Certified By

✔ I affirm that there are no changes in the new Florida Building Code which affect my product(s) and my product(s) are in compliance with the new Florida Building Code.

Documentation from approved Evaluation or Validation Entity Yes No N/A

Product Approval Method Method 1 Option A

Date Submitted	11/21/2017
Date Validated	11/21/2017
Date Pending FBC Approval	
Date Approved	11/26/2017
Date Revised	04/16/2018

Summary of Products

FL #	Model, Number or Name	Description
22513.1	HPC Wood-edge Steel Side-Hinged Door Unit	6'-8" Glazed I/S or O/S Single or Double Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +50/-50 **Other:** Evaluated for use in locations adhering to the Florida Building Code, including the High Velocity Hurricane Zone, and where pressure requirements do not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. When impact resistance is required, hurricane protective system is required. Door top rails stamped "HPC". See DWG-MA-FL0212 for details..		**Certification Agency Certificate** FL22513_R1_C_CAC_NI013747.01.pdf **Quality Assurance Contract Expiration Date** 06/30/2021 **Installation Instructions** FL22513_R1_II_FL0212.pdf Verified By: National Accreditation & Management Institute Created by Independent Third Party: **Evaluation Reports** FL22513_R1_AE_514008.pdf Created by Independent Third Party: Yes
22513.2	Wood-edge Steel Side-Hinged Door Unit	8'-0" Opaque I/S or O/S Single Door Unit
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +70/-70 **Other:** Evaluated for use in locations adhering to the Florida Building Code, including the High Velocity Hurricane Zone, and where pressure requirements do not exceed the design pressures listed. 3'-0" x 8'-0" max nominal size. When impact resistance is required, hurricane protective system not required. See DWG-MA-FL0215 for details.		**Certification Agency Certificate** FL22513_R1_C_CAC_NI013747.04.pdf **Quality Assurance Contract Expiration Date** 06/30/2021 **Installation Instructions** FL22513_R1_II_FL0215.pdf Verified By: National Accreditation & Management Institute Created by Independent Third Party: **Evaluation Reports** FL22513_R1_AE_514009.pdf Created by Independent Third Party: Yes
22513.3	Wood-edge Steel Side-Hinged Door Unit	8'-0" Opaque I/S Single or Double Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +45/-50 **Other:** Evaluated for use in locations adhering to the Florida Building Code, including the High Velocity Hurricane Zone, and where pressure requirements do not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. When impact resistance is required, hurricane protective system not required on opaque panels, but is required on glazed sidelites. See DWG-MA-FL0215 for details.		**Certification Agency Certificate** FL22513_R1_C_CAC_NI013747.04.pdf **Quality Assurance Contract Expiration Date** 06/30/2021 **Installation Instructions** FL22513_R1_II_FL0215.pdf Verified By: National Accreditation & Management Institute Created by Independent Third Party: **Evaluation Reports** FL22513_R1_AE_514007.pdf Created by Independent Third Party: Yes
22513.4	Wood-edge Steel Side-Hinged Door Unit	8'-0" Opaque O/S Single or Double Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +50/-45 **Other:** Evaluated for use in locations adhering to the Florida Building Code, including the High Velocity Hurricane Zone, and where pressure requirements do not exceed the design pressures listed. 12'-0" x 8'-0" max nominal size. When impact resistance is required, hurricane protective system not required on opaque panels, but is required on glazed sidelites. See DWG-MA-FL0215 for details.		**Certification Agency Certificate** FL22513_R1_C_CAC_NI013747.04.pdf **Quality Assurance Contract Expiration Date** 06/30/2021 **Installation Instructions** FL22513_R1_II_FL0215.pdf Verified By: National Accreditation & Management Institute Created by Independent Third Party: **Evaluation Reports** FL22513_R1_AE_514007.pdf Created by Independent Third Party: Yes
22513.5	Wood-edge Steel Side-Hinged Door Unit	8'-0" 3/4-Lite Glazed I/S or O/S Single or Double Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +40/-40 **Other:** Evaluated for use in locations adhering to the Florida Building Code, including the High Velocity Hurricane Zone, and where pressure requirements do not exceed the		**Certification Agency Certificate** FL22513_R1_C_CAC_NI013747.06.pdf **Quality Assurance Contract Expiration Date** 06/30/2021 **Installation Instructions** FL22513_R1_II_FL0217.pdf Verified By: National Accreditation & Management Institute Created by Independent Third Party:

design pressures listed. 12'-0" x 8'-0" max nominal size. When impact resistance is required, hurricane protective system is required. See DWG-MA-FL0217 for details.		**Evaluation Reports** FL22513_R1_AE_514007.pdf Created by Independent Third Party: Yes
22513.6	Wood-edge Steel Side-Hinged Door Unit	6'-8" Opaque I/S or O/S Single Door
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +70/-70 **Other:** Evaluated for use in locations adhering to the Florida Building Code, including the High Velocity Hurricane Zone, and where pressure requirements do not exceed the design pressures listed. 3'-0" x 6'-8" max nominal size. When impact resistance is required, hurricane protective system not required. See DWG-MA-FL0211 for details.		**Certification Agency Certificate** FL22513_R1_C_CAC_NI013747.pdf **Quality Assurance Contract Expiration Date** 06/30/2021 **Installation Instructions** FL22513_R1_II_FL0211.pdf Verified By: National Accreditation & Management Institute Created by Independent Third Party: **Evaluation Reports** FL22513_R1_AE_514010.pdf Created by Independent Third Party: Yes
22513.7	Wood-edge Steel Side-Hinged Door Unit	6'-8" Opaque I/S or O/S Single or Double Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +55/-55 **Other:** Evaluated for use in locations adhering to the Florida Building Code, including the High Velocity Hurricane Zone, and where pressure requirements do not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. When impact resistance is required, hurricane protective system not required on opaque panels, but is required on glazed sidelites. See DWG-MA-FL0211 for details.		**Certification Agency Certificate** FL22513_R1_C_CAC_NI013747.pdf **Quality Assurance Contract Expiration Date** 06/30/2021 **Installation Instructions** FL22513_R1_II_FL0211.pdf Verified By: National Accreditation & Management Institute Created by Independent Third Party: **Evaluation Reports** FL22513_R1_AE_514008.pdf Created by Independent Third Party: Yes
22513.8	Wood-edge Steel Side-Hinged Door Unit	6'-8" 3/4-Lite Glazed I/S or O/S Single or Double Door w/ or w/o Sidelites
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +50/-50 **Other:** Evaluated for use in locations adhering to the Florida Building Code, including the High Velocity Hurricane Zone, and where pressure requirements do not exceed the design pressures listed. 12'-0" x 6'-8" max nominal size. When impact resistance is required, hurricane protective system is required. See DWG-MA-FL0214 for details.		**Certification Agency Certificate** FL22513_R1_C_CAC_NI013747.03.pdf **Quality Assurance Contract Expiration Date** 06/30/2021 **Installation Instructions** FL22513_R1_II_FL0214.pdf Verified By: National Accreditation & Management Institute Created by Independent Third Party: **Evaluation Reports** FL22513_R1_AE_514008.pdf Created by Independent Third Party: Yes

Back Next

MASONITE

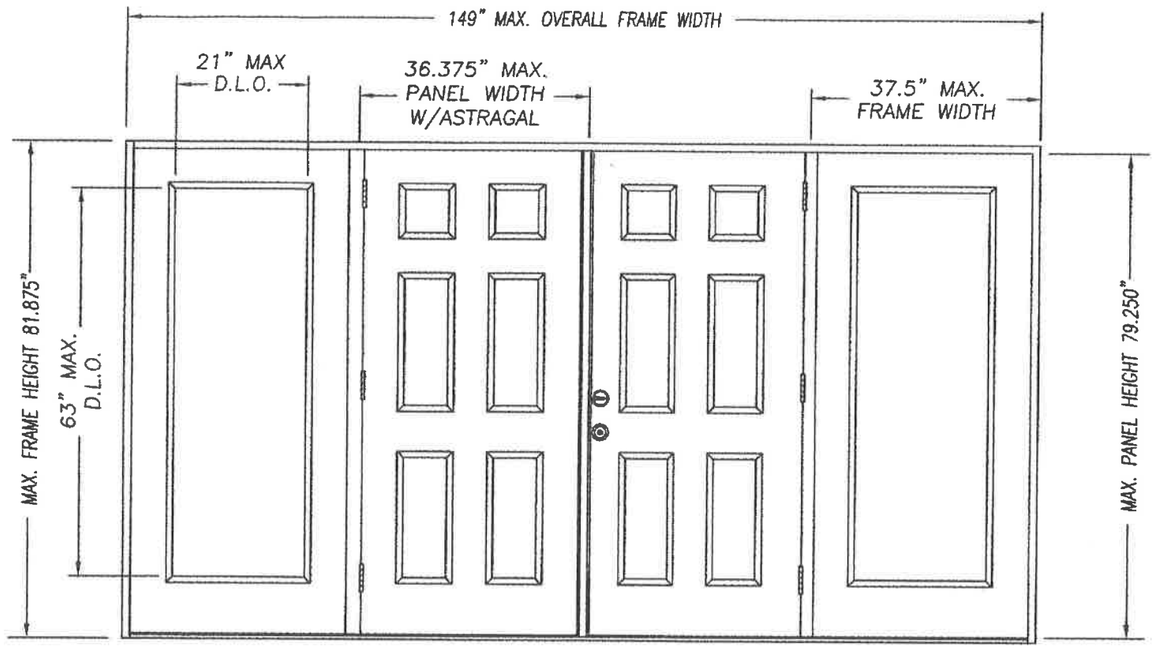
WOOD-EDGE STEEL DOOR UNIT
6'-8" DOUBLE DOOR WITH / WITHOUT SIDELITES

GENERAL NOTES

1. EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, DOES NOT EXCEED THE DESIGN PRESSURES LISTED.
2. HURRICANE PROTECTIVE SYSTEM (SHUTTERS) IS NOT REQUIRED ON OPAQUE PANELS, BUT IS REQUIRED ON GLAZED SIDELITES.
3. WHEN INSTALLED IN THE WIND-BORNE DEBRIS REGION, EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ), HURRICANE PROTECTIVE SYSTEM IS NOT REQUIRED ON OPAQUE PANELS OR PANELS WITH IMPACT GLASS, BUT IS REQUIRED ON PANELS WITH NON-IMPACT GLASS.
4. POLYURETHANE CORE FLAME SPREAD INDEX OF 50 AND SMOKE DEVELOPED INDEX OF 60 PER ASTM E84.
5. PLASTICS TESTING:

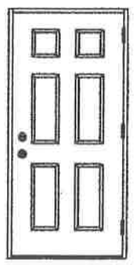
TEST DESCRIPTION	DESIGNATION	LITE FRAME
SELF IGNITION TEMP	ASTM D1929	842 °F > 650 °F
RATE OF BURNING	ASTM D635	1.28 IN/MIN
SMOKE DENSITY	ASTM D2843	70.2%
TENSILE STRENGTH*	ASTM D638	1.8% DIFF

* COMPARATIVE TENSILE STRENGTH AFTER WEATHERING 4500 HOURS XENON ARC METHOD 1

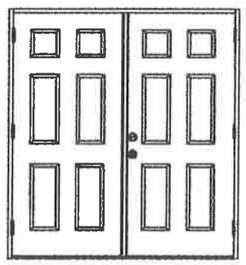


DOUBLE DOOR UNIT W/SIDELITES

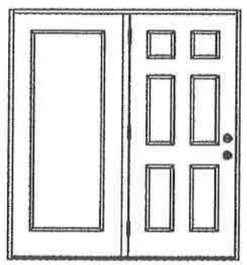
Addendum to NAMI
Certification No.: NI013747
Reviewed By:
Date Reviewed: 6/5/17



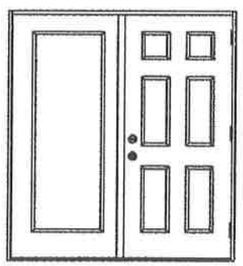
SINGLE DOOR UNIT



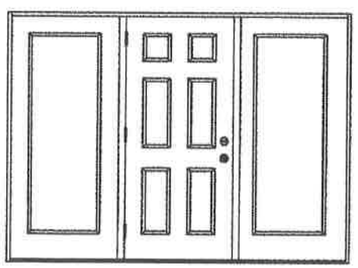
DOUBLE DOOR UNIT



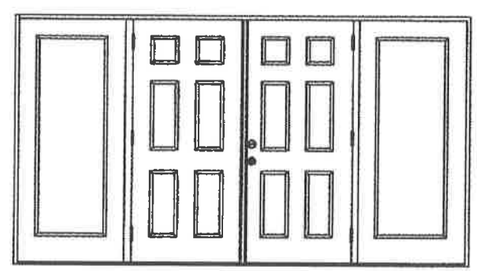
SINGLE DOOR UNIT WITH SIDELITE



SINGLE DOOR UNIT WITH SIDELITE



SINGLE DOOR UNIT W/SIDELITES



DOUBLE DOOR UNIT W/SIDELITES

TABLE OF CONTENTS

CONFIG	MAX WIDTH	DESIGN PRESSURE RATING		WHERE WATER INFILTRATION PERFORMANCE IS REQUIRED TO BE 15% OF DESIGN PRESSURE			
		INSWING	OUTSWING	INSWING	BUMPER O/S	Z-SERIES O/S	HIGH DAM O/S
X	37.5"	+70.0 / -70.0	+70.0 / -70.0	N/A	+20.0 / -20.0	+30.0 / -30.0	+50.0 / -50.0
XX	74"	+55.0 / -55.0	+55.0 / -55.0	N/A	+20.0 / -20.0	+30.0 / -30.0	+50.0 / -50.0
OX or XO	75"	+55.0 / -55.0	+55.0 / -55.0	N/A	+20.0 / -20.0	+30.0 / -30.0	+50.0 / -50.0
OXO	112.5"	+55.0 / -55.0	+55.0 / -55.0	N/A	+20.0 / -20.0	+30.0 / -30.0	+50.0 / -50.0
OXXO	149"	+55.0 / -55.0	+55.0 / -55.0	N/A	+20.0 / -20.0	+30.0 / -30.0	+50.0 / -50.0

KURT BALTHAZOR
FLORIDA P.E.
#56533

MASONITE INTERNATIONAL CORP.
1955 POWIS ROAD
WEST CHICAGO, IL 60185

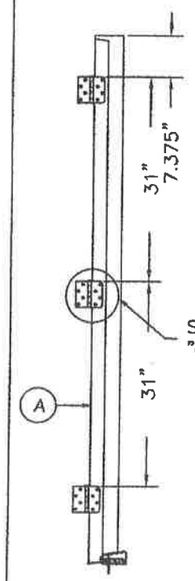
PRODUCT: "EXTERIOR DOOR PRODUCT" DOUBLE 6'8" OPAQUE WOOD-EDGE STEEL DOOR

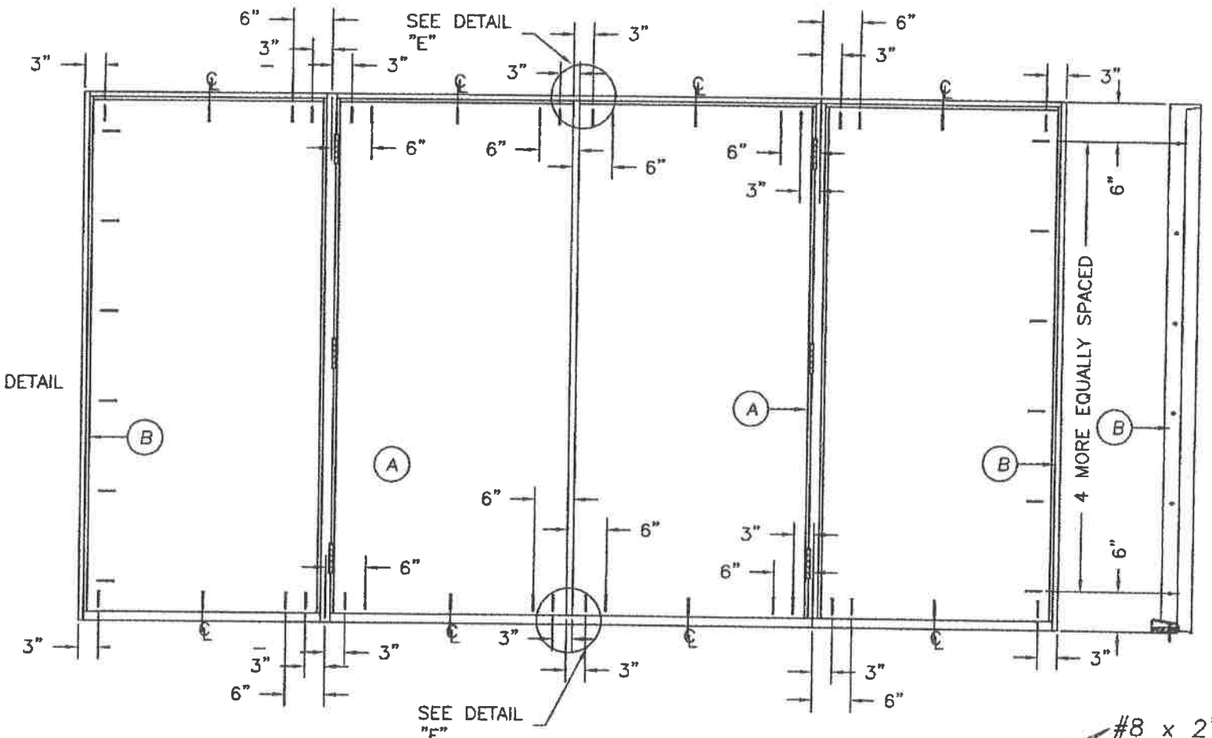
PART OR ASSEMBLY: TYPICAL ELEVATIONS & GENERAL NOTES

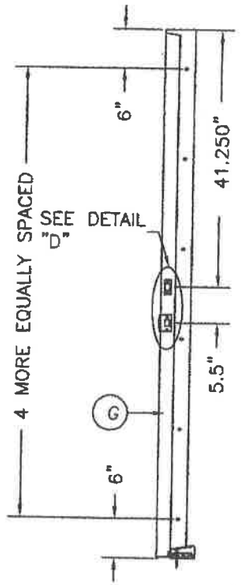
NO.	DATE	BY

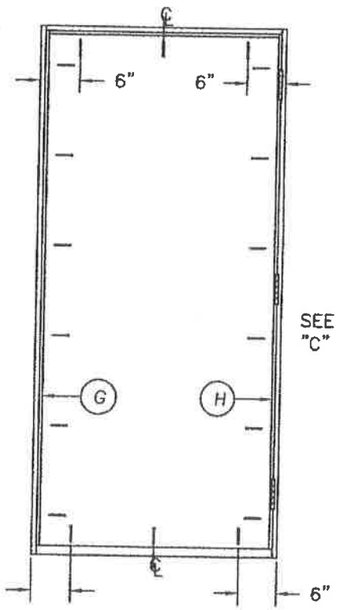
REVISIONS

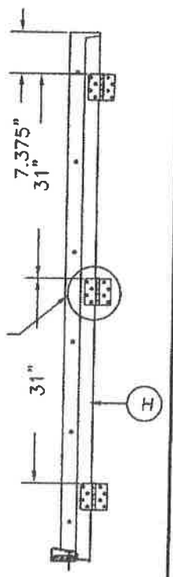
DATE: 5/26/17
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.: DWG-MA-FL0211-17
SHEET 1 OF 3

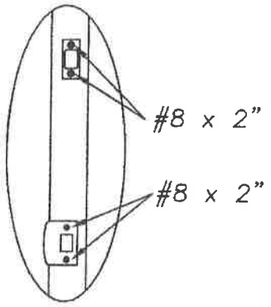




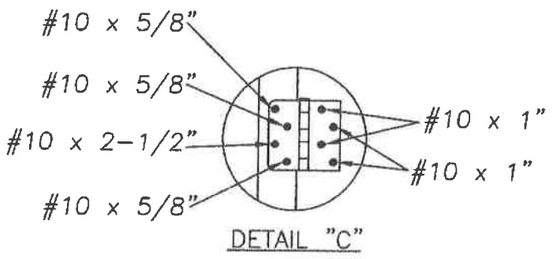




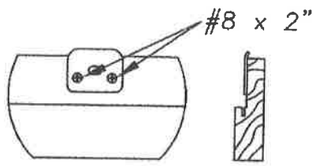




DETAIL "D"

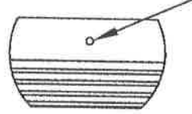


DETAIL "C"



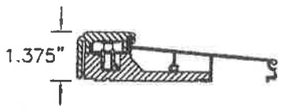
DETAIL "E" ASTRAGAL

ATTACH ASTRAGAL RETAINER BOLT STRIKE PLATE TO FRAME AS SHOWN.

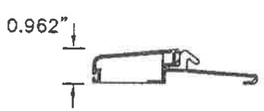


ASTRAGAL RETAINER BOLT HOLE MUST BE DRILLED THROUGH THE THRESHOLD & INTO THE STRUCTURE DEEP ENOUGH FOR A 1.375" THROW

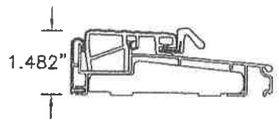
DETAIL "F" ASTRAGAL



INSWING THRESHOLD

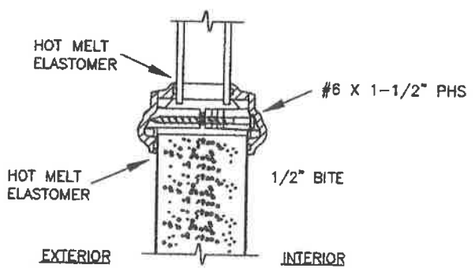


BUMPER O/S THRESHOLD



Z-SERIES O/S THRESHOLD

HIGH DAM O/S THRESHOLD



TYPICAL GLAZING DETAIL
NON-IMPACT GLASS

Addendum to NAMI

Certification No.: NI013747
Reviewed By:
Date Reviewed: 6/5/17

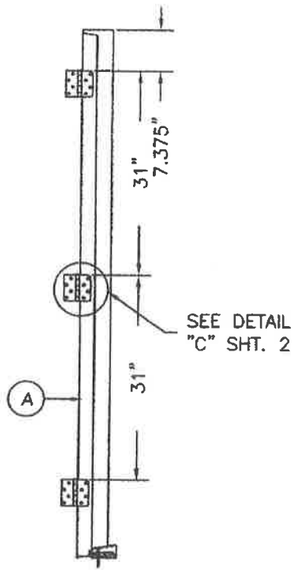
MASONITE INTERNATIONAL CORP.
1955 POWIS ROAD
WEST CHICAGO, IL 60185

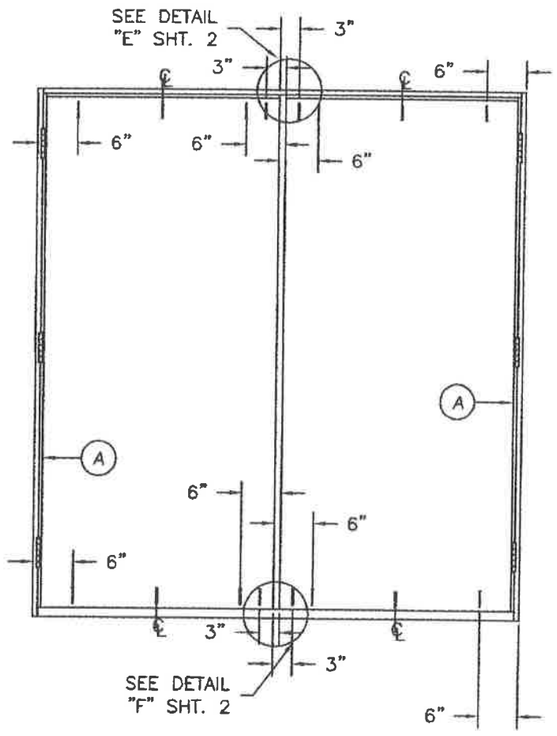
PRODUCT: "EXTERIOR DOOR PRODUCT" 6'-8" WOOD-EDGE STEEL OPAQUE DOUBLE DOOR UNIT

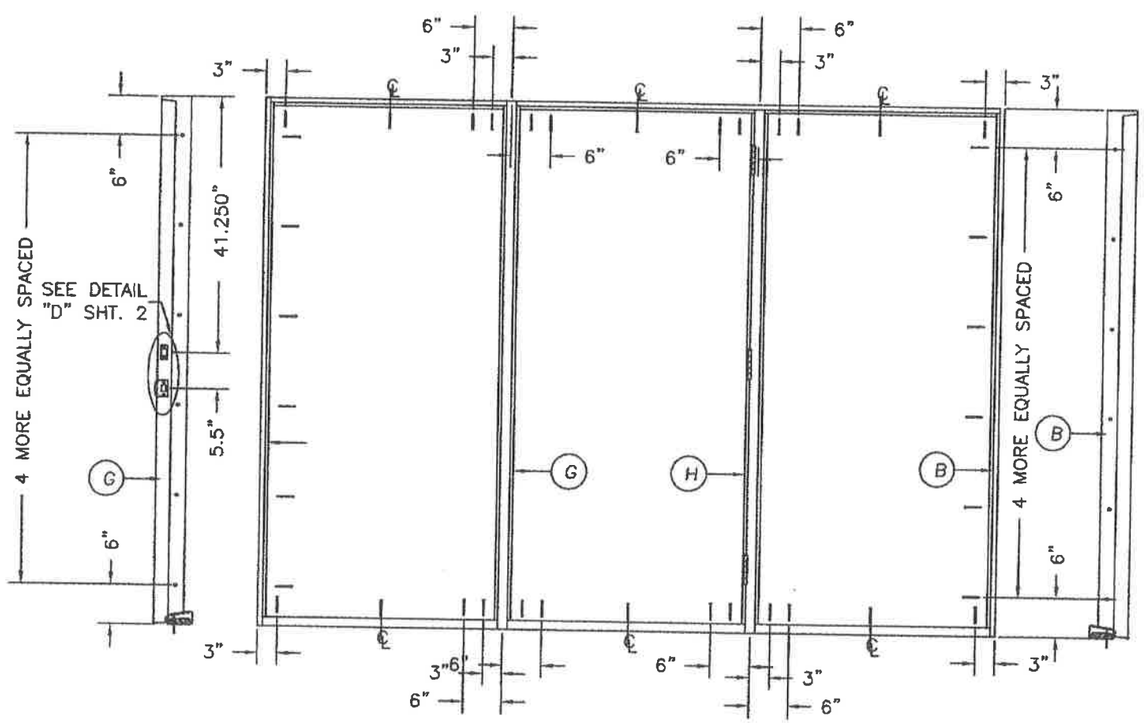
PART OR ASSEMBLY: ANCHORING LOCATIONS & DETAILS

NO.	DATE	BY
REVISIONS		

DATE: 5/26/17
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.: DWG-MA-FL0211-17
SHEET 2 OF 3





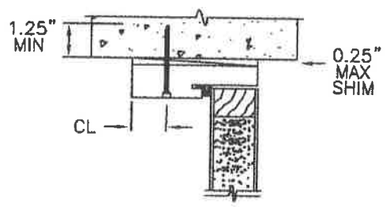


HARDWARE SCHEDULE

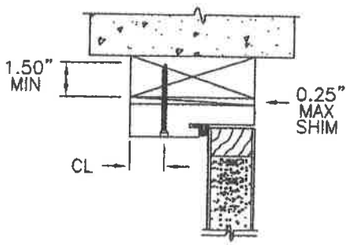
1.	KWIKSET SERIES 400 GRADE 3 CYLINDRICAL LATCH AND SERIES 980 GRADE 1 DEADLOCK HARDWARE TO BE INSTALLED AT 5–1/2" CENTERLINE.
2.	4" X 4" FULL MORTISE BUTT HINGES.

ATTACHMENT DETAIL

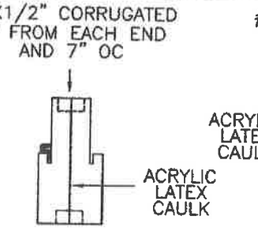
1. ANCHOR ANALYSIS FOR LOADING CONDITIONS PREPARED, SIGNED AND SEALED BY ROBERTO LOMAS, PE (FLORIDA #62514) WITH THE LOWEST (LEAST) FASTENER RATING FROM THE DIFFERENT FASTENERS BEING CONSIDERED FOR USE. JAMB, HEAD, AND THRESHOLD FASTENERS ANALYZED FOR THIS UNIT INCLUDE #10 WOOD SCREWS OR 1/4" TAPCONS. A PHYSICAL SHIM MUST BE PLACED IN SHIM SPACE AT EACH ANCHOR LOCATION. TAPCON EDGE DISTANCE MIN 2–1/2". WOOD SCREW EDGE DISTANCE MIN 3/4".
2. THE WOOD SCREW SINGLE SHEAR DESIGN VALUES COME FROM ANSI/AF&PA NDA FOR SOUTHERN PINE LUMBER AND ACHEIVEMENT OF 1–1/2" MINIMUM EMBEDMENT. THE TAPCON MUST ACHIEVE MINIMUM EMBEDMENT OF 1–1/4".
3. WOOD BUCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO STRUCTURE.
4. MINIMUM DESIGN VALUE STRENGTH OF ANCHORS 155 LBS.



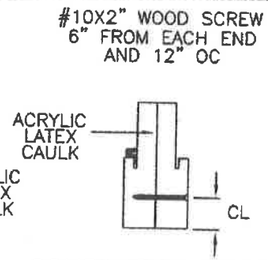
TYPICAL MASONRY
ANCHOR INSTALLATION



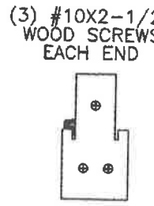
TYPICAL WOOD BUCK
ANCHOR INSTALLATION



COMBINATION WOOD
MULLION (BOXED)



COMBINATION WOOD
MULLION (BOXED)



INTEGRAL WOOD
MULLION (CHS)

Addendum to NAMI

Certification No.: NI013747
Reviewed By:
Date Reviewed 6/5/17

MASONITE INTERNATIONAL CORP.
1955 POWIS ROAD
WEST CHICAGO, IL 60185

PRODUCT:
"EXTERIOR DOOR PRODUCT"
6'-8" WOOD-EDGE STEEL OPAQUE
DOUBLE DOOR UNIT

PART OR ASSEMBLY:
ANCHORING LOCATIONS
& DETAILS

NO.	DATE	BY
REVISIONS		

DATE: 5/26/17
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.:
DWG-MA-FL0211-17
SHEET 3 OF 3

Alpine, an ITW Company
2400 Lake Orange Dr., Suite 150
Orlando, FL 32837
Phone: (800)755-6001
alpineitw.com

Site Information:

Customer: Accu-Span Truss Company	Job Number: 15814
JobDescription: Springer Garage /Springer Garage -JWB Architects	
Address: 6501 Matchett Rd	City, State, Zip: BELLE ISLE, FL 32809

Name, Address and License # of Structural EOR if one exists for the building:

Name:	License #:	State:
Address:	City, State, Zip:	

Job Engineering Criteria:

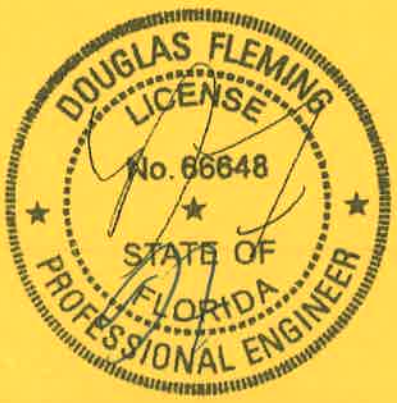
Design Code: FBC 2017 RES		View Version: 17.02.01.1115.21	JRef #: 1W844080013
Wind Standard: ASCE 7-10	Wind Speed (mph): 140	Roof Load (psf): 20.00- 7.00- 0.00- 10.00	Floor Load (psf): None

This package contains a job notes page, 7 truss drawings and 3 details.

Item	Seal #	Truss
1	032.18.1448.38519	A01
3	032.18.1448.38520	A03
5	032.18.1448.40550	G02
7	032.18.1448.40661	EJ6

Item	Seal #	Truss
2	032.18.1726.07327	A02
4	032.18.1726.10050	C01
6	032.18.1448.40675	G01

Reviewed for Code Compliance
Universal Engineering Sciences



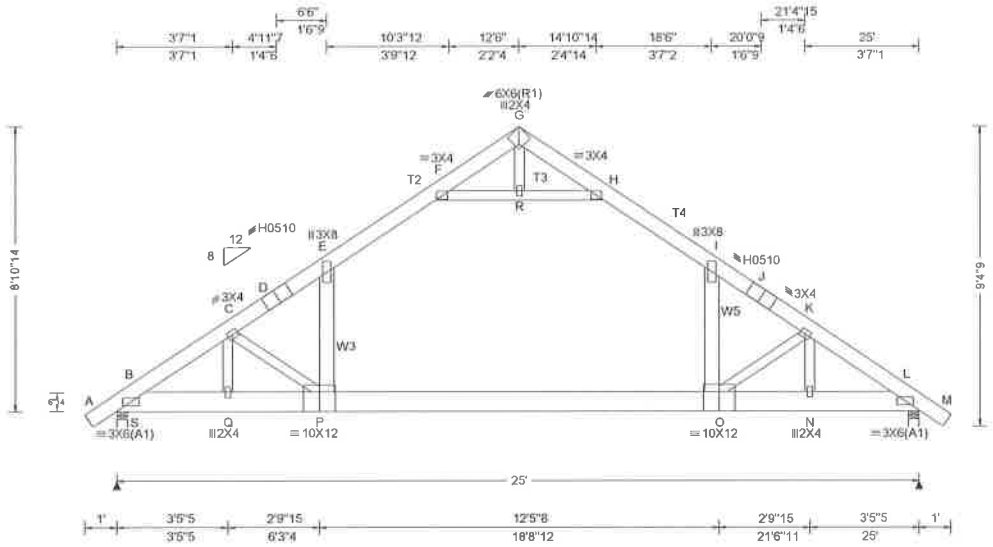
This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.

02/02/2018

Florida Certificate of Product Approval #FL1999

Printed 2/2/2018 3:35:42 PM

Job Number: 15814 Springer Garage **Truss Label:** A01	Ply: 1 Qty: 4	SEQN: 783714 / T6 / COMN FROM: AH	Cust: R R408 JRef: 1W844080013 DrwNo: 032.18.1448.38519 KM / DF 02/01/2018



Loading Criteria (psf)

TCLL:	20.00
TCDL:	7.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	37.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 140 mph
Enclosure: Closed
Risk Category: II
EXP: D
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:0(0)/10(0)
Plate Type(s):
WAVE, HS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.288 E	999	240
VERT(TL):	0.844 E	536	180
HORZ(LL):	0.181 E	-	-
HORZ(TL):	0.351 E	-	-

Creep Factor: 2.0
Max TC CSI: 0.891
Max BC CSI: 0.704
Max Web CSI: 0.276

VIEW Ver: 17.02.01A.1115.21

▲Maximum Reactions (lbs)

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
S	1808	/ 447	/ 619	/ -	/ 373	/ 4.0
L	1808	/ 447	/ 619	/ -	/ -	/ 4.0

Wind reactions based on MWFRS
S Min Brg Width Req = 2.1
L Min Brg Width Req = 2.1
Bearings S & L are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	858	- 2748	G - H	458	- 89
C - D	770	- 2822	H - I	662	- 1883
D - E	778	- 2775	I - J	778	- 2775
E - F	661	- 1883	J - K	770	- 2822
F - G	461	- 88	K - L	857	- 2748

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - Q	2298	- 607	O - N	2302	- 619
Q - P	2302	- 607	N - L	2298	- 619
P - O	1939	- 342			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
Q - C	159	- 611	R - H	895	- 2588
C - P	352	- 515	I - O	1474	- 239
P - E	1474	- 239	O - K	351	- 515
F - R	896	- 2592	K - N	169	- 611
G - R	410	- 141			

Lumber

Top chord 2x6 SP #2 :T2, T4 2x6 SP SS:
:T3 2x4 SP #2 Dense:
Bot chord 2x8 SP SS
Webs 2x4 SP #3 :W3, W5 2x6 SP #2:

Loading

Attic room loading from 6-8-12 to 18-3-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

Wind loads based on MWFRS with additional C&C member design.

#0 278

02/02/2018

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

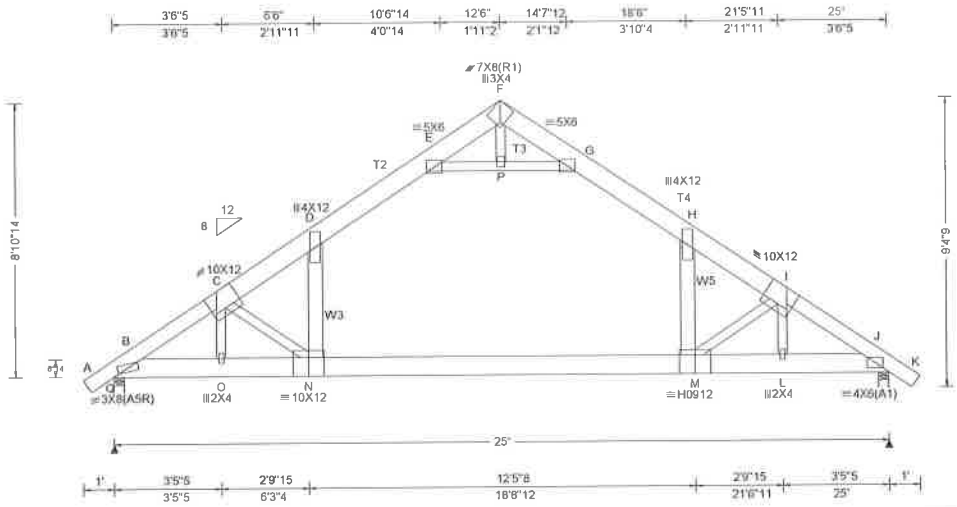
Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. **A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Job Number: 15814 Springer Garage /Springer Garage -JWB Architects **Truss Label:** A02	Ply: 3 Qty: 2	SEQN: 599267 / T8 COMN FROM: AH	Cust: R408 JRef: 1W844080013 DrwNo: 032.18.1726.07327 KM / DF 02/01/2018

3 Complete Trusses Required



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 140 mph	Pf: NA Ce: NA	VERT(LL): 0.295 N 999 240
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(TL): 0.844 N 527 180
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.176 D - -
Des Ld: 37.00	EXP: D		HORZ(TL): 0.340 D - -
NCBCLL: 0.00	Mean Height: 15.00 ft	**Code / Misc Criteria**	Creep Factor: 2.0
Soffit: 2.00	TCDL: 4.2 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.913
Load Duration: 1.25	BCDL: 3.0 psf	TPI Std: 2014	Max BC CSI: 0.799
Spacing: 73.0 "	MWFRS Parallel Dist: 0 to h/2	Rep Factors Used: Yes	Max Web CSI: 0.391
	C&C Dist a: 3.00 ft	FT/RT:0(0)/10(0)	
	Loc. from endwall: Any	Plate Type(s):	VIEW Ver: 17.02.01A.1114.21
	GCpi: 0.18	WAVE, HS	
	Wind Duration: 1.60		

▲ Maximum Reactions (lbs)

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
Q	7706	/ 2601	/ 1884	/ -	/ 1131	/ 4.0
J	7230	/ 2117	/ 1884	/ -	/ -	/ 4.0

Wind reactions based on MWFRS
Q Min Brg Width Req = 3.0
J Min Brg Width Req = 2.8
Bearings Q & J are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	1315	- 3991	F - G	595	- 96
C - D	1165	- 4079	G - H	859	- 2849
D - E	782	- 2619	H - I	1061	- 3945
E - F	599	- 98	I - J	1032	- 3716

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - O	3322	- 1080	M - L	3033	- 826
O - N	3272	- 1076	L - J	3088	- 840
N - M	2815	- 789			

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
C - O	112	- 794	P - G	961	- 3769
C - N	343	- 618	H - M	1776	- 236
N - D	2421	- 555	M - I	317	- 388
E - P	963	- 3776	L - I	210	- 874
F - P	846	- 215			

Lumber

Top chord 2x6 SP #2 :T2, T4 2x8 SP SS:
:T3 2x4 SP #2 Dense:
Bot chord 2x8 SP SS
Webs 2x4 SP #3 :W3, W5 2x6 SP #2:

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 3.75" o.c.
Bot Chord: 1 Row @ 9.00" o.c.
Webs : 1 Row @ 4" o.c.
Repeat nailing as each layer is applied. Use equal spacing between rows and stagger nails in each row to avoid splitting.
4" o.c. spacing of nails perpendicular and parallel to grain required in area over bearings greater than 4"

Loading

Attic room loading from 6-8-12 to 18-3-4: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

Collar-tie braced with continuous lateral bracing at 24" oc.

Wind

Wind loads based on MWFRS.

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @ 24" OC.

#0 278

02/02/2018

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

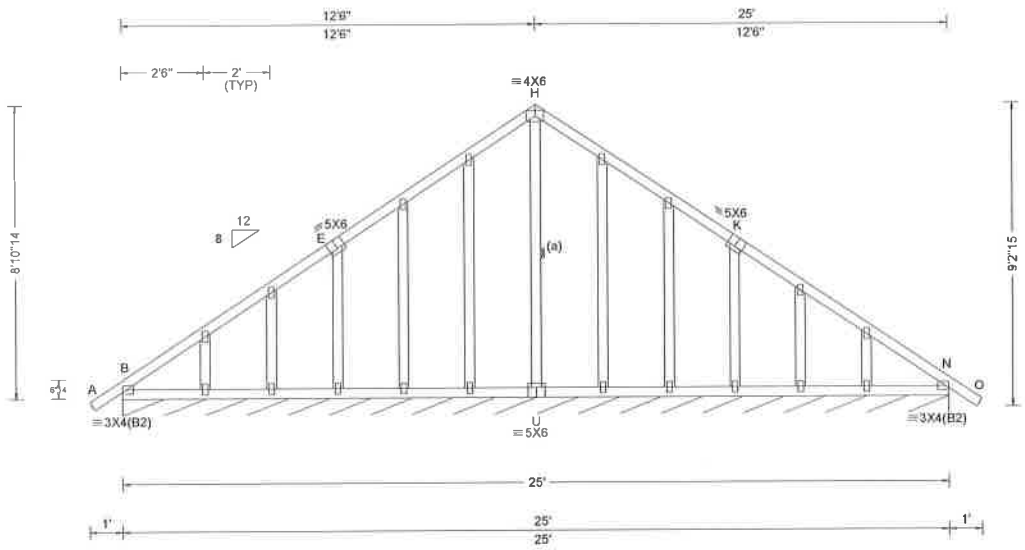
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise,top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Job Number: 15814 Springer Garage **Truss Label:** A03	Ply: 1 Qty: 2	SEQN: 783602 / T5 / GABL FROM: AH	Cust: R R408 JRef: 1W844080013 DrwNo: 032.18.1448.38520 KM / DF 02/01/2018



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 140 mph
Enclosure: Closed
Risk Category: II
EXP: D
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:0(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.003	H	999	240
VERT(TL): 0.003	H	999	180
HORZ(LL): -0.006	G	-	-
HORZ(TL): 0.007	G	-	-

Creep Factor: 2.0
Max TC CSI: 0.095
Max BC CSI: 0.082
Max Web CSI: 0.133

VIEW Ver: 17.02.01A.1115.21

▲Maximum Reactions (lbs), or *=PLF

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
N*	81	/ 36	/ 41	/ -	/ 15	/ 300

Wind reactions based on MWFRS
N Min Brg Width Req = -
Bearing B is a rigid surface.

Members not listed have forces less than 375#

Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Bracing
(a) Continuous lateral restraint equally spaced on member.

Plating Notes
All plates are 2X4 except as noted.

Wind
Wind loads based on MWFRS with additional C&C member design.

Additional Notes
See DWGS A16015ENC101014 & GBLLETIN1014 for gable wind bracing and other requirements.

#0 278
02/02/2018

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

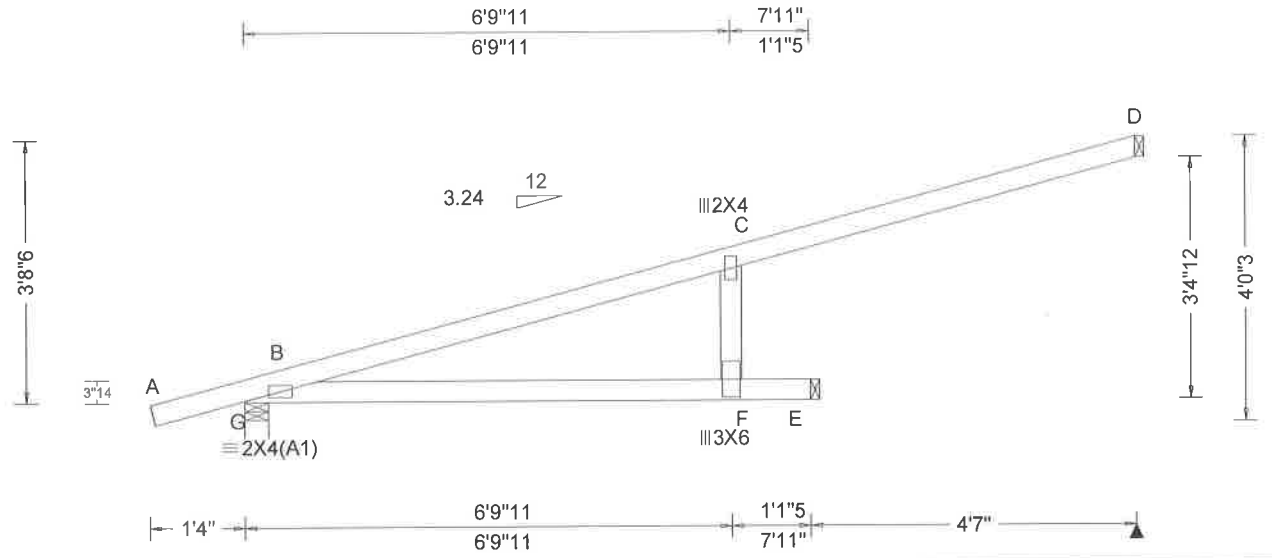
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise,top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Job Number: 15814 Springer Garage /Springer Garage -JWB Architects **Truss Label:** C01	Ply: 1 Qty: 7	SEQN: 125714 / T12 MONO FROM: AH	Cust: R408 JRef: 1W844080013 DrwNo: 032.18.1726.10050 KM / DF 02/01/2018



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 140 mph
Enclosure: Closed
Risk Category: II
EXP: D
Mean Height: 16.04 ft
TCDL: 4.2 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.00 ft
Loc. from endwall: Any
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:0(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL):	0.113 C	828	240
VERT(TL):	0.261 C	499	180
HORZ(LL):	0.034 C	-	-
HORZ(TL):	0.057 C	-	-

Creep Factor: 2.0
Max TC CSI: 0.529
Max BC CSI: 0.892
Max Web CSI: 0.412

VIEW Ver: 17.02.01A.1114.21

▲ Maximum Reactions (lbs)

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
G	381	/ 174	/ 212	/ -	/ 157	/ 4.0
E	416	/ 242	/ 150	/ -	/ -	/ 1.5
D	127	/ 79	/ 14	/ -	/ -	/ 1.5

Wind reactions based on MWFRS
G Min Brg Width Req = 1.5
E Min Brg Width Req = -
D Min Brg Width Req = -
Bearing G is a rigid surface.

Members not listed have forces less than 375#
Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
C - F	526	-383

Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind
Wind loads based on MWFRS with additional C&C member design.

Additional Notes
Provide (2) 16d common(0.162"x3.5") toe-nails at top chord.
Provide (3) 16d common(0.162"x3.5") toe-nails at bottom chord.

#0 278
02/02/2018

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

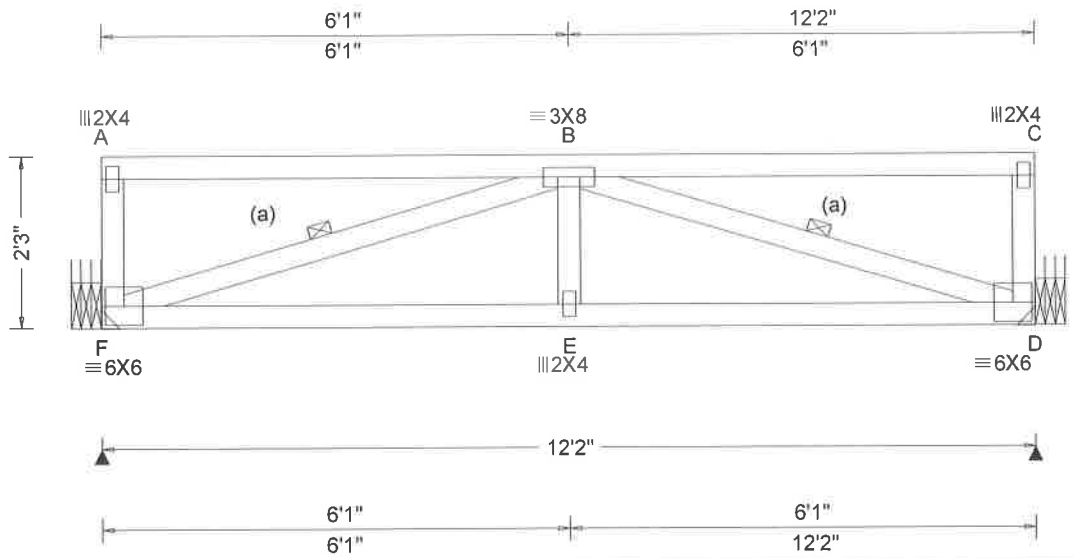
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise,top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Job Number: 15814 Springer Garage Truss Label: G02	Ply: 1 Qty: 1	SEQN: 123789 / T2 / FLAT FROM: AH	Cust: R R408 JRef: 1W844080013 DrwNo: 032.18.1448.40550 KM / DF 02/01/2018



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 36.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 140 mph
Enclosure: Closed
Risk Category: II
EXP: D
Mean Height: 17.91 ft
TCDL: 4.2 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 26.00 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Factors Used: No
FT/RT:0(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.047	E	999	240
VERT(TL): 0.127	E	999	180
HORZ(LL): 0.013	D	-	-
HORZ(TL): 0.023	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.841
Max BC CSI: 0.721
Max Web CSI: 0.352

VIEW Ver: 17.02.01A.1114.21

▲ Maximum Reactions (lbs)

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
F	715	/ 403	/ 324	/ -	/ 0	/ -
D	715	/ 403	/ 324	/ -	/ -	/ -

Wind reactions based on MWFRS
F Min Brg Width Req = -
D Min Brg Width Req = -

Members not listed have forces less than 375#

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
F - E	1336	- 833	E - D	1336	- 833

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
F - B	858	- 1372	B - D	858	- 1372
E - B	434	- 41			

Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Bracing
(a) Continuous lateral restraint, equally spaced on member.

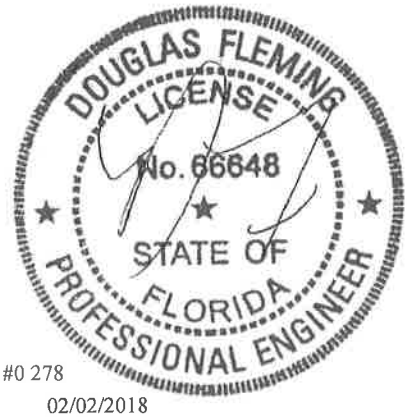
Special Loads
------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 103 plf at 0.00 to 103 plf at 12.17
BC: From 15 plf at 0.00 to 15 plf at 12.17

Hangers / Ties
(J) Hanger Support Required, by others

Purlins
In lieu of structural panels use purlins to brace TC @ 24" oc.

Wind
Wind loads based on MWFRS with additional C&C member design.
End verticals not exposed to wind pressure.

Additional Notes
Truss must be installed as shown with top chord up.



#0 278
02/02/2018

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

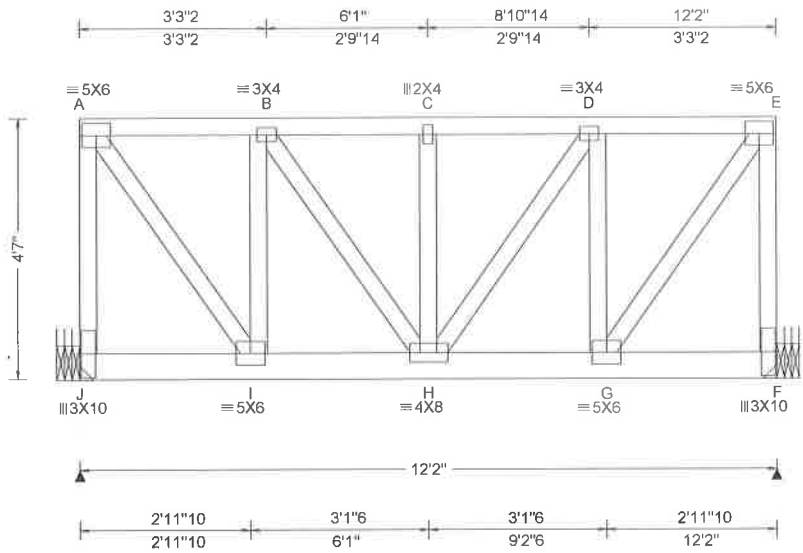
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise,top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing,any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses**A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Job Number: 15814 Springer Garage **Truss Label:** G01	Ply: 1 Qty: 1	SEQN: 125313 / T3 / FLAT FROM: AH	Cust: R R408 JRef: 1W844080013 DrwNo: 032.18.1448.40675 KM / DF 02/01/2018



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 36.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 140 mph
Enclosure: Closed
Risk Category: II
EXP: D
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 6.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Factors Used: No
FT/RT:0(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.040	C	999	240
VERT(TL): 0.101	C	999	180
HORZ(LL): -0.010	A	-	-
HORZ(TL): 0.016	A	-	-

Creep Factor: 2.0
Max TC CSI: 0.222
Max BC CSI: 0.495
Max Web CSI: 0.807

VIEW Ver: 17.02.01A.1114.21

▲ Maximum Reactions (lbs)

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
J	1978	/ 1186	/ 323	/ -	/ -	/ -
F	1969	/ 1179	/ 323	/ -	/ -	/ -

Wind reactions based on MWFRS
J Min Brg Width Req = -
F Min Brg Width Req = -

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	756	- 1221	C - D	1028	- 1655
B - C	1028	- 1655	D - E	754	- 1219

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
I - H	1279	- 788	H - G	1278	- 787

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - J	1115	- 1842	H - D	677	- 434
A - I	2118	- 1311	D - G	468	- 846
I - B	466	- 844	G - E	2114	- 1309
B - H	674	- 431	E - F	1113	- 1839

Lumber

Top chord 2x4 SP #2 Dense
Bot chord 2x6 SP #2
Webs 2x4 SP #3

Special Loads

------(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25)
TC: From 81 plf at 0.00 to 81 plf at 12.17
BC: From 30 plf at 0.00 to 30 plf at 12.17
BC: 519 lb Conc. Load at 2.06, 4.06, 6.06, 8.06 10.06

Hangers / Ties

(J) Hanger Support Required, by others

Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

The TC of this truss shall be braced with attached spans at 24" oc in lieu of structural sheathing.

Wind

Wind loads based on MWFRS.

End verticals not exposed to wind pressure.

Additional Notes

Truss must be installed as shown with top chord up.

#0 278
02/02/2018

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

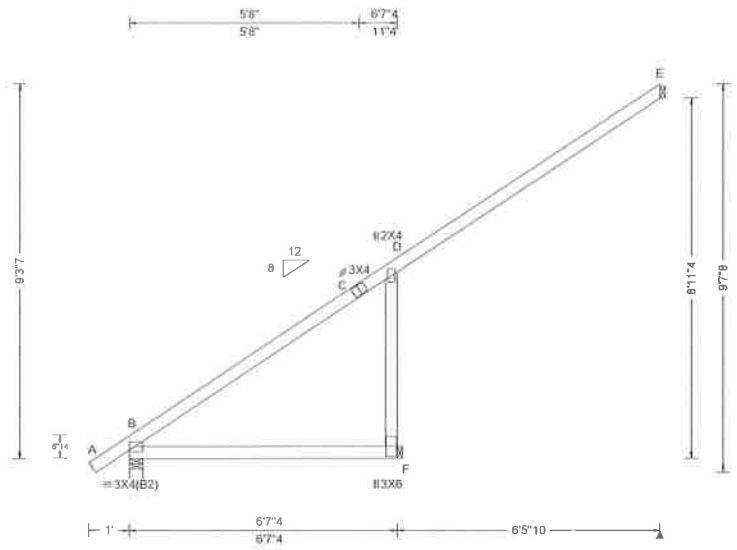
Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. **A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Job Number: 15814 Springer Garage **Truss Label:** EJ6	Ply: 1 Qty: 5	SEQN: 125310 / T7 / MONO FROM: AH	Cust: RR408 JRef: 1W844080013 DrwNo: 032.18.1448.40661 KM / DF 02/01/2018



Loading Criteria (psf)
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 2.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-10
Speed: 140 mph
Enclosure: Closed
Risk Category: II
EXP: D
Mean Height: 15.00 ft
TCDL: 4.2 psf
BCDL: 3.0 psf
MWFRS Parallel Dist: h/2 to h
C&C Dist a: 3.00 ft
Loc. from endwall: not in 4.50 ft
GCpi: 0.18
Wind Duration: 1.60

Snow Criteria (Pg,Pf in PSF)
Pg: NA Ct: NA CAT: NA
Pf: NA Ce: NA
Lu: NA Cs: NA
Snow Duration: NA

Code / Misc Criteria
Bldg Code: FBC 2017 RES
TPI Std: 2014
Rep Factors Used: Yes
FT/RT:0(0)/10(0)
Plate Type(s):
WAVE

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): -0.003	D	999	240
VERT(TL): 0.007	F	999	180
HORZ(LL): -0.015	D	-	-
HORZ(TL): 0.017	D	-	-

Creep Factor: 2.0
Max TC CSI: 0.670
Max BC CSI: 0.433
Max Web CSI: 0.195

VIEW Ver: 17.02.01A.1114.21

▲ Maximum Reactions (lbs)

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
B	289	/ 2	/ 211	/ -	/ 376	/ 4.0
F	519	/ 408	/ 374	/ -	/ -	/ 1.5
E	154	/ 119	/ 85	/ -	/ -	/ 1.5

Wind reactions based on MWFRS
B Min Brg Width Req = 1.5
F Min Brg Width Req = -
E Min Brg Width Req = -
Bearing B is a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
B - C	133	-421	C - D	142	-385

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.
D - F	453	-451

Lumber
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind
Wind loads based on MWFRS with additional C&C member design.

Additional Notes
Provide hanger or special connection at top chord.
Provide hanger or special connection at bottom chord.

#0 278
02/02/2018

****WARNING**** READ AND FOLLOW ALL NOTES ON THIS DRAWING!
****IMPORTANT**** FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7, or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses. **A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.**

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.com; ICC: www.iccsafe.org

ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Gable Stud Reinforcement Detail

ASCE 7-10: 160 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 140 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 'L' Brace *		(1) 2x4 'L' Brace *		(2) 2x4 'L' Brace **		(1) 2x6 'L' Brace *		(2) 2x6 'L' Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	3' 10"	6' 7"	6' 10"	7' 9"	8' 1"	9' 3"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"
		#3	3' 8"	5' 9"	6' 2"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"
		Stud	3' 8"	5' 9"	6' 1"	7' 8"	7' 11"	9' 1"	9' 6"	12' 0"	12' 6"	14' 0"	14' 0"
		Standard	3' 8"	4' 11"	5' 3"	6' 7"	7' 1"	8' 11"	9' 6"	10' 4"	11' 1"	14' 0"	14' 0"
	SP DFL	#1	4' 0"	6' 8"	6' 11"	7' 10"	8' 2"	9' 4"	9' 8"	12' 4"	12' 9"	14' 0"	14' 0"
		#2	3' 10"	6' 7"	6' 10"	7' 9"	8' 1"	9' 3"	9' 7"	12' 2"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 3"	5' 7"	6' 11"	7' 5"	9' 2"	9' 7"	10' 11"	11' 8"	14' 0"	14' 0"
		Stud	3' 9"	5' 3"	5' 7"	6' 11"	7' 5"	9' 2"	9' 7"	10' 11"	11' 8"	14' 0"	14' 0"
		Standard	3' 6"	4' 7"	4' 11"	6' 2"	6' 7"	8' 4"	8' 11"	9' 8"	10' 4"	13' 1"	14' 0"
16" o.c.	SPF HF	#1 / #2	4' 5"	7' 6"	7' 9"	8' 10"	9' 3"	10' 7"	11' 0"	13' 11"	14' 0"	14' 0"	14' 0"
		#3	4' 2"	7' 1"	7' 9"	8' 9"	9' 1"	10' 5"	10' 10"	13' 9"	14' 0"	14' 0"	14' 0"
		Stud	4' 2"	7' 1"	7' 6"	8' 9"	9' 1"	10' 5"	10' 10"	13' 9"	14' 0"	14' 0"	14' 0"
		Standard	4' 2"	6' 1"	6' 5"	8' 1"	8' 8"	10' 5"	10' 10"	12' 8"	13' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 7"	7' 7"	7' 11"	9' 0"	9' 4"	10' 8"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 5"	7' 6"	7' 9"	8' 10"	9' 3"	10' 7"	11' 0"	13' 11"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	6' 5"	6' 10"	8' 6"	9' 1"	10' 6"	10' 11"	13' 4"	14' 0"	14' 0"	14' 0"
		Stud	4' 4"	6' 5"	6' 10"	8' 6"	9' 1"	10' 6"	10' 11"	13' 4"	14' 0"	14' 0"	14' 0"
		Standard	4' 2"	5' 8"	6' 0"	7' 6"	8' 0"	10' 2"	10' 10"	11' 10"	12' 7"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	4' 10"	8' 3"	8' 7"	9' 9"	10' 2"	10' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 7"	8' 2"	8' 5"	9' 8"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 7"	8' 2"	8' 5"	9' 8"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 7"	7' 0"	7' 5"	9' 4"	10' 0"	11' 6"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 1"	8' 5"	8' 8"	9' 11"	10' 3"	11' 9"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 10"	8' 3"	8' 7"	9' 9"	10' 2"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 9"	7' 4"	7' 10"	9' 8"	10' 1"	11' 7"	12' 0"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 7"	6' 6"	6' 11"	8' 8"	9' 3"	11' 6"	12' 0"	13' 7"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir	
#1 / #2	Standard
#3	Stud

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B:

Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 75 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

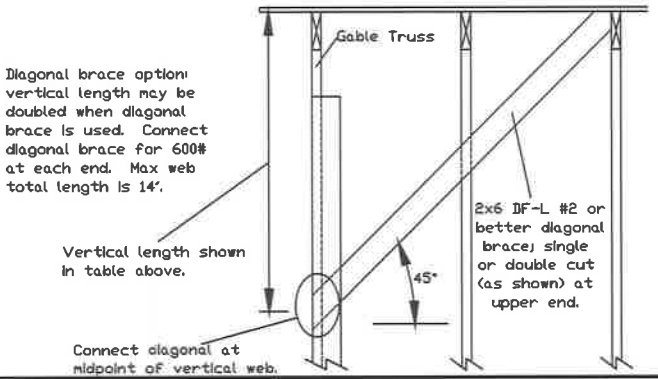
Attach 'L' braces with 10d (0.128"x3.0" min) nails.

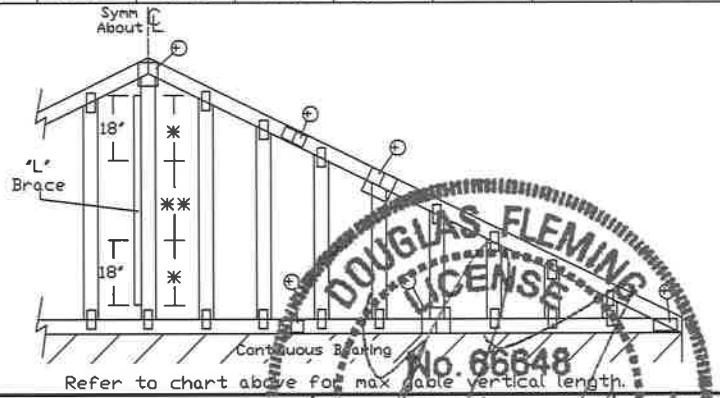
* For (1) 'L' braces: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) 'L' braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

'L' bracing must be a minimum of 80% of web member length.

Diagonal brace option: vertical length may be doubled when diagonal brace is used. Connect diagonal brace for 600# at each end. Max web total length is 14'.





Refer to chart above for max gable vertical length.

Gable Vertical Plate Sizes	
Vertical Length	No Splice
Less than 4' 0"	2X3
Greater than 4' 0", but less than 11' 6"	3X4
Greater than 11' 6"	4X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

DOUGLAS FLEMING LICENSE No. 66648

STATE OF FLORIDA PROFESSIONAL ENGINEER

#0278 02/02/2018

ALPINE AN ITW COMPANY

\\ 13723\ Riverport\ Drive
\\ Suite\ 200
\\ Maryland\ Heights,\ MO\ 63043

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-10-GAB16015
DATE	10/01/14
DRWG	A16015ENC101014

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

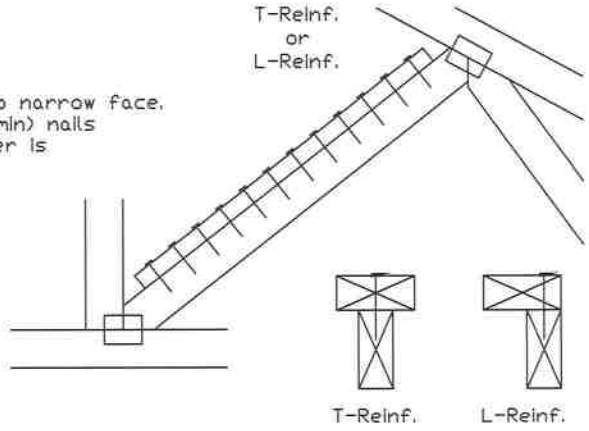
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(*) Center scab on wide face of web. Apply (1) scab to each face of web.

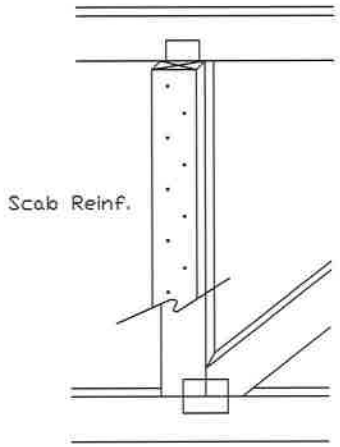
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



DOUGLAS FLEMING LICENSE No 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

ALPINE AN ITW COMPANY

\ \ 13723\ Riverport\ Drive
\ \ Suite\ 200
\ \ Maryland\ Heights,\ MO\ 63043

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to & follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec2.

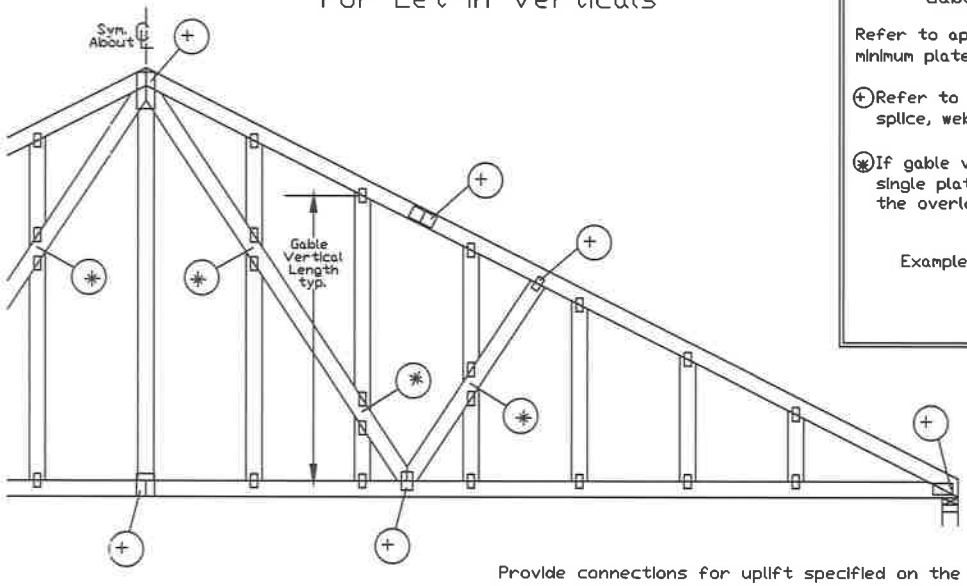
For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI: www.tpinst.org; SBCA: www.sbcindustry.org; ICC: www.iccsafe.org

#0 278

02/02/2018

TC LL	PSF	REF CLR Subst.
TC DL	PSF	DATE 10/01/14
BC LL	PSF	DRWG BRCLBSUB1014
BC DL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

Gable Detail
For Let-in Verticals



Gable Truss Plate Sizes

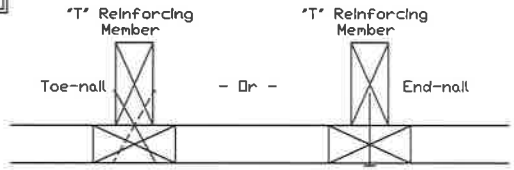
Refer to appropriate Alpine gable detail for minimum plate sizes for vertical studs.

⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example: 2X4 2X4 2X8

'T' Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each 'T' reinforcing member with

End Driven Nails:
10d Common (0.148"x 3.",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

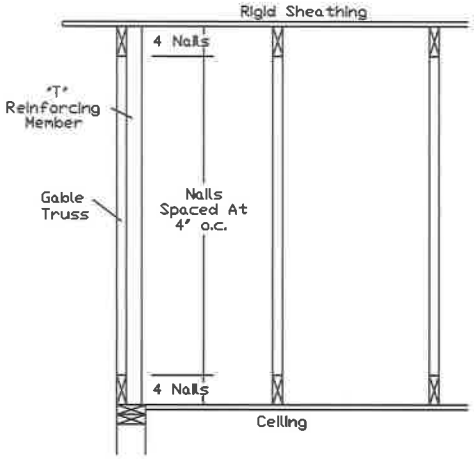
Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.

This detail to be used with the appropriate Alpine gable detail for ASCE wind load.

ASCE 7-05 Gable Detail Drawings
A13015051014, A12015051014, A11015051014, A10015051014, A14015051014, A13030051014, A12030051014, A11030051014, A10030051014, A14030051014

ASCE 7-10 Gable Detail Drawings
A11515ENC101014, A12015ENC101014, A14015ENC101014, A16015ENC101014, A18015ENC101014, A20015ENC101014, A20015END101014, A20015PED101014, A11530ENC101014, A12030ENC101014, A14030ENC101014, A16030ENC101014, A18030ENC101014, A20030ENC101014, A20030END101014, A20030PED101014, S11515ENC100815, S12015ENC100815, S14015ENC100815, S16015ENC100815, S18015ENC100815, S20015ENC100815, S20015END100815, S20015PED100815, S11530ENC100815, S12030ENC100815, S14030ENC100815, S16030ENC100815, S18030ENC100815, S20030ENC100815, S20030END100815, S20030PED100815

See appropriate Alpine gable detail for maximum unreinforced gable vertical length.



To convert from 'L' to 'T' reinforcing members, multiply 'T' increase by length (based on appropriate Alpine gable detail).

Maximum allowable 'T' reinforced gable vertical length is 14' from top to bottom chord.

'T' reinforcing member material must match size, specie, and grade of the 'L' reinforcing member.

Web Length Increase w/ "T" Brace

'T' Reinf. Mbr. Size	'T' Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
'T' Reinforcing Member Size = 2x4
'T' Brace Increase (From Above) = 30% = 1.30
(1) 2x4 'L' Brace Length = 8' 7"
Maximum 'T' Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

ALPINE
AN ITW COMPANY
\ \ 13723\ Riverport\ Drive
\ \ Suite\ 200
\ \ Maryland\ Heights,\ MO\ 63043

==WARNING== READ AND FOLLOW ALL NOTES ON THIS DRAWING
==IMPORTANT== FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Refer to and follow the latest edition of BCSI (Building Component Safety Information, by TPI and SBCA) for safety practices prior to performing these functions. Installers shall provide temporary bracing per BCSI. Unless noted otherwise, top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling. Locations shown for permanent lateral restraint of web shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. Apply plates to each face of truss and position as shown above and on the Joint Details, unless noted otherwise. Refer to drawings 160A-Z for standard plate positions.

Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses.

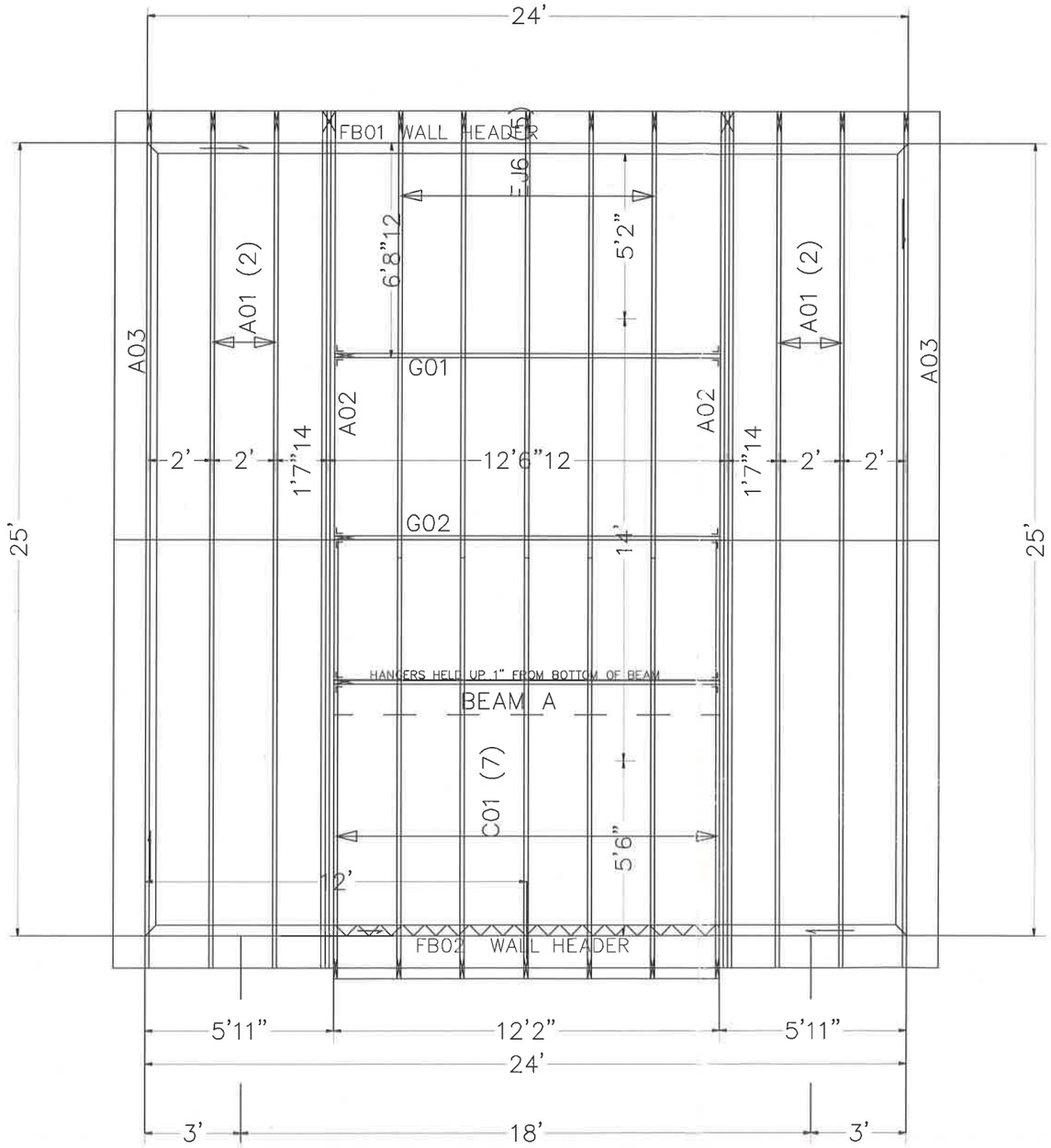
A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

For more information see this job's general notes page and these web sites:
ALPINE: www.alpineitw.com) TPI: www.tpinst.org) SBCA: www.sbcindustry.org) ICC: www.iccsafe.org

JOSEPH FLEMING
FLORIDA LICENSE
No. 66648
STATE OF FLORIDA
PROFESSIONAL ENGINEER
#0 278 02/02/2018

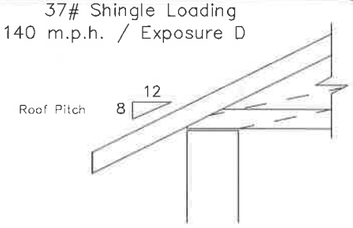
MAX. TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX. SPACING	24.0"

REF	LET-IN VERT
DATE	10/01/14
DRWG	GBLLETIN1014



Reviewed for Code Compliance
Universal Engineering Sciences

37# Shingle Loading
140 m.p.h. / Exposure D



TYPICAL TRUSS END

ALL BEAMS BY OTHERS
UNLESS NOTED ON LAYOUT.

BEARING HEIGHTS

Bearing Wall @ 9'-0"

NOTE

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.

THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA 1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY.

WARNING

CONVENTIONAL FRAMING, ERECTION AND/OR PERMANENT BRACING IS NOT THE RESPONSIBILITY OF THE TRUSS DESIGNER, PLATE MANUFACTURER, OR TRUSS MANUFACTURER. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND DOMINOING DURING ERECTION; AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC APPLICATIONS. SEE "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES RECOMMENDATIONS" (BCSI 2006) FOR FURTHER INFORMATION.

TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION. WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS, THEY SHALL BE BRACED AS SPECIFIED ON THE ENGINEERED DESIGN. TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE OR PERSONAL INJURY.

ATTENTION

APPROVAL OF THIS TRUSS LAYOUT IS NECESSARY BEFORE FABRICATION CAN BEGIN. VERIFY SPANS, PITCHES, OVERHANGS, HEELS AND BEARING CONDITIONS. ACCEPTANCE OF THIS LAYOUT ASSUMES TOTAL RESPONSIBILITY. TRUSSES WILL BE BUILT PER THIS LAYOUT.

ROOF TRUSSES FLOOR TRUSSES

ACCU-SPAN TRUSS CO.
407-321-1440 / 386-872-5098 / 352-557-4901
LONGWOOD / ORMOND BEACH / MASCOTTE

Customer: JWB Architects

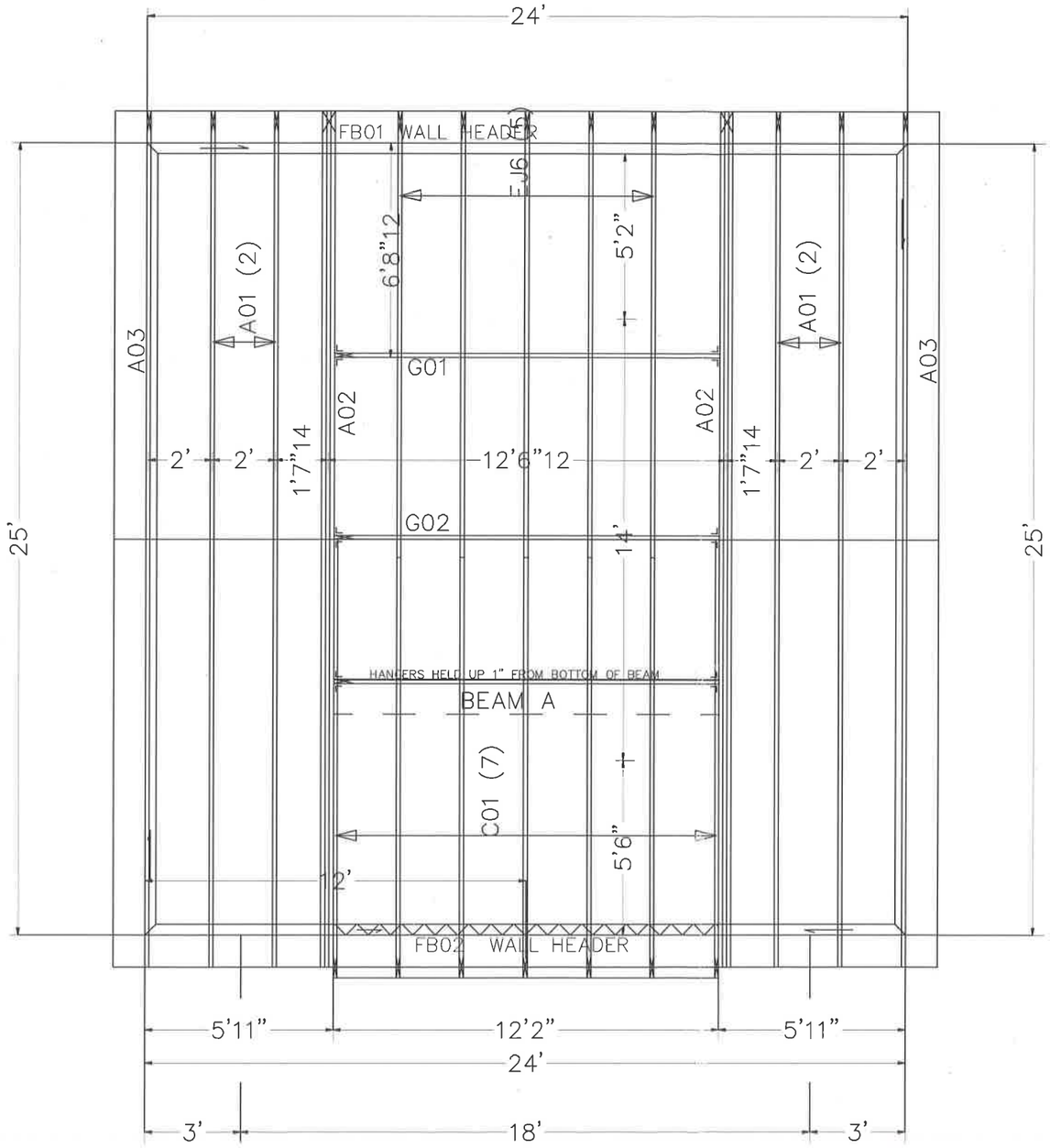
JOB NAME: Springer Garage

LOT/BLK/SUBDIV: 6501 Matchett Rd. Belle Isle

SCALE	DATE	DRAWN BY	JOB NUMBER
"	02/01/18	JB/OG	15814

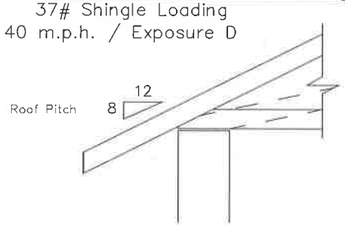
Revision Date(s) - 01/17/19 JFB Conventional Framing area framed. 1-30-18 SLC

ALWAYS SET TRUSSES PER LAYOUT AND ENGINEERING THAT ACCOMPANY THE TRUSSES AT DELIVERY



Reviewed for Code Compliance
Universal Engineering Sciences

37# Shingle Loading
140 m.p.h. / Exposure D



TYPICAL TRUSS END

ALL BEAMS BY OTHERS
UNLESS NOTED ON LAYOUT.

BEARING HEIGHTS

Bearing Wall @ 9'-0"

NOTE

IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER OR ARCHITECT TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE PER REACTIONS SHOWN ON TRUSS ENGINEERING. SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DIAGRAMMED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION.

THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN WTCA 1-1995 "DESIGN RESPONSIBILITIES". ACCORDINGLY, IT DISCLAIMS ANY RESPONSIBILITIES AND/OR LIABILITY FOR THE CONSTRUCTION DESIGN, DRAWINGS, DOCUMENTS INCLUDING THE INSTALLATION AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY.

WARNING

CONVENTIONAL FRAMING, ERECTION AND/OR PERMANENT BRACING IS NOT THE RESPONSIBILITY OF THE TRUSS DESIGNER, PLATE MANUFACTURER, OR TRUSS MANUFACTURER. PERSONS ERECTING TRUSSES ARE CAUTIONED TO SEEK PROFESSIONAL ADVICE REGARDING ERECTION BRACING WHICH IS ALWAYS REQUIRED TO PREVENT TOPPLING AND DOMINOING DURING ERECTION; AND PERMANENT BRACING WHICH MAY BE REQUIRED IN SPECIFIC APPLICATIONS. SEE "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES RECOMMENDATIONS" (BCSI 2006) FOR FURTHER INFORMATION.

TRUSSES SHALL BE INSTALLED IN A STRAIGHT AND PLUMB POSITION. WHERE NO SHEATHING IS APPLIED DIRECTLY TO TOP AND/OR BOTTOM CHORDS, THEY SHALL BE BRACED AS SPECIFIED ON THE ENGINEERED DESIGN. TRUSSES SHALL BE HANDLED WITH REASONABLE CARE DURING ERECTION TO PREVENT DAMAGE OR PERSONAL INJURY.

ATTENTION

APPROVAL OF THIS TRUSS LAYOUT IS NECESSARY BEFORE FABRICATION CAN BEGIN. VERIFY SPANS, PITCHES, OVERHANGS, HEELS AND BEARING CONDITIONS. ACCEPTANCE OF THIS LAYOUT ASSUMES TOTAL RESPONSIBILITY. TRUSSES WILL BE BUILT PER THIS LAYOUT.

ROOF TRUSSES FLOOR TRUSSES

ACCU-SPAN TRUSS CO.
407-321-1440 / 386-872-5098 / 352-557-4901
LONGWOOD / ORMOND BEACH / MASCOTTE

Customer	JWB Architects
JOB NAME	Springer Garage
LOT/BLK/SUBDIV	6501 Matchett Rd. Belle Isle

SCALE	DATE	DRAWN BY	JOB NUMBER
	02/01/18	JB/OG	15814

Revision Date(s) - 01/17/19 JFB Conventional Framing area framed. 1-30-18 SLC

ALWAYS SET TRUSSES PER LAYOUT AND ENGINEERING THAT ACCOMPANY THE TRUSSES AT DELIVERY

Susan Manchester

From: Susan Manchester
Sent: Thursday, April 19, 2018 3:52 PM
To: jspringr@hotmail.com
Cc: CobiPermits
Subject: 6501 Matchett Rd - detached garage permit 2018-02-070 still needs more info - By Owner
Attachments: 6501 Matchett PAs incomplete.pdf

Hello Mr. Springer,

I am receipt of the Product Approval Form that you dropped off in the lobby today. We are making some progress but we are not there yet. As attached – some of the product approvals are complete. I was able to print out the swinging door FL22513.6 and windows FL14104.1 since VERSIONS (.1 AND 06) were provided.

As attached – the roll up door FL5302 has 16 versions. I need to know which version 01 through .16. Ditto for the other door FL21867. This one has 10 versions.

NO .3 .2

The siding code 5667.3 does not exist. I am not able to access anything for this under any version. You provided a shingle code – but as we discussed that should be turned in separately with the roof permit application and we will need the underlayment code then as well.

Thank you,

new cod 24444.1

J. Springer called 4-25-18 Says he sent PA's. checked email- none sent. Called him back, he says he will call me back w/ info.

Susan Manchester
Permit Administration
Building Inspections and
Code Compliance Department
Universal Engineering Sciences, Inc.
3532 Maggie Blvd.
Orlando, FL 32811
Phone: 407-581-8161
Fax: 407-581-0313
Email: smanchester@universalengineering.com

UNIVERSAL ENGINEERING SCIENCES

City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

OWNER BUILDER DISCLOSURE STATEMENT

Per Florida Statue 455.228:

Homeowners hiring unlicensed Contractors may be subject a fine of up to $5,000.00!

Before me this day personally appeared Joseph Springer, who being duly sworn, deposes, and says as follows. "I hereby acknowledge that I have read and fully understand the individual provisions of this instrument."

1. I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license ___ Initial

2. I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility. ___ Initial

3. I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed in Florida and to list his or her license numbers on permits and contracts. ___ Initial

4. I understand that I may build or improve a one-family or two-family residence or a farm outbuilding. I may also build or improve a commercial building if the costs do not exceed $75,000.00. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased within 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption. ___ Initial

5. I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction. Initial

6. I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance. ___ Initial

7. I understand that it is a frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit, that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property. Initial

8. I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk. ___ Initial

9. I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations. ___ Initial

10. I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at (850)487-1395 or www.Call.Center@dbpr.state.fl.us for more information about licensed contractors. ___ Initial

11. I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:
Project Address: 6501 Matchett Rd. Belle Isle, FL. 32809 Initial

12. I agree to notify the City of Belle Isle Building/Zoning Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Initial

13. FBC 105.3.6 requires asbestos abatement to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own asbestos abatement contractor even though you do not have a license. You must supervise the construction yourself. You may move, remove or dispose of asbestos-containing materials on a residential building where you occupy the building and the building is not for sale or lease, or the building is a farm outbuilding on your property. If you sell or lease such building within 1 year after the asbestos abatement is complete, the law will presume that you intended to sell or lease the property at the time the work was done, which is a violation of this exemption. You may not hire an unlicensed person as your contractor. Your work must be done according to all local, state and federal laws and regulations which apply to asbestos abatement projects. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. Initial

Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if any unlicensed contractor or employee of an individual or firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is property licensed and the status of the contractor's workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to the local permitting agency responsible for issuing the permit. A copy of the property owner's driver license, the notarized signature of the property owner, or other type of verification acceptable to the local permitting agency is required when the permit is issued.

Signature: _____ (Signature of the property owner) Print: Joseph Springer (Name of the property owner)

Signature: _____ (Signature of the property owner) Print: _____ (Name of the property owner)

Owner's Address: 6501 Matchett Road, Belle Isle, Florida 32809

The foregoing instrument was acknowledged before me this 2 / 12 / 2018

by Joseph Springer who is personally known to me / who produced the following Driver License as identification and who did not take an oath.

State of Florida / County of Orange Seal:

Notary Signature _____

MELISSA VILA
Notary Public - State of Florida
My Comm. Expires Jun 4, 2019
Commission # FF 128319

RICK SINGH, CFA - ORANGE COUNTY PROPERTY APPRAISER

Searches | Sales Search | Results | **Property Record Card** | My Favorites

Sign up for e-Notify...

6501 Matchett Rd < 24-23-29-0600-04-060 >

dropped off on Wday 2-8-18 need apps, C/B cert, NOC etc before we can make WO to go to Apal for Zoning review

Name(s)
Springer Jospeh Peter
Springer Sandra

Mailing Address On File
6501 Matchett Rd
Belle Isle, FL 32809-5153
Incorrect Mailing Address?

Physical Street Address
6501 Matchett Rd

Postal City and Zipcode
Orlando, Fl 32809

Property Use
0100 - Single Family

Municipality
Belle Isle

View 2017 Property Record Card

Property Features | **Values, Exemptions and Taxes** | **Sales Analysis** | **Location Info** | **Market Stats**

Update Information

2018 values will be available in August of 2018.

Property Description

View Plat

BELLE ISLE ESTATES L/58 LOTS 6 & 7 BLK D

Total Land Area 12,443 sqft (+/-) | 0.29 acres (+/-) GIS Calculated Notice

Land

Land Use Code	Zoning	Land Units	Unit Price	Land Value	Class Unit Price	Class Value
0100 - Single Family	R-1-A	1 LOT(S)	working...	working...	working...	working...

Page 1 of 1 (1 total records)

Buildings

Important Information		Structure			
Model Code:	01 - Single Fam Residence	**Actual Year Built:**	1915	**Gross Area:**	2190 sqft