

DATE 10/19/2010

Columbia County Building Permit

PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000028947

APPLICANT KARA SUTTON PHONE 352.318.9864
ADDRESS POB 1198 NEWBERRY FL 32669
OWNER KENNETH & BARBARA SWEENEY PHONE 352-316-3463
ADDRESS 918 SW CR 778 HIGH SPRINGS FL 32669
CONTRACTOR KARA SUTTON PHONE 352.318.9864
LOCATION OF PROPERTY 441-S TO C-778,TR PROPERTY ON L, 2ND LOT PAST MARYNIK
DR(OR) 2ND LOT BACK FROM SCRUBTOWN ROAD.
TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 257600.00
HEATED FLOOR AREA 3244.00 TOTAL AREA 5152.00 HEIGHT 24.60 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 7'12 FLOOR CONC
LAND USE & ZONING A-3 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO. _____

PARCEL ID 16-7S-17-10006-102 SUBDIVISION SUMMER'S ACRES
LOT 2 BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES 10.50

000001852 CRC1328840
Culvert Permit No. 18"x32'MITERED Culvert Waiver 10-438 Contractor's License Number BLK Applicant/Owner/Contractor TC Y
Driveway Connection _____ Septic Tank Number _____ LU & Zoning checked by _____ Approved for Issuance _____ New Resident _____

COMMENTS: NOC ON FILE. 1 FOOT ABOVE ROADCheck # or Cash 3358

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by _____ Foundation _____ date/app. by _____ Monolithic _____ date/app. by _____
Under slab rough-in plumbing _____ date/app. by _____ Slab _____ date/app. by _____ Sheathing/Nailing _____ date/app. by _____
Framing _____ date/app. by _____ Insulation _____ date/app. by _____
Rough-in plumbing above slab and below wood floor _____ date/app. by _____ Electrical rough-in _____ date/app. by _____
Heat & Air Duct _____ date/app. by _____ Peri. beam (Lintel) _____ date/app. by _____ Pool _____ date/app. by _____
Permanent power _____ date/app. by _____ C.O. Final _____ date/app. by _____ Culvert _____ date/app. by _____
Pump pole _____ date/app. by _____ Utility Pole _____ date/app. by _____ M/H tie downs, blocking, electricity and plumbing _____ date/app. by _____
Reconnection _____ date/app. by _____ RV _____ date/app. by _____ Re-roof _____ date/app. by _____

BUILDING PERMIT FEE \$ 1290.00 CERTIFICATION FEE \$ 25.76 SURCHARGE FEE \$ 25.76
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$ _____
FLOOD DEVELOPMENT FEE \$ _____ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 TOTAL FEE 1441.52 ✓
INSPECTORS OFFICE COO CLERKS OFFICE CH

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.

"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."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

NOTICE OF INSPECTION AND/OR TREATMENT

918 SW 68 778
Address

28947

Date of Inspection

11/03/10

Date of Treatment - Full ☒ Spot ☐

Applicator A. S. 590

Pesticide Used

20-5 Termite

Wood-Destroying Organisms Treated

It is a violation of Florida State Law (Chap. 482-226)
for anyone other than the property owner
to remove this notice.

- Lawn Spraying
- Household Pest Control
- Tree & Shrub Spraying
- Termite Control



TSW Pest Control, Inc.
13618 NW 270th Ave.
Alachua, FL 32615

Call: **386-418-4387**
for a free inspection & estimate

28947

juris luzins
architect
AR 0007907



Chief Building Official
Columbia County

18 Nov., 2009

RE: New Residence
Summer's Acres Lot 2 Permit Number 28947
Sutton Family Homes

To Whom It May Concern,

The following items are submitted to clarify the referenced permit:

2- 5/8" dia. bolts required at each LVL to steel beam connection

Anchor bolts to column base plates approved as installed for dead load and uplift combination.

Sheathing can be deleted and dense glass only installed on none shear wall designated walls.

If wall designated as shear wall is modified or deleted, an additional wall for shear resistance must be chosen with equal or greater length. If this cannot be accomplished, contact this office for field directive.

See attached drawing for concrete grade beam at Lania.

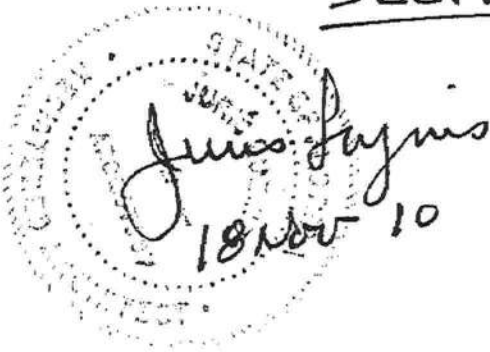
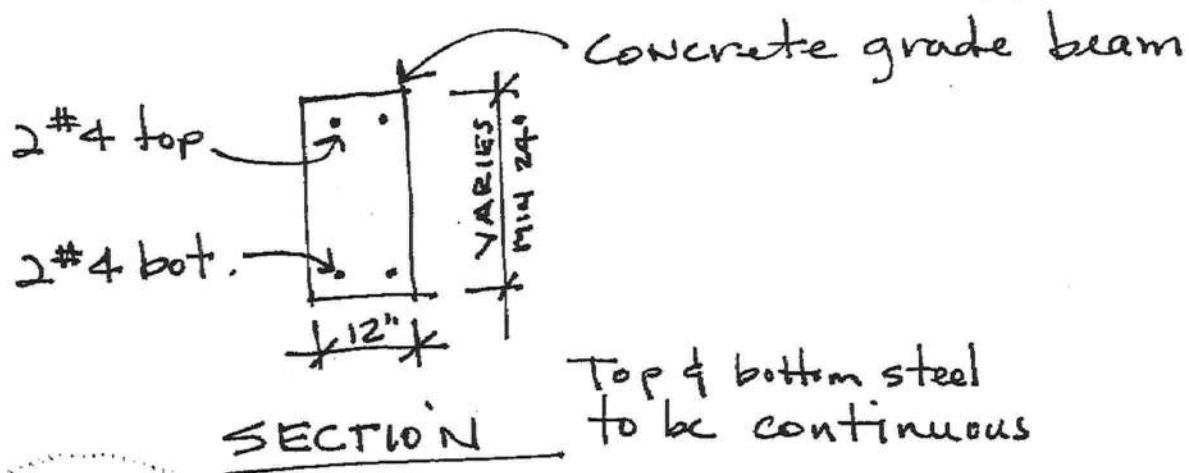
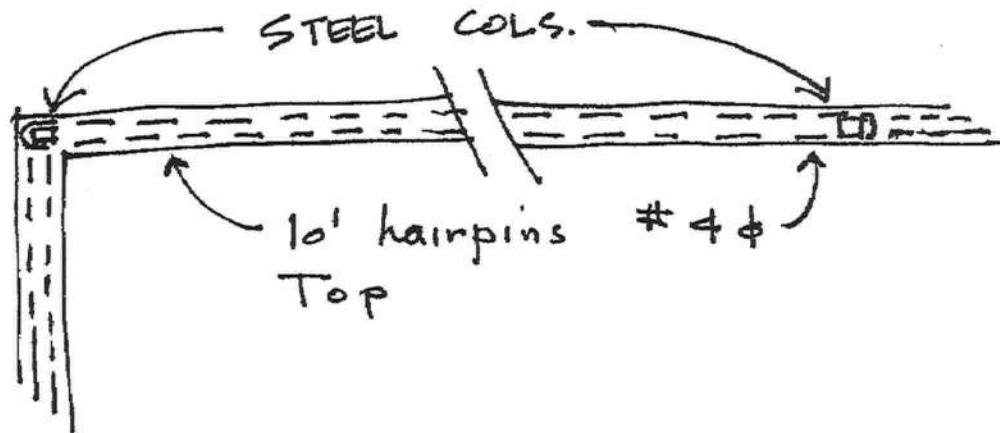
Sincerely,

Juris Luzins

9320 nw 13th place • gainesville, fl • 32606
352-224-8673 • jurisluzins@cox.net

juris luzins
architect
AR 0007907

Permit 28947
Summer's Acres Lot 2



9320 nw 13th place • gainesville, fl • 32606
352-224-8673 • jurisluzins@cox.net

Columbia County Property Appraiser

DB Last Updated: 8/5/2010

2009 Tax Roll Year

Parcel: 16-7S-17-10006-102

<< Next Lower Parcel

Next Higher Parcel >>

Tax Collector

Tax Estimator

Property Card

Parcel List Generator

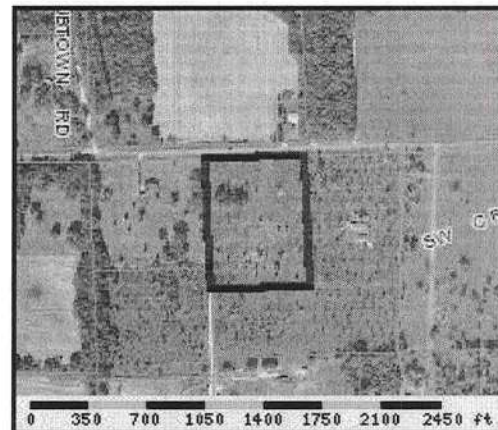
Interactive GIS Map

Print

Owner & Property Info

Search Result: 1 of 1

Owner's Name	SWEENEY KENNETH C & BARBARA J		
Mailing Address	16975 HWY 278 WILLISTON, SC 29853		
Site Address	918 SW COUNTY ROAD 778		
Use Desc. (code)	VACANT (000000)		
Tax District	3 (County)	Neighborhood	16717
Land Area	10.540 ACRES	Market Area	02
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction. AKA LOT 2 SUMMER'S ACRES UNR: COMM NW COR, RUN S 80.15 FT TO S R/W CR-778, RUN E ALONG R/W 698.08 FT FOR POB, CONT E 587.02 FT, S 782.02 FT, W 587.02 FT, N 782.02 FT TO POB. ORB 983-2580 & WD 1197-2087		



Property & Assessment Values

2009 Certified Values		
Mkt Land Value	cnt: (0)	\$57,098.00
Ag Land Value	cnt: (1)	\$0.00
Building Value	cnt: (0)	\$0.00
XFOB Value	cnt: (0)	\$0.00
Total Appraised Value		\$57,098.00
Just Value		\$57,098.00
Class Value		\$0.00
Assessed Value		\$57,098.00
Exempt Value		\$0.00
Total Taxable Value	Cnty: \$57,098 Other: \$57,098 Schl: \$57,098	

2010 Working Values

NOTE:
2010 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

[Show Working Values](#)

Sales History

[Show Similar Sales within 1/2 mile](#)

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
7/13/2010	1197/2087	WD	V	Q	01	\$130,000.00
5/21/2003	983/2580	WD	V	Q		\$48,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
			NONE			

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
						NONE

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 16-75-17-10006-102

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description): See Attached
a) Street (job) Address: 918 SW CR 778, High Springs, FL 32643
2. General description of improvements: Construction of Single Family Dwelling
3. Owner Information
a) Name and address: Kenneth and Barbara Sweeney
b) Name and address of fee simple titleholder (if other than owner):
c) Interest in property: Fee Simple
4. Contractor Information
a) Name and address: Sutton Family Homes and Management Consulting, Inc
b) Telephone No.: (352) 318-9804 Fax No. (Opt.):
5. Surety Information
a) Name and address: N/A
b) Amount of Bond:
c) Telephone No.: Fax No. (Opt.):
6. Lender
a) Name and address: N/A
b) Phone No.:
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
a) Name and address: N/A
b) Telephone No.: Fax No. (Opt.):
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
a) Name and address: N/A
b) Telephone No.: Fax No. (Opt.):
9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified):

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 YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. Barbara J. Sweeney
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager
Barbara J. Sweeney
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 7th day of October, 20 10, by:
Barbara Sweeney as _____ (type of authority, e.g. officer, trustee, attorney fact) for _____ (name of party on behalf of whom instrument was executed).

Personally Known _____ OR Produced Identification ☒ Type DL #S500 070 517960

Notary Signature Christina Wood Notary Stamp or Seal:



---AND---

11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Signature of Natural Person Signing (in line #10 above.)

Columbia County Building Permit Application - CK# - 3358

For Office Use Only		Application # <u>1010-15</u>	Date Received <u>10/7/10</u>	By <u>LH</u>	Permit # <u>28997/1852</u>
Zoning Official <u>B2K</u>	Date <u>19.10.10</u>	Flood Zone <u>X</u>	Land Use <u>A-3</u>	Zoning <u>A-3</u>	
FEMA Map # <u>N/A</u>	Elevation <u>N/A</u>	MFE <u>1/1000</u>	River <u>N/A</u>	Plans Examiner <u>T.C.</u>	Date <u>10-15-10</u>
Comments _____					
☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☒ State Road Info ☐ Parent Parcel # _____					
☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter _____					
IMPACT FEES: EMS _____ Fire _____ Corr _____ Road/Code _____					
School _____ = TOTAL <u>N/A Suspended</u> - ☒ VF.					

Septic Permit No. 10-438 Fax (386) 454-4971 call first

Name Authorized Person Signing Permit Kara Sutton Phone (352) 318-9864

Address PO Box 1198 Newberry, FL 32669

Owners Name Kenneth and Barbara Sweeney Phone (352) 316-3463

911 Address 918 SW CR 778 High Springs, FL 32643

Contractors Name Kara Sutton Sutton Family Homes and Management Consulting, Inc. Phone (352) 318-9864

Address PO Box 1198 Newberry, FL 32669

Fee Simple Owner Name & Address Same as above

Bonding Co. Name & Address None

Architect/Engineer Name & Address Juris Luzins (352) 224-8073

Mortgage Lenders Name & Address None

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy

Property ID Number 116-75-17-10006-102 Estimated Cost of Construction \$511,000

Subdivision Name Summers Acres Lot 2 Block _____ Unit _____ Phase _____

Driving Directions 441 South, (R) 778, property is on the Left + 2nd Lot, past SW Marynick Drive (or) 2nd Lot back from Scrubtown Rd

Number of Existing Dwellings on Property 0

Construction of Single Family Dwellings Total Acreage 10.5 Lot Size 10.5 Acres

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 24'-6"

Actual Distance of Structure from Property Lines - Front 230' Side 185' Side 235' Rear 470'

Number of Stories 1 Heated Floor Area 3244 Total Floor Area 5152 Roof Pitch 7/12

Application is hereby made to obtain a permit to do 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 be performed to meet the standards of all laws regulating construction in this jurisdiction. **CODE:** Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code.

1441.52

Tw left message for Kara 10.29.10

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU 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 ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: 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.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. It may be to your advantage to check and see if your property is encumbered by any restrictions.

(Owners Must Sign All Applications Before Permit Issuance.)

Barbara J. Sweeney
Owners Signature

****OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

Kara Sellers
Contractor's Signature (Permitee)

Contractor's License Number CRC 1328840
Columbia County
Competency Card Number 991

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 7th day of October 2010.

Personally known or Produced Identification DL #5500 070517960

Christina Wood

SEAL:

State of Florida Notary Signature (For the Contractor)



POST LICENSE
CONSPICUOUSLY**State of Florida
Department of Agriculture and Consumer Services**Division of Standards
Bureau of Liquefied Petroleum Gas Inspection
(850) 921-8001
Tallahassee, FloridaLicense Number: 02092
Expiration Date: August 31, 2011
Date of Issue: September 1, 2010
License Fee: \$200.00
Type and Class: 0803**Liquefied Petroleum Gas License****LP GAS INSTALLER**

GOOD FOR ONE LOCATION ONLY

ANY CHANGE OF OWNERSHIP OR SALE OF THIS BUSINESS RENDERS THIS LICENSE INVALID

This license is issued under authority of Section 527.02, Florida Statutes, to:

**THAMES GAS SERVICE
703 NW 22ND AVE
GAINESVILLE, FL 32609-3539**
CHARLES H. BRONSON
COMMISSIONER OF AGRICULTURE**State of Florida
Department of Agriculture and Consumer Services**Division of Standards
Bureau of Liquefied Petroleum Gas Inspection
(850) 921-8001
Tallahassee, FloridaCertificate No: 12801
Exam Date: February 17, 1983
Issue Date: August 17, 2009
Expiration Date: August 16, 2012
Exam: 0803**MASTER QUALIFIER CERTIFICATE**

This Certificate is issued under authority of Section 527.02, Florida Statutes, to:

RONNIE A. THAMESValid For
License Number: 02092
THAMES GAS SERVICE
703 NW 22ND AVE
GAINESVILLE, FL 32609-3539
CHARLES H. BRONSON
COMMISSIONER OF AGRICULTURE



04-16-2009

ALEX SINK
CHIEF FINANCIAL OFFICER

STATE OF FLORIDA
DEPARTMENT OF FINANCIAL SERVICES
DIVISION OF WORKERS' COMPENSATION

* * CERTIFICATE OF ELECTION TO BE EXEMPT FROM FLORIDA WORKERS' COMPENSATION LAW * *

CONSTRUCTION INDUSTRY EXEMPTION

This certifies that the individual listed below has elected to be exempt from Florida Workers' Compensation law.

EFFECTIVE DATE: 04/16/2009

EXPIRATION DATE: 04/16/2011

PERSON: THAMES

RONNIE A

FEIN: 200496470

BUSINESS NAME AND ADDRESS:

THAMES GAS SERVICE LLC
703 NW 22ND AVENUE
GAINESVILLE FL 32608

SCOPES OF BUSINESS OR TRADE:

1- REPAIR SERVICE
3- PIPING

2- APPLIANCE INSTALLATIONS

IMPORTANT: Pursuant to Chapter 440.05(14), F.S., an officer of a corporation who elects exemption from this chapter by filing a certificate of election under this section may not recover benefits or compensation under this chapter. Pursuant to Chapter 440.05(12), F.S., Certificates of election to be exempt... apply only within the scope of the business or trade listed on the notice of election to be exempt. Pursuant to Chapter 440.05(13), F.S., Notices of election to be exempt and certificates of election to be exempt shall be subject to revocation if, at any time after the filing of the notice or the issuance of the certificate, the person named on the notice or certificate no longer meets the requirements of this section for issuance of a certificate. The department shall revoke a certificate at any time for failure of the person named on the certificate to meet the requirements of this section.

DWC-252 CERTIFICATE OF ELECTION TO BE EXEMPT REVISED 09-06

QUESTIONS? (850) 413-1609



Project Summary
Entire House
P.O.Box 1617

Job: Bounds HVAC
Date: Aug 27, 2010
By: Robert Bounds

25645 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: mrobertbounds@aol.com Web: www.boundshvac.com

Project Information

For: Sutton Family Homes and Management

Notes:



Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	68 °F
Design TD	35 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	50 gr/lb

Heating Summary

Structure	33256 Btuh
Ducts	3906 Btuh
Central vent (163 cfm)	6248 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	43411 Btuh

Sensible Cooling Equipment Load Sizing

Structure	23528 Btuh
Ducts	4625 Btuh
Central vent (163 cfm)	3035 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	30253 Btuh

Infiltration

Method	Simplified
Construction quality	Tight
Fireplaces	0

	Heating	Cooling
Area (ft²)	3184	3184
Volume (ft³)	32637	32637
Air changes/hour	0.10	0.05
Equiv. AVF (cfm)	54	27

Latent Cooling Equipment Load Sizing

Structure	1925 Btuh
Ducts	1095 Btuh
Central vent (163 cfm)	5551 Btuh
Equipment latent load	8572 Btuh

Equipment total load	38824 Btuh
Req. total capacity at 0.70 SHR	3.6 ton

Heating Equipment Summary

Make	Carrier
Trade	INFINITY 19 PURON HP
Model	25HNA948A30
ARI ref no.	1158713

Efficiency	9.3 HSPF
Heating input	
Heating output	48000 Btuh @ 47°F
Temperature rise	28 °F
Actual air flow	1550 cfm
Air flow factor	0.042 cfm/Btuh
Static pressure	1.00 in H2O
Space thermostat	

Cooling Equipment Summary

Make	Carrier
Trade	INFINITY 19 PURON HP
Cond	25HNA948A30
Coil	FE4ANB006+UI
ARI ref no.	1158713

Efficiency	16.8 EER
Sensible cooling	32550 Btuh
Latent cooling	13950 Btuh
Total cooling	46500 Btuh
Actual air flow	1550 cfm
Air flow factor	0.055 cfm/Btuh
Static pressure	1.00 in H2O
Load sensible heat ratio	0.78

Bold/italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.



Wrightsoft

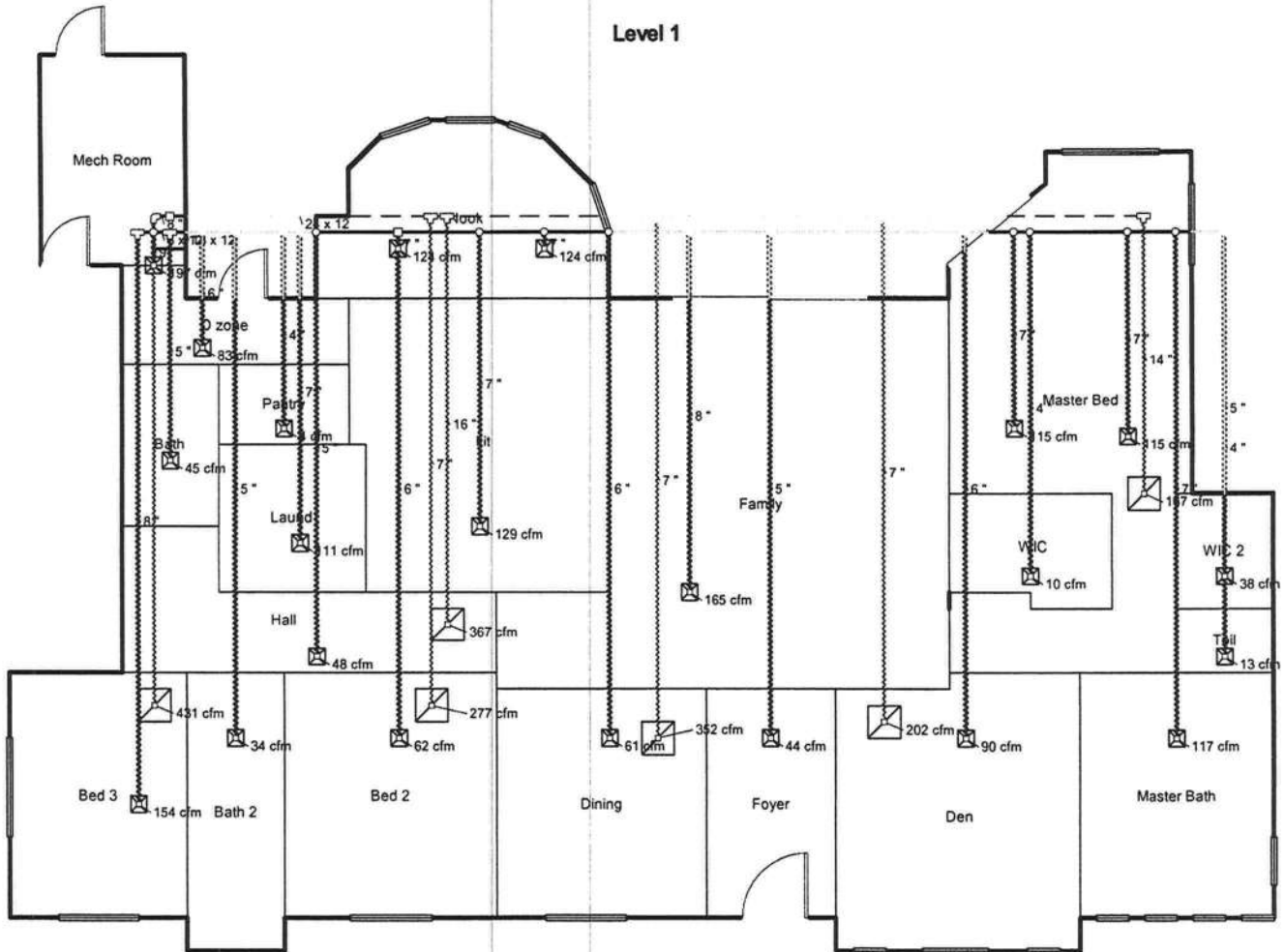
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Level 1



Job #: Bounds HVAC
Performed by Robert Bounds for:
 Sutton Family Homes and Management

P.O.Box 1617
 25645 W. Newberry Rd.
 Newberry, FL 32669
 Phone: 352-472-2761 Fax: 352-472-1809
 www.bounds HVAC.com mrobertbounds@aol.com

Scale: 1 : 138
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Duct System Summary

Entire House

P.O.Box 1617

Job: Bounds HVAC
Date: Aug 27, 2010
By: Robert Bounds

25645 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: mrobertbounds@aol.com Web: www.boundshvac.com

Project Information

For: Sutton Family Homes and Management

	Heating	Cooling
External static pressure	1.00 in H2O	1.00 in H2O
Pressure losses	0.30 in H2O	0.30 in H2O
Available static pressure	0.70 in H2O	0.70 in H2O
Supply / return available pressure	0.35 / 0.35 in H2O	0.35 / 0.35 in H2O
Lowest friction rate	0.100 in/100ft	0.100 in/100ft
Actual air flow	1550 cfm	1550 cfm
Total effective length (TEL)	780 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath	h 1079	45	17	0.100	5.0	0x0	VIFx	14.0	95.0	
Bath 2	h 827	34	12	0.100	5.0	0x0	VIFx	35.0	205.0	st1
Bed 2	h 1488	62	57	0.100	6.0	0x0	VIFx	45.0	205.0	st1
Bed 3	c 2795	133	154	0.100	8.0	0x0	VIFx	37.0	100.0	st2
D zone	h 1987	83	43	0.100	6.0	0x0	VIFx	9.0	205.0	st1
Den	h 2160	90	79	0.100	6.0	0x0	VIFx	80.0	315.0	st1
Dining	h 1469	61	44	0.100	6.0	0x0	VIFx	58.0	315.0	st1
Family	c 2995	126	165	0.100	8.0	0x0	VIFx	54.0	315.0	st1
Foyer	h 1048	44	27	0.100	5.0	0x0	VIFx	68.0	315.0	st1
Hall	h 1141	48	23	0.100	5.0	0x0	VIFx	35.0	205.0	st1
Laund	c 2016	7	111	0.100	7.0	0x0	VIFx	27.0	205.0	st1
Master Bath	h 2795	117	94	0.100	7.0	0x0	VIFx	93.0	280.0	st1
Master Bed	c 2092	102	115	0.100	7.0	0x0	VIFx	64.0	305.0	st1
Master Bed-A	c 2092	102	115	0.100	7.0	0x0	VIFx	71.5	290.0	st1
Mech Room	h 4719	197	93	0.100	9.0	0x0	VIFx	3.0	170.0	st2
Nook	c 2245	106	124	0.100	7.0	0x0	VIFx	15.0	205.0	st1
Nook-A	c 2245	106	124	0.100	7.0	0x0	VIFx	24.0	315.0	st1
Pantry	c 66	3	4	0.100	4.0	0x0	VIFx	19.0	205.0	st1
Toil	h 306	13	4	0.100	4.0	0x0	VIFx	91.0	270.0	st1
WIC	h 237	10	5	0.100	4.0	0x0	VIFx	74.0	300.0	st1
WIC 2	h 909	38	11	0.100	5.0	0x0	VIFx	86.0	270.0	st1
kit	c 2344	23	129	0.100	7.0	0x0	VIFx	37.0	315.0	st1

Bold/italic values have been manually overridden

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	1175	1286	0.100	857	15.9	12 x 18	RectFbg	
st2	Peak AVF	330	247	0.100	660	9.6	12 x 6	RectFbg	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	139	367	252.0	0.050	263	16.0	0x 0		VIFx	rt1
rb2	0x0	167	109	342.0	0.050	156	14.0	0x 0		VIFx	rt1
rb3	0x0	277	246	206.0	0.050	1038	7.0	0x 0		VIFx	rt1
rb4	0x0	431	277	116.0	0.050	1234	8.0	0x 0		VIFx	
rb5	0x0	202	200	385.0	0.050	756	7.0	0x 0		VIFx	rt1
rb6	0x0	333	352	322.0	0.050	1315	7.0	0x 0		VIFx	rt1

Return Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
rt1	Peak AVF	1119	1273	0.050	637	18.3	12 x 24	RectFbg	

Bold/italic values have been manually overridden



**Load Short Form
Entire House
P.O.Box 1617**

Job: Bounds HVAC
Date: Aug 27, 2010
By: Robert Bounds

25645 W. Newberry Rd., Newberry, FL 32669 Phone: 352-472-2761 Fax: 352-472-1809 Email: mrobertbounds@aol.com Web: www.boundsvac.com

Project Information

For: Sutton Family Homes and Management

Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	68	75	Construction quality	Tight
Design TD (°F)	35	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	10	50		

HEATING EQUIPMENT

Make Carrier
Trade INFINITY 19 PURON HP
Model 25HNA948A30
ARI ref no. 1158713

Efficiency 9.3 HSPF
Heating input
Heating output 48000 Btuh @ 47°F
Temperature rise 28 °F
Actual air flow 1550 cfm
Air flow factor 0.042 cfm/Btuh
Static pressure 1.00 in H2O
Space thermostat

COOLING EQUIPMENT

Make Carrier
Trade INFINITY 19 PURON HP
Cond 25HNA948A30
Coil FE4ANB006+UI
ARI ref no. 1158713

Efficiency 16.8 EER
Sensible cooling 32550 Btuh
Latent cooling 13950 Btuh
Total cooling 46500 Btuh
Actual air flow 1550 cfm
Air flow factor 0.055 cfm/Btuh
Static pressure 1.00 in H2O
Load sensible heat ratio 0.78

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Mech Room	117	4719	1697	197	93
D zone	64	1987	775	83	43
Bath	60	1079	307	45	17
Hall	139	1141	418	48	23
Laund	81	162	2016	7	111
Pantry	40	80	66	3	4
kit	279	558	2344	23	129
Nook	166	5080	4490	212	247
Family	546	3028	2995	126	165
Bed 3	165	3196	2795	133	154
Bath 2	102	827	220	34	12
Bed 2	195	1488	1040	62	57
Master Bed	377	4895	4183	204	230
WIC	65	237	92	10	5
WIC 2	42	909	197	38	11
Toil	24	306	71	13	4

Bold/italic values have been manually overridden

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Wrightsoft

Right-Suite® Universal 7.1.05 RSU01870

2010-Aug-30 15:11:35

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Page 1

Master Bath		180	2795	1707	117	94
Den		248	2160	1441	90	79
Foyer		112	1048	494	44	27
Dining		182	1469	804	61	44
Entire House	d	3184	37163	28154	1550	1550
Other equip loads			6248	3035		
Equip. @ 0.97 RSM				30253		
Latent cooling				8572		
TOTALS		3184	43411	38824	1550	1550

Bold/italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

juris luzins
architect

AR 0007907

Wind Design and Analysis

Method of design - ASCE 7-05 Method 1 Simplified Procedure
Compliance with chapter 16 section 1609 Florida Building Code 2007

Job - Summer's Acres Lot 2

Location - Sutton Family Homes

Building size - $96'-4\frac{1}{2}" \times 55'-8\frac{1}{2}"$

Height of exterior wall - $10'$

Overhang - $2'$

Roof cross slope - $7\frac{12}{17}$ 30.26°

Mean roof height - $17.5'$

End zone - $9'$

Wind velocity - 110 MPH (3 sec. GUST)

Importance factor - 1.0

Wind exposure category - B

Degree of enclosure - Enclosed

Maximum lateral loads on building -

Deadloads

Roof 11 psf

Walls 25 plf

Foundation 300 plf



Juris Luzins
6 Oct 10

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352-224-8673 • jurisluzins@cox.net

Construction

Studs 2X6 SPF

Trusses 54P

Sheathing 7/16" OSB

MWFRS

Design Wind Pressure (Figure 6-2 Chapter 6 ASCE7)

End Zone
Wall 21.6 psf
Roof 14.8 psf

Interior Zone
Wall 17.2 psf
Roof 11.8 psf

Components and Cladding (Figure 6-3 Chapter 6 ASCE7)

Wall -29.1 psf
Roof -21.8 psf

Roof Diagram (Table 2306.3.1 FBC)

Nailing 8d Ring Shank 3" o.c. edges
6" o.c. int.

Shearwalls (Table 2306.4.1 FBC)

Nailing 8d Common 3" o.c. edges

Drag Strut 16d Common @ 8" o.c. 8" o.c. int.

$$24456 / 130' = 188\#$$

edge
W - 18X10X21.6 = 3888 1944
R - 18X15X14.8 = 3996 1998

int
W - 78X10X17.2 = 13416 6708
R - 78X15X11.8 = 13806 13806
35106 24456

$$24456 / 71 = 344\#$$

Shearwalls
Trans. - 71.16'
Long. 71.43'

Roof uplift at top of wall (Figure 6-3 Chapter 6 ASCE7)
(Figure 6-3 Chap. 6 ASCE7- Overhangs)

Roof -21.8 endzone Use 18.1
 -18.1 int.
Overhang -36.9 psf
deadload $46 \times 11 \times .6 = 304$

$$\begin{array}{r} 42 \times 18.1 = 760 \\ 4 \times 36.9 = 147.6 \\ \hline 908 \\ -304 \\ \hline 604 \end{array}$$

Truss anchors	Capacity	Lateral
Sumpsm H10	850	450
Sumpsm H15-Z	1120	410

See Truss Engineering for specific truss layout, uplift and lateral load values

$$604/2 = 302^{\#}/\text{ft}$$

Header tie-downs

Span $16'$
Use Sumpsm CS18X24 2 top & 2 bot. ea. side
Sheathing nailing
Bd Common @ 3" o.c. top & bot.
Uplift at top of footing

$$8 \times 302 = 2416^{\#}$$
$$302/4 = 76^{\#}$$
$$\begin{array}{r} 302 \\ -51 \\ \hline 251 \end{array}$$
$$85 \times .6 = 51$$
$$300 \times .6 = 180$$

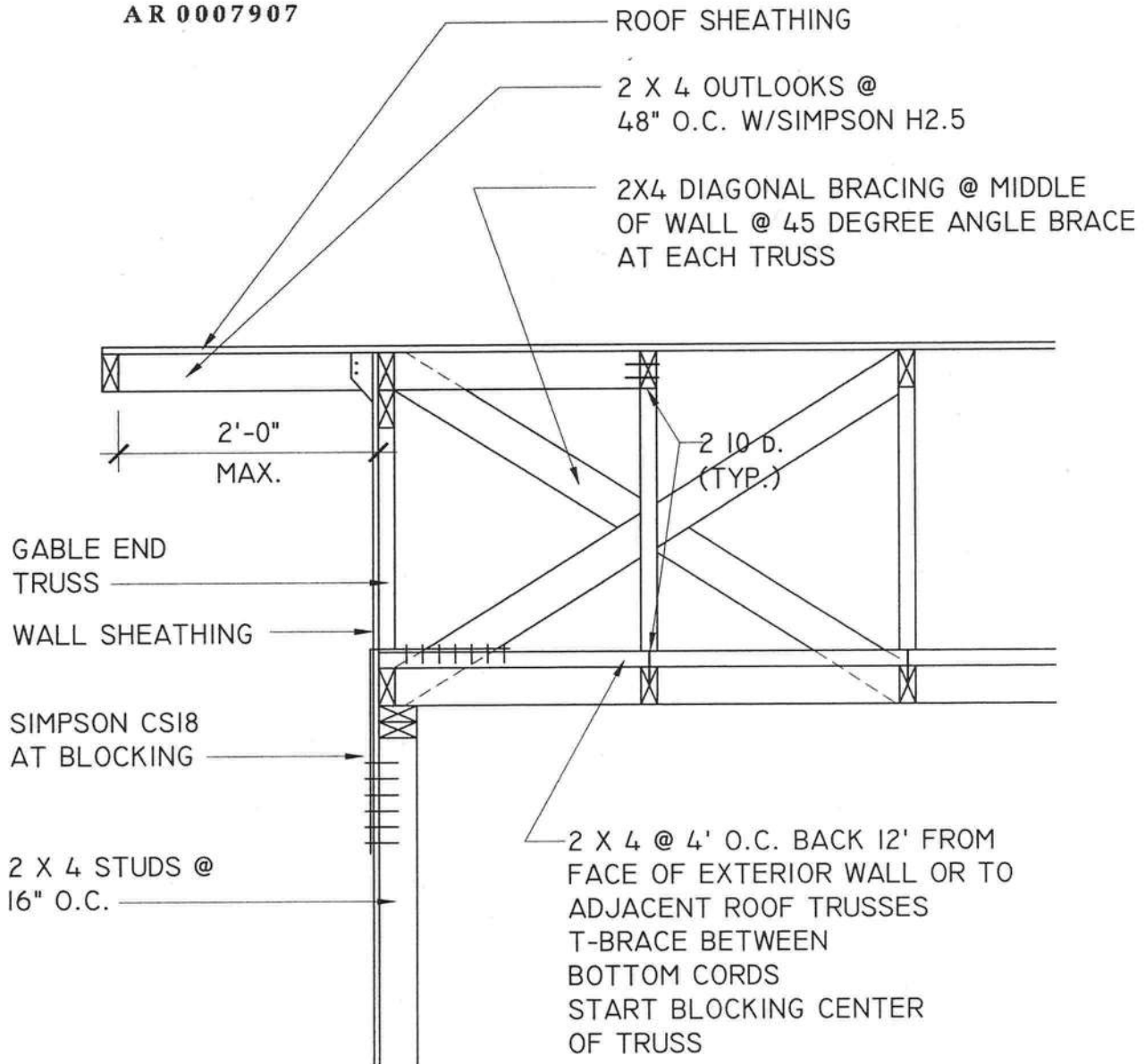
Uplift $251^{\#}$
Weight of footing $180^{\#}$
Slab shear controls
Anchor bolts $1/2" \phi @ 48" \text{ o.c.}$
Corner Hold down $1/2" \Delta$ w/ $3" \times 3"$ washers @ $6.5"$ ea. way @ corners
Porch columns Steel $4" \times 4" \times 1/4"$ A46
Max. uplift $-3750^{\#}$
Max. gravity load $-7500^{\#}$

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Wood Columns @ front
P.T. 4x4 Sumpsm ABU44 bot, PC44 top or equal

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AR 0007907



GABLE END ROOF DETAIL

3/4" = 1' - 0" FOR GABLE END W/ GABLE TRUSSES

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architect
AR 0007907

TOE NAIL EACH 2X4
TO TOP OF WALL WITH
#10D FROM EACH SIDE

WOOD TRUSSES
@ 2'-0" O.C.

SIMPSON H-10
@ 2' O.C.

#2 SYP 2 X 4
BLOCKING

2X4 STUDS @ 16" O.C.
W/ 7/16" OSB SHEATHING

5/8" EXPANSION ANCHORS
@ BOTTOM PLATE 4'-0" O.C.

AT SHEARWALLS
PERPENDICULAR TO TRUSSES
SIMILAR TO ABOVE OR
OPTIONAL METHOD BELOW

T-BRACE BETWEEN TRUSSES
OVER WALL, TOE NAIL TO
WALL @ 6" OC AND PROVIDE
SIMPSON H10 AT EACH TRUSS
TO WALL

ATTACHMENT SIMILAR FOR
WALL TO FLOOR FRAMING

DETAIL

3/4" = 1' - 0"

@ INTERIOR SHEARWALL

juris luzins
architect

AR 0007907

Wind Load Design

Date 6 Oct 10

Job Name Summer's Acres Lot 2

Location Sutton Family Homes

The Wind Load Design for this structure is in compliance with the 2007 Florida Building Code Section 1609

Method of Design ASCE 7-05

Criteria:

Basic Wind Speed (3 second Gust) 110 mph

Wind Importance Factor and Building Category 1.0

Wind Exposure Category B

Internal Pressure Coefficients:

Partially Enclosed Buildings

+0.55

-0.55

Enclosed Buildings

+0.18

-0.18

Open Buildings

0.00

Maximum lateral load transferred through roof diagram

24,456 #

Design Wind pressure for Components and Cladding:
(maximum values)

Roof - 21.8 psf

Wall - 29.1 psf

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AR 0007907

Summary of Requirements

Roof Sheathing: 7/16" OSB Plywood

Fasteners: @Edges 8d Type Ring Shank spacing 3"

@Interior 1" Type 1" spacing 6"

Truss Anchors: Manufacturer Simpson or equal

Truss #1	Length	Model # <u>H10</u>	No. Req. <u>1</u>	Uplift <u>850</u>	Horiz. <u>450</u>
Truss #2	Length	Model # <u>H15-2</u>	No. Req. <u>1</u>	Uplift <u>1150</u>	Horiz. <u>410</u>
Truss #3	Length	Model # <u>H2.5</u>	No. Req. <u>1</u>	Uplift <u>365</u>	Horiz. <u>130</u>
Truss #4	Length	Model #	No. Req.	Uplift	Horiz.
Truss #5	Length	Model #	No. Req.	Uplift	Horiz.

Verify uplift and horizontal forces with truss manufacturer

Wall Construction:

Frame Construction ☒

Masonry Construction

Wall Bracing:

Balloon Framing

Ceiling Diaphragm SEE T-BRACING DETAIL

Hip Roof ☒

Gable End on Masonry Wall

Wood Studs:

Stud#1:	Type <u>SPF No1-No2</u>	Height <u>10'</u>	Spacing <u>16"</u>	<u>2x6</u>
Stud#2:	Type	Height	Spacing	
Stud#3:	Type	Height	Spacing	
Stud#4:	Type	Height	Spacing	
Stud#5:	Type	Height	Spacing	

Masonry:

Description: —

Shearwalls and Exterior Sheathing

Wall Sheathing 7/16" OSB
Transverse: Shearwalls (accumulated length) 71'
Fasteners: @edges 8 d Nails Staples Screws 3 "o.c.
@interior 8 d Nails Staples Screws 8 "o.c.
Longitudinal Shearwalls (accumulated length) 71'
Fasteners: @edges 8 d Nails Staples Screws 3 "o.c.
@interior 8 d Nails Staples Screws 8 "o.c.
Drag Strut: 16 d Nails @ 8 "o.c. all top plates

Vertical Tension Resistance:

Wall Straps _____
Sheathing Fasteners 8d common @ 3" o.c. top & bot. & horizontal blocking
Tie Columns _____

Anchorage to Concrete Slabs:

Anchor Bolts 1/2" Spacing 48" Washer 2"
Corner Hold-down 1/2" AB w/ 3" x 3" Location 6.5" ea. way @ corners
Distance to first anchor bolt from corner 24"
Corner Hold-down at wood floor system _____ Location _____

Foundations: Stemwall w/ 20" x 10" deep w/ 2 #5 @

Porch Column Anchors:

Column to Beam Sumppm PC44 or equal steel beams &
Column to Slab Sumppm ABU44 or equal columns @ Lanai

Anchorage @ Wall Openings

Sumppm CS 18x24 ea. side of opg. top & bottom
Use 2 x CS 18x24 @ OPES > 9'


Juris Luzins
AR000907

juris luzins
architect
AR 0007907

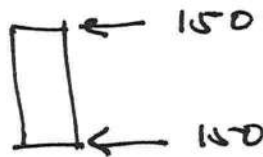
Sweeney Residence
Summer's Acres Lot 2

Butt Glazing
3/8" Tempered
22" x 60" high w/ wood stops



Use 1x2 wood stops w/ 3 8^d nails ea. stop
Design wind pressure 30 psf

$$105K \times 30 = 300 \#$$



Deflection - .1" O.K.

3/8" tempered

$$AR = 60/22 = 2.7$$

$$\beta = 30(60 \times 22 / 4877)^2 = 2.2$$

$$A = .2$$

$$D = .2 \times .353 = .07" \text{ use } .1" \text{ deflection O.K.}$$

Juris Luzins
6 Oct 10

WIND LOAD GUIDELINES

Glass Center Deflection

An important consideration in the choice of glass is center deflection. Excessive center deflection can result in edge pull-out, distortion of reflected images and possible glass contact with interior building components, e.g., room dividers and interior blinds.

Center deflection for monolithic glass which is supported on two sides can be read directly off the Wind Load charts on page 5 for glass supported on two sides. The determination of center deflection for glass supported on four sides is more complex and can be computed using the following procedure:

1. Determine aspect ratio,
 $AR = \text{long dimension} / \text{short dimension}$
2. Establish load factor, q
 $q = WL \times (w \times h / c)^2$
 $WL = \text{design wind load (psf)}$
 $w = \text{short dimension (inches)}$
 $h = \text{long dimension (inches)}$
 $c = \text{thickness constant from Table 2}$
3. Using graph A on page 5, determine the deformation factor A by drawing a horizontal line from the intersect of the aspect ratio, AR , and load factor, q .
4. Calculate the center deflection, D (inches)
 $D = A \times t$
 $A = \text{deformation factor (non dimensional)}$
 $t = \text{glass thicknesses from Table 2 (inches)}$

To estimate the center of deflection of laminated or insulating glass (2 lites of equal thickness), use 1/2 the design wind load and the thickness of one of the lites.

EXAMPLE: Determine the center deflection of a 58" X 96" X 1/4" lite of glass with a design wind load of 22 psf.

1. $AR = 96/58 = 1.66$
2. $q = 22 \times (58 \times 96 / 1856)^2 = 198$
3. $A = 3.48$
4. $D = 3.48 \times .219 = .76 \text{ inches}$

Center Deflection (4-sided support)

Graph A

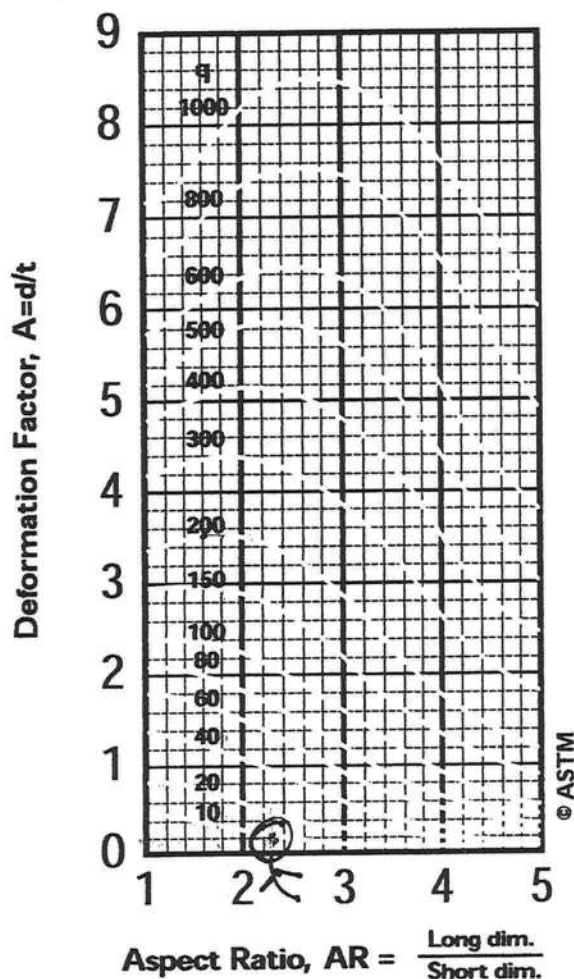
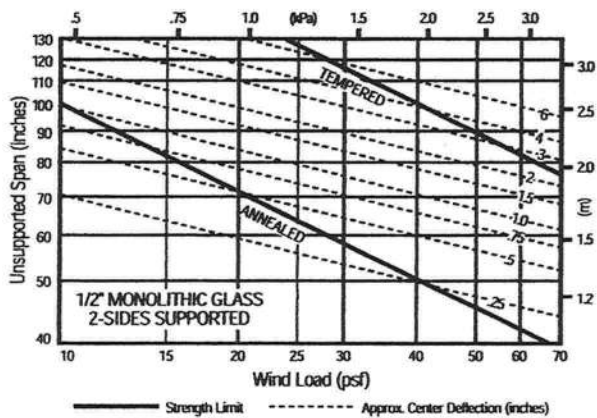
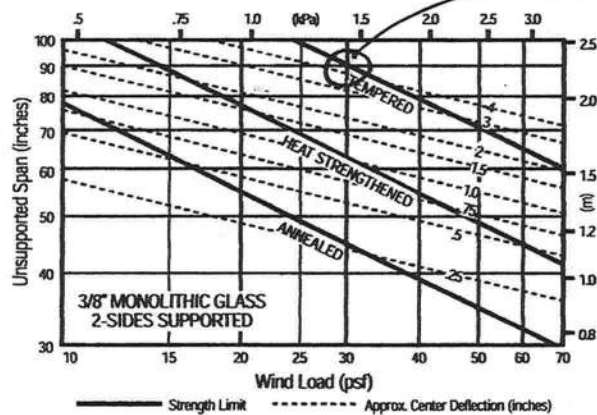


Table 2

Glass Type	Thickness (t) (inch)	Constant (c)
SSB	.085	280
DSB (1/8")	.115	512
5/32"	.149	859
3/16"	.180	1254
1/4"	.219	1856
5/16"	.292	3300
3/8"	.355	4877
1/2"	.469	8512

Monolithic Float Glass (2 opposite sides simply supported)



Example: (2-sided support):

A 1/2" annealed lite of glass with an unsupported span of 70" would meet a design wind load of 20 psf with a resultant center deflection of approximately 1/2". A 3/8" lite of glass would require heat-strengthening, and its center deflection would increase to approximately 1.1".

Reference Guardian's Silicone Structural Glazing Guidelines manual for additional information on structural glazing applications. The above graphs are not applicable to insulating or laminated glass.

Load Adjustment

The wind load graphs on pages 2 and 3 are based on a probability of breakage of 8/1000, meaning that if the glass in a building is subjected to the maximum design load, 8 out of 1000 lites of glass would theoretically fail upon each occurrence of design load.

The probability of breakage of 8/1000 is based on a design factor of 2.5 for Annealed Glass, 1.6 for Heat-Strengthened and 1.3 for Tempered Glass. Design factor (DF) is defined as the average breaking stress of glass tested to destruction (ABS), divided by a theoretical stress value (TSV) corresponding to the maximum allowable breakage probability.

$$DF = ABS / TSV$$

For design factors other than those above, the adjustment factors in Table 2 may be referenced. Design factors less than 2.5 for Annealed Glass, 1.6 for Heat Strengthening and 1.3 for Tempered Glass are not recommended.

If other design factors are used, the design load to be used with the charts on pages 2 and 3 can be determined as follows:

$$\text{Design load for use with graphs} = \frac{\text{New design factor}}{(2.5 \text{ or } 1.6 \text{ or } 1.3)} \times \text{Specified design load}$$

TABLE 3

Probability of Breakage (lites/1000)	Design Factor for		
	Tempered	H.S.	Annealed
1	1.45	1.86	4.39
4	1.36	1.66	2.96
8	1.32	1.57	2.51
12	1.29	1.51	2.29
24	1.25	1.42	1.97
50	1.20	1.33	1.69
100	1.15	1.24	1.47

Design factors shown are taken in part from the ANNA publication, "Structural Properties of Glass."



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Product Approval

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FL #

FL10674-R3

Application Type

Revision

Code Version

2007

Application Status

Approved

Comments

Archived



Product Manufacturer
 Address/Phone/Email

Owens Corning
 One Owens Corning Parkway
 Toledo, OH 43659
 (419) 248-7060
 darrel.higgs@owenscorning.com

Authorized Signature

Darrel Higgs
 darrel.higgs@owenscorning.com

Technical Representative
 Address/Phone/Email

Quality Assurance Representative
 Address/Phone/Email

Category
 Subcategory

Roofing
 Asphalt Shingles

Compliance Method

Certification Mark or Listing

Certification Agency
 Validated By

Underwriters Laboratories Inc.
 Robert J. M. Nieminen, PE
☒ Validation Checklist - Hardcopy Received

Referenced Standard and Year (of Standard)

Standard	Year
ASTM D3161, Class F	2003
ASTM D3462	2004
ASTM D6381, Class H	2003
ASTM D7158, Class H	2005
TAS 107	1995
UL 2390, Class H	2004

Equivalence of Product Standards
 Certified By

Product Approval Method

Method 1 Option A



Date Submitted	07/07/2010
Date Validated	07/07/2010
Date Pending FBC Approval	07/11/2010
Date Approved	08/10/2010

Summary of Products		
FL #	Model, Number or Name	Description
10674.1	Owens Corning Asphalt Roofing Shingles and Starters	3-tab, laminated, starter, and hip & ridge
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Refer to UL letter		Certification Agency Certificate FL10674_R3_C_CAC_AHJ letter 6-15-10 Ted Berman.pdf Quality Assurance Contract Expiration Date 06/15/2011 Installation Instructions FL10674_R3_IL_AHJ letter 6-15-10 Ted Berman.pdf Verified By: Underwriters Laboratories Inc. Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

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 Florida Building Code Online
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 Tallahassee, Florida 32399-2100
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Product Approval Accepts:





STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL
SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 10-0438-N
DATE PAID: 9-20-10
FEE PAID: 425.00
RECEIPT #: 12-BIR-TS-5203

APPLICATION FOR:

☒ New System ☐ Existing System ☐ Holding Tank ☐ Innovative
☐ Repair ☐ Abandonment ☐ Temporary ☐

APPLICANT: Kenneth and Barbara Sweeney

AGENT: Kara Sutton TELEPHONE: (352)318-9864

MAILING ADDRESS: P.O. Box 1198, Newberry FL 32669

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 2 BLOCK: SUBDIVISION: Summers Acres PLATTED: 2009

PROPERTY ID #: 16-75-17-10006-102 ZONING: RES I/M OR EQUIVALENT: ☐ Y ☒ N

PROPERTY SIZE: 10.54 ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ ≤ 2000 GPD ☐ > 2000 GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? ☐ Y ☒ N DISTANCE TO SEWER: FT

PROPERTY ADDRESS: 918 SW County Road 778, High Springs, FL 32643

DIRECTIONS TO PROPERTY: I 75 Exit 399 west to County Road 778.
Left to property on Sterling Terr. 1st on L.

BUILDING INFORMATION

☒ RESIDENTIAL ☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	<u>SFR</u>	<u>3</u>	<u>2244 eomd</u>	<u>5169 total</u>
2				
3				<u>Held for Ssonr, clear 9-22-10</u>
4				

☐ Floor/Equipment Drains ☐ Other (Specify)

SIGNATURE: Kara Sutton DATE: 9/16/2010

9/15/10 5035
incomplete

SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 1010-15 CONTRACTOR Sutton Family Homes and Management Consulting, Inc. PHONE 352-318-9864

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL 1035 ✓	Print Name: <u>Illuminati Electric, Inc</u> License #: <u>EC 13003470</u>	Signature: <u>[Signature]</u> Phone #: <u>352-213-0794</u>
MECHANICAL/A/C 1030 ✓	Print Name: <u>Todd Nankle / FL Air Gas Water</u> License #: <u>CMC 057030</u>	Signature: <u>[Signature]</u> Phone #: <u>352-8247 / 316-2732</u>
PLUMBING/GAS 1033 ✓	Print Name: <u>Preferred Plumbing of Alachua County</u> License #: <u>CFC 057469</u>	Signature: <u>[Signature]</u> Phone #: <u>352-495-2299</u>
ROOFING 443 ✓	Print Name: <u>Duffield Home Improvement</u> License #: <u>CCC 1325785</u>	Signature: <u>[Signature]</u> Phone #: <u>352-258-0238</u>
SHEET METAL	Print Name: <u>N/A</u> License #: _____	Signature: _____ Phone #: _____
FIRE SYSTEM/SPRINKLER	Print Name: <u>N/A</u> License #: _____	Signature: _____ Phone #: _____
SOLAR GAS	Print Name: <u>James Thames Gas Service</u> License #: <u>DACS 02092 N/A</u>	Signature: <u>[Signature]</u> Phone #: <u>352-318-3747</u>

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON 991 ✓	CRC 1328840	Sutton Family Homes and Management Consulting, Inc.	[Signature]
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

130,000.
27.00
910.00

Prepared by and Return to:
Mary T. Dotson, an employee of
Alachua Title Services, LLC,
P.O. Box 2408 (32616), 16407 N.W. 174th Drive, Suite C
Alachua, Florida 32615
386-418-8183

File Number: 10-066

Inst: 201012011179 Date: 7/14/2010 Time: 12:15 PM
Doc Stamp-Deed: 910.00
DC, P. DeWitt Cason, Columbia County Page 1 of 3 B: 1197 P: 2087

WARRANTY DEED

This indenture made on July 13, 2010 A.D., by and between **Allan E. Mincey, Jr., a married person**, whose address is P.O. Box 3061, High Springs, Florida 32655, hereinafter called the "grantor", to **Kenneth C. Sweeney and Barbara J. Sweeney, husband and wife**, whose address is 16975 Highway 278 North, Williston, South Carolina 29853, hereinafter called the "grantee":

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in **columbia County, Florida**, to-wit:

PARCEL 2 OF SUMMER ACRES, AN UNRECORDED SUBDIVISION BEING MORE PARTICULARLY DESCRIBED AS:

A PARCEL OF LAND IN SECTION 16, TOWNSHIP 7 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT A FOUND 4" X 4" CONCRETE MONUMENT "SRD" AT THE NORTHWEST CORNER OF SAID SECTION 16, TOWNSHIP 7 SOUTH, RANGE 17 EAST AND RUN THENCE SOUTH 00 DEG. 15 MIN. 48 SEC. EAST ALONG THE WEST LINE OF SAID SECTION 16, 80.15 FEET TO A FOUND 4" X 4" CONCRETE MONUMENT "SRD" ON THE SOUTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 778 (80 FOOT RIGHT OF WAY); THENCE NORTH 89 DEG. 55 MIN. 25 SEC. EAST ALONG SAID SOUTH RIGHT OF WAY LINE, 698.08 FEET TO A SET 1/2 INCH REBAR AND CAP "PLS 4789" AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 89 DEG. 55 MIN. 25 SEC. EAST, ALONG SAID SOUTH RIGHT OF WAY LINE, 587.02 FEET TO A SET 1/2 INCH REBAR AND CAP "PLS 4789"; THENCE SOUTH 00 DEG. 15 MIN. 48 SEC. EAST, 782.02 FEET TO A SET 1/2 INCH REBAR AND CAP "PLS 4789"; THENCE SOUTH 89 DEG. 55 MIN. 25 SEC. WEST, 587.02 FEET TO A SET 1/2 INCH REBAR AND CAP "PLS 4789"; THENCE NORTH 00 DEG. 15 MIN. 48 SEC. WEST, 782.02 FEET TO THE POINT OF BEGINNING.

SUBJECT TO AND TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS, DRAINAGE AND PUBLIC UTILITIES BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT A FOUND 4" X 4" CONCRETE MONUMENT "SRD" AT THE NORTHWEST CORNER OF SAID SECTION 16, TOWNSHIP 7 SOUTH, RANGE 17 EAST AND RUN THENCE SOUTH 00 DEG. 15 MIN. 48 SEC. EAST ALONG THE WEST LINE OF SAID SECTION 16, 80.15 FEET TO A FOUND 4" X 4" CONCRETE MONUMENT "SRD" ON THE SOUTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 778 (80 FOOT RIGHT OF WAY); THENCE NORTH 89 DEG. 55 MIN. 25 SEC. EAST ALONG SAID SOUTH RIGHT OF WAY LINE, 668.08 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 00 DEG. 15 MIN. 48 SEC. EAST, 3910.47 FEET TO THE SOUTH LINE OF THE NORTH 1/2 OF THE SOUTHWEST 1/4 OF SAID SECTION 16; THENCE NORTH 89 DEG. 38 MIN. 29 SEC. EAST ALONG SAID SOUTH LINE, 60.00 FEET; THENCE NORTH 01 DEG. 15 MIN. 48 SEC. WEST, 3910.17 FEET TO THE SAID SOUTH RIGHT OF WAY LINE OF COUNTY ROAD NO. 778; THENCE SOUTH 89 DEG. 55 MIN. 25 SEC. WEST ALONG SAID SOUTH RIGHT OF WAY LINE, 60.00 FEET TO THE POINT OF BEGINNING.

Parcel ID Number: 16-7S-17-10006-102

Subject to covenants, conditions, restrictions and easements of record.

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances except taxes accruing subsequent to December 31, 2009.

In Witness Whereof, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in the presence of these witnesses:

Frederic D. Kaufman
Witness Signature Frederic D. Kaufman

Allan E. Mincey, Jr.
Allan E. Mincey, Jr.

Witness Print Name: _____

Mary T. Dotson
Witness Signature
MARY T. DOTSON

Witness Print Name: _____

State of Florida

County of Alachua

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED before me on July 13, 2010, by **Allan E. Mincey, Jr.** who is/are personally known to me or has/have produced a valid ~~driver's license~~ as identification

PASSPORT copy

Mary T. Dotson
NOTARY PUBLIC

Notary Print Name

My Commission Expires: _____

NOTARY PUBLIC, STATE OF FLORIDA
Mary T. Dotson
Commission #DD723991
Expires: DEC. 18, 2011
BONDED THRU ATLANTIC BONDING CO., INC.

FULL LEGAL DESCRIPTION:

PARCEL 2, SUMMER ACRES, AN UNRECORDED SUBDIVISION. BEING MORE PARTICULARLY DESCRIBED AS:

A PARCEL OF LAND IN SECTION 16, TOWNSHIP 7 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

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PARCEL ID NUMBER: 16-7S-17-10006-102



**COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL CHECK LIST REQUIREMENTS**

6-25-09

**MINIMUM PLAN REQUIREMENTS FOR THE
FLORIDA BUILDING CODE RESIDENTIAL 2007 EFFECTIVE 1 MARCH 2009 & 2009
SUPPLEMENTS EFFECTIVE 1 MARCH 2009, ONE (1) AND TWO (2) FAMILY DWELLINGS
with Supplements and Revision, OF THE NATIONAL ELECTRICAL 2008**

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

**ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current 2007
FLORIDA BUILDING CODES RESIDENTIAL EFFECTIVE 1 MARCH 2009 & 2009
SUPPLEMENTS EFFECTIVE 1 MARCH 2009. ALL PLANS OR DRAWINGS SHALL
PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND
SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE
STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE
STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY
DWELLINGS.**

**FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER
FIGURE R301.2(4) of the FLORIDA BUILDING CODES RESIDENTIAL (Florida Wind
speed map) SHALL BE USED.**

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH
ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE -----110 MPH
NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

**GENERAL REQUIREMENTS:
APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL**

Items to Include-
Each Box shall be
Circled as
Applicable

		Yes	No	N/A
1	Two (2) complete sets of plans containing the following:	✓		
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	✓		
3	Condition space (Sq. Ft.)	IIIIIIII	IIIIIIII	IIII
	Total (Sq. Ft.) under roof			

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

4	Dimensions of lot or parcel of land	✓		
5	Dimensions of all building set backs	✓		
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	✓		
7	Provide a full legal description of property.	✓		

Wind-load Engineering Summary, calculations and any details required

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
8	Plans or specifications must show compliance with FBCR Chapter 3	IIII	IIII	IIII
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	✓		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)			
11	Wind importance factor and nature of occupancy			
12	The applicable internal pressure coefficient, Components and Cladding			
13	The design wind pressure in terms of psf (kN/m ²), to be used for the design of exterior component, cladding materials not specifically designed by the registered design professional.			

Elevations Drawing including:

14	All side views of the structure	✓		
15	Roof pitch	✓		
16	Overhang dimensions and detail with attic ventilation	✓		
17	Location, size and height above roof of chimneys			
18	Location and size of skylights with Florida Product Approval			
18	Number of stories	✓		
20A	Building height from the established grade to the roofs highest peak	✓		

Floor Plan including:

20	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	✓		
21	Raised floor surfaces located more than 30 inches above the floor or grade			
22	All exterior and interior shear walls indicated	✓		
23	Shear wall opening shown (Windows, Doors and Garage doors)			
24	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBCR 613.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	✓		
25	Safety glazing of glass where needed	✓		
26	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FBCR)			
27	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails			
28	Identify accessibility of bathroom (see FBCR SECTION 322)	✓		

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
--	---

FBCR 403: Foundation Plans

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	✓		
30	All posts and/or column footing including size and reinforcing	✓		
31	Any special support required by soil analysis such as piling.			
32	Assumed load-bearing value of soil _____ Pound Per Square Foot			
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	✓		

FBCR 506: CONCRETE SLAB ON GRADE

34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	✓		
35	Show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and Supports	✓		

FBCR 320: PROTECTION AGAINST TERMITES

36	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or Sub mit other approved termite protection methods. Protection shall be provided by registered termiticides	✓		
----	--	---	--	--

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type	✓		
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement			

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

39	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer			
40	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers			
41	Girder type, size and spacing to load bearing walls, stem wall and/or piers			
42	Attachment of joist to girder			
43	Wind load requirements where applicable			
44	Show required under-floor crawl space			

45	Show required amount of ventilation opening for under-floor spaces			
46	Show required covering of ventilation opening			
47	Show the required access opening to access to under-floor spaces			
48	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing			
49	Show Draftstopping, Fire caulking and Fire blocking			
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 309			
51	Provide live and dead load rating of floor framing systems (psf).			

FBCR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	✓		
53	Fastener schedule for structural members per table FBCR 602.3 are to be shown	✓		
54	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing			
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	✓		
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCR Table 502.5 (1)	✓		
57	Indicate where pressure treated wood will be placed			
58	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas			
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail			

FBCR :ROOF SYSTEMS:

60	Truss design drawing shall meet section FBCR 802.10 Wood trusses	✓		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	✓		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	✓		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details			
64	Provide dead load rating of trusses			

FBCR 802:Conventional Roof Framing Layout

65	Rafter and ridge beams sizes, span, species and spacing			
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating			
67	Valley framing and support details			
68	Provide dead load rating of rafter system			

FBCR Table 602.3(2) & FBCR 803 ROOF SHEATHING

69	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	✓		
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	✓		

FBCR ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering	✓		
72	Submit Florida Product Approval numbers for each component of the roof assembles covering	✓		

FBCR Chapter 11 Energy Efficiency Code for residential building

Residential construction shall comply with this code by using the following compliance methods in the FBCR chapter 11 Residential buildings compliance methods. **Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.**

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable		
		YES	NO	N/A
73	Show the insulation R value for the following areas of the structure			
74	Attic space			
75	Exterior wall cavity			
76	Crawl space			

HVAC information

77	Submit two copies of a Manual J sizing equipment or equivalent computation study			
78	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or 20 cfm continuous required			
79	Show clothes dryer route and total run of exhaust duct			

Plumbing Fixture layout shown

80	All fixtures waste water lines shall be shown on the foundation plan			
81	Show the location of water heater			

Private Potable Water

82	Pump motor horse power			
83	Reservoir pressure tank gallon capacity			
84	Rating of cycle stop valve if used			

Electrical layout shown including

85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans			
86	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A			
87	Show the location of smoke detectors & Carbon monoxide detectors			
88	Show service panel, sub-panel, location(s) and total ampere ratings			
89	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type. For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3			
90	Appliances and HVAC equipment and disconnects			
91	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter , Protection device.			

Disclosure Statement for Owner Builders *If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.*

Notice Of Commencement

A notice of commencement form **recorded** in the Columbia County Clerk Office is required to be filed with the building department Before Any Inspections can be preformed.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Circled as Applicable
--	--

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	Building Permit Application A current Building Permit Application form is to be completed and submitted for all residential projects			
93	Parcel Number The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested			
94	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058			
95	City of Lake City A permit showing an approved waste water sewer tap			
96	Toilet facilities shall be provided for all construction sites			
97	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			

98	Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations		
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the base flood elevation (100 year flood) has been established		
100	A development permit will also be required. Development permit cost is \$50.00		
101	Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.		
102	911 Address: If the project is located in an area where a 911 address has not been issued, then application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125		

Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code, Building shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

Time limitation of application.

An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date of issuance of the new permit.

Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

When the submitted application is approved for permitting the applicant will be notified by phone as to the date and time a building permit will be prepared and issued by the Columbia County Building & Zoning Department

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Performance Method A

Project Name: SUMMERS ACRES LOT 2
 Street:
 City, State, Zip: , FL,
 Owner:
 Design Location: FL, Gainesville

Builder Name: SUTTON FAMILY HOMES
 Permit Office: COLUMBIA
 Permit Number: 28947
 Jurisdiction: 221000

1. New construction or existing	New (From Plans)	
2. Single family or multiple family	Single-family	
3. Number of units, if multiple family	1	
4. Number of Bedrooms	3	
5. Is this a worst case?	Yes	
6. Conditioned floor area (ft ²)	3124	
7. Windows	Description	Area
a. U-Factor:	Dbl, U=0.45	570.00 ft ²
	SHGC=0.35	
b. U-Factor:	N/A	ft ²
	SHGC:	
c. U-Factor:	N/A	ft ²
	SHGC:	
d. U-Factor:	N/A	ft ²
	SHGC:	
e. U-Factor:	N/A	ft ²
	SHGC:	
8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	3124.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=19.0	2490.00 ft ²
b. Frame - Wood, Adjacent	R=13.0	580.00 ft ²
c. N/A	R=	ft ²
d. N/A	R=	ft ²
10. Ceiling Types	Insulation	Area
a. Cathedral/Single Assembly (Unvented)	R=20.0	3124.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²
11. Ducts		
a. Sup: Interior Ret: Interior AH: Interior Sup. R= 6, 234 ft ²		
12. Cooling systems		
a. Central Unit	Cap: 48.0 kBtu/hr	
	SEER: 16.8	
13. Heating systems		
a. Electric Heat Pump	Cap: 48.0 kBtu/hr	
	HSPF: 9.3	
14. Hot water systems		
a. Electric	Cap: 50 gallons	
	EF: 0.87	
b. Conservation features		
None		
15. Credits	Pstat	

Glass/Floor Area: 0.182

Total As-Built Modified Loads: 40.99

Total Baseline Loads: 58.68

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Cue
 DATE: 10-1-10

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

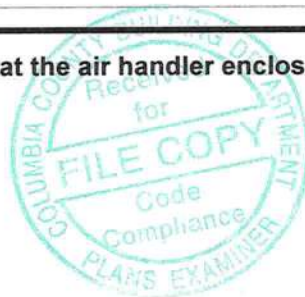
OWNER/AGENT: Kara Sutton
 DATE: 10-7-10

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.



BUILDING OFFICIAL: _____
 DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with N1110.A.3.



PROJECT

Title: SUMMERS ACRES LOT 2	Bedrooms: 3	Address Type: Street Address
Building Type: FLAsBuilt	Conditioned Area: 3124	Lot #
Owner:	Total Stories: 1	SubDivision:
# of Units: 1	Worst Case: Yes	PlatBook:
Builder Name: SUTTON FAMILY HOMES	Rotate Angle: 135	Street:
Permit Office:	Cross Ventilation:	County: ALACHUA
Jurisdiction:	Whole House Fan:	City, State, Zip: , FL ,
Family Type: Single-family		
New/Existing: New (From Plans)		
Comment:		

CLIMATE

	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
✓	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS

	#	Floor Type	Perimeter	R-Value	Area	Tile	Wood	Carpet
✓	1	Slab-On-Grade Edge Insulatio	307 ft	0	3124 ft²	0	0	1

ROOF

	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
✓	1	Gable or shed	Composition shingles	3384 ft²	650 ft²	Medium	0.96	No	0	22.6 deg

ATTIC

	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
✓	1	Full attic	Unvented	0	3124 ft²	N	N

CEILING

	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
✓	1	Cathedral/Single Assembly (Unvented	20	3124 ft²	0.11	Wood

WALLS

	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
✓	1	N	Garage	Frame - Wood	13	580 ft²		0.23	0.01
	2	S	Exterior	Frame - Wood	19	830 ft²		0.23	0.75
	3	E	Exterior	Frame - Wood	19	830 ft²		0.23	0.75
	4	W	Exterior	Frame - Wood	19	830 ft²		0.23	0.75

DOORS

✓	#	Ornt	Door Type	Storms	U-Value	Area
✓	1	N	Insulated	None	0.460000	21 ft²
✓	2	S	Insulated	None	0.460000	21 ft²

WINDOWS

Orientation shown is the entered orientation (=>) changed to Worst Case.

✓	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth	Separation	Int Shade	Screening
✓	1	N=>SE	Vinyl	Low-E Double	Yes	0.45	0.35	N	210 ft²	2 ft 0 in	0 ft 0 in	HERS 2006	None
✓	2	S=>NW	Vinyl	Low-E Double	Yes	0.45	0.35	N	285 ft²	2 ft 0 in	0 ft 0 in	HERS 2006	None
✓	3	E=>SW	Vinyl	Low-E Double	Yes	0.45	0.35	N	30 ft²	2 ft 0 in	0 ft 0 in	HERS 2006	None
✓	4	W=>NE	Vinyl	Low-E Double	Yes	0.45	0.35	N	45 ft²	2 ft 0 in	0 ft 0 in	HERS 2006	None

INFILTRATION & VENTING

✓	Method	SLA	CFM 50	ACH 50	ELA	EqLA	---- Forced Ventilation ---- Supply CFM Exhaust CFM		Run Time Fraction	Fan Watts
✓	Default	0.00036	2950	5.67	161.9	304.6	0 cfm	0 cfm	0	0

GARAGE

✓	#	Floor Area	Ceiling Area	Exposed Wall Perimeter	Avg. Wall Height	Exposed Wall Insulation
✓	1	382.8 ft²	382.8 ft²	64 ft	8 ft	(invalid)

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ducts
✓	1	Central Unit	None	SEER: 16.8	48 kBtu/hr	1440 cfm	0.75	sys#0

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Ducts
✓	1	Electric Heat Pump	None	HSPF: 9.3	48 kBtu/hr	sys#0

HOT WATER SYSTEM

✓	#	System Type	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	0.87	50 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
✓	None	None			ft²		

DUCTS

✓	--- Supply ---				--- Return ---		Leakage Type	Air Handler	CFM 25	Percent Leakage	QN	RLF
	#	Location	R-Value	Area	Location	Area						
_____	1	Interior	6	234 ft²	Interior	156.2 ft	Default Leakage	Interior	(Default)	(Default) %		

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	☒ Jan	☒ Feb	☒ Mar	☒ Apr	☒ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☒ Oct	☒ Nov	☒ Dec
Heating	☒ Jan	☒ Feb	☒ Mar	☒ Apr	☒ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☒ Oct	☒ Nov	☒ Dec
Venting	☒ Jan	☒ Feb	☒ Mar	☒ Apr	☒ May	☒ Jun	☒ Jul	☒ Aug	☒ Sep	☒ Oct	☒ Nov	☒ Dec

Thermostat Schedule: HERS 2006 Reference

Schedule Type		Hours											
		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78
Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78
Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66
Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	66	66

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS:

, FL.

PERMIT #:

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	N1106.AB.1.2.2	Penetrations/openings > 1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	N1106.AB.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%. Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Columbia County Building Department Culvert Permit

Culvert Permit No.
000001852

DATE 10/20/2010 PARCEL ID # 16-7S-17-10006-102
APPLICANT KARA SUTTON PHONE 352-318-9864
ADDRESS 918 SW CR 778 HIGH SPRINGS FL 32643
OWNER KENNETH & BARBARA SWEENEY PHONE 352.316.3463
ADDRESS 918 SW CR 778 HIGH SPRINGS FL 32643
CONTRACTOR KARA SUTTON PHONE 352.318.9864
LOCATION OF PROPERTY 441-S TO C-778, TR PROPERTY ON THE L, 2ND LOT PAST MARYNIK DR, (OR)
2ND LOT BACK FROM SCRUBTOWN.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT SUMMER'S ACRES 2

SIGNATURE

Kara Sutton

INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
 - b) the driveway to be served will be paved or formed with concrete.
- Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

**ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE INSTALLATION OF THE CULVERT.**

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00

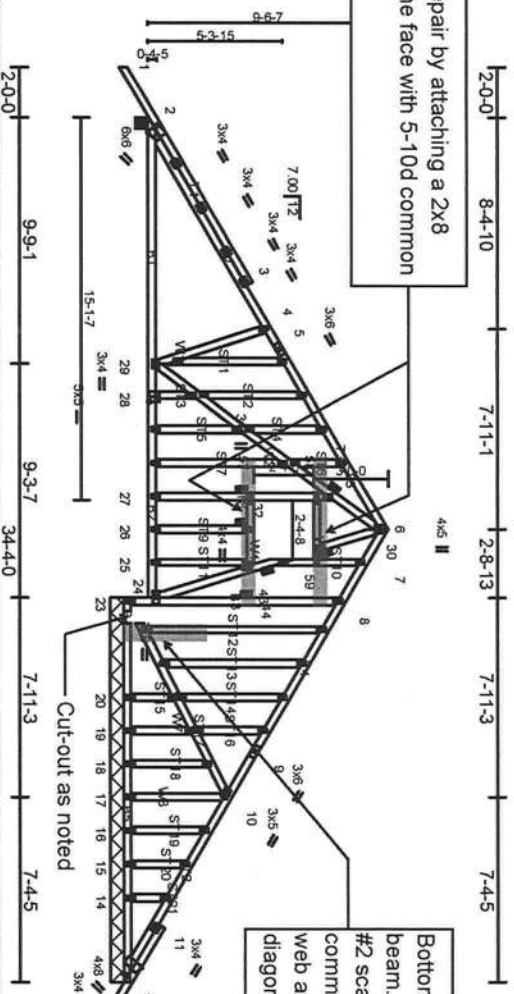


Sweeney Res Permit

Permit # 28947

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
10589046	MXR	GABLE	1	1	7-220 s Mar 29 2010 Mitek Industries, Inc. Mon Nov 15 10:08:18 2010 Page 1

Opening needed where shown. Repair by attaching a 2x8 SYP #2 scab, top and bottom, to one face with 5-10d common in each overlapping truss piece.



LOADING (psf)	SPACING	CS	DEFL	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.50	in (loc) 10d/1 360	MT20	24d/190
TCLL 7.0	Lumber Increase 1.25	BC 0.49	Vert(L) -0.31 29-62 >725 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(L) 0.13 31 n/a		
BCLL 10.0	Code FRC2007/TP12002	(Matrix-M)	Wind(L) -0.04 27-29 >888 240	Weight 315 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2 *Except*
B3: 2 X 4 SYP No.3
W2: 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 6-24

JOINTS
1 Brace at J16: 30, 32, 33, 43, 57
Mitek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 15-3-8 except (I=length) 60=0-5-8.
(lb) Max Horz 60=227(LC 8)
Max Uplift 100 lb or less at joint(s) 22, 15, 14 except 60=281(LC 9), 17=225(LC 9), 64=173(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 23, 22, 20, 19, 18, 15, 14, 21 except 60=890(LC 1), 17=420(LC 1), 64=279(LC 1), 24=108(LC 1), 64=279(LC 1)

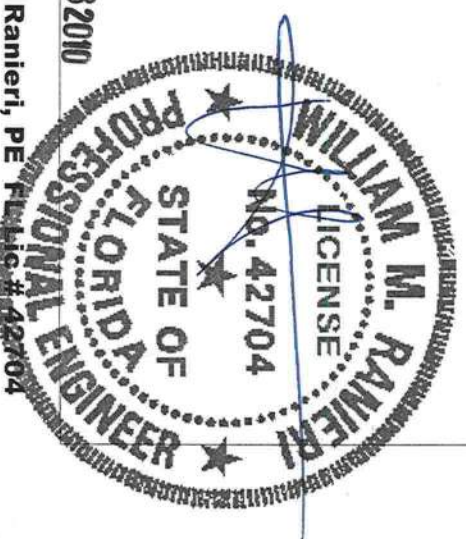
FORCES (lb)
Max Comp Max Ten. - All forces 250 (lb) or less except when shown.

NOTES
1) This truss has been checked for uniform roof live load only, except as noted.
2) Wind, ASCE 7-05, 110mph (3-second gust): TCCL=4.2psf, BCLL=4.2psf, H=17ft, B=48ft, L=48ft, eave=8ft, Cat. II, Exp B, enclosed, MMVFRS (all heights) and C-C Exterior(2) 2-0-0 to 2-9-10, Interior(1) 2-9-10 to 16-3-11, Exterior(2) 16-3-11 to 21-1-5 zone, C-C for members and forces, & MMVFRS for reactions shown. Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Mitek "Standard Gable End Detail"
4) All plates are 2x4 MT20 unless otherwise indicated.

LOAD CASE(S)
Standard

5) Gable studs spaced at 14-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCLL = 10.0psf.
8) Bearing at joint(s) 24 considers parallel to grain value using ANS/TP1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 15, 14 except (I=length) 60=281, 17=225, 64=173, 64=173.
10) "Semi-rigid pitchbreaks with fixed heels" Member end fixity model was used in the analysis and design of this truss.

STRENGTH BY DESIGN
OF W.B. ASSOCIATES, INC.
CONSULTING & DESIGN
CERT. OF AUTHORIZATION NO. 9177
222 S. WESTMONT DRIVE SUITE 100
ALTIMONTE SPRINGS, FL 32714
PHONE: (407) 681-1917





OK 7.c.
28947

ATTIC CARD

THIS IS GREENFIBER™ STABILIZED BORATE CELLULOSE INSULATION

Application Coverage Chart

30 LBS

INS-735

R-value at 75°F Mean Temp	Minimum Thickness (Inches)	Thickness After Settling	Maximum Square Foot per Bag	Minimum Bags per 1,000 Square Feet	Maximum Weight per Square Foot (lbs.)
R-11	3.1	3.0	100.7	9.9	0.298
R-13	3.6	3.5	80.2	12.5	0.374
R-19	5.3	5.1	48.3	20.7	0.521
R-20	5.6	5.4	45.2	22.1	0.564
R-21	5.9	5.7	42.4	23.6	0.708
R-22	6.1	5.9	39.9	25.1	0.752
R-24	6.7	6.5	35.6	28.1	0.842
R-32	8.4	8.1	26.8	37.4	1.121
R-38	8.9	8.6	24.6	40.6	1.217
R-40	10.6	10.3	19.8	50.4	1.513
R-44	11.1	10.8	18.6	53.8	1.613
R-48	12.3	11.9	16.5	60.6	1.818
R-48	13.4	13.0	14.8	67.6	2.026
R-50	13.9	13.5	14.1	71.0	2.131
R-50	16.7	16.2	11.2	89.0	2.670

Sidelwalls (Furred Walls at 2.7 PCF, Stud Walls at 2.7 PCF)

Sidelwalls	Framing	Minimum Thickness (Inches)	Maximum Coverage Sq. Ft. per Bag 16" o.c.	Minimum Weight per Sq. Ft. (lbs.)
R-2.8	Furring	0.75	196.2	0.189
R-3.7	Furring	1.0	147.1	0.225
R-5.6	Furring	1.5	98.1	0.338
R-7.4	Furring	2.0	73.6	0.450
R-11.0	(2x4)	3.5	42.0	0.788
R-20.4	(2x6)	5.5	26.8	1.238

Dry Dense-Pack Sidelwalls (Stud Walls at 3.5 PCF)

The coverage chart is based on settled thickness and is for estimating purposes only. Do not exceed maximum sq. ft. coverage per bag. Actual coverage will be influenced by job conditions and application techniques and may vary as much as 10% without significantly affecting the stated R-value. Failure of the installer to provide at least the required number of bags per 1000 sq. ft. and at least the minimum thickness may result in a lower installed R-value. This product is intended for wall/spray application in 2x4 and 2x6 construction. Contact GreenFiber technical representatives for all other assemblies. This coverage chart does not apply to dry application. GreenFiber requires maintaining applied moisture content below 35% during wall application and below 22% for attic floor application. Do not cover the insulation until the insulation moisture levels, measured and documented after a minimum period of 24 hours from the time of installation, reach 25% or less in accordance with GreenFiber's Wallspray Manual. Install dry dense-pack Cocoon2 Stabilized Borate Formula insulation in all exterior wall sections where added vapor impediments, such as cabinets, mirrors, tubs, and shower enclosures are located. If unsure where impediments are located, dry dense-pack the entire exterior wall section(s). Non-standard or unusual wall configurations (i.e., other than 2x4 and 2x6 walls) can affect thermal and sound properties and require special installation considerations. These types of designs should be analyzed and, if necessary, tested prior to plan review. For non-standard walls, contact a GreenFiber technical service representative for assistance. Coverage chart is based on a nominal bag weight of 30 lbs.

ATTIC INSULATION R- 19 4438499
 WALL INSULATION R- Sutton
 FLOOR INSULATION R- Sweeney Res
Back Porch

Insulation has been installed to the R-value indicated above with GreenFiber insulation. GreenFiber provides outstanding thermal performance, fire-resistance and sound control. Consisting of 85% recycled content, GreenFiber Cocoon insulation is specially treated for flame resistance.

R-value is a measure of resistance to heat flow - the higher the R-value, the greater the insulation power.

Residence Address:

High Springs FL

Installed by:

Gate Insulation
 2nd Floor

Builder Company Name:

Builder Signature:

Date Installed:

7/10/11

CERTIFICATION

Attic: GreenFiber Stabilized Borate Insulation, manufactured by GreenFiber. This is to certify that the attic insulation has been installed in conformance with the coverage chart recommendations above using 19 bags to cover 300 sq. ft. to obtain an R-value of 19.

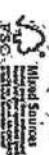
Walls: GreenFiber Stabilized Borate Formula, manufactured by GreenFiber. This is to certify that the wall insulation has been installed in conformance with the manufacturer's recommendations to obtain the R-value of .

Walls and Floors: Type of insulation Manufacturer . This is to certify that the wall and floor insulations have been installed in conformance with the manufacturer's recommendations to obtain the R-Values noted above.

FOR MORE INFORMATION CONTACT GREENFIBER:
 800.228.0024 greenfiber.info@greenfiber.com

Corporate Office:
 2500 Distribution Street, Suite 200 Charlotte, NC 28203
 (p) 800.228.0024 (f) 704.379.0885 www.greenfiber.com

Manufacturing Locations:
 Albany, NY
 Atlanta, GA
 Charlotte, NC
 Delphos, OH
 East St. Louis, IL
 Norfolk, NE
 Phoenix, AZ
 Sacramento, CA
 Salt Lake City, UT
 Tampa, FL
 Waco, TX



PM-3-08 Rev B 11/07



ATTIC CARD

THIS IS GREENFIBER™ STABILIZED BORATE CELLULOSE INSULATION

Application Coverage Chart

30LBS

INS735

R-value at 75°F Mean Temp	Minimum Thickness (Inches)	Thickness After Settling	Maximum Square Feet per Bag	Minimum Net Coverage (No Adjustment for Framing)	Minimum Weight per Square Foot (lbs.)
To Obtain a Thermal Resistance (R) of:	Installed Insulation Should Not Be Less Than:			Minimum Bags per 1,000 Square Feet	
R-11	3.1	3.0	100.7	9.9	0.298
R-13	3.6	3.5	80.2	12.5	0.314
R-19	5.3	5.1	48.3	20.7	0.521
R-20	5.6	5.4	45.2	22.1	0.564
R-21	5.9	5.7	42.4	23.6	0.708
R-22	6.1	5.9	39.9	25.1	0.752
R-24	6.7	6.5	35.8	28.1	0.842
R-30	8.4	8.1	26.8	37.4	1.121
R-32	8.9	8.6	24.5	40.6	1.217
R-38	10.6	10.3	19.8	50.4	1.513
R-40	11.1	10.8	18.5	53.8	1.613
R-44	12.3	11.9	16.5	60.6	1.818
R-48	13.4	13.0	14.8	67.5	2.026
R-50	13.9	13.5	14.1	71.0	2.131
R-60	16.7	16.2	11.2	89.0	2.670
Sidelwalls (Furred Walls at 2.3 PCF, Stud Walls at 2.7 PCF)					
Sidelwalls	Framing	Minimum Thickness (Inches)	Maximum Coverage Sq. Ft. per Bag	Minimum Weight per Sq. Ft. (lbs.)	
R-2.8	Furring	0.75	196.2	189.6	0.169
R-3.7	Furring	1.0	147.1	142.2	0.225
R-5.6	Furring	1.5	98.1	94.8	0.338
R-7.4	Furring	2.0	73.6	71.1	0.450
R-13.0	(2x4)	3.5	42.0	40.6	0.788
R-20.4	(2x6)	5.5	26.8	25.9	1.238
Dry Dense-Pack Sidelwalls (Stud Walls at 3.5 PCF)					

The coverage chart is based on settled thickness and is for estimating purposes only. Do not exceed maximum sq. ft. coverage per bag. Actual coverage will be influenced by job conditions and application techniques and may vary as much as 10% without significantly affecting the stated R-value. Failure of the installer to provide at least the required number of bags per 1000 sq. ft. and at least the minimum thickness may result in a lower installed R-value. This product is intended for wallspray application in 2x4 and 2x6 construction. Contact GreenFiber technical representatives for all other assemblies. This coverage chart does not apply to dry application. GreenFiber requires maintaining applied moisture content below 35% during wall application and below 22% for attic floor application. Do not cover the insulation until the insulation moisture levels, measured and documented after a minimum period of 24 hours from the time of installation, reach 25% or less in accordance with GreenFiber's Wallspray Manual. Install dry dense-pack Cocoon2 Stabilized Borate Formula Insulation in all exterior wall sections where added vapor impediments, such as cabinets, mirrors, tubs, and shower enclosures are located. If unsure where impediments are located, dry dense-pack the entire exterior wall section(s). Non-standard or unusual wall configurations (i.e., other than 2x4 and 2x6 walls) can affect thermal and sound properties and require special installation considerations. These types of designs should be analyzed and, if necessary, tested prior to plan review. For non-standard walls, contact a GreenFiber technical service representative for assistance. Coverage chart is based on a nominal bag weight of 30 lbs.

#28947

ATTIC INSULATION R- 30
 WALL INSULATION R-
 FLOOR INSULATION R-

Insulation has been installed to the R-value indicated above with GreenFiber Insulation. GreenFiber provides outstanding thermal performance, fire-resistance and sound control. Consisting of 85% recycled content, GreenFiber Cocoon Insulation is specially treated for flame resistance.

R-value is a measure of resistance to heat flow - the higher the R-value, the greater the insulation power.

Residence Address: Hick Springs, AL

Installed by: Gale Insulation

Builder Company Name:

Builder Signature:

Date installed: 1/10/11

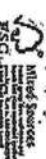
CERTIFICATION

Attic: GreenFiber Stabilized Borate Insulation, manufactured by GreenFiber. This is to certify that the attic insulation has been installed in conformance with the coverage chart recommendations above using 37 bags to cover 1200 sq. ft. to obtain an R-value of 30 Walls: GreenFiber Stabilized Borate Formula, manufactured by GreenFiber. This is to certify that the wall insulation has been installed in conformance with the manufacturer's recommendations to obtain the R-value of Walls and Floors: Type of insulation Manufacturer This is to certify that the wall and floor insulations have been installed in conformance with the manufacturer's recommendations to obtain the R-Values noted above.

FOR MORE INFORMATION CONTACT GREENFIBER:
 800.228.0024 greenfiberinfo@greenfiber.com

Corporate Office:
 2500 Distribution Street, Suite 200 Charlotte NC 28203
 (704) 800.228-0024 (704) 379.0886 www.greenfiber.com

Manufacturing Locations:
 Albany, NY
 Atlanta, GA
 Charlotte, NC
 Delphos, OH
 East St. Louis, IL
 Norfolk, NE
 Phoenix, AZ
 Sacramento, CA
 Salt Lake City, UT
 Tampa, FL
 Waco, TX



PA-43-95 Rev B 10/07

COLUMBIA COUNTY OFFICE OF THE SHERIFF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 16-7S-17-10006-102

Building permit No. 000028947

Use Classification SFD/UTILITY

Fire: 73.32

Permit Holder KARA SUTTON

Waste: 100.50

Owner of Building KENNETH & BARBARA SWEENEY

Total: 173.82

Location: 918 SW CR 778, HIGH SPRINGS, FL 32643

Date: 04/08/2011

Shay Chan

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)



New Contractor
12-1-10

28947

FAX

Date: 12/1/2010

Pages including cover sheet:

7

To:	+13867582160
Phone	
Fax Number	+13867582160

From:	Kara Sutton
	Sutton Family Homes
	PO Box 1198
	Newberry
	FL 32669
Phone	+1 (352) 318-9864
Fax Number	(352) 678-4216

NOTE:

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wrightsoft **Load Short Form**
Entire House
Florida Air Gas & Water Services

Job: Summers Acres Lot 2

Date: Sep 07, 2010

By: TH Nanke

6605 SW Archer Rd., Gainesville, FL 32608 Phone: 352-367-8247 Fax: 352-495-2767

Project Information

For: Kara Sutton, Sutton Family Homes
 320 NE Santa Fe Blvd, Newberry, FL 32669
 Phone: 352-318-9864 Fax: 352-371-0171
 Email: kara@suttonfamilyhomes.com

Design Information

	Htg	Ctg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Tight
Inside db (°F)	70	75	Construction quality	0
Design TD (°F)	37	17	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	33	52		

HEATING EQUIPMENT

Make Amana
 Trade ASZC16 SERIES
 Model ASZC160601A*
 ARI ref no. 3611062
 Efficiency 9.8 HSPF
 Heating input
 Heating output 57000 Btuh @ 47°F
 Temperature rise 27 °F
 Actual air flow 1900 cfm
 Air flow factor 0.039 cfm/Btuh
 Static pressure 0.50 in H2O
 Space thermostat

COOLING EQUIPMENT

Make Amana
 Trade ASZC16 SERIES
 Cond ASZC160601A*
 Coil CA°F4961*6A*++MBVC2000*-1A*+TXV
 ARI ref no. 3611062
 Efficiency 12.2 EER, 16 SEER
 Sensible cooling 39900 Btuh
 Latent cooling 17100 Btuh
 Total cooling 57000 Btuh
 Actual air flow 1900 cfm
 Air flow factor 0.047 cfm/Btuh
 Static pressure 0.50 in H2O
 Load sensible heat ratio 0.87

ROOM NAME	Area (ft²)	Htg load (Btuh)	Ctg load (Btuh)	Htg AVF (cfm)	Ctg AVF (cfm)
Master Suite	283	7232	5882	283	276
WIC	47	1294	587	51	28
WC	24	609	940	24	44
Master Bath	195	4012	2998	157	141
Den	263	3306	2917	130	137
WIC2	54	138	194	5	9
Hall	63	0	0	0	0
Photo Gallery	33	0	0	0	0
Foyer	81	1817	1365	71	64
Dining	180	2032	1343	80	63
Bedroom 2	195	2192	1447	86	68
Family Room	538	5745	4919	225	231
Bath	135	2085	1244	82	58
Bedroom 3	179	4566	3370	179	158
Nook	96	3181	1347	125	63
Closet	23	0	0	0	0

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Hall..	139	1384	771	54	36
Bath 2	71	1283	553	50	26
Laundry	106	178	250	7	12
Pantry	85	144	201	6	9
Mech Room	114	4152	1738	163	82
Hall...	64	1894	990	74	46
Kitchen	421	1263	7439	49	349
Entire House	d 3388	48507	40496	1900	1900
Other equip loads		0	0		
Equip. @ 0.97 RSM			39281		
Latent cooling			6091		
TOTALS	3388	48507	45373	1900	1900

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Project Summary

Entire House

Florida Air Gas & Water Services

Job: Summers Acres Lot 2
Date: Sep 07, 2010
By: TH Nanks

6606 SW Archer Rd., Gainesville, FL 32608 Phone: 352-367-8247 Fax: 352-495-2767

Project Information

For: Kara Sutton, Sutton Family Homes
320 NE Santa Fe Blvd, Newberry, FL 32669
Phone: 352-318-9864 Fax: 352-371-0171
Email: kara@suttonfamilyhomes.com
Notes: 16 SEER 2-zone Nutone system

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Structure	34075 Btuh
Ducts	14432 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	48507 Btuh

Sensible Cooling Equipment Load Sizing

Structure	22759 Btuh
Ducts	17737 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.97
Equipment sensible load	39281 Btuh

Infiltration

Method	Simplified	
Construction quality	Tight	
Fireplaces	0	
	Heating	Cooling
Area (ft²)	3388	3388
Volume (ft³)	33770	33770
Air changes/hour	0.10	0.05
Equip. AVF (cfm)	56	28

Latent Cooling Equipment Load Sizing

Structure	1589 Btuh
Ducts	4502 Btuh
Central vent (0 cfm)	0 Btuh
Equipment latent load	6091 Btuh
Equipment total load	45373 Btuh
Req. total capacity at 0.70 SHR	4.7 ton

Heating Equipment Summary

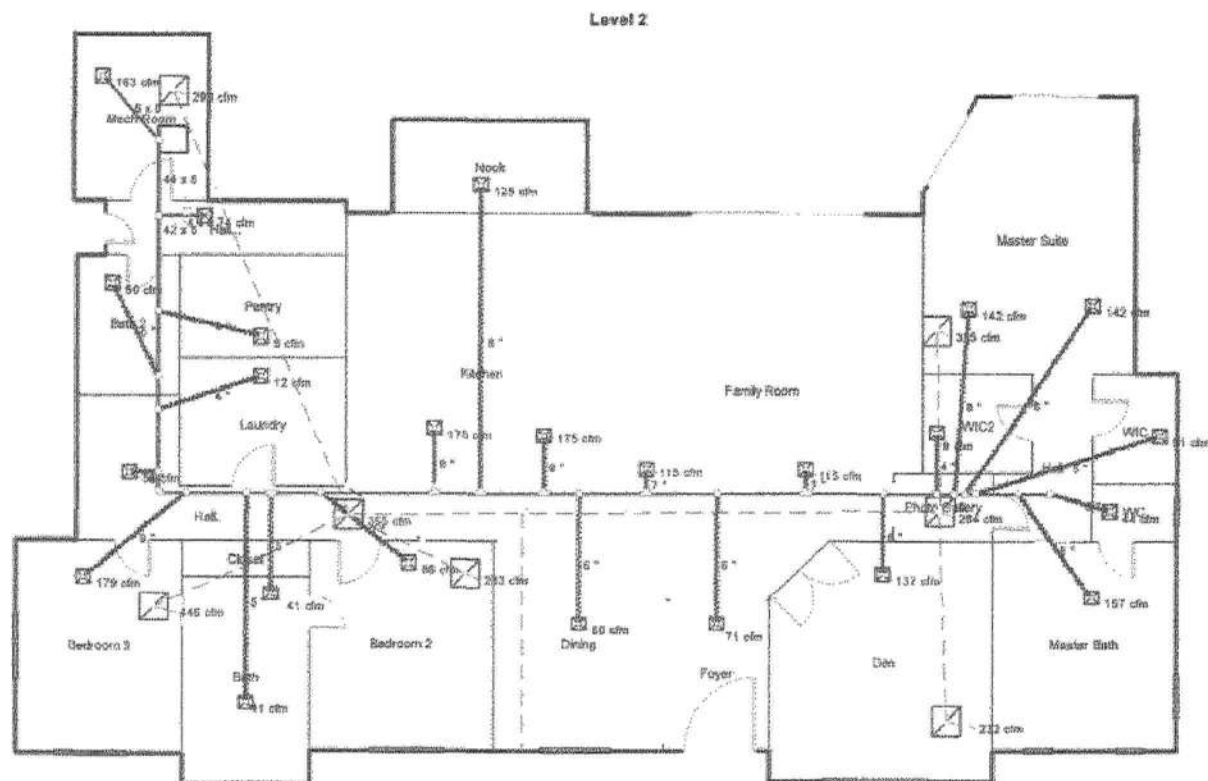
Make	Amana
Trade	ASZC16 SERIES
Model	ASZC160601A*
ARI ref no.	3611062
Efficiency	9.8 HSPF
Heating input	57000 Btuh @ 47°F
Heating output	27 °F
Temperature rise	1900 cfm
Actual air flow	0.039 cfm/Btuh
Air flow factor	0.50 in H2O
Static pressure	
Space thermostat	

Cooling Equipment Summary

Make	Amana
Trade	ASZC16 SERIES
Cond	ASZC160601A*
Coil	CA*F4961*6A*++MBVC2000*-1A*+TXV
ARI ref no.	3611062
Efficiency	12.2 EER, 16 SEER
Sensible cooling	39900 Btuh
Latent cooling	17100 Btuh
Total cooling	57000 Btuh
Actual air flow	1900 cfm
Air flow factor	0.047 cfm/Btuh
Static pressure	0.50 in H2O
Load sensible heat ratio	0.87

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.





Job #: Summers Acres Lot 2
Performed by TH Nanke for:

Kara Sutton
 320 NE Santa Fe Blvd
 Newberry, FL 32869
 Phone: 352-318-9884 Fax: 352-371-0171
 kara@suttonfamilyhomes.com

Florida Air Gas & Water Services

6605 SW Archer Rd.
 Gainesville, FL 32608
 Phone: 352-367-8247 Fax: 352-495-2767

Scale: 1 : 141

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Duct System Summary

Entire House

Florida Air Gas & Water Services

Job: Summers Acres Lot 2

Date: Sep 07, 2010

By: TH Nanke

6605 SW Archer Rd., Gainesville, FL 32608 Phone: 352-367-8247 Fax: 352-495-2767

Project Information

For: Kara Sutton, Sutton Family Homes
 320 NE Santa Fe Blvd, Newberry, FL 32669
 Phone: 352-318-9864 Fax: 352-371-0171
 Email: kara@suttonfamilyhomes.com

	Heating	Cooling
External static pressure	0.50 in H ₂ O	0.50 in H ₂ O
Pressure losses	0.14 in H ₂ O	0.14 in H ₂ O
Available static pressure	0.36 in H ₂ O	0.36 in H ₂ O
Supply / return available pressure	0.18 / 0.18 in H ₂ O	0.18 / 0.18 in H ₂ O
Lowest friction rate	0.080 in/100ft	0.080 in/100ft
Actual air flow	1900 cfm	1900 cfm
Total effective length (TEL)	443 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bath	h 1042	41	29	0.080	5.0	0x0	VIFx	78.1	365.0	st3
Bath 2	h 1283	50	26	0.080	5.0	0x0	VIFx	78.1	365.0	st3
Bath-A	h 1042	41	29	0.080	5.0	0x0	VIFx	78.1	365.0	st3
Bedroom 2	h 2192	86	68	0.080	7.0	0x0	VIFx	78.1	365.0	st3
Bedroom 3	h 4566	179	158	0.080	9.0	0x0	VIFx	78.1	365.0	st3
Den	c 2917	130	137	0.080	8.0	0x0	VIFx	78.1	365.0	st3
Dining	h 2032	80	63	0.080	6.0	0x0	VIFx	78.1	365.0	st3
Family Room-A	c 2460	113	115	0.080	7.0	0x0	VIFx	78.1	365.0	st3
Family Room-B	c 2460	113	115	0.080	7.0	0x0	VIFx	78.1	365.0	st3
Foyer	h 1817	71	64	0.080	6.0	0x0	VIFx	78.1	365.0	st3
Hall	h 1384	54	36	0.080	6.0	0x0	VIFx	78.1	365.0	st3
Hall	h 1894	74	46	0.080	6.0	0x0	VIFx	78.1	365.0	st4
Kitchen-A	c 3719	25	175	0.080	9.0	0x0	VIFx	78.1	365.0	st3
Kitchen-B	c 3719	25	175	0.080	9.0	0x0	VIFx	78.1	365.0	st3
Laundry	c 250	7	12	0.080	4.0	0x0	VIFx	78.1	365.0	st3
Master Bath	h 4012	157	141	0.080	8.0	0x0	VIFx	78.1	365.0	st3
Master Suite	h 3616	142	138	0.080	8.0	0x0	VIFx	78.1	365.0	st3
Master Suite-A	h 3616	142	138	0.080	8.0	0x0	VIFx	78.1	365.0	st3
Mech Room	h 4152	163	82	0.080	8.0	0x0	VIFx	78.1	365.0	st1
Nook	h 3181	125	63	0.080	8.0	0x0	VIFx	78.1	365.0	st3
Pantry	c 201	6	9	0.080	4.0	0x0	VIFx	78.1	365.0	st3
WC	c 940	24	44	0.080	5.0	0x0	VIFx	78.1	365.0	st3
WIC	h 1294	51	28	0.080	5.0	0x0	VIFx	78.1	365.0	st3
WIC2	c 194	5	9	0.080	4.0	0x0	VIFx	78.1	365.0	st3

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3	Peak AVF	1663	1772	0.080	759	18.8	8 x 42	RectFbg	st2
st1	Peak AVF	163	82	0.080	488	7.7	8 x 6	RectFbg	
st4	Peak AVF	74	46	0.080	334	5.7	8 x 4	RectFbg	st2
st2	Peak AVF	1737	1818	0.080	744	19.0	8 x 44	RectFbg	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb5	0x0	176	446	0	0.100	568	12.0	0x 0		VIFx	
rb4	0x0	233	208	0	0.100	527	9.0	0x 0		VIFx	
rb2	0x0	325	317	0	0.100	596	10.0	0x 0		VIFx	
rb1	0x0	293	163	0	0.100	537	10.0	0x 0		VIFx	
rb6	0x0	365	269	0	0.100	669	10.0	0x 0		VIFx	
rb7	0x0	277	284	0	0.100	521	10.0	0x 0		VIFx	
rb3	0x0	232	212	0	0.100	524	9.0	0x 0		VIFx	

Installation Guide/Guía de instalación



for Andersen® 100 Series Single-Hung, Casement, Awning, Gliding, Fixed, Combination Windows and Patio Door Transoms with Installation Flanges

para ventanas de guillotina simple, batientes, con dintel, corredizas, fijas y diseños de combinación y antepechos de puertas para patios con bridas de instalación de la serie 100 de Andersen

Thank you for choosing Andersen. / Gracias por elegir Andersen.

Instructions are for typical, new wood-framed wall construction with weather protection in place.

Instructions may not be right for all installations due to building design, construction materials or methods used and/or building or site conditions. Consult a contractor or architect for recommendations.

Flanges on the unit alone will not properly flash and seal the window. Follow these instructions carefully.

For questions call 1-888-888-7020 Monday - Friday, 7 a.m. to 7 p.m. and Saturday, 8 a.m. to 4 p.m. central time.

For more information and/or guides visit andersenwindows.com.

Please leave this guide with building owner.

Las instrucciones son para construcción nueva en paredes con marco de madera que cuentan con protección contra la intemperie.

Es posible que las instrucciones no sean las adecuadas para todas las instalaciones debido al diseño del edificio, los materiales de construcción o los métodos utilizados, y/o las condiciones de la obra o el edificio. Consulte a un constructor o arquitecto para obtener recomendaciones.

Las bridas en la unidad no proporcionarán por sí mismas un flashing ni sellarán la ventana de manera adecuada. Siga las siguientes instrucciones cuidadosamente.

Si tiene alguna pregunta llame al 1-888-888-7020 de lunes a viernes, de 7 a.m. a 7 p.m., hora del centro, y los sábados de 8 a.m. a 4 p.m., hora del centro.

Para obtener más información y/o guías, visite andersenwindows.com.

Deje esta guía con el dueño de la construcción.

▶ Read guide from beginning to end before starting installation. Read all warnings and cautions during unit installation.

Lea completamente la guía antes de comenzar la instalación. Lea y respete todas las advertencias y precauciones durante la instalación de la unidad.

Parts Included / Partes incluidas

- Window / Ventana
- Installation Guide / Guía de instalación
- Warranty Card / Tarjeta de garantía

Tools Needed / Herramientas necesarias

- Safety glasses / Gafas de protección
- Tape measure / Cinta métrica
- Level / Nivel
- J-Roller / Rodillo tipo J
- Putty knife / Espátula
- Utility knife / Cuchilla de uso general
- Hammer / Martillo
- Isopropyl Alcohol / Alcohol isopropílico
- Cleaning Cloth / Paño para limpiar
- Staple gun / Pistola engrapadora
- Drill/Driver / Taladro/destornillador
- Caulk gun / Pistola para calafatear

Supplies Needed / Suministros necesarios

(A) Formable self-adhering sill flashing* / Flashing para riel auto-adherente moldeable*

(B) Flashing* / Flashing*

* Or other flashing method/material recommended by a contractor or architect. Unit flanges do not take the place of flashing.

* O bien otro método/material de flashing recomendado por el contratista o arquitecto. Las bridas de la unidad no reemplazan el flashing.

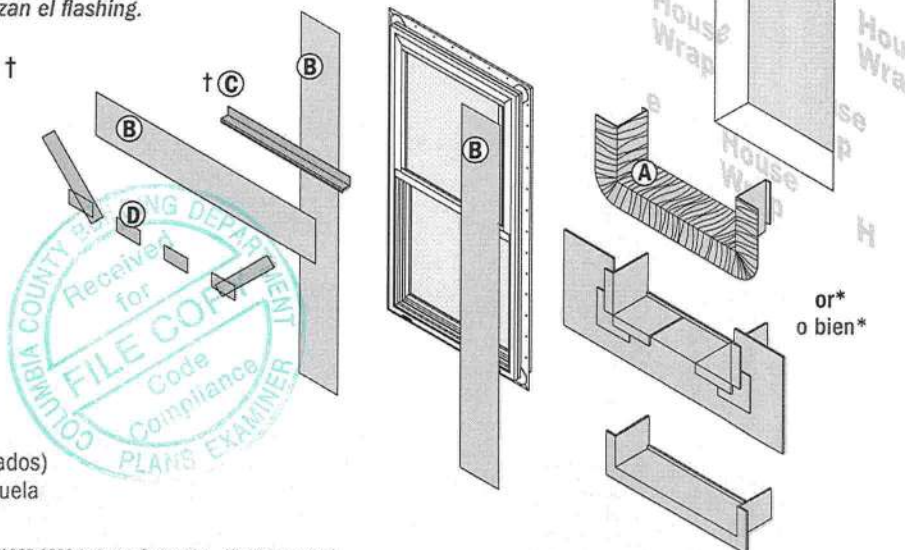
(C) Drip cap (full width) † / Tapa de goteo (ancho total) †

† Included for factory joined ribbon combinations

† Incluida para combinaciones de bandas unidas por la fábrica

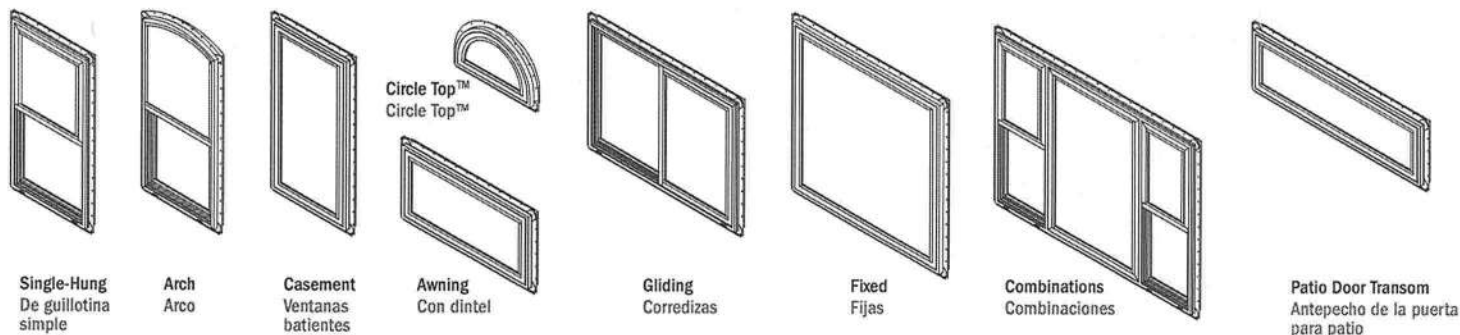
(D) House wrap tape / Cinta para sellar "House wrap"

- Foam backer rod / Varilla sellador de espuma
- Sealant / Sellador
- Isopropyl Alcohol / Alcohol isopropílico
- Cleaning Cloth / Paño para limpiar
- Low expanding foam (optional) / Espuma de baja expansión (opcional)
- Shims (waterproof) / Cuñas (impermeables)
- Fasteners (see approved fastener chart) / Sujetadores (consulte la tabla de sujetadores aprobados)
- Roofing Nail/Cap Nail / Clavo para techo/clavo tachuela



- Combination units must be individually supported to the rough opening.
Las unidades de combinación deben tener soporte individualmente al tamaño del buque.
- Anchoring screws must attach to framing member.
Los tornillos de anclaje deben ir ajustados al miembro estructural.

Unit Identification / Identificación De La Unidad



⚠ WARNING / ADVERTENCIA

Use caution when working at elevated heights and around unit openings. Follow manufacturers' instructions for ladders and/or scaffolding. Failure to do so may result in injury or death.

Sea cauteloso al trabajar en lugares elevados y cerca de las aberturas de la unidad. Siga las instrucciones del fabricante para el uso de escaleras y/o andamios. Si no lo hiciera, podrían producirse lesiones o la muerte.

⚠ WARNING / ADVERTENCIA

Follow manufacturers' instructions for hand or power tools. Always wear safety glasses. Failure to do so may result in injury and/or product damage.

Siga las instrucciones del fabricante para el uso de herramientas eléctricas o manuales. Utilice siempre gafas de seguridad. Si no lo hiciera, podrían producirse lesiones y/o daños al producto.

CAUTION / PRECAUCIÓN

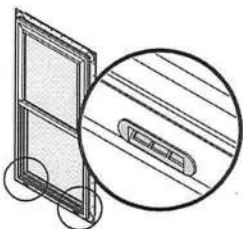
Do not remove screws that attach installation clips or gusset plates to window frames. Product/property damage may result.

No retire los tornillos que van ajustados a las abrazaderas de instalación o las placas de refuerzo a los marcos de las ventanas. El producto y/o la propiedad se pueden dañar.

CAUTION / PRECAUCIÓN

Do not cover weep holes. Property damage may result.

No cubra los orificios de drenaje. Se podrían producir daños.



CAUTION / PRECAUCIÓN

Do not set unit directly on installation flange. Product damage may result.

No coloque la unidad directamente sobre las bridas de instalación. El producto se puede dañar.

CAUTION / PRECAUCIÓN

Do not drill or fasten through sill. Product and/or property damage will result.

No realice perforaciones ni ajuste a través del riel. Pueden provocarse lesiones y/o daños al producto.

CAUTION / PRECAUCIÓN

Do not over drive screws or nails. Product damage may result.

No cubra los tornillos de fijación ni los clavos. El producto se puede dañar.

CAUTION / PRECAUCIÓN

Follow instructions of foam, sealant and flashing manufacturer regarding material application and compatibility with this product.

Siga las instrucciones del fabricante correspondientes al flashing y al sellador de espuma, con respecto a la aplicación y su compatibilidad con este producto.

Fasteners / Sujetadores

⚠ WARNING / ADVERTENCIA

Metal fasteners and components may corrode when exposed to preservative-treated and/or fire-retardant treated lumber. Use approved fasteners and components to fasten unit. Failure to do so may cause a failure resulting in injury, property or product damage.

Los componentes y los sujetadores de metal pueden corroerse cuando quedan expuestos a madera tratada con retardador de fuego y con preservante. Utilice los componentes y/o sujetadores apropiados para ajustar la unidad. Si esto no se respeta, se pueden producir lesiones o daños al producto o a la propiedad.

APPROVED FLANGE, GUSSET PLATE, AND CLIP INSTALLATION FASTENER CHART (select one)

Fastener	Min Shank	Min Head	Min Length	Type of Steel	Spacing
Roofing Nail	11 ga.	5/16"	1-3/4"	galvanized, zinc plated, ceramic coated, stainless	6-8" or every other hole
Deck Screw	#6	5/16"	1-5/8"		
Gusset Plate/Installation Clip Screw	#8	5/16"	1-1/2"	galvanized, zinc plated, ceramic coated, stainless	every hole

TABLA DE BRIDAS, PLACAS DE REFUERZO, Y ABRAZADERAS DE INSTALACIÓN APROBADOS (elijá uno)

Sujetador	Espiga min.	Cabecera min.	Longitud min.	Tipo de acero	Espacio
Clavos para techado	11 ga.	5/16"	1-3/4"	galvanizado, cincado, revestido con cerámica, inoxidable	6-8" o bien en orificio de por medio
Tornillo para pórtico	#6	5/16"	1-5/8"		
Placa de refuerzo/Abrazadera de instalación Tornillo	#8	5/16"	1-1/2"	galvanizado, cincado, revestido con cerámica, inoxidable	en cada orificio

Glass / Vidrio

- ▶ Tempered or laminated safety glass is not standard and must be special ordered. Check local building codes.
- ▶ Argon gas blend not available with high altitude glass.

- ▶ Los vidrios de seguridad templados o laminados no son estándar y se requiere un pedido especial. Consulte los códigos de construcción locales.
- ▶ La película protectora y el revestimiento exterior no se encuentran en todas las unidades.

Cleaning / Limpieza

CAUTION / PRECAUCIÓN

Acid solutions used for cleaning masonry or concrete will damage glass, fasteners, hardware, and metal flashing. Protect unit and follow cleaning product instructions carefully. If acid contacts unit, wash all surfaces with water immediately.

Las soluciones ácidas que se utilizan para limpiar la mampostería o el concreto dañan el vidrio, los sujetadores, los herrajes y el flashing de metal. Proteja la unidad y siga las instrucciones de limpieza del producto con detenimiento. Si el ácido entra en contacto con la unidad, lave inmediatamente todas las superficies con agua.

CAUTION / PRECAUCIÓN

Abrasive cleaners will damage glass surface.

Los limpiadores abrasivos dañan la superficie del vidrio.

CAUTION / PRECAUCIÓN



Metal razor blades can damage glass surface.

Las paletas de metal pueden dañar la superficie del vidrio.

- ▶ Clean glass using liquid glass cleaner.
- ▶ Clean exterior frame, sash, and insect screens using mild detergent and water with a soft cloth or brush.
- ▶ For hard to clean areas use a nonabrasive cleaner, alcohol-and-water or ammonia-and-water.
- ▶ Limpie el vidrio con un limpiador líquido para vidrios.
- ▶ Limpie el marco exterior, las hojas y los mosquiteros con detergente suave y agua usando un paño o cepillo suave.
- ▶ Para las áreas difíciles de limpiar, use un limpiador no abrasivo, alcohol y agua o amoníaco y agua.

Maintenance / Mantenimiento

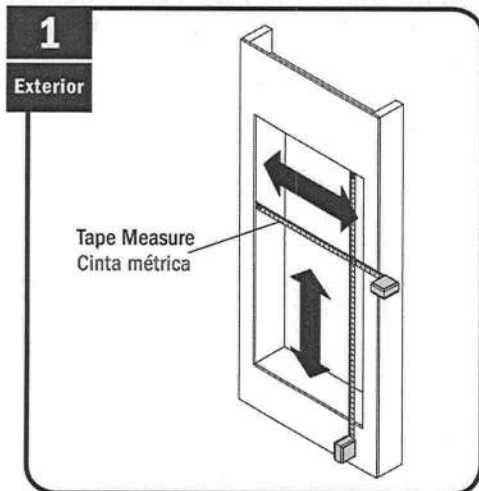
⚠ WARNING / ADVERTENCIA



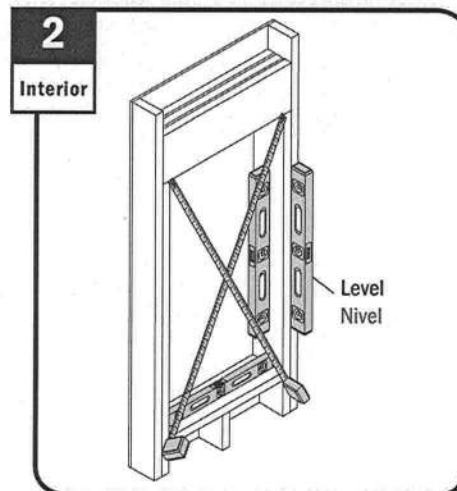
Do not install air conditioner in window. Injury and/or product or property damage may occur.

El aire acondicionado colocado en la ventana puede provocar lesiones y/o daños al producto o la propiedad.

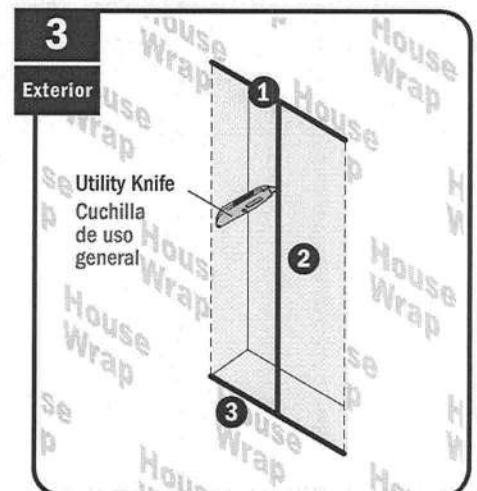
- ▶ Do not apply any type of film to insulating glass. Thermal stress and glass damage can result. Shading devices (insulated coverings, shutters, etc.) may also cause thermal stress and condensation damage.
- ▶ No aplique ningún tipo de película a los vidrios aislantes. Se puede producir falla térmica y otros daños en los vidrios. Las cortinas aislantes, shutters, etc. pueden provocar falla térmica y daños por condensación.
- ▶ For more information, contact your local Andersen dealer or www.andersenwindows.com
- ▶ For continued weather resistance of sealant joints, follow the sealant manufacturer's recommendations for periodic maintenance
- ▶ Para obtener más información, comuníquese con su distribuidor de Andersen local o visite www.andersenwindows.com
- ▶ Para obtener una resistencia prolongada a la intemperie de las juntas de sellado, siga las recomendaciones del fabricante del sellador para el mantenimiento periódico.



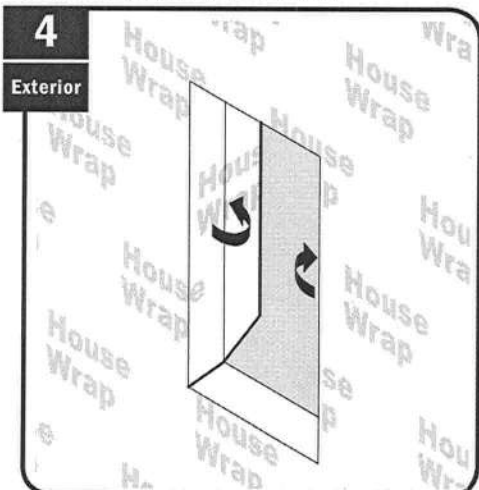
Check opening size. Allow for flashing thickness, and/or installation clips or joining fasteners. Verifique el tamaño de la abertura. Tenga en cuenta el espesor del flashing, y/o las abrazaderas de instalación y sujetadores de unión.



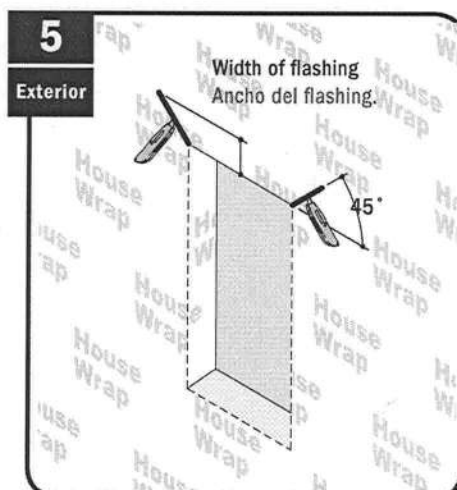
Check plumb, level, square. Diagonals must be within 1/8". Verifique la plomada, el nivel y la escuadra. Las diagonales deben estar entre 1/8".



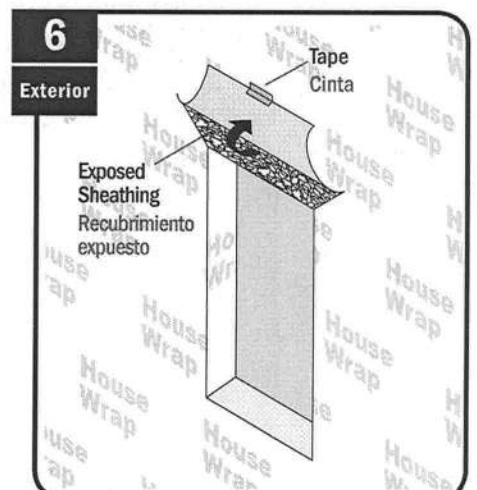
Cut house wrap. Corte el house wrap.



Fold in and staple. Doble y engrape.



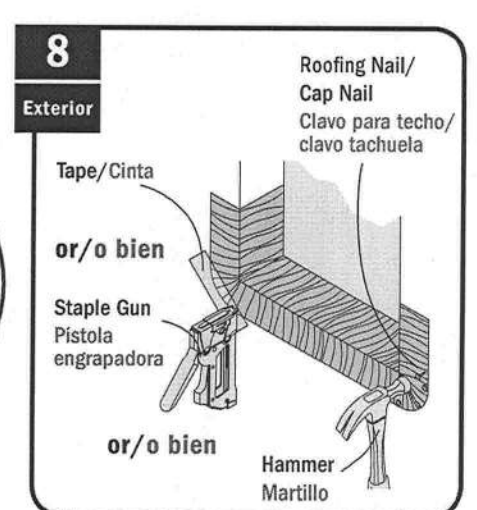
Cut and create top flap from house wrap. Corte y cree una pestaña superior con cinta para envolver.



Fold flap up and tape. Doble la pestaña hacia arriba y coloque cinta.



Apply flashing at sill. Aplique el flashing en el riel.

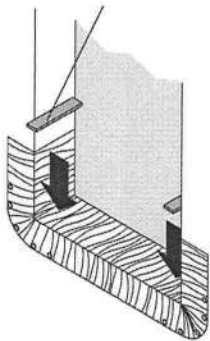


Staple, nail or tape corners. Engrape, clave o encinte las esquinas.

9

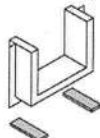
Exterior

Shim
Cuña

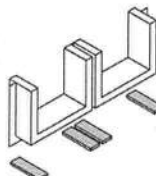


Sill Shim Locations / Ubicaciones de las cuñas del riel

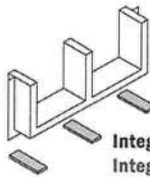
(interior view)
(vista interior)



Single/Joined (stack)
Simple/combinada
(pilas)



Joined (ribbon)
Combinada
(banda)



Integral (ribbon)
Integral (banda)



Gliding
Corredizas

Set shims at sill, as shown.

Coloque las cuñas en el riel como se muestra

10

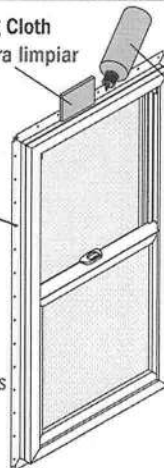
Interior

Cleaning Cloth
Paño para limpiar

Isopropyl
Alcohol
Alcohol
isopropílico

Installation
Flange
clean (both
sides) full
perimeter

Brida de
instalación
limpie todo el
perímetro (ambos
laterales)



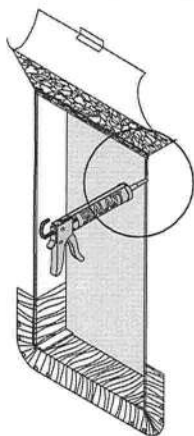
Clean installation flange (both sides) full perimeter with isopropyl alcohol.

Limpie todo el perímetro de la brida de instalación (ambos laterales) con alcohol isopropílico.

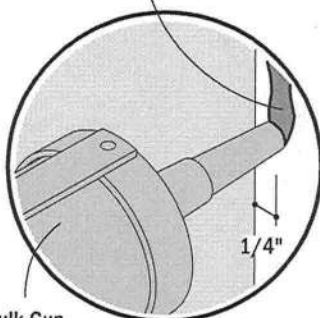
11

Exterior

1/4" Sealant Bead
Listón de sellador de 1/4"



Caulk Gun
Pistola para calafatear



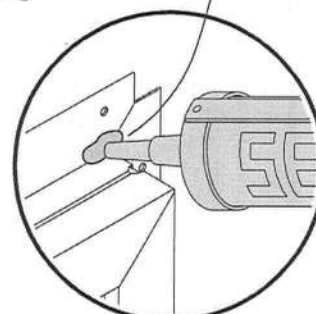
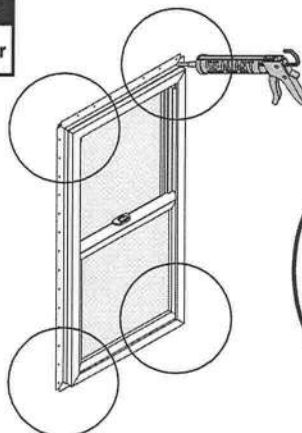
Apply sealant at **sides and top only**.

Aplique sellador únicamente en los lados y la parte superior.

12

Interior

Sealant
Sellador



Apply sealant at **corners**.

Coloque sellador en las esquinas.

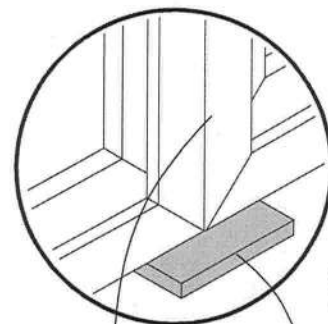
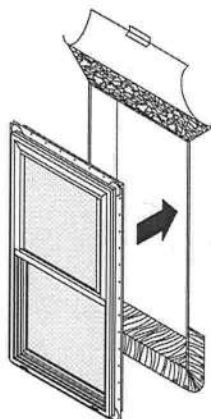
13

Exterior

⚠ WARNING / ADVERTENCIA

Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry and install window and door products to avoid injury and/or product damage.

Las puertas y las ventanas pueden ser pesadas. Utilice técnicas seguras de levantamiento de peso y un número razonable de personas con suficiente fuerza para levantar, cargar e instalar los productos de puertas y ventanas, a fin de evitar lesiones y/o daños al producto.



Integral Jamb
Jamba integral

Shim
Cuña

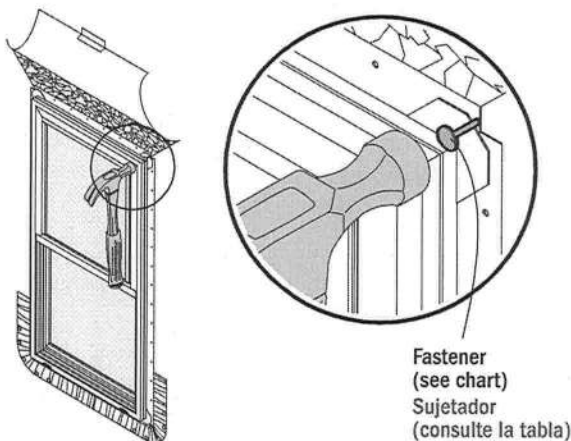
(interior view)
(vista interior)

Center window in opening on shims.

Centre la ventana en las aberturas sobre las cuñas.

14

Exterior



Temporarily fasten top corner.
Sujete la esquina superior temporalmente.

15

Interior

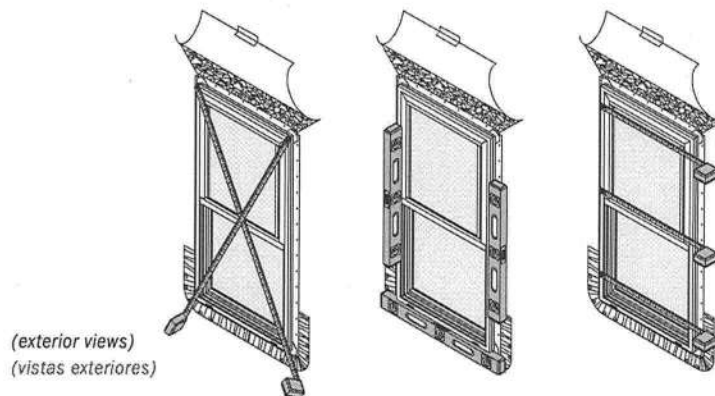
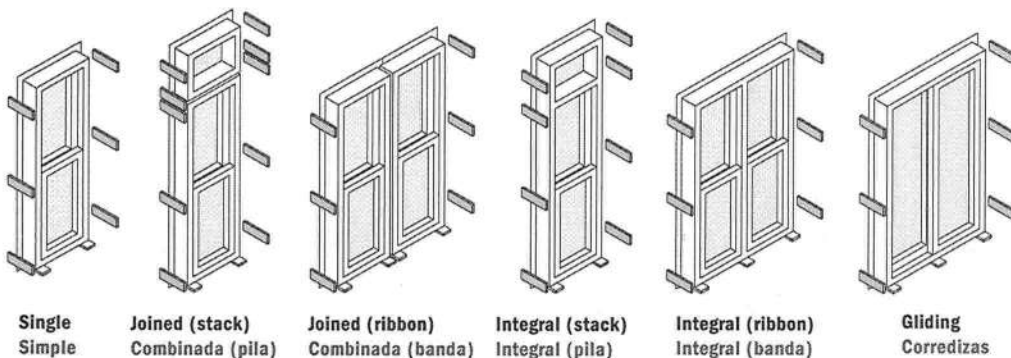
⚠ WARNING / ADVERTENCIA

Support window in opening while shimming.
Failure to do so may result in injury and/or
product/property damage.

Sostenga la ventana abierta mientras coloca las
cuñas. De no hacerlo así, podrían producirse
lesiones y/o daños al producto/propiedad.

**Side Shim Locations/
Ubicaciones de las cuñas laterales**

Close and lock sash.
Cierre y bloquee la hoja.

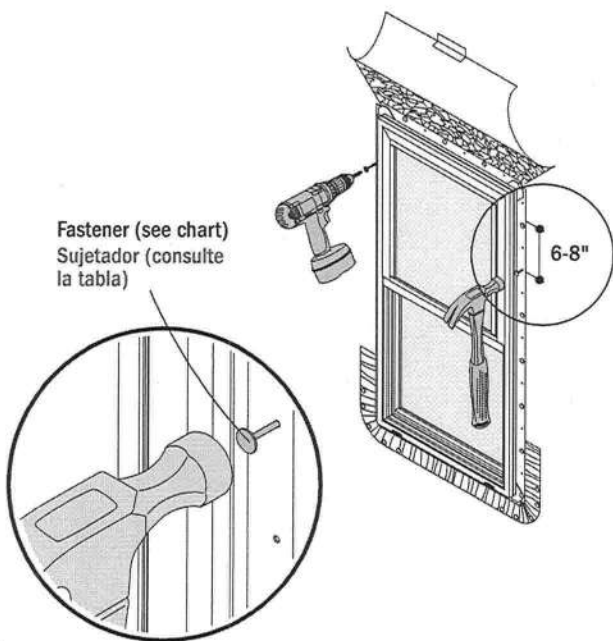


Shim sides. **Do not shim at top.** Check plumb, level, square. Adjust shims as needed until measurements are within 1/8".
Coloque cuñas en los laterales. **No coloque cuñas en la parte superior.** Verifique la plomada, el nivel y la cuadratura. Ajuste las cuñas según sea necesario hasta que las medidas estén dentro de 1/8".

CAUTION / PRECAUCIÓN

Installation screws, nails and/or gusset plates must be securely attached to the rough opening. Failure to do so will reduce the structural performance to less than published values resulting in product/property damage.

Los tornillos de instalación, clavos y/o placas de refuerzo deben estar ajustados firmemente a la abertura no acabada. De no hacerlo así, el desempeño estructural se reducirá por debajo de los valores publicados, lo que podría causar daños en el producto/propiedad.



Fastener (see chart)
Sujetador (consulte la tabla)

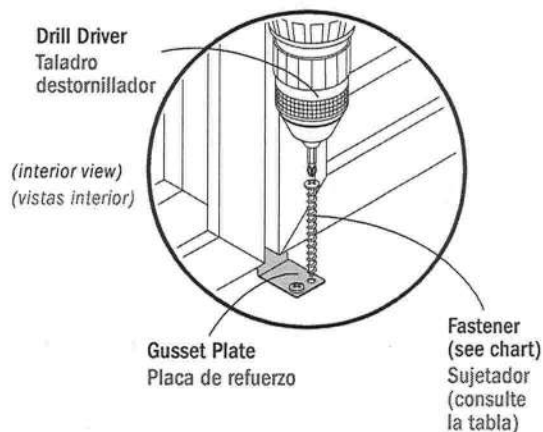
Fasten through installation flange on all sides.
Ajuste todos los laterales por medio de la brida de instalación.

CAUTION / PRECAUCIÓN

If fastening through sill pan, seal at fastener location following sill pan manufacturer's recommendation. Failure to do so may result in product/property damage.

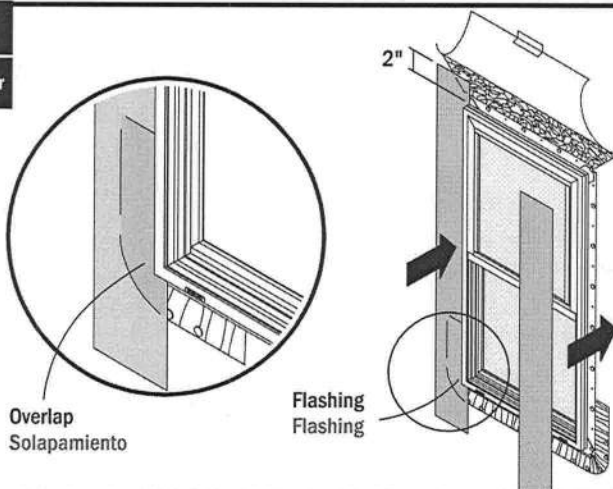
Si realiza el ajuste a través de la placa del riel, coloque sellador en la ubicación del sujetador siguiendo las recomendaciones del fabricante de la placa del riel. De no hacerlo así, podrían producirse daños al producto/propiedad.

Joined Units Only / Sólo unidades unidas



Fasten through gusset plates.
Ajuste a través de las placas de refuerzo.

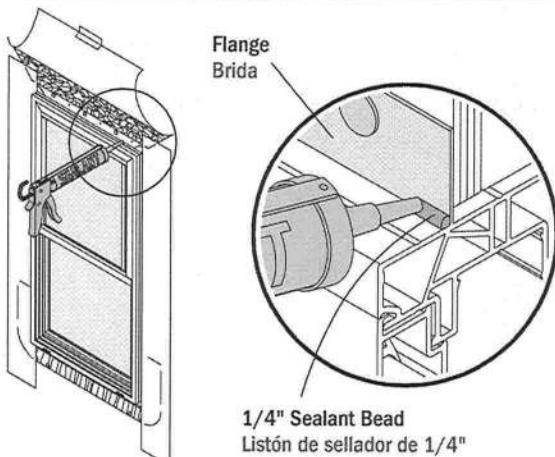
Fasten on all sides.
Ajuste en todos los laterales.



Apply flashing at sides, overlapping sill flashing.
Aplique flashing en los laterales, sobreponiéndolo sobre el flashing para riel.

18

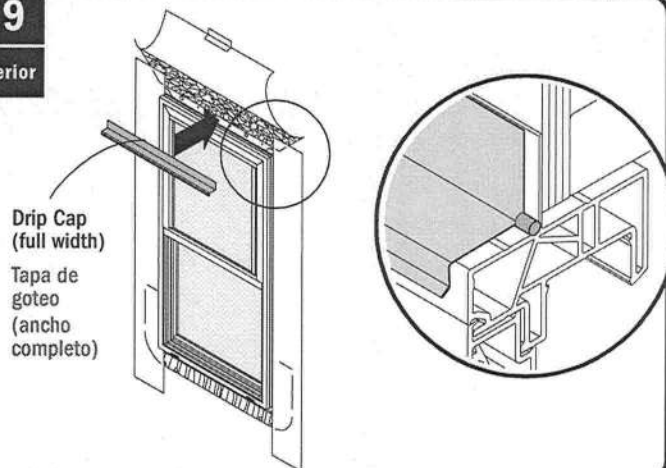
Exterior



Apply sealant at top only. Quickly go to next step.
Selle **únicamente los lados y la parte superior**. Pase rápidamente al siguiente paso.

19

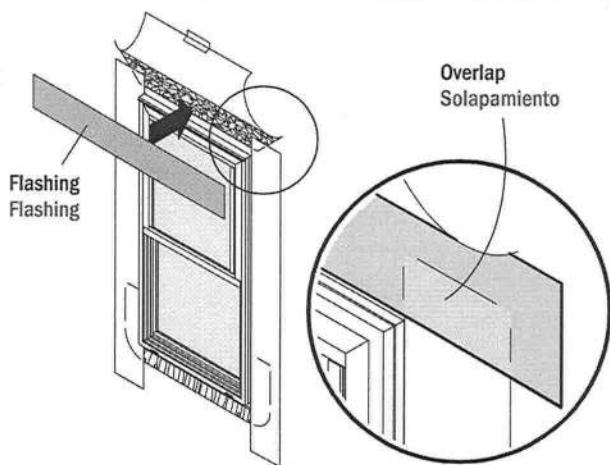
Exterior



Place drip cap (full width) in sealant, centering over unit(s).
Coloque la tapa de goteo (ancho completo) en el sellador y centre sobre la/s unidad/es.

20

Exterior



Apply flashing over drip cap leg, overlapping side flashing.
Aplique el flashing sobre la pata de la tapa de goteo, sobreponiéndolo sobre el flashing de la peana.

21

Exterior



Fold house wrap down and tape.
Doble el house wrap hacia abajo y coloque cinta.

22

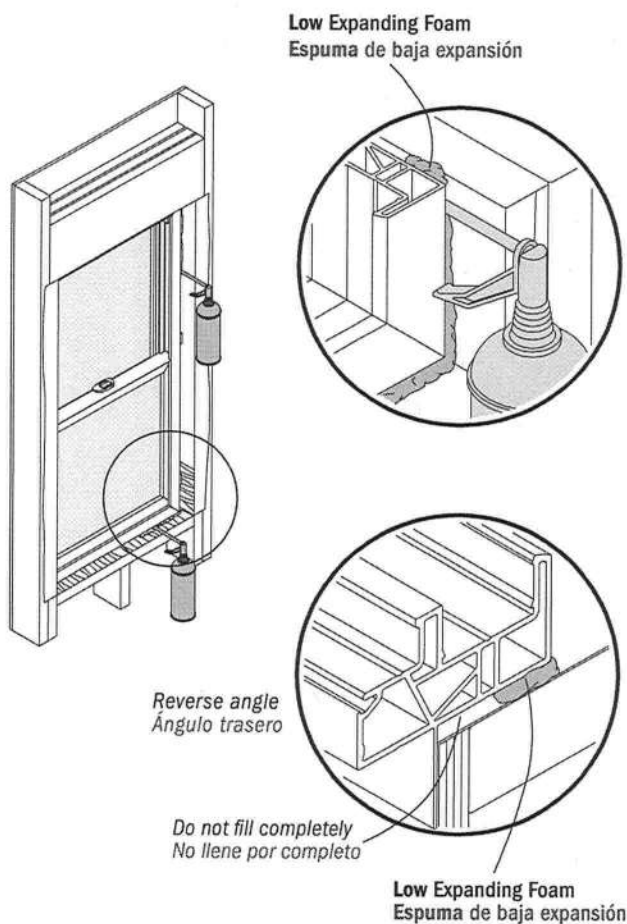
Interior



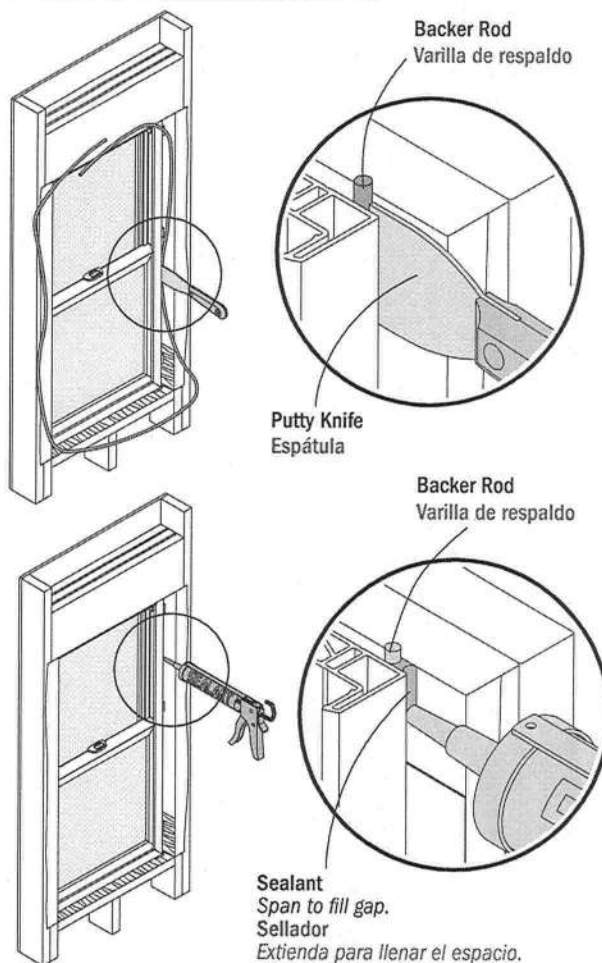
Cut shims flush.
Corte las cuñas emparejando.

CAUTION / PRECAUCIÓN

Do not overfill with low expanding foam or over pack with backer rod to avoid bowed jambs.
No sobrecargue con espuma de baja expansión ni lo empaque en exceso con una varilla de respaldo para evitar que se pandeen las jambas.



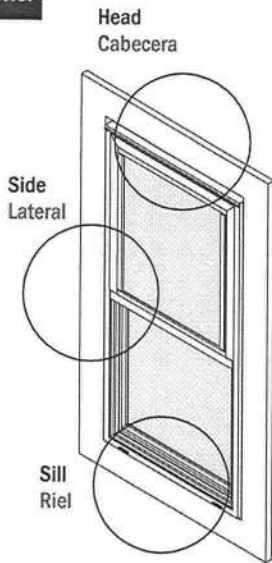
or/
o bien



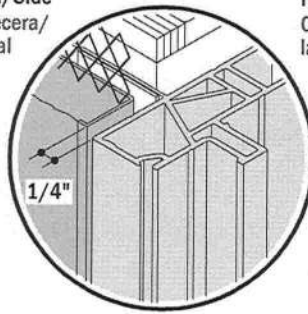
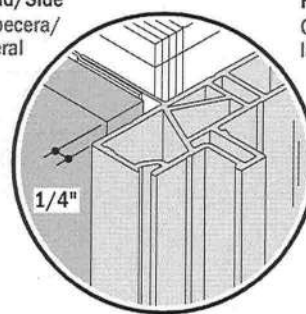
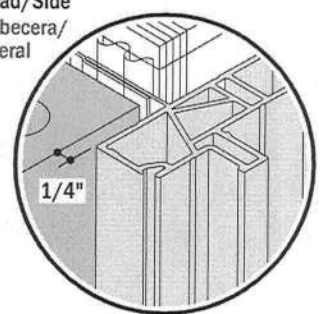
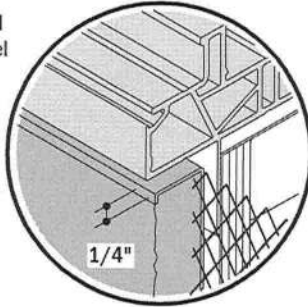
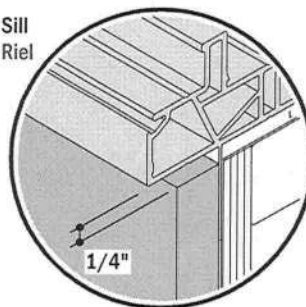
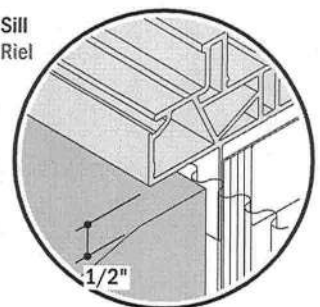
Seal all sides. **Do not completely fill void at sill to allow for drainage.**
Selle todos los lados. **No rellene totalmente el espacio en el riel para permitir el drenaje.**

or/
o bien

Insert backer rod to all sides. Apply sealant to all sides.
Introduzca la varilla de respaldo en todos los laterales.
Aplique sellador en todos los laterales.

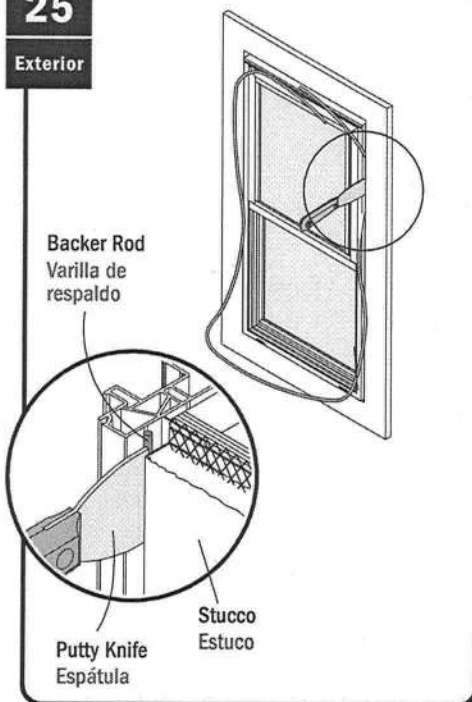


DO NOT use frame as stucco screed
NO utilice el marco como enrase del estuco

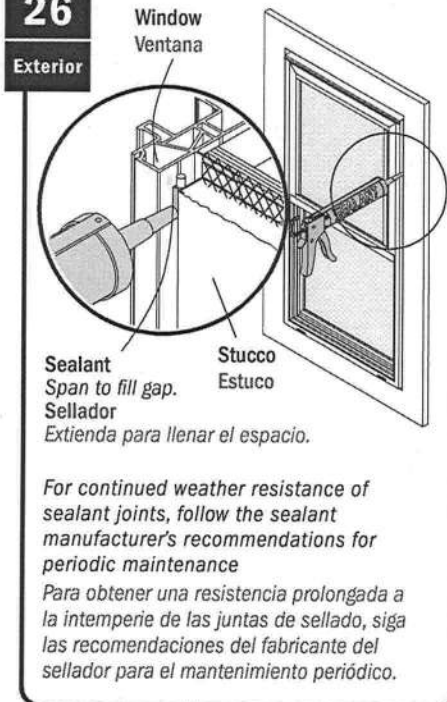
Head/Side
Cabecera/
lateralHead/Side
Cabecera/
lateralHead/Side
Cabecera/
lateralSill
RielSill
RielSill
RielStucco
EstucoTrim/Siding
Contramarco/revestimientoBrick
Ladrillo

Leave gap between exterior trim/siding/stucco/brick and window for sealing.
Deje un espacio entre el contramarco/el revestimiento/el estuco/el ladrillo exterior y la ventana para el sellado.

After exterior cladding is applied / Luego se aplica el revestimiento exterior

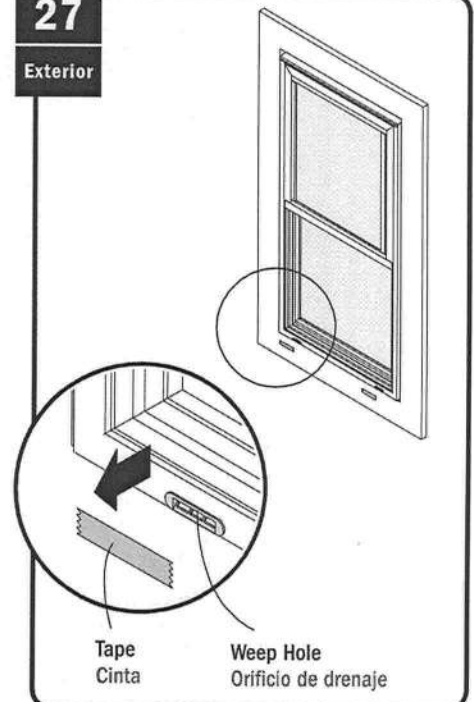
Backer Rod
Varilla de
respaldoPutty Knife
EspátulaStucco
Estuco

Insert backer rod to all sides.
Introduzca la varilla de respaldo en todos los laterales.

Window
VentanaSealant
Span to fill gap.
Sellador
Extienda para llenar el espacio.Stucco
Estuco

For continued weather resistance of sealant joints, follow the sealant manufacturer's recommendations for periodic maintenance.
Para obtener una resistencia prolongada a la intemperie de las juntas de sellado, siga las recomendaciones del fabricante del sellador para el mantenimiento periódico.

Apply sealant to all sides.
Aplique sellador en todos los lados.

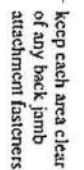
Tape
CintaWeep Hole
Orificio de drenaje

Remove tape over weep holes.
Retire la cinta que se encuentra sobre los orificios de drenaje.

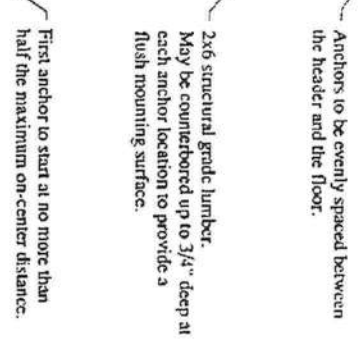
► Window installation is complete.
La instalación de la ventana está completa.

Maximum load per jamb = 0.5 x door width x max positive pressure x door height

John E. Jactz
12/17/08
F.B. Pig 51731



Door Width	Zone / Max Positive Pressure	Maximum Fastener On-Center Spacing	Southern Yellow Pine*	Spruce Pine Fir†
16	Zone 1 / 12.4	24	24	24
	Zone 2 / 15.3	24	24	24
	Zone 3 / 18.7	24	22	22
	Zone 4 / 22.2	24	19	19
	Zone 5 / 26.2	21	16	16
16	Zone 6 / 30.1	19	14	14
	Zone 7 / 34.5	16	12	12
	Zone 8 / 39.5	14	11	11
	Zone 9 / 42.1	13	10	10
	Zone 10 / 48.2	12	9	9
18	Zone 1 / 12.4	24	24	24
	Zone 2 / 15.3	24	24	24
	Zone 3 / 18.7	24	20	20
	Zone 4 / 22.2	22	17	17
	Zone 5 / 26.2	19	14	14
18	Zone 6 / 30.1	17	13	13
	Zone 7 / 34.5	15	11	11
	Zone 8 / 39.5	13	10	10
	Zone 9 / 42.1	12	9	9
	Zone 10 / 48.2	11	8	8



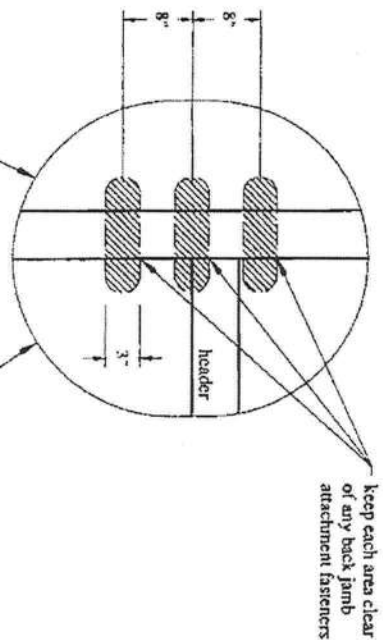
Calculation reference: DASHMA TDS # 61C, 2005 AF&PA NDS for Wood Construction and Simpson Strong-Tie data.

	SCALE	NONE
	DATE	
COVERHEAD DOORS		
Back Jamb Attachment Detail Concrete Expansion Anchor		
C.H.I. Drawing: BJA-003-03		

2000 psi minimum poured concrete wall.
 Southern Yellow Pine specific gravity = 0.55; allowable load per anchor = 336 lbs.
 Spruce Pine Fir specific gravity = 0.42; allowable load per anchor = 274 lbs.
 Washer: 3/8" dia x 3" long Simpson Strong-Tie Sleeve-All.
 Anchor: 7/8" O.D. / 7/16" I.D. min; must conform to ANSI B18.22.1 type A.
 3" minimum anchor edge distance required.
 1-1/2" minimum embedment required.
 Maximum spacing shown in chart. Lesser spacing may be used to avoid interference with door component system.
 Spring pad connection not included.
 Maximum load per jamb = 0.5 x door width x max positive pressure x door height

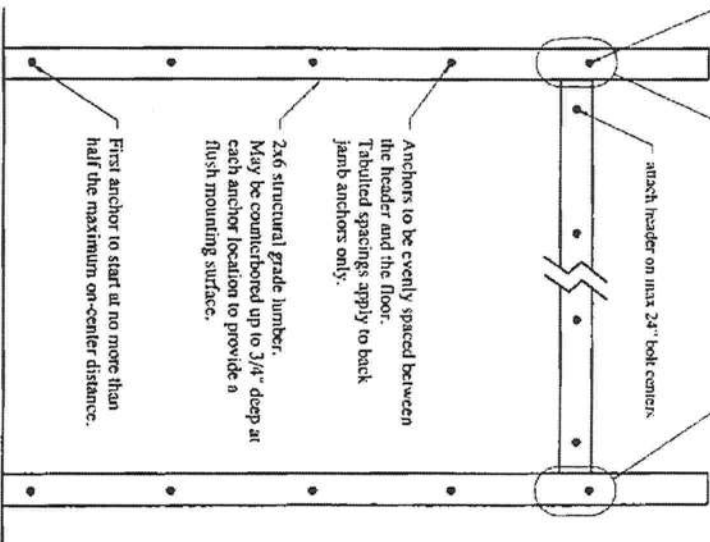
John E. Hester
 2/17/08
 F.E. 3.17.37.1

Highest anchor installed at least as high as door opening.



Door Width	Zone / Max Positive Pressure	Maximum Fastener On-Center Spacing Southern Yellow Pine*	Spruce Pine Fir*
9	Zone 1 / 12.8	24	24
	Zone 2 / 15.9	24	24
	Zone 3 / 19.5	24	24
	Zone 4 / 23.2	24	24
	Zone 5 / 27.3	24	24
	Zone 6 / 31.4	24	24
	Zone 7 / 36.0	24	21
	Zone 8 / 38.7	24	19
	Zone 9 / 44.3	21	17
	Zone 10 / 50.7	18	15
10	Zone 1 / 12.8	24	24
	Zone 2 / 15.9	24	24
	Zone 3 / 19.5	24	24
	Zone 4 / 23.2	24	24
	Zone 5 / 27.3	24	24
	Zone 6 / 31.4	24	21
	Zone 7 / 36.0	23	19
	Zone 8 / 38.7	21	17
	Zone 9 / 44.3	19	15
	Zone 10 / 50.7	16	13

Door Width	Zone / Max Positive Pressure	Maximum Fastener On-Center Spacing Southern Yellow Pine*	Spruce Pine Fir*
16	Zone 1 / 12.4	24	24
	Zone 2 / 15.3	24	24
	Zone 3 / 18.7	24	22
	Zone 4 / 22.2	23	19
	Zone 5 / 26.2	20	16
	Zone 6 / 30.1	17	14
	Zone 7 / 34.5	15	12
	Zone 8 / 39.5	13	11
	Zone 9 / 42.1	12	10
	Zone 10 / 48.2	11	9
18	Zone 1 / 12.4	24	24
	Zone 2 / 15.3	24	24
	Zone 3 / 18.7	24	20
	Zone 4 / 22.2	21	17
	Zone 5 / 26.2	18	14
	Zone 6 / 30.1	15	13
	Zone 7 / 34.5	13	11
	Zone 8 / 39.5	12	10
	Zone 9 / 42.1	11	9
	Zone 10 / 48.2	10	8



*2000 psi minimum poured concrete wall.
 Wood back jamb material is the limiting factor in faster specification.

Alternative design may be approved by a registered professional engineer.
 Supporting structural elements shall be designed by a registered professional engineer for wind loads in addition to other loads.
 Calculation reference: DASMA TDS #161B, 2005 AF&PA NDS for Wood Construction and Simpson Strong-Tie data.

CHL		SCALE
OVERHEAD DOORS		none
DATE		02-12-2008
Back Jamb Attachment Detail		
Concrete Sleeve Anchor		
C.H.I. Drawing: BJA-001-03		

FL 10410.1



Zone 3 Supplemental Instructions

Pan Doors: Carriage House

9'-0" wide

Design pressure: 19.5 pos / 22.0 neg

Test pressure: 29.3 pos / 33.0 neg

CAUTION

Higher wind pressures and larger doors require additional reinforcement.

Premature failure of door system may result from improper application.

Use these instructions only for the wind pressures and door sizes as listed above.

WARNING

These supplemental instructions do not contain basic door installation steps and related safety information.

Failure to follow basic installation steps and related safety information may result in injury or death.

Door installers must follow a primary instruction manual for basic door installation steps and related safety information.

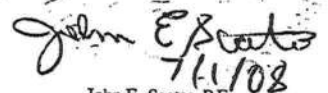
Garage door reinforcement details include:

- Top fixture type and attachment.
- Strut attachment.
- Flag bracket attachment to the wall and track system.
- Track bracket quantity and placement.
- End hinge type and attachment.
- Strut type and placement.

A locking system must be installed if the door is not electrically operated.

Stop molding is required. A minimum 2-1/2" long nail or screw must be used on an 8" spacing.

The correct selection of door and framing materials is the responsibility of the building owner/designer following local building code directives. Use of a reinforced garage door does not constitute automatic compliance with any building code. Local building code officials determine compliance criteria.



John E. Scates, P.E.
1411 LeMay Street #205
Carrollton, Texas 75007
Florida P.E. # 51737

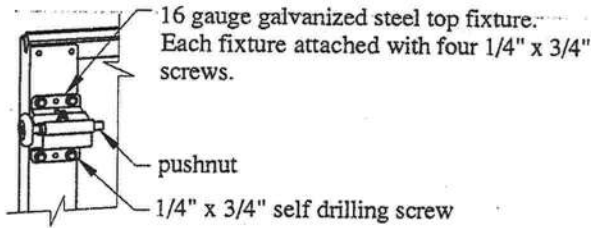
This document includes 4 pages.

Professional Engineer's seal
provided only for verification of
windload construction details

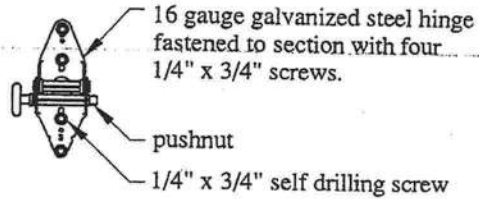
FL 10410

Top Fixture Detail

(Strut, if applicable, not shown for clarity.)

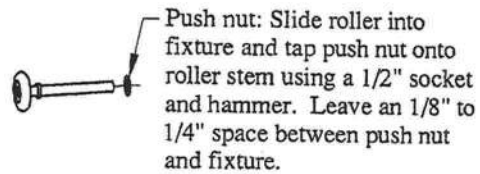


End Hinge Detail

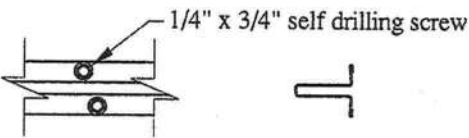


Push Nut Detail (use on all rollers)

use 3/8" I. D. on bottom fixture roller stem
use 7/16" I. D. on end hinge and top fixture roller stems

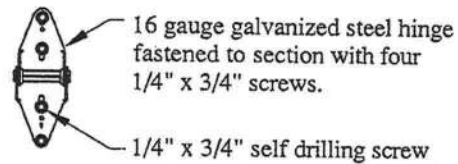


Strut Attachment Detail

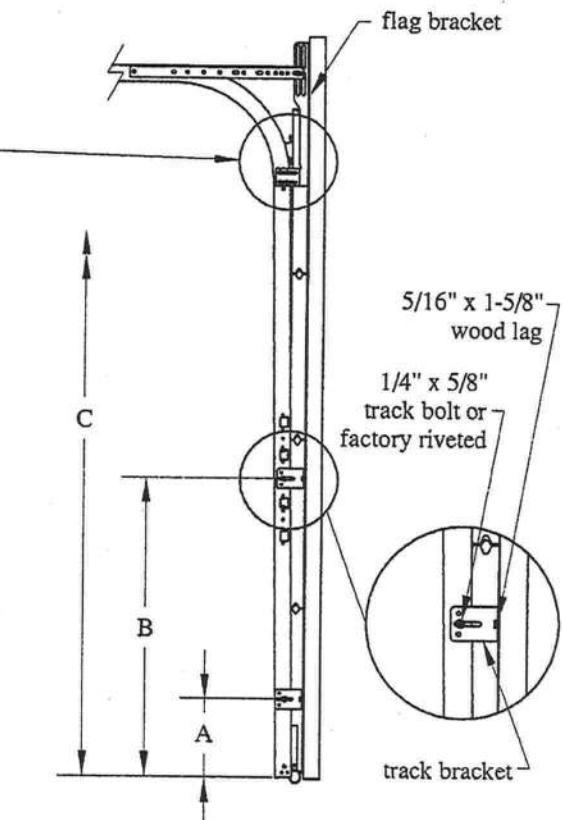
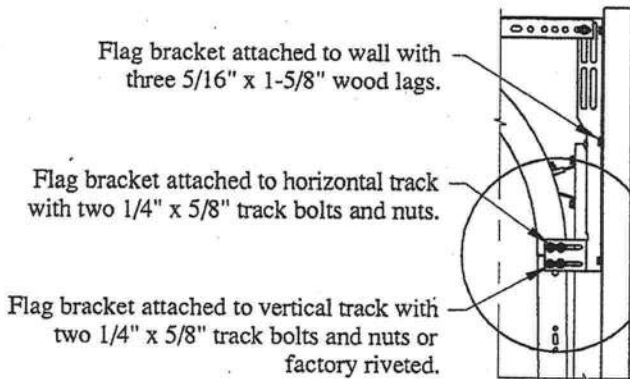


19 gauge 50ksi galvanized steel 3" strut attached with two 1/4" x 3/4" screws to every stile.

Intermediate Hinge Detail



Flag Bracket Detail



Track Bracket Locations

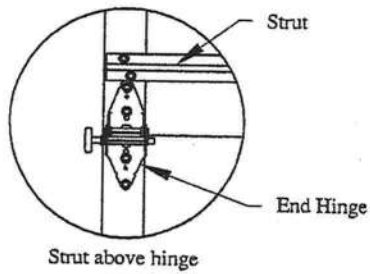
Manufacturing tolerances and actual field conditions may result in variances of +/- 1"

	door height / four sections			door height / five sections					
	6'-6"	6'-9"	7'-0"	7'-6"	7'-9"	8'-0"	8'-3"	8'-6"	8'-9"
C	n/a	n/a	n/a	58"	55"	58"	60"	63"	66"
B	35"	35"	38"	34"	31"	34"	32"	35"	38"
A	10"	7"	10"	10"	7"	10"	4"	7"	10"

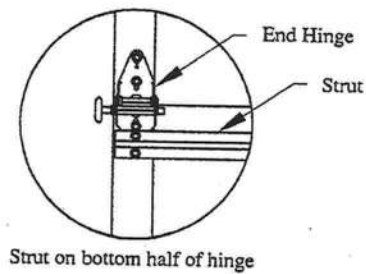
Track bracket locations shown above are for doors up to five sections high. Additional door sections may be added for a maximum door height of 14'-0". One track bracket (per track) must be added for each section and spaced at a distance not greater than the corresponding section height.

Four Section High Doors 9'-0" wide

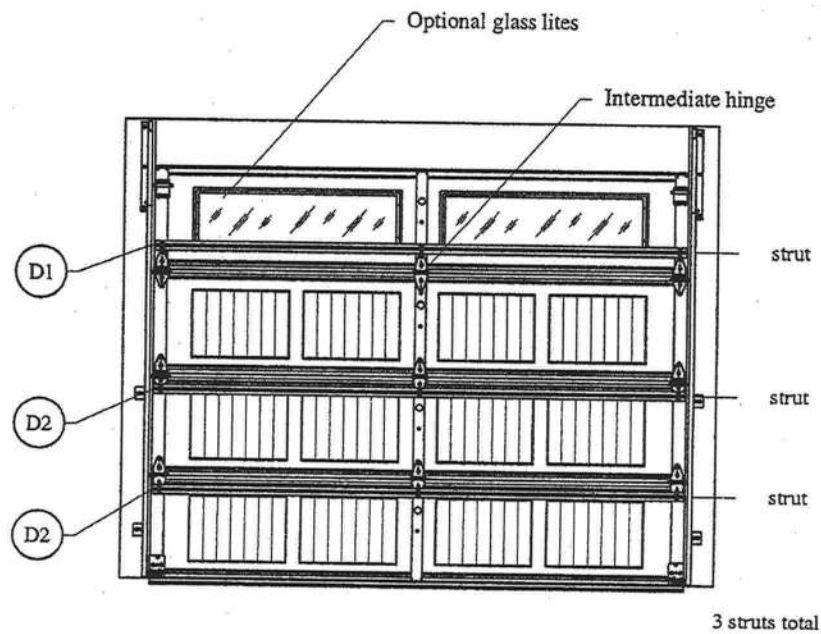
Strut Placement



Detail 1

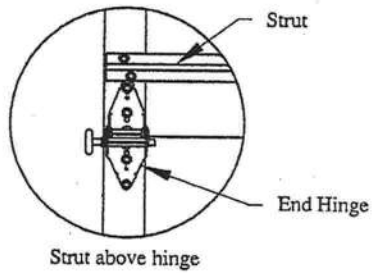


Detail 2

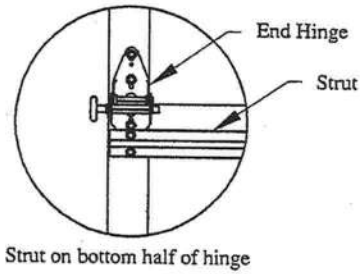


Five Section High Doors 9'-0" wide

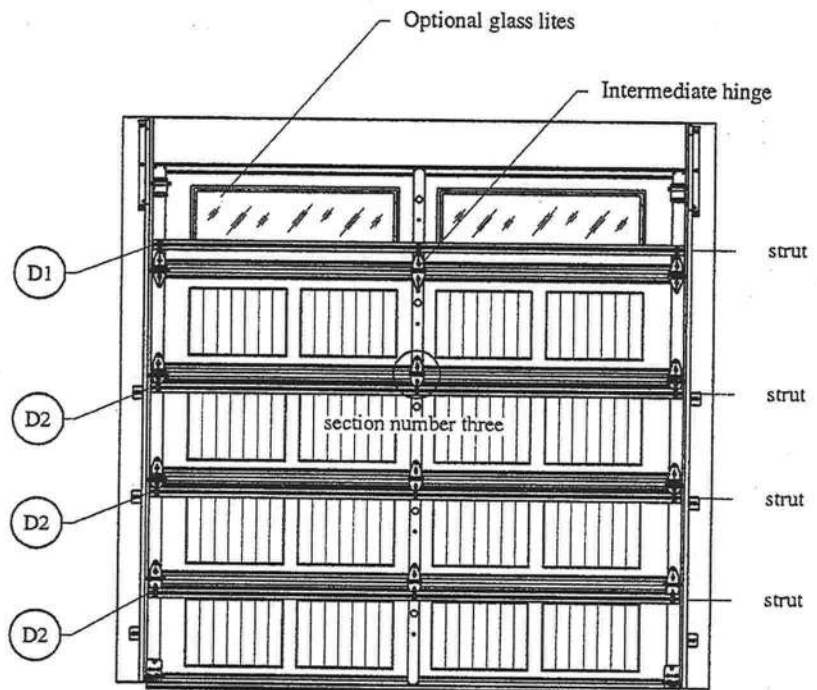
Strut Placement



Detail 1



Detail 2



Additional sections may be added for a maximum door height of 14'-0". Each additional section must have one strut as shown above in section number three and be installed above the third section.

4 struts total

Application Instructions

Other Roofing Materials You May Need

Metal Drip Edges are recommended along rake and eave edges of all decks.

Underlayment is recommended for roofing over any bare deck and is required for a Class A UL Fire Rating in most cases. Use only "breather type" material such as asphalt saturated felt or shingle underlayment classified by UL as a Prepared Roofing Accessory to assure Class A fire performance and watertight performance from wind-driven rain.

Nails must be galvanized, 11- or 12-gauge, with heads at least $\frac{3}{8}$ " in diameter.

Staples must be 16-gauge minimum, $\frac{1}{8}$ " minimum crown width and corrosion protected.

All Fasteners must be driven flush with the shingle surface and penetrate at least $\frac{3}{4}$ " into the wood deck. Where the deck is less than $\frac{3}{4}$ " thick, the fastener should be long enough to penetrate fully and extend at least $\frac{1}{2}$ " through the roof deck. **Note:** Owens Corning recommends the use of nails as the preferred method of attaching shingles to wood decking or other nailable surface.

Plastic Cement where required must meet ASTM D-4586 Type I or II (Asbestos Free).

Instrucciones de aplicación

Otros Materiales de Techado que Usted Pueda Necesitar

Las Molduras Metálicas para Orillas son recomendadas en todas las orillas de los remates y aleros de los techos. El **Bajopiso** es recomendado para techados sobre cubiertas desnudas, y en la mayoría de los casos es requerido para una clasificación de resistencia al fuego UL Clase A. Use solamente materiales "breather type" tales como Filtro saturado de asfalto o bajopiso para tejas clasificado por UL como Accesorio Preparado para Techado para asegurar su actuación como resistente al fuego UL Clase A e impermeable contra la lluvia dirigida por el viento. Los **Clavos** deben ser galvanizados, 11 ó 12 gauge, con cabezas de cuando menos $\frac{3}{8}$ " (9.5 mm) de diámetro. Las **Grapas** deben ser mínimo 16 gauge, con cuando menos $\frac{1}{8}$ " (24 mm) de ancho de corona. Las grapas deben estar protegidas contra corrosión. **Todos Los Fijadores** deben ser metidos al ras de la superficie de la teja y penetrar cuando menos $\frac{3}{4}$ " (19 mm) en la cubierta de madera. Donde la cubierta sea menor de $\frac{3}{4}$ " (19 mm) de espesor, el sujetador debe ser lo suficientemente largo para penetrar completamente y extenderse cuando menos $\frac{1}{2}$ " (3 mm) mas allá de la cubierta del techo. **Nota:** Owens Corning recomienda el uso de clavos como el método preferido para sujetar las tejas a la cubierta de madera o a cualquier otra superficie donde pueda clavarse. El **Cemento Plástico**, donde se requiera, debe ajustarse al ASTM D-4586 Tipo I ó II (Libre de Asbestos).

Caution: Roof surface may be slippery, especially when wet or icy. Use a fall protection system when installing. Wear rubber-soled shoes. Walk with care.

Falling Hazard: Secure area below work and materials on roof. Unsecured materials may slide on roof. Place on level plane or secure to prevent sliding. Wear a hard hat.

El Cuidado: El techo puede estar resbaloso, especialmente cuando está mojado o helado. Utilice un sistema de protección contra caídas durante la instalación. Use zapatos de hule. Camine con cuidado.

Peligro de caída de objetos: Por favor asegure el área que se encuentra debajo de la zona de trabajo y amarre los materiales al techo. Los materiales que no estén sujetos pueden resbalarse del techo. Colóquelos en un lugar que no tenga pendiente, o sujételos para prevenir que se resbalen. Use un casco resistente.

Deck Preparation

For Standard Slope Decks — 4" in 12" or more

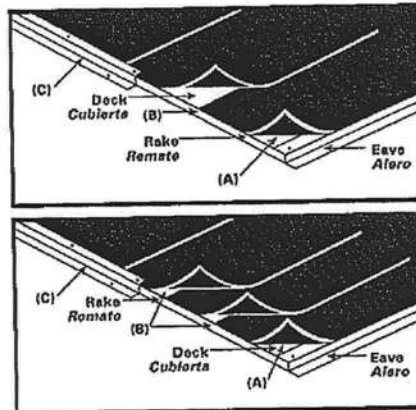
Application of underlayment, metal drip edges and eaves flashing:

(A) Apply one layer of underlayment over metal drip edge at eaves. Use only enough fasteners to hold in place.

(B) Overlap successive courses 2". Overlap course ends 4". Side laps are to be staggered 6' apart.

(C) Apply metal drip edge over underlayment at rake.

Note: Where ice-damming may cause leaks, apply Owens Corning WeatherLock® waterproofing underlayment or equivalent eaves flashing at least 24" beyond the inside wall line. When using a coated smooth roll or mineral surfaced roll roofing, apply over the underlayment. When using a specialty eaves flashing product, follow the manufacturer's instructions.



(C) Aplique las molduras metálicas para orillas sobre el bajopiso en los remates.

(continúa en la página siguiente)

Preparación de la Cubierta

Para Cubiertas de Inclinación Normal — 4" en 12" o más (100 mm en 300 mm o más)

Aplicación de bajopisos, molduras metálicas para orillas y sellador de escurrimiento:

(A) Aplique una línea de bajopiso sobre las molduras metálicas para orillas en los aleros. Use solamente los sujetadores necesarios para mantenerlo en su lugar.

(B) Traslape las líneas sucesivas 2" (50 mm). Traslape las puntas de cada línea 4" (100 mm). Los traslapes de los lados deben alternarse cada 6' (1.90 m).

(continued on next page)

Deck Preparation (cont.):

For Low Slope Decks — 2" in 12" to less than 4" in 12"

Application of underlayment, metal drip edges and eaves flashing:

(A) Apply 19" starter strip of underlayment over metal drip edge at eaves. Use only enough fasteners to hold in place.

(B) Use 36" strip of underlayment for remaining courses, overlapping each course 19". Side laps are to be staggered 6' apart.

(C) Apply metal drip edge over underlayment at rake.

Note: Where eaves flashing is required, apply Owens Corning WeatherLock waterproofing underlayment or equivalent specialty eaves flashing product or apply a continuous layer of asphalt plastic cement between the plies of underlayment at least 24" beyond the inside wall line.

Preparación de la Cubierta (cont.):

Nota: Donde la acumulación de hielo pueda causar goteras, aplique WeatherLock® waterproofing underlayment de Owens Corning o protector de escurrimiento equivalente cuando menos 24" (600 mm) mas allá de la línea de la pared interior. Cuando use rollos recubiertos lisos o rollos de superficie mineral para techado, aplíquelos sobre el bajopiso. Cuando use un producto especial para escurrimiento de aleros, siga las instrucciones del fabricante.

Para Cubiertas de Poca Inclinación — 2" en 12" a menos de 4" en 12" (50 mm en 300 mm a 100 mm en 300 mm)

Aplicación de bajopisos, molduras metálicas para orillas y protector de escurrimiento:

(A) Aplique la primera línea de bajopiso de 19" (480 mm) sobre las molduras metálicas para orillas en los aleros. Use solamente los sujetadores necesarios para mantenerlo en su lugar.

(B) Use bajopiso de 36" (900 mm) para las siguientes líneas, traslapando cada línea 19" (480 mm). Los traslapes de los lados deben alternarse cada 6' (1.90 m).

(C) Aplique las molduras metálicas para orillas sobre el bajopiso en los remates.

Nota: Donde se requiera protector de escurrimiento, aplique WeatherLock waterproofing underlayment de Owens Corning o un producto especial para escurrimiento de aleros equivalente o aplique una capa continua de cemento plástico entre las líneas de bajopiso cuando menos 24" (600 mm) mas allá de la línea de la pared interior.

2 Shingle Application

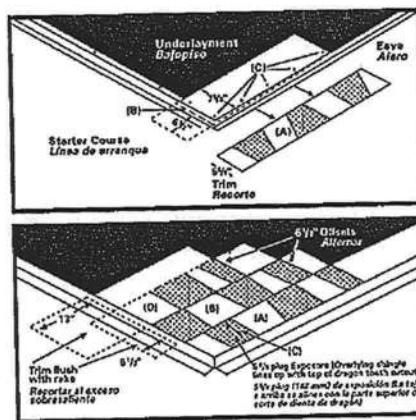
Apply shingles over properly prepared roof deck, starting at bottom of roof and working across and up. This will blend shingles from one bundle into the next and minimizes any normal shade variation. Oakridge PRO® Series shingles are applied with a 6½" offset. While a 6½" offset is recommended, any repeatable offset pattern from 4" to 8" is acceptable. Caution must be exercised to assure that end joints are no closer than 2" from a fastener in the shingle below and that side laps are no less than 4" in succeeding courses. Refer to course application steps for specific instructions. If racking application methods are used, the applicator must ensure that the proper number of fasteners is used, and use shingles from several different bundles to reduce potential for color variation.

Starter Course

(A) Trim tabs off all starter course shingles. See diagram.

(B) Trim 6½" off rake end of first shingle. Extend ¾" beyond rake and eaves and fasten.

(continued on next page)



2 Aplicación de las Tejas

Aplique las tejas sobre una cubierta para techo preparada apropiadamente, comience en la parte mas baja del techo y trabaje hacia los lados y hacia arriba. Esto mezclará las tejas de un paquete con el siguiente y minimizará cualquier variación normal de tonalidad. Las tejas Oakridge PRO® Series son aplicadas con un escalonamiento de 6½" (165 mm). Aún cuando el escalonamiento de 6½" (165 mm) es recomendado, cualquier patrón repetitivo de escalonamiento de 4" (100 mm) a 8" (200 mm) es aceptable. Debe ejercerse precaución para asegurar que las uniones entre cada teja no

estén mas cerca de 2" (50 mm) de cualquier sujetador de la teja inferior y que los traslapes de los lados no queden a menos de 4" (100 mm) de las líneas siguientes. Refiérase a los pasos para la aplicación de líneas para instrucciones específicas. Si se utilizan métodos de escalonamiento en la aplicación, el aplicador debe asegurarse de utilizar el número apropiado de sujetadores y usar tejas de diferentes paquetes para reducir la potencialidad de variación en color.

Línea de Arranque

(A) Recorte todas las tabillas de las tejas de la línea de arranque. Ver diagrama.

(B) Recorte 6½" (165 mm) de la primera teja junto al remate. Déjela sobresalir ¾" (10 mm) del remate y del alero y sujétela.

(continúa en la página siguiente)

2 Shingle Application (cont.):

(C) Complete rest of starter course.

Note: Start at rake edge. Use 5 fasteners for each shingle, placed 2" to 3" up from the eaves.

First Course

(A) Apply first course starting with a full shingle, even with the starter course. Fasten securely according to instructions.

Note: Complete course with full shingles. The fastening line should not be used for course alignment of shingles.

Second Course

(B) Begin second course by positioning first shingle $6\frac{1}{2}$ " from the end of the underlying shingle and flush with the top of the overlay tab (dragon tooth).

(C) Leave $5\frac{1}{8}$ " exposure, fasten securely, and trim excess overhang at rake.

Note: Complete course with full shingles.

Third Course

(D) Begin by positioning the first shingle $6\frac{1}{2}$ " from the end of the underlying shingle, flush with the top of the dragon tooth pattern. Complete by repeating step (C).

Note: Complete course with full shingles.

Fourth Course

(E) Begin the fourth course by positioning the first shingle an additional $6\frac{1}{2}$ " from the end of the underlying shingle, flush with the top of the dragon tooth pattern. Complete by repeating step (C).

Note: Complete course with full shingles.

Fifth Course

(F) Begin fifth course by positioning full shingle flush with rake edge and leave $5\frac{1}{8}$ " exposure. Complete by repeating step (C).

Note: Complete course with full shingles. For succeeding courses, repeat steps for second, third, fourth and fifth courses.

2 Aplicación de las tejas (cont.):

(C) Complete el resto de la línea de arranque.

Nota: Comience en la orilla del remate. Use 5 sujetadores por cada teja, colocados de 2" (50 mm) a 3" (75 mm) arriba de los bordes de los aleros.

Primera Línea

(A) Aplique la primera línea comenzando con una teja entera, emparejándola con la línea de arranque. Sujete con seguridad de acuerdo a las instrucciones.

Nota: Complete la línea con tejas enteras. La línea de fijación no debe ser usada para alinear las tejas.

Segunda Línea

(B) Comience la segunda línea colocando la primera teja a $6\frac{1}{2}$ " (165 mm) hacia un lado del principio de la teja de abajo, con la orilla alineada con la parte superior de los cortes de la tablilla (diente de dragón).

(C) Deje $5\frac{1}{8}$ " (140 mm) expuestos, sujete con seguridad y recorte el exceso que cuelgue en el remate.

Nota: Complete la línea con tejas enteras.

Tercera Línea

(D) Comience colocando la primera teja a $6\frac{1}{2}$ " (165 mm) hacia un lado del principio de la teja de abajo, con la orilla alineada con la parte superior del patrón de diente de dragón. Complete repitiendo el paso (C).

Nota: Complete la línea con tejas enteras.

Cuarta Línea

(E) Comience la cuarta línea colocando la primera teja $6\frac{1}{2}$ " (165 mm) adicionales hacia un lado del principio de la teja de abajo, con la orilla alineada con la parte superior del patrón de diente de dragón. Complete repitiendo el paso (C).

Nota: Complete la línea con tejas enteras.

Quinta Línea

(F) Comience la quinta línea colocando la primera teja al ras del remate y deje $5\frac{1}{8}$ " (140 mm) expuestos. Complete repitiendo el paso (C).

Nota: Complete la línea con tejas enteras. Para líneas subsecuentes, repita los pasos para las líneas segunda, tercera, cuarta y quinta.

3 Valley Construction

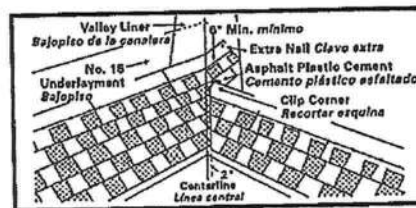
A closed-cut valley is recommended and is applied as follows:

(A) Lay a 36" wide (minimum 50-lb.) valley liner of smooth surface roll roofing. Fasten on outer edges only.

(B) Lay all shingles on one side of valley and across centerline of valley a minimum of 12". Fasten a minimum of 6" away from centerline on each side of valley.

(C) Strike a chalk line 2" from the centerline of the unshingled side. Apply shingles on the unshingled side up to the chalk line and trim, taking care not to cut the underlying shingles. Clip upper corners of these shingles, cement and fasten.

(D) A metal valley is an acceptable alternative.



3 Construcción de Canaleras

Es recomendable una canalera bien recortada y se aplica de la siguiente manera:

(A) Tienda un revestimiento para valle de 36" (914 mm) de ancho (50 lb./22.7 kg mínimo) de rollo para techado de superficie lisa. Sujete

solamente en las orillas de afuera.

(B) Coloque todas las tejas en un lado de la canalera, cruzando la línea central de la canalera un mínimo de 12" (300 mm). Sujete ambos lados cuando menos 6" (150 mm) retirado de la línea central de la canalera.

(C) Tire una línea de yeso a 2" (50 mm) de la línea central de la canalera en el lado sin tejas. Coloque las tejas en el lado sin tejas hasta llegar a la línea de yeso y recórtelas, teniendo cuidado de no cortar las tejas de abajo. Corte las puntas de arriba de estas tejas, enciméntelas y sujételas.

(D) Las canaleras entretejidas o de metal son alternativas aceptables.

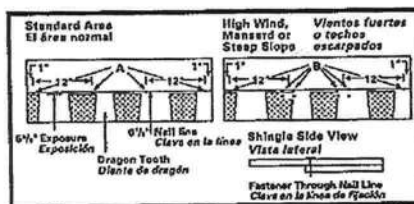
4 Fastening Instructions

Place fasteners $6\frac{1}{8}$ " from bottom edge of each shingle and 1" from each end.

(A) Use 4 fasteners in normal wind areas.

(B) Use 6 fasteners per shingle for Mansard construction. Use of 6 fasteners is recommended in high wind areas.

Note: Fasten on the nail line $6\frac{1}{8}$ " up from bottom edge to secure both layers of the shingle.



4 Instrucciones para fijar

Fije a lo largo de la línea de sujeción a $6\frac{1}{8}$ " (155 mm) arriba del borde inferior de cada teja y a 1" (25 mm) de cada extremo.

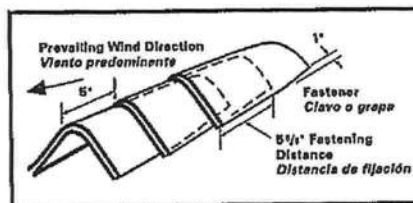
(A) Use 4 fijadores en áreas de vientos normales.

(B) Use 6 fijadores por teja para la construcción des vanes. Use 6 fijadores por teja es recomendado en áreas de vientos fuertes.

Nota: Fijar en la línea de sujeción a $6\frac{1}{8}$ " (155 mm) arriba del borde inferior para penetrar ambos segmentos de la teja.

5 Hip & Ridge Application

Use High Ridge Hip & Ridge or High Style® Hip & Ridge (availability by region). 3-tab shingles may be used also. Cut full 3-tab shingles into three $12" \times 12"$ hip and ridge shingles ($13\frac{1}{8}" \times 13\frac{1}{8}"$ if using metric-sized products). Start hips at the eave and work up to ridge. Apply ridge only after hips have been applied, beginning on end of ridge opposite prevailing wind direction. Leave 5" exposure per shingle for hip and ridge application ($5\frac{1}{4}"$ exposure if using metric-sized shingles). Bend over the ridge; fasten on each side $5\frac{1}{4}"$ from exposed end ($6\frac{1}{4}"$ from exposed end for metric shingles), 1" up from the edge. Cover exposed nails with asphalt plastic cement. **Note:** For best appearance, when using 3-tab shingles for hip and ridge, apply double thickness (two $12" \times 12"$ shingles or $13\frac{1}{8}" \times 13\frac{1}{8}"$ if using metric-sized products). **Do not** cut hip and ridge shingles from full-size Oakridge PRO Series shingles.



5 Aplicación en Caballetes y Cumbresas

Use tejas High Ridge para caballetes y cumbresas o tejas High Style® para caballetes y cumbresas (Disponibilidad por región). Corte tejas enteras de 3 tabillas es tres tejas de 305 mm x 305 mm ($12" \times 12"$) para caballetes y cumbresas [333 mm x 333 mm

($13\frac{1}{8}" \times 13\frac{1}{8}"$) si está usando productos con medidas métricas]. Comience los caballetes por el alero y trabaje hacia arriba hasta la cumbra. Aplique la cumbra sólo hasta que los caballetes hayan sido aplicados, empezando en la punta de la cumbra opuesta a la dirección predominante del viento. Deje 5" (125 mm) de exposición por teja en la aplicación de caballetes y cumbresas [$5\frac{1}{4}"$ (140 mm) de exposición si usa tejas métricas]. Dóblelas sobre la cumbra; fíjelas en cada lado a $5\frac{1}{4}"$ (140 mm) [$6\frac{1}{4}"$ (160 mm) para tejas métricas] de la orilla expuesta, a 1" (25 mm) de la orilla. Cubra los clavos expuestos con cemento plástico asfaltado. **Nota:** Para una mejor apariencia, cuando use tejas de 3 tabillas para caballetes y cumbresas, aplique doble espesor [dos tejas de 305 mm x 305 mm ($12" \times 12"$) o de 333 mm x 333 mm ($13\frac{1}{8}" \times 13\frac{1}{8}"$) si está usando productos con medidas métricas]. No corte tejas para caballetes y cumbresas de tejas Oakridge PRO Series.

6 Precautionary Notes

The manufacturer will not be responsible for problems resulting from any deviation from the recommended application instructions and the following precautions:

(A) **Roof Deck:** Recommended roof decks are 6" maximum width, $\frac{3}{4}"$ minimum thickness wood sheathing, or $\frac{3}{8}"$ minimum thickness plywood sheathing. Use plywood decking recommended by the American Plywood Association, Underwriters Laboratories, Inc., or local building codes. These Owens Corning shingles have been tested and rated as Class A by Underwriters Laboratories when these shingles are applied over recommended decks. If other decks are used, the resulting construction may not qualify as Class A.

(continued on next page)

6 Notas de Precaución

El fabricante no será responsable por problemas resultantes derivados de cualquier desviación de las instrucciones de aplicación recomendadas y de las precauciones siguientes.

(A) **Cubierta Para Techo:** Las cubiertas para techo recomendadas son de revestimiento de madera de 6" (150 mm) de ancho máximo y $\frac{3}{4}"$ (20 mm) de espesor mínimo, o revestimiento de contrachapa de $\frac{3}{8}"$ (10 mm) de espesor mínimo. Use la contrachapa para cubierta recomendada por la American Plywood Association, Underwriters Laboratories, Inc., o por los códigos locales de construcción. Estas tejas de Owens Corning han sido probadas y calificadas como Clase A por Underwriters Laboratories cuando estas tejas son aplicadas sobre cubiertas recomendadas. Si otras cubiertas son usadas, la construcción resultante puede no calificar como Clase A.

(continúa en la página siguiente)

6 Precautionary Notes (cont.):

Regardless of deck type used, the roofing installer must:

1. Install the deck material in strict compliance with the deck manufacturer's instructions.
2. Prevent the deck from getting wet before, during and after installation.
3. Ensure the attic ventilation meets or exceeds FHA Minimum Property Standards.

Note: All roof structures, especially Mansard style construction, must have complete through ventilation from bottom to top to prevent entrapment of moisture-laden air (winter) and hot air (summer). Both conditions may cause premature shingle failure. It is extremely important to maintain adequate ventilation when reinsulating or reroofing. Structures with bath and kitchen vents which are vented directly into the attic space may require additional ventilation to remove excess moisture vapor.

(B) Handling: Use extra care in handling shingles when the temperature is below 40°F. Do not drop bundles. Shingles can be broken easily in cold weather or their edges damaged in hot weather. Do not attempt to separate shingles by "breaking" them over another object such as a ridge.

(C) Fastening: Owens Corning recommends nails as the preferred method of attaching shingles to wood decking or other nailable surface. Drive all fasteners until they are flush with the surface of the shingle. Special care must be taken in the use of pneumatic staples or nail guns. Staples are to be driven with pneumatic stapler with crown parallel to length of shingle so that the entire crown bears tightly against the shingle but does not cut the shingle surface. Nails are to be driven straight so the entire head is flush against the shingle but does not cut the shingle surface. An improperly adjusted pneumatic gun can result in raised fasteners causing sealing failure, raised tabs, leaks or blow-off.

Guidelines on fastener size, number and location must be followed. Failure to follow these instructions seriously reduces wind resistance. Owens Corning will not be responsible for any wind damage that occurs with shingles which have not been applied in accordance with these instructions.

(D) Mansard or Steep Slopes: For slopes exceeding 60 degrees or 21" per foot, use 6 fasteners and 4 spots of asphalt plastic cement per shingle. All 6 fasteners must be spaced equally and placed in the fastening line. Place 4 spots of asphalt plastic cement, 1" in diameter, under each shingle immediately upon installation.

(E) Storage: Store in a covered, ventilated area at a maximum temperature of 110°F. Stack in a flat fashion (maximum of 16 bundles high). Protect shingles from weather when stored at the job site. Do not store near steam pipes, radiators, etc.

(F) Hip & Ridge Shingles: These shingles should be cut from the back (smooth) side if necessary. In cool weather, shingles can be formed more easily to fit the ridge if they are stored in a warm, indoor area, then taken out immediately before application.

(G) All exposed material must be rated Class A by Underwriters Laboratories, to maintain a Class A system.

6 Notas de Precaución (cont.):

Aún sin tomar en cuenta el tipo de cubierta usado, el instalador del techado debe:

1. Instalar el material de la cubierta cumpliendo estrictamente con las instrucciones del fabricante.
2. Prevenir que la cubierta se humedezca antes, durante y después de su instalación.
3. Asegurarse de que la ventilación del ático alcanza o excede los Estándares Mínimos de Propiedades de FHA.

Nota: Todas las estructuras para techos, especialmente los contruédos tipo desván, deben tener una ventilación completa, desde abajo hasta arriba para prevenir la acumulación de aire cargado de humedad (Invierno) y aire caliente (Verano). Ambas condiciones pueden causar daños prematuros a las tejas. Es extremadamente importante mantener una ventilación adecuada al aislar o al retechar. Las estructuras con ventillas del baño y la cocina con descarga directa dentro del espacio del ático pueden requerir ventilación adicional para remover el exceso de humedad del vapor.

(B) Manejo: Tenga cuidado extra al manejar las tejas cuando la temperatura esté abajo de 40°F. No deje caer los paquetes. Las tejas pueden romperse fácilmente en temperaturas frías o sus bordes maltratados en temperaturas calientes. No trate de separar las tejas "quebrándolas" sobre otro objeto como la cumbrera.

(C) Fijación: Owens Corning recomienda el uso de clavos como el método preferido para sujetar las tejas a la cubierta de madera o a cualquier otra superficie donde pueda clavarse. Meta todos los fijadores hasta que estén al ras con la superficie de la teja. Debe tomarse especial cuidado con el uso de engrapadoras neumáticas o pistolas de clavos. Las grapas deben ser colocadas con una pistola neumática con la corona paralela a lo largo de la teja de tal manera que toda la corona apoye firmemente sobre la teja pero no corte la superficie de la teja. Los clavos deben instalarse derechos de tal manera que toda la cabeza apoye firmemente sobre la teja pero no corte la superficie de la teja. Una pistola neumática ajustada incorrectamente puede dar como resultado que los fijadores queden levantados causando un mal sellado, tabillitas levantadas, goteras o tejas voladas.

Deben seguirse las recomendaciones para el tamaño, cantidad y posición de los fijadores. El no seguir estas instrucciones reduce seriamente la resistencia al viento. Owens Corning no será responsable de ningún daño por el viento, que ocurra con tejas que no hayan sido aplicadas de acuerdo a estas instrucciones.

(D) Desvanes o Inclinações Empinadas: Para inclinaciones excediendo los 60 grados, ó 21" por pie, use seis fijadores y cuatro aplicaciones de cemento plástico asfaltado por teja. Los seis fijadores deben espaciarse con igualdad y colocarse en la línea de fijación. Coloque cuatro aplicaciones de cemento plástico asfaltado, de 1" de diámetro, abajo de cada una de las tabillitas inmediatamente después de su instalación.

(E) Almacenaje: Almacene en un área cubierta y ventilada a una temperatura máxima de 110°F. Estibe en forma plana (altura máxima de 16 paquetes). Proteja las tejas del mal tiempo cuando estén almacenadas en el sitio del trabajo. No las almacene cerca de tuberías de vapor, radiadores, etc.

(F) Tejas para Caballetes y Cumbreras: Estas tejas deben cortarse por la parte posterior (lisa) si es necesario. En tiempos fríos, las tejas pueden amoldarse más fácilmente para ajustarse a la cumbrera si son almacenadas en una área cubierta caliente, siendo sacadas inmediatamente antes de su aplicación.

(G) Todo el material expuesto debe estar clasificado Clase A por Underwriters Laboratories, para mantener un sistema Clase A.

7 Reroofing

If old asphalt shingles are to remain in place, nail down or cut away all loose, curled or lifted shingles. Sweep the surface clean of all loose debris just prior to applying the new roofing. Ensure proper size and length of fasteners. If roofing over old wood shingles, cut back the old shingles at eaves and rakes and apply wood edging strips. Some local building codes may require the use of a No. 30 asphalt saturated felt over the old wood shingles prior to reroofing. Consult local building code authorities. Surface must be smooth before shingles are installed. Make deck smooth by nailing down all loose and curled shingles, protruding nails, etc. Install beveled wood feathering strips, if necessary.

7 Retechado

Si las viejas tejas asfaltadas van a quedar en su lugar, clave o corte todas las tejas sueltas, dobladas o levantadas. Barra la superficie limpiándola de escombros antes de aplicar el nuevo techado. Asegúrese de tener el tamaño y longitud de sujetadores apropiados. Si el techado se coloca sobre un viejo tejado de madera, recorte las tejas viejas en aleros y remates y coloque tiras de madera en las orillas. Algunos códigos de construcción locales pueden requerir el uso de fieltro saturado de asfalto No. 30 sobre las viejas tejas de madera antes de el retechado. Consulte a las autoridades sobre el código local de construcción. La superficie debe estar lisa antes de instalar las tejas. Empareje la cubierta clavando todas las tejas sueltas o torcidas, clavos sobresalientes, etc. Instale tiras de madera biseladas de ser necesario.

FL # 13069.3

Panel Assembly, Removal, and Installation Guide/ Andersen®

for Andersen® A-Series 2-Panel, 3-Panel and 4-Panel Gliding Patio Doors

Limited Publication Release /

Thank you for choosing Andersen. / Gracias por elegir Andersen.

Instructions are for typical, new wood-framed wall construction with weather protection in place.

Instructions may not be right for all installations due to building design, construction materials or methods used and/or building or site conditions. Consult a contractor or architect for recommendations.

Flanges on the unit alone will not properly flash and seal the window. Follow these instructions carefully.

For questions call 1-888-888-7020 Monday - Friday, 7 a.m. to 7 p.m. and Saturday, 8 a.m. to 4 p.m. central time.

For more information and/or guides visit

Please leave this guide with building owner.

Read guide from beginning to end before starting installation. Read all warnings and cautions during unit installation.

Do not remove packing clips from door until instructed.

⚠ WARNING / ADVERTENCIA

Use caution when working at elevated heights and around unit openings. Follow manufacturers' instructions for ladders and/or scaffolding. Failure to do so may result in injury or death.

⚠ WARNING / ADVERTENCIA

Follow manufacturers' instructions for hand or power tools. Always wear safety glasses. Failure to do so may result in injury and/or product damage.

CAUTION / PRECAUCIÓN

Follow instructions of foam, sealant and flashing manufacturer regarding material application and compatibility with this product.



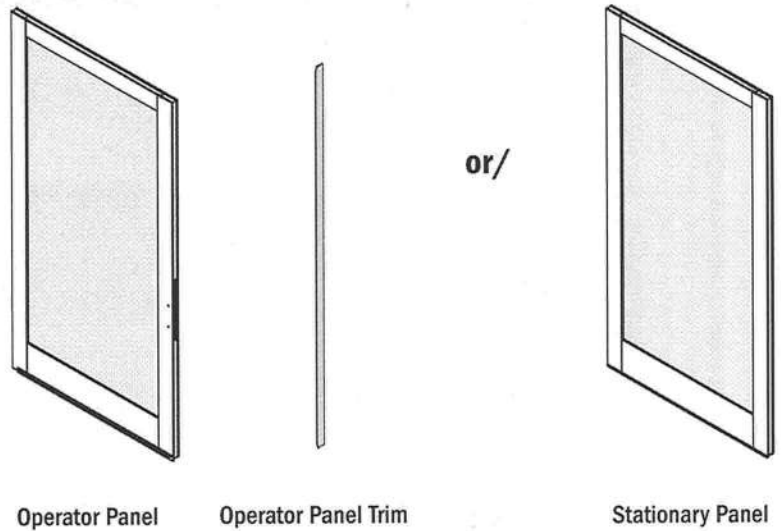
Parts Included / Partes incluidas

- (1) Operating Panel /
- (1) Operating Panel Trim /
- or/
- (1) Stationary Panel /
- (1) Panel Assembly and Installation Guide /

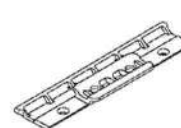
Tools Needed / Herramientas necesarias

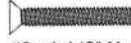
- Safety glasses /
- Phillips Screwdriver /
- Drill/Driver /
- Caulk Gun /
- 7/32 Allen Wrench /
- Stiff Blade Putty Knife or Flat Pry Bar /

- For panel installation, see tools and supplies needed on frame assembly and installation guide.



Parts used for panel assembly that are included in frame carton:

		2-Panel Door	3-Panel Door	4-Panel Door
	Black Plug	1	2	2
	Dust Pad	1	2	2
	Security Bracket	1	2	2
	Head Retainer	1	4	2
	Side Retainer	2	0	4
	Filler Cap	2 (one left-hand, one right-hand)	2	2
	Fastener Plug	2	0	4

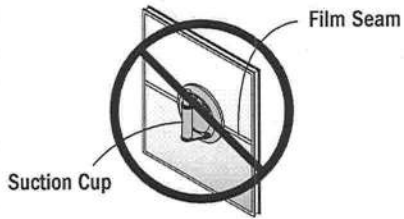
	2-Panel Door	3-Panel Door	4-Panel Door
 #10 x 1-1/2" Gray Screws	4	16	8
 #7 x 5/8" White or Gray Pan Head Screws	22	44	44
 #10 x 1" Stainless Steel Screws	10	4	20
 #10 x 3" Gray Screws	6	12	13
 #10 x 3" Stainless Steel Screws	0	0	3
 #8 x 1-1/8" Machine Screws	4	8	0

⚠ WARNING / ADVERTENCIA

Metal fasteners and other hardware components may corrode when exposed to preservative treated and fire-retardant treated lumber. Obtain and use the appropriate metal fasteners and hardware as called out by the installation guide to fasten unit to any rough opening made from pressure treated and fire-retardant treated lumber. Failure to use the appropriate materials for the installation may cause a failure resulting in injury, property or product damage.

Glass

⚠ WARNING / ADVERTENCIA



Suction grips will not hold if placed over seam of film to lift or move unit. Unit will fall causing damage or injury.

CAUTION / PRECAUCIÓN

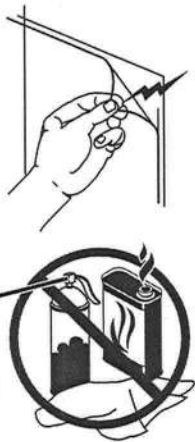


Sealants will damage exterior coating on glass.

- ▶ Laminated safety glass is not standard and must be special ordered. Check local building code for requirements.
- ▶ Leave protective film in place until after construction is finished. Leave (NFRC) performance label in place until final inspection.
- ▶ Argon gas blend not available with high altitude glass.

Film Removal /

⚠ WARNING / ADVERTENCIA



Static created when removing film can ignite flammable materials or cause a shock.

See warning label on glass.

⚠ WARNING / ADVERTENCIA

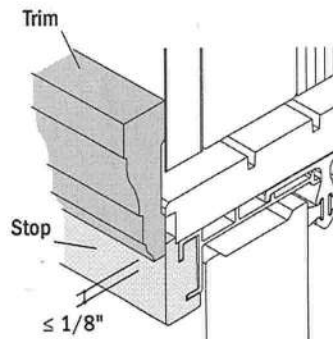
Dispose of film immediately after removing. Film may pose suffocation hazard to children.

- ▶ Remove protective film from seam or corner using plastic scraper if needed.
- ▶ Remove protective film within nine months of installation and when temperature is above 32 degrees F.

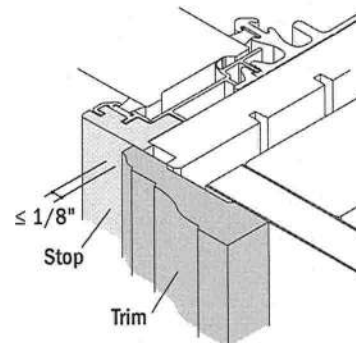
Interior Trim /

CAUTION / PRECAUCIÓN

Do not apply trim more than 1/8" over panel stops. Product damage may occur and/or panel removal will be compromised.



HEAD/



SIDE/

Finishing / Acabado

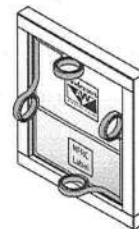
CAUTION / PRECAUCIÓN

Finish wood surfaces immediately after installation. Unfinished wood will deteriorate, discolor, and/or may bow and split.

Do not stain or paint weatherstrip, vinyl, glass or hardware. Product damage may occur.

- ▶ Apply interior casing to complete installation.
- ▶ Finish all hidden wood surfaces.
- ▶ Do not overload brush with stain/paint when finishing. Finish may wick between glass stop/grille on glass.
- ▶ **Read and follow finishing product instructions and warnings on finish material.**
- ▶ Aplique molduras interiores y/o peanas para completar la instalación.
- ▶ Aplique el acabado en las superficies de madera ocultas.
- ▶ No sobrecargue el cepillo con tinta/pintura cuando aplique el acabado. El acabado se puede hinchar entre el tope del vidrio y la retícula del vidrio.

- ▶ Film is not a substitute for masking.



Cleaning / Limpieza

CAUTION / PRECAUCIÓN

Acid solutions used for cleaning masonry or concrete will damage glass, fasteners, hardware, and metal flashing.

Protect unit and follow cleaning product instructions carefully. If acid contacts unit, wash all surfaces with water immediately.

CAUTION / PRECAUCIÓN

Abrasive cleaners will damage glass surface.

CAUTION / PRECAUCIÓN



Metal razor blades can damage glass surface and exterior coating.

- ▶ **Clean glass using liquid glass cleaner.**
- ▶ Clean exterior frame, sash, and insect screens using mild detergent and water with a soft cloth or brush.
- ▶ For hard to clean areas use a nonabrasive cleaner, alcohol-and-water or ammonia-and-water.
- ▶ Limpie el vidrio con un limpiador líquido para vidrios.
- ▶ Limpie el marco exterior, las hojas y los mosquiteros con detergente suave y agua usando un paño o cepillo suave.
- ▶ **Para las áreas difíciles de limpiar, use un limpiador no abrasivo, alcohol y agua o amoníaco y agua.**

Maintenance / Mantenimiento

- ▶ Do not apply any type of film to insulating glass. Thermal stress and glass damage can result. Shading devices (insulated coverings, shutters, etc.) may also cause thermal stress and condensation damage.

- ▶ For more information, contact your local Andersen dealer or www.andersenwindows.com

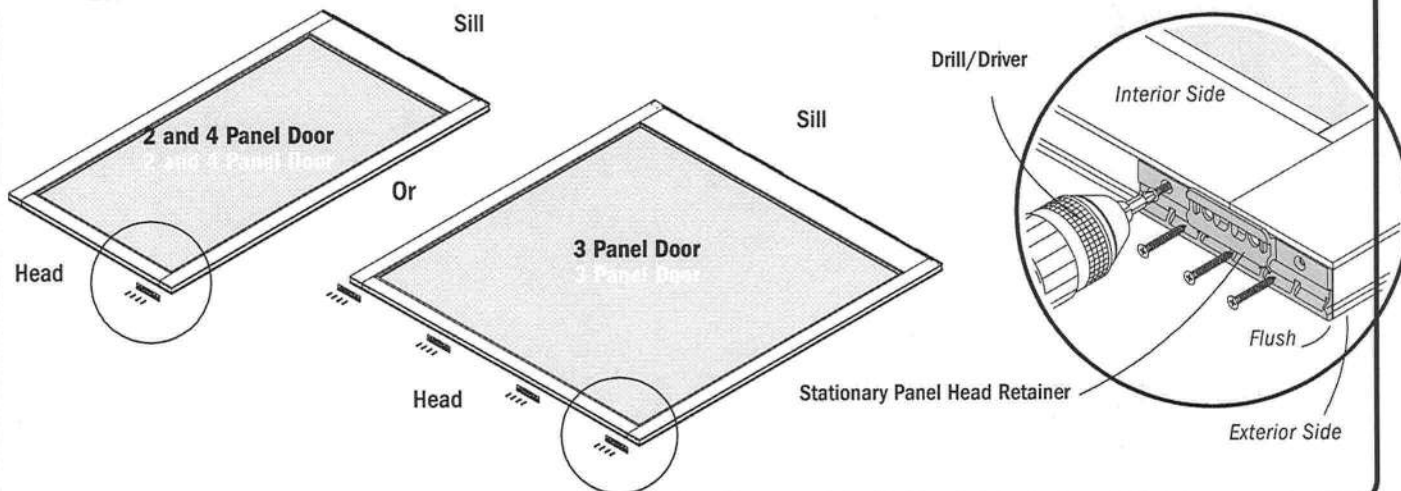
► For panel removal, go to page 17.

1

Interior

⚠ WARNING / ADVERTENCIA

Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry and install window and door products to avoid injury and/or product damage.

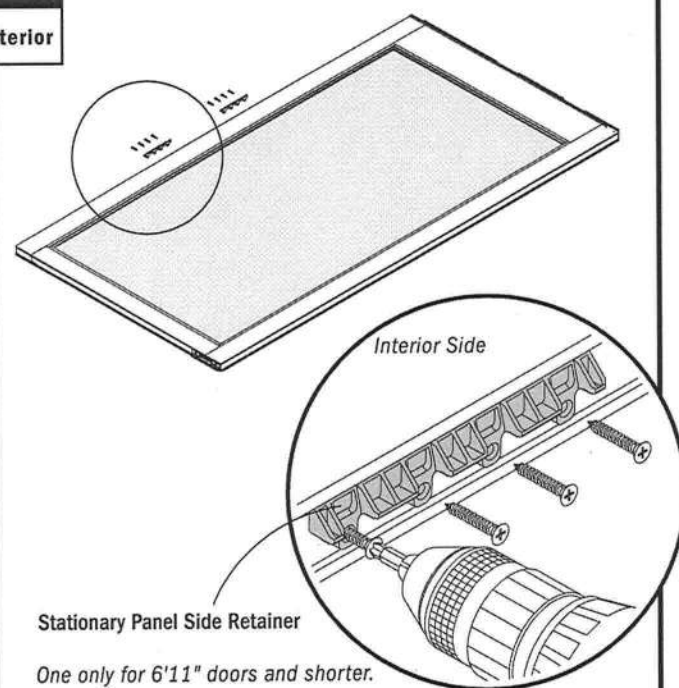


Align stationary panel head retainer with holes on panel, flush with exterior panel surface. Attach using #10 X 1-1/2" screws.

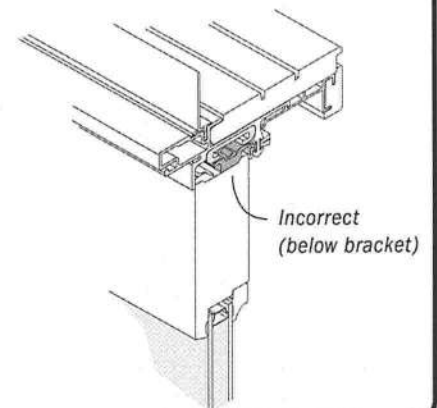
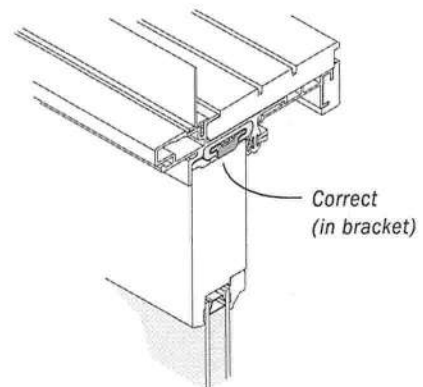
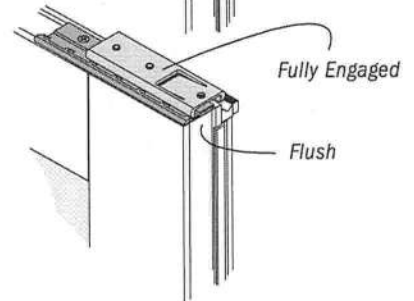
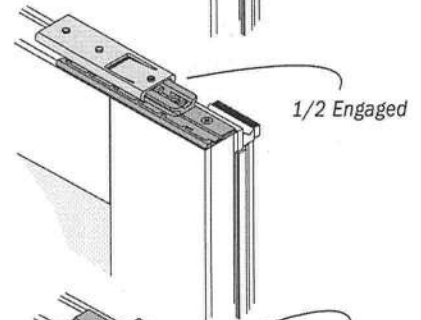
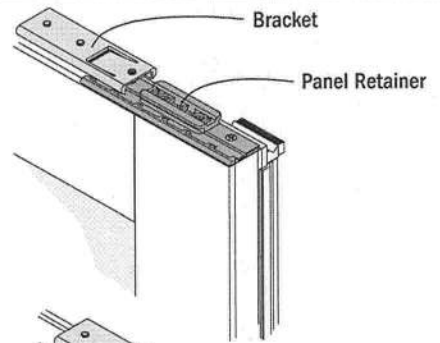
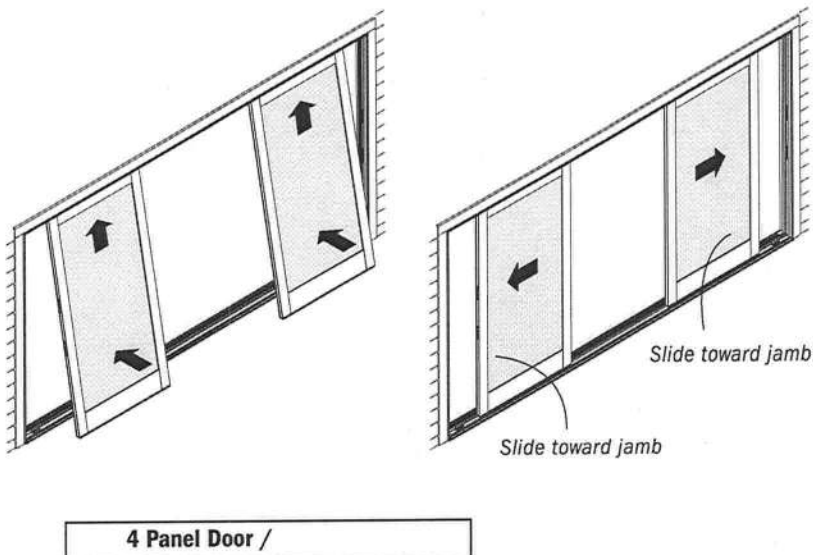
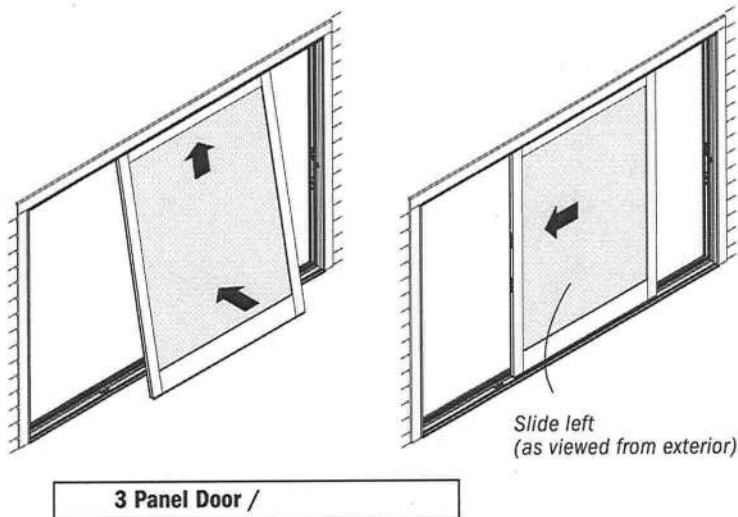
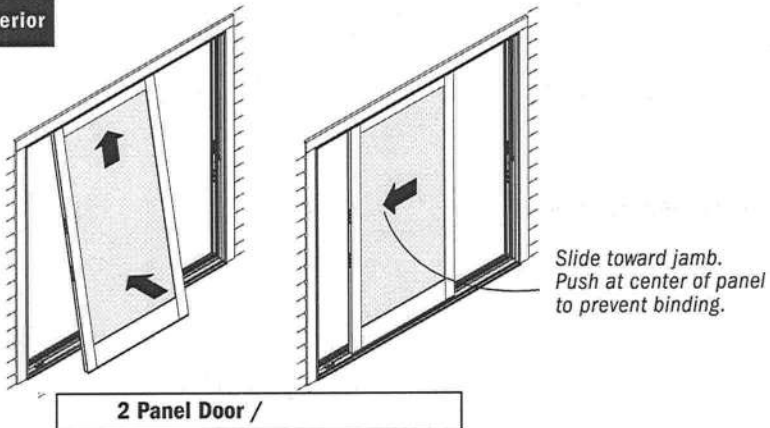
2

Interior

2 and 4 Panel Door Only



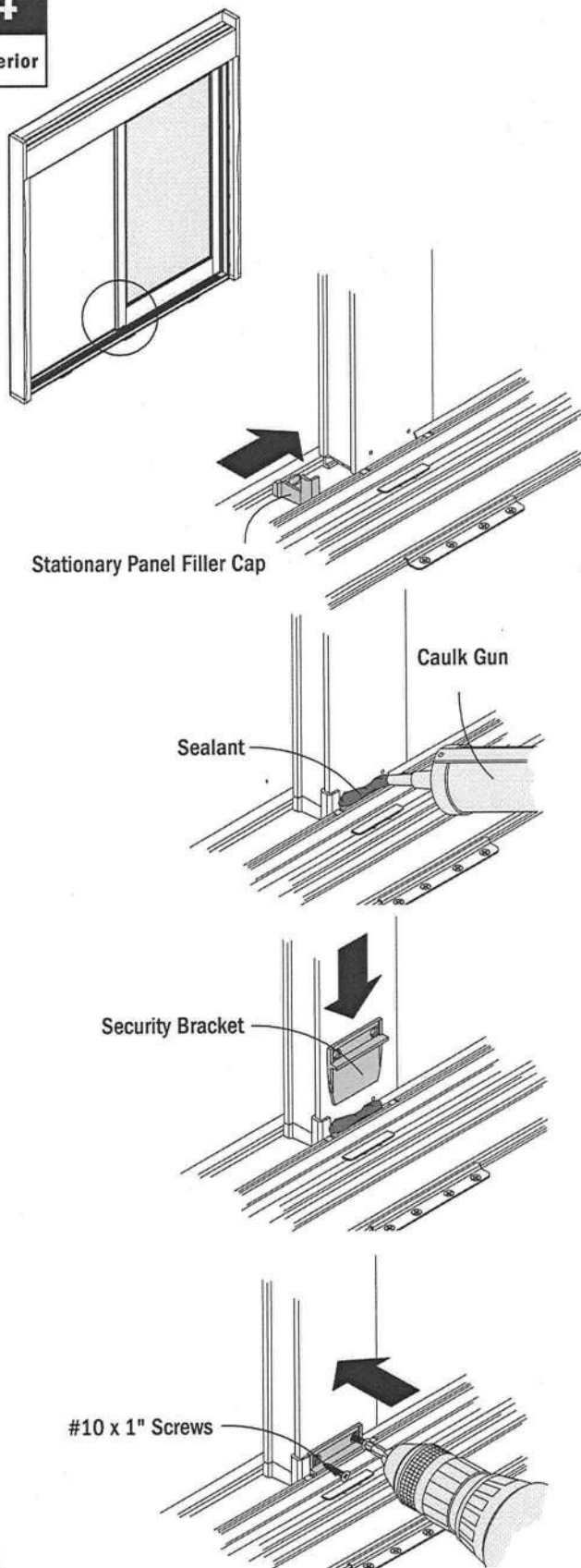
Align stationary panel side retainer with holes on side of panel. Attach using #10 x 1" screws.



Position stationary panel into head jamb from the exterior. Align notches on bottom of panel with sill guides and swing/push panel onto sill. Slide panels as shown. An audible click is heard when panel retainers lock flush into bracket. Pull on panel to make sure panel retainer is engaged.

4

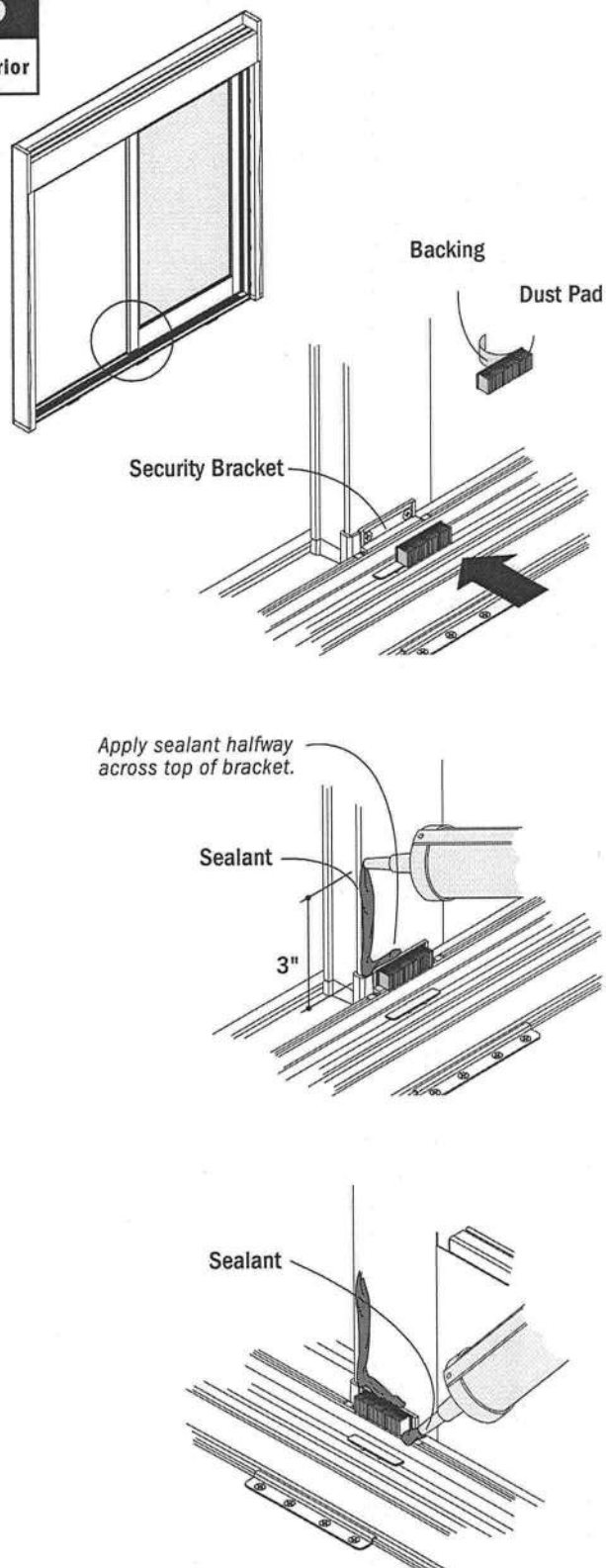
Interior



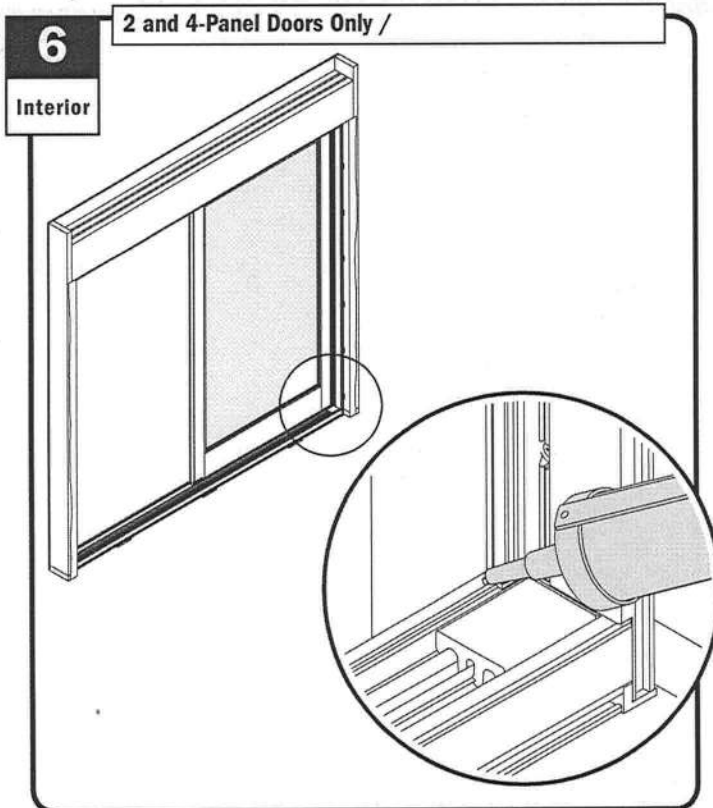
Attach stationary panel filler cap. Fill security bracket slot with sealant, slide bracket into place, and secure using #10 x 1" screws.

5

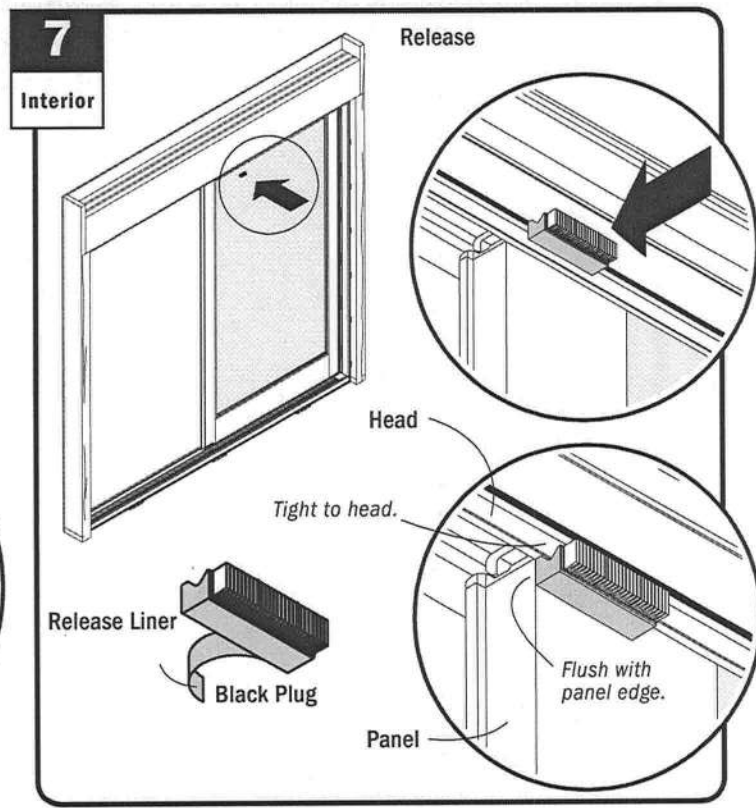
Interior



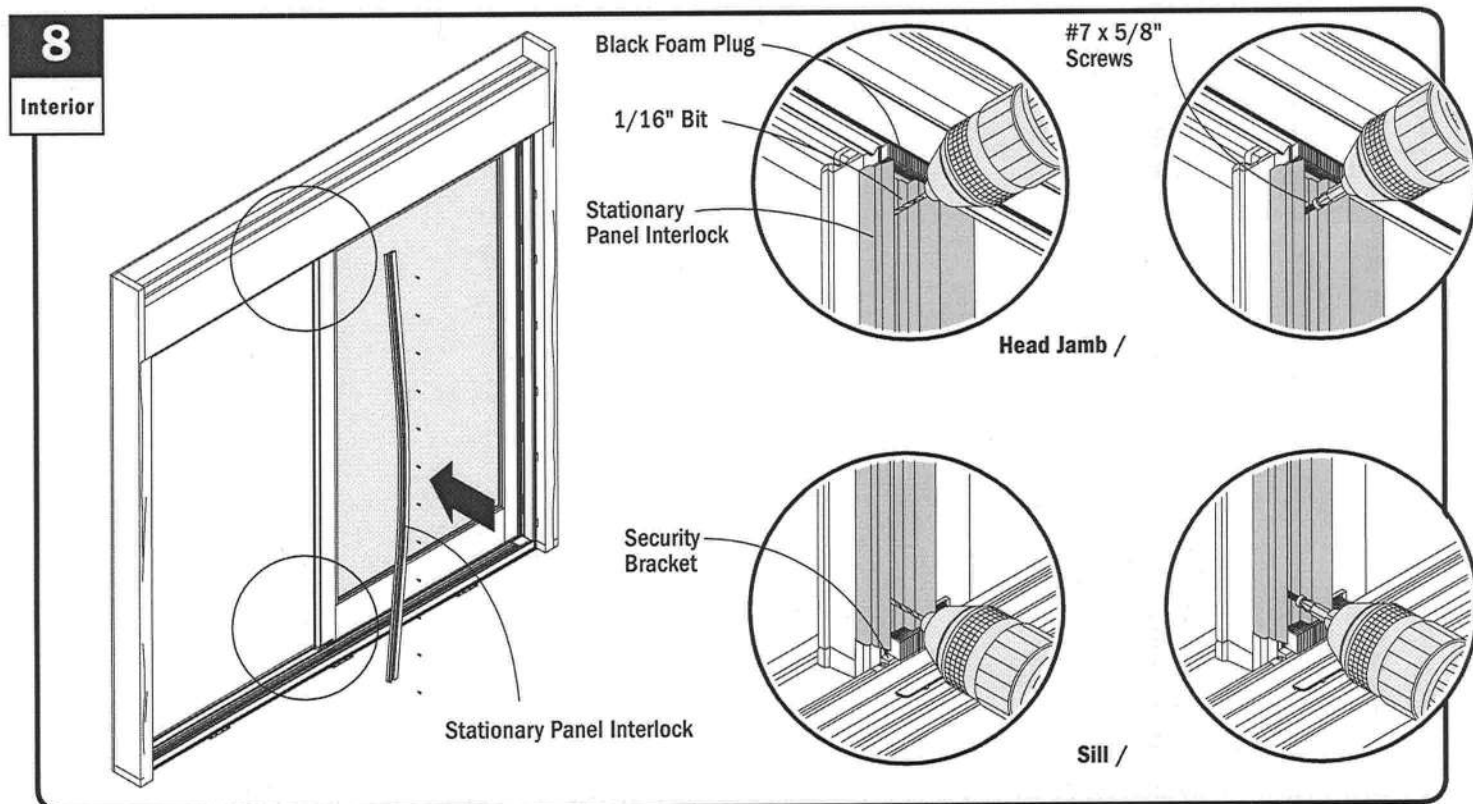
Remove backing and attach dust pad to bracket. Apply sealant halfway across bracket, 3" up the panel, and between bracket and panel filler.



Apply sealant to stationary panel and jamb corner at end of weather-strip.



Remove release liner. Position black plug on stationary panel flush with panel edge and tight to head.

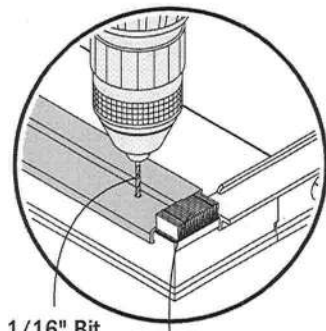


Position stationary panel interlock tight to security bracket at bottom and flex into black plug at head jamb. Drill 1/16" holes, 3/8" deep using interlock as a guide and fasten using painted #7 x 5/8" screws.

9

Interior

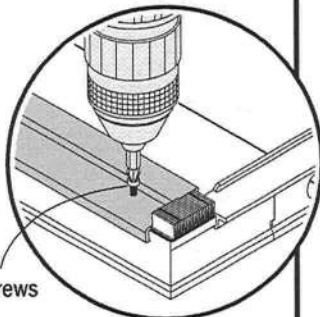
Operating Panel Interlock



1/16" Bit

Dust Pad

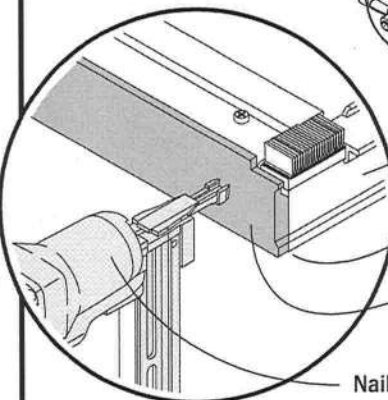
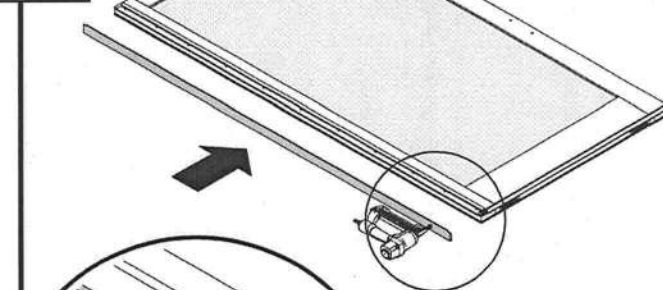
#7 x 5/8" Screws



Position operating panel interlock tight to dust pad. Drill 1/16" holes, 3/8" deep using interlock as a guide and fasten using painted #7 x 5/8" screws.

10

Interior



Panel

Flush

Operating Panel Trim

Nail Gun

Position operating panel trim flush with bottom of panel and attach with finishing nails.

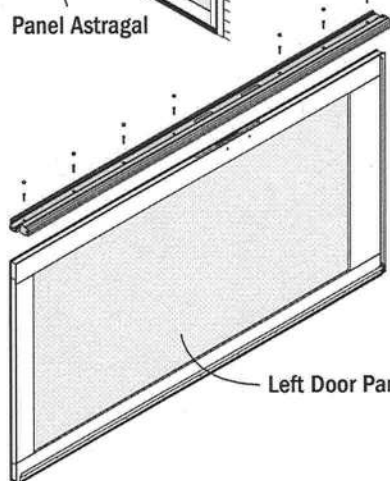
11

Exterior

4-Panel Door Only /

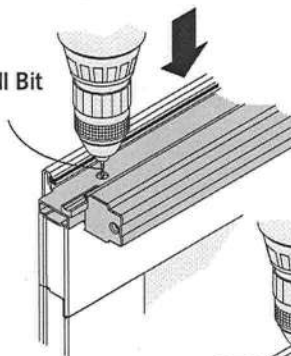
Left Door Panel

Panel Astragal

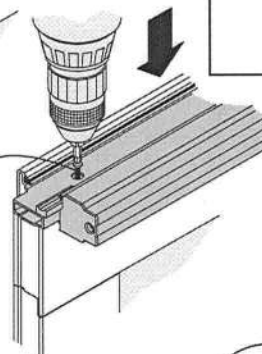


Left Door Panel

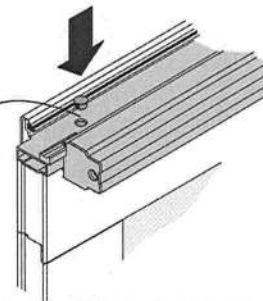
1/8" Drill Bit



#10 x 1-1/2" Pan Head Screws



Fastener Cover Plugs



WARNING / ADVERTENCIA

Hole Plugs are small parts and, if swallowed, could pose a choking hazard to young children. Remove and dispose of any loose or easily removed hole plugs.

Position astragal on edge of left door panel with veneer to the interior. Align astragal flush with top and bottom of panel, with exterior side tight to door panel.

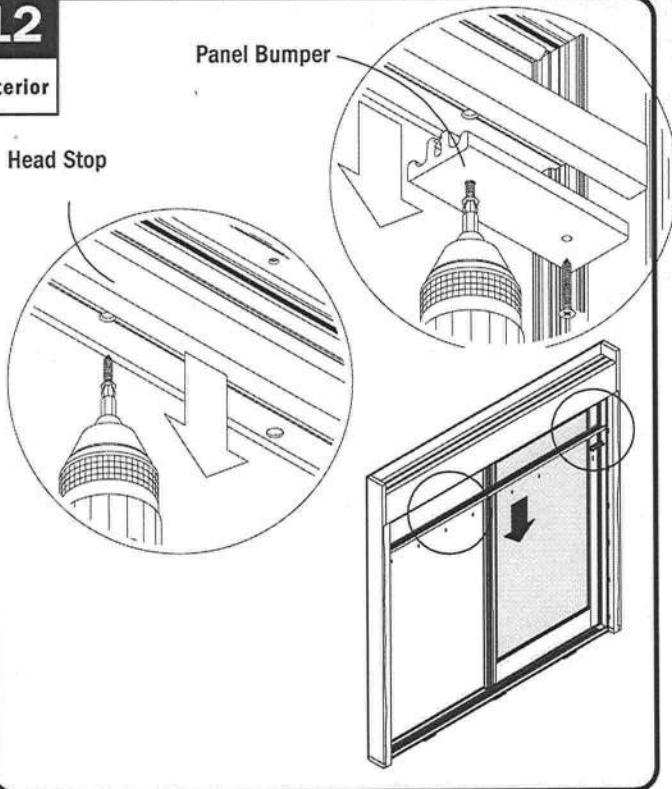
Drill 1/8" holes, 1-1/2" deep, using astragal as a guide and fasten using #10 x 1-1/2" pan head screws. Apply hole plugs at screw locations.

12

Interior

Head Stop

Panel Bumper



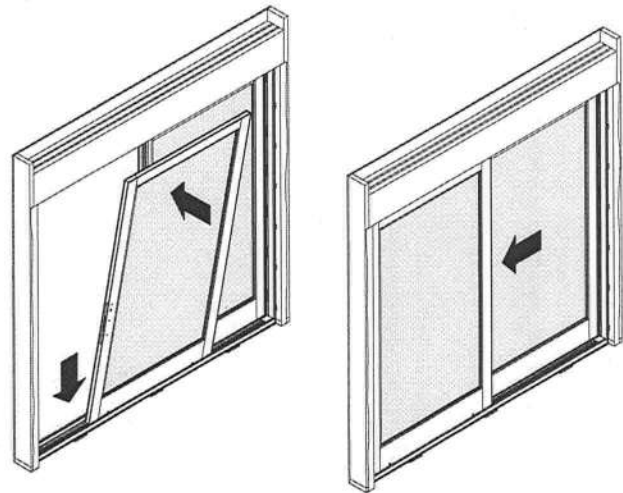
Remove panel bumper(s) and head stop and save for reinstallation.

13

Interior

⚠ WARNING / ADVERTENCIA

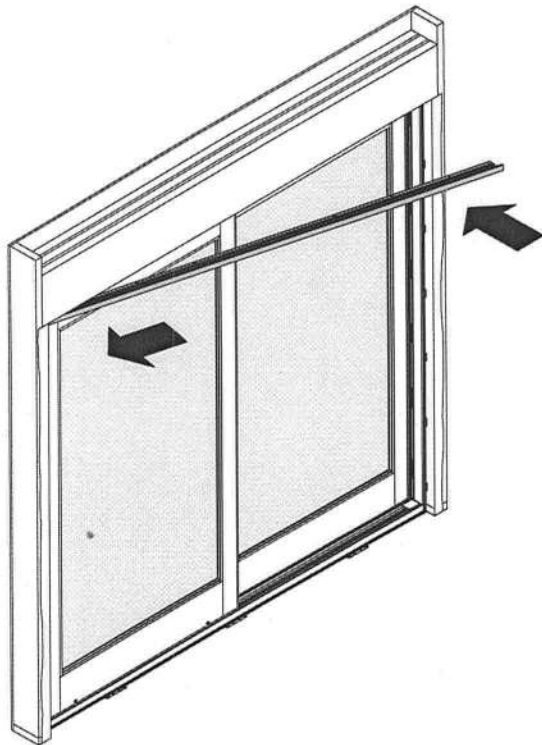
Support panel in frame at all times until secured in next step. Failure to do so may result in panel falling out causing injury, property, and/or product damage.



Position panel rollers on sill track and tip into frame. Slide panel closed.

14

Interior



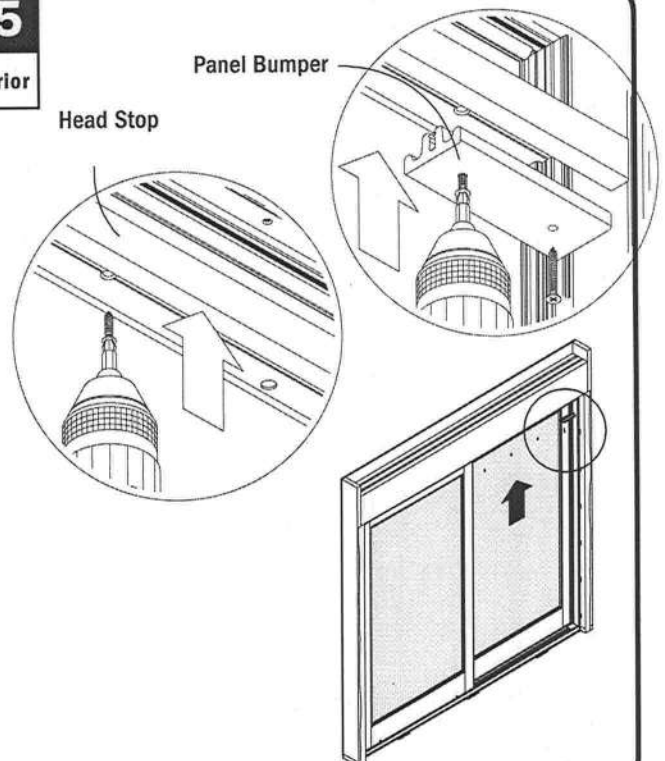
Insert end of head stop into operating side jamb and rotate into position.

15

Interior

Panel Bumper

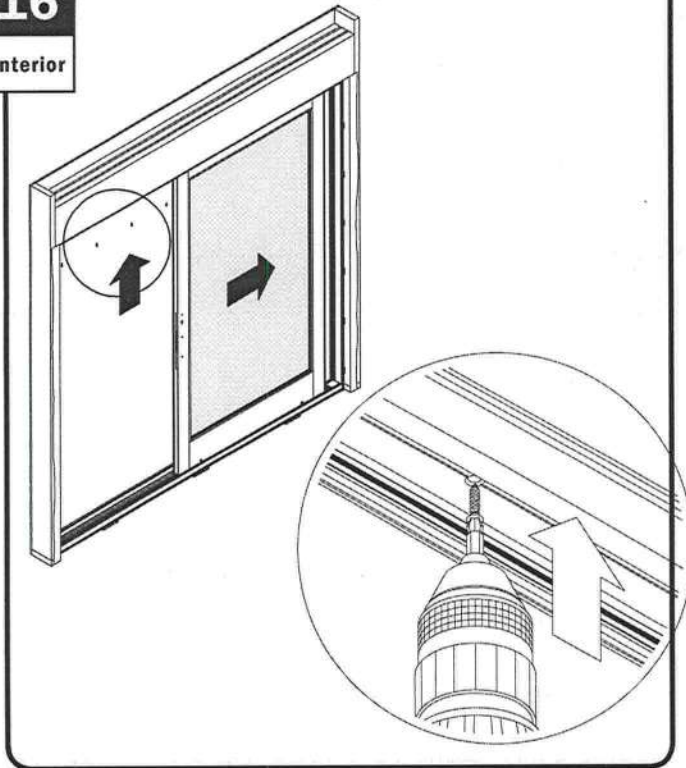
Head Stop



Fasten head stop and bumper(s) using previously removed screws.

16

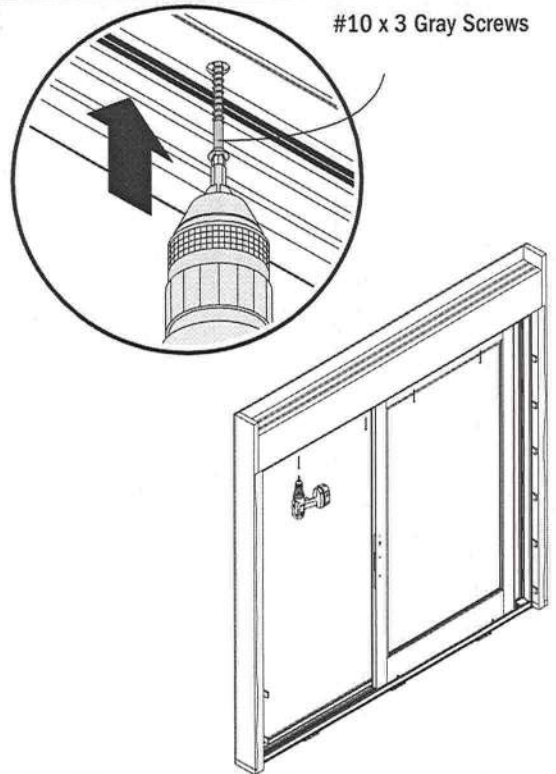
Interior



Open operating panel and fasten head stop on operating side.

17

Interior



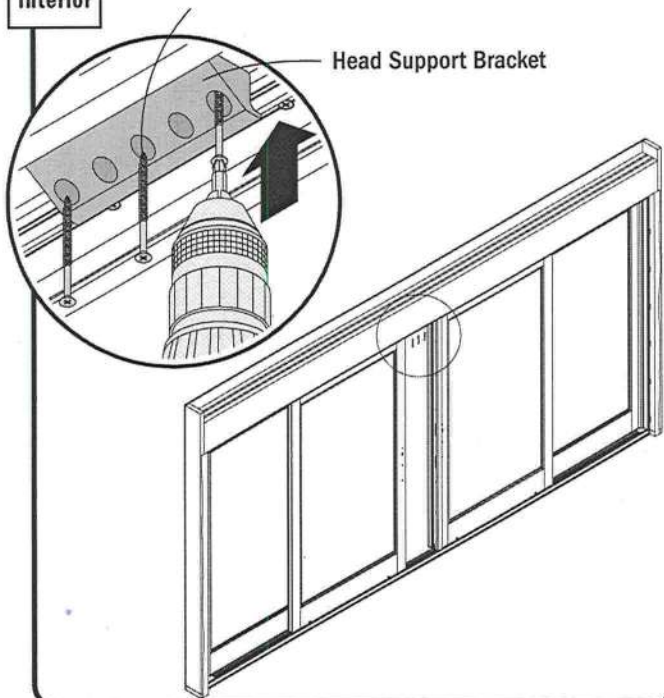
Shim near screw locations at head jamb and secure.

18

Interior

4-Panel Doors Only /

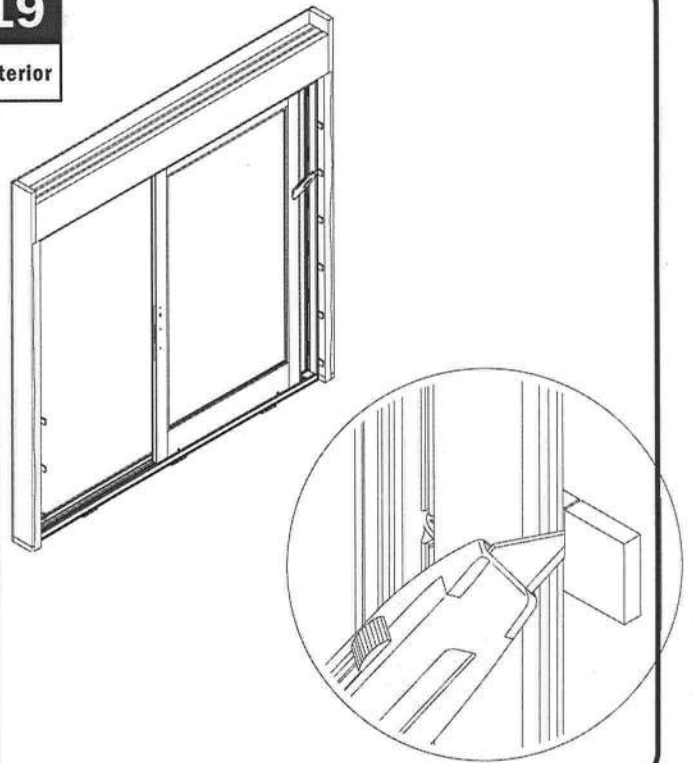
#10 x 3 Stainless Steel Screws



Secure through head support bracket.

19

Interior



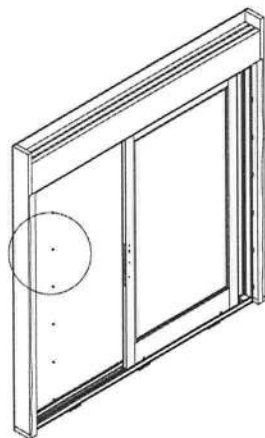
Cut shims flush.

20

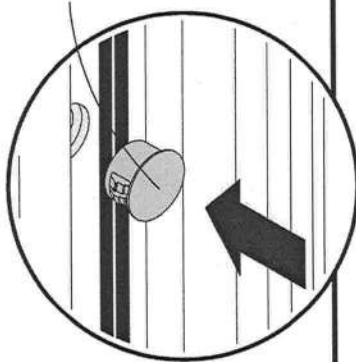
Interior

⚠ WARNING / ADVERTENCIA

Installation Hole Plugs are small parts and, if swallowed, could pose a choking hazard to young children. Remove and dispose of any loose or easily removed installation hole plugs.



Hole Plug

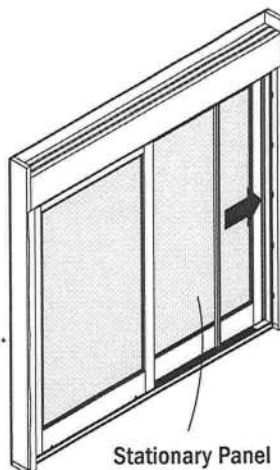


Apply hole plugs at all hole locations on operating side jamb.

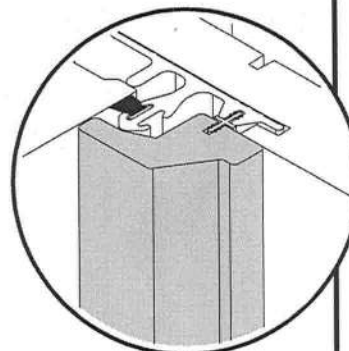
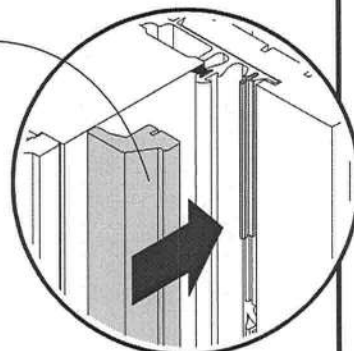
21

Interior

Stationary Jamb Trim
(attach to frame side jamb)



Stationary Panel



Position stationary jamb trim piece to stationary side jamb, tight at top.

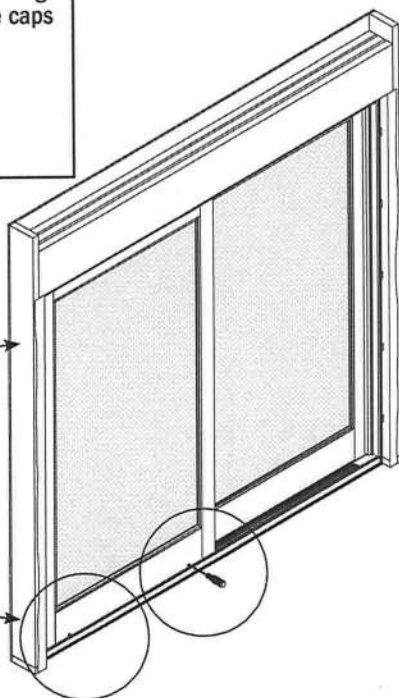
22

Interior

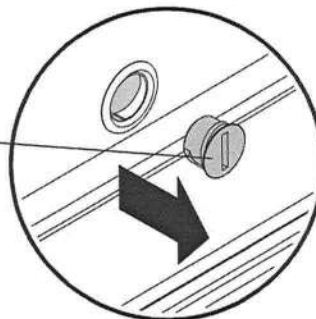
⚠ WARNING / ADVERTENCIA

Adjustment hole caps are small parts. And if swallowed, could pose a choking hazard to young children. Replace caps after making adjustments.

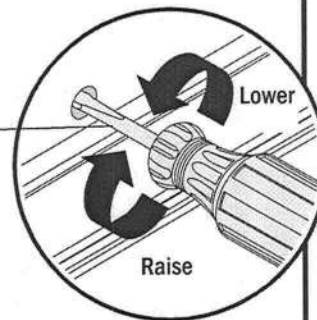
Equal gap between
panel and side jamb



Adjustment
Hole Cap
Replace when
adjustment is
complete.



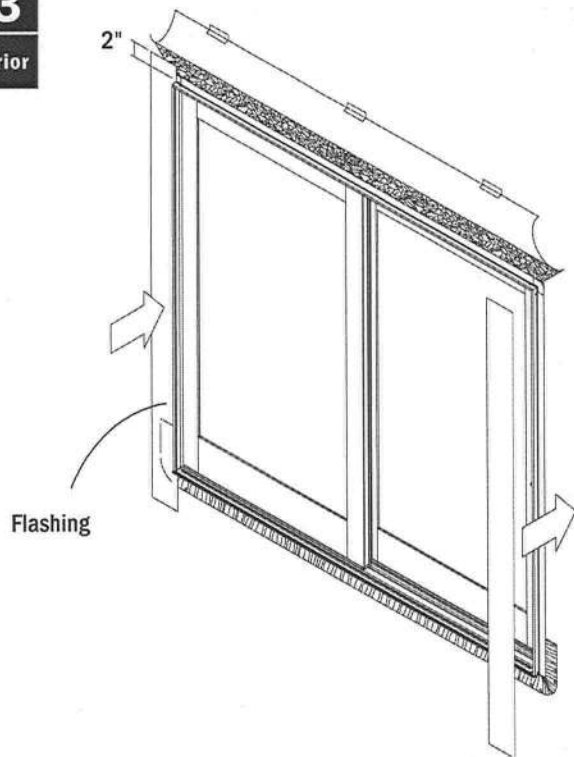
Flat Blade Screwdriver



Open operating panel slightly. Remove adjustment hole caps. Insert flat blade screwdriver into sockets and turn clockwise to raise panel or counter-clockwise to lower panel until gap is equal full length. Replace caps.

23

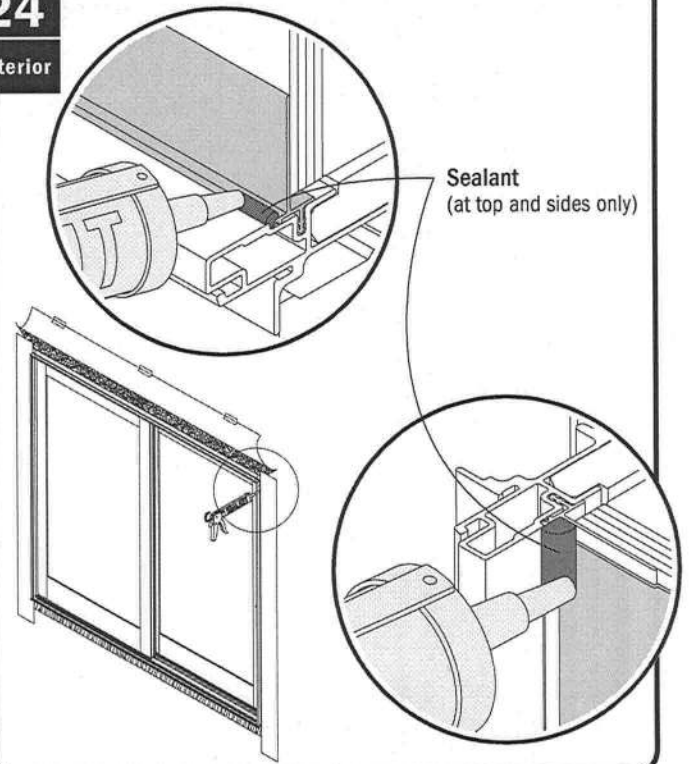
Exterior



Apply flashing at sides.

24

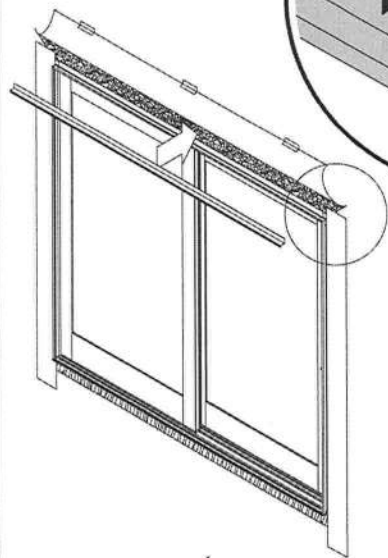
Exterior



Seal sides and top only. Quickly go to next step.

25**Exterior**

Drip Cap (full width)

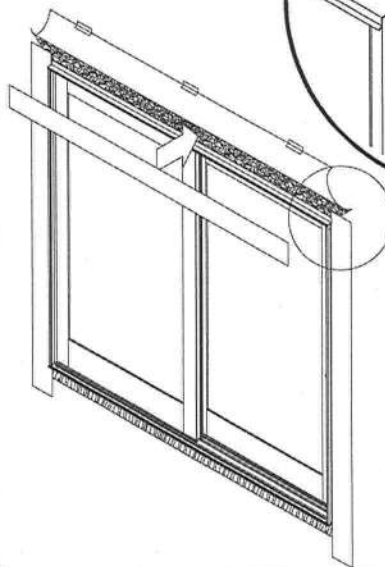


Place drip cap (full width) in sealant.

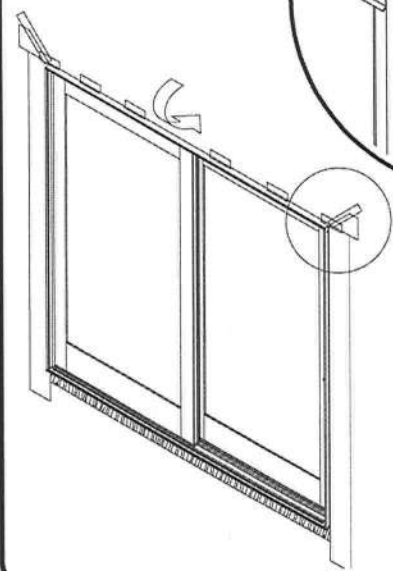
26**Exterior**

Flashing

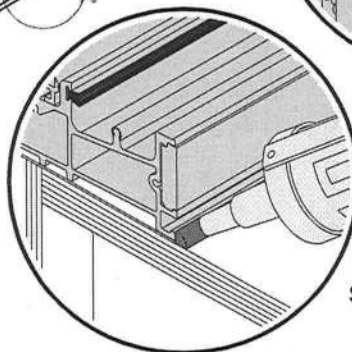
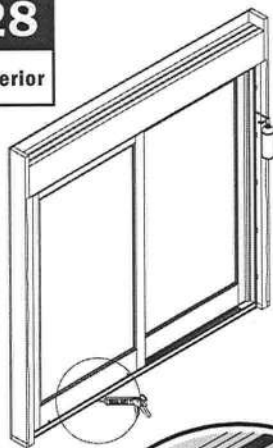
Overlap Side Flashing



Apply flashing over drip cap leg, overlapping side flashing.

27**Exterior**

Fold house wrap down and tape.

28**Interior**Low Expanding Foam
(at sides and top)

Sealant (at sill)

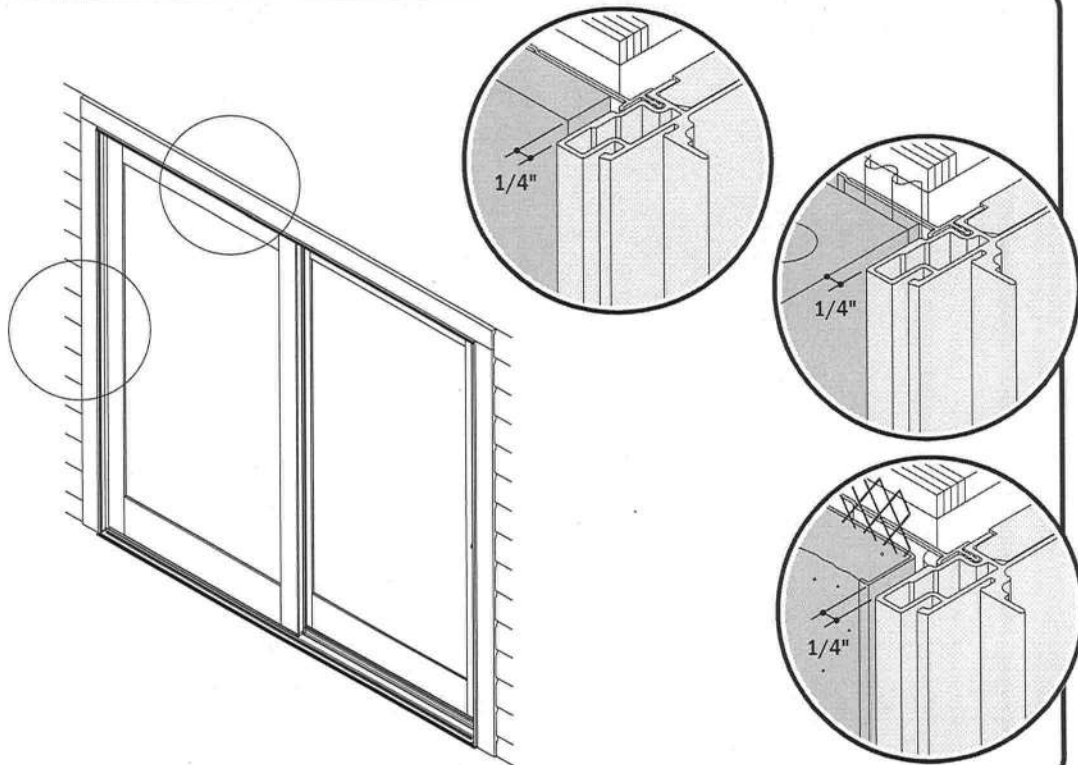
Seal top and sides. Seal at sill and floor.

29

Exterior

**IMPORTANT /
IMPORTANTE**

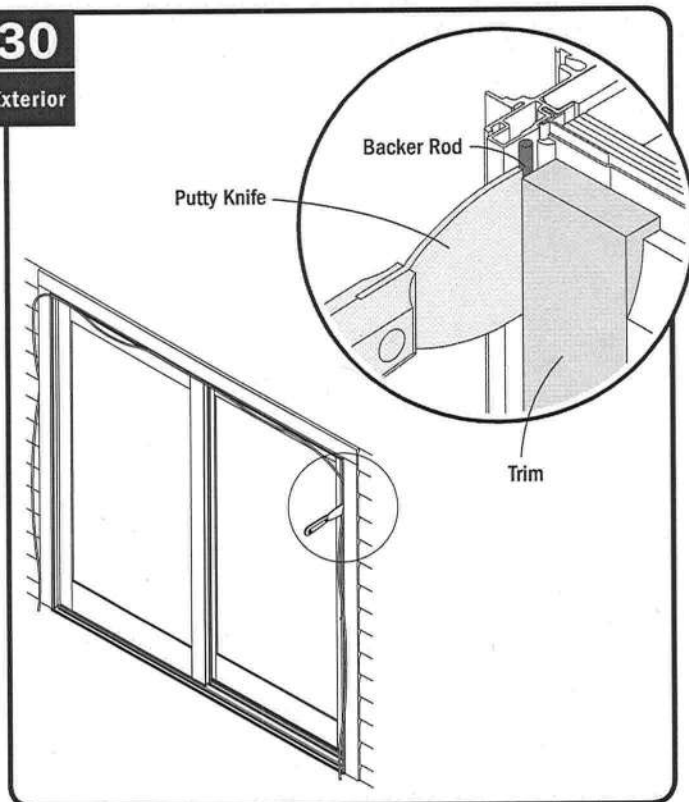
If using Andersen exterior trim, follow instructions provided with exterior trim kit.



Leave 1/4" gap at head and sides between exterior trim/siding/stucco/brick and window for sealing.

30

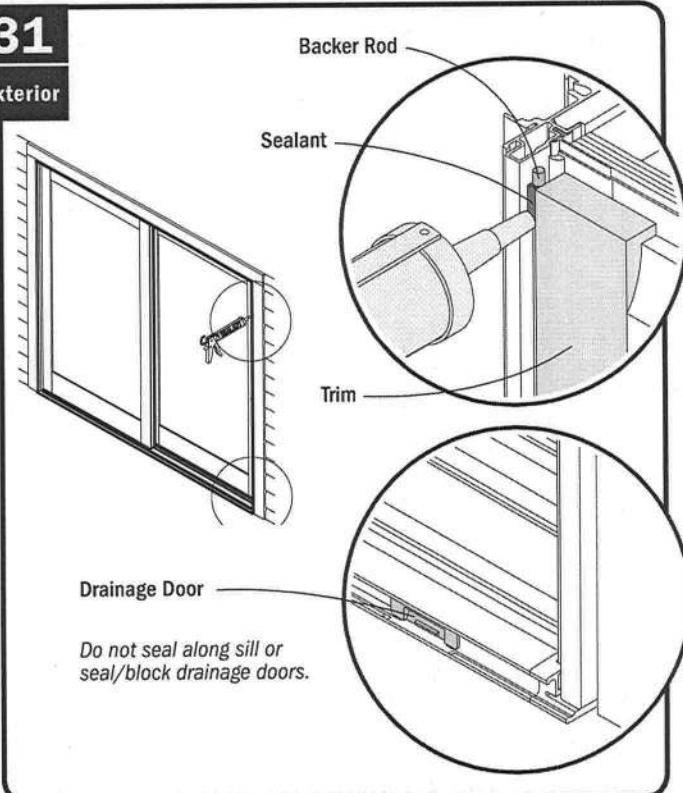
Exterior



Insert backer rod at sides and top between frame and finish material.

31

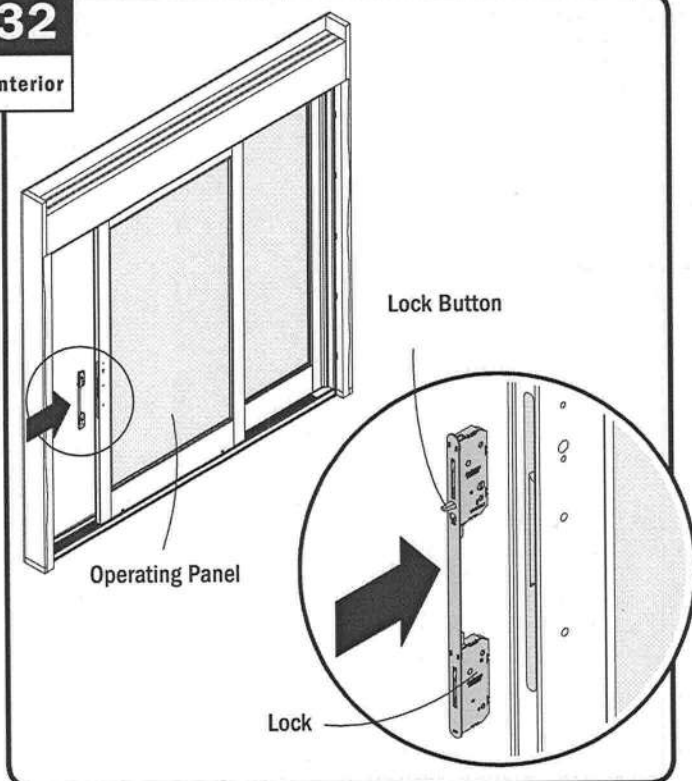
Exterior



Seal on sides and top. **Do not** seal at sill or block drainage doors.

32

Interior



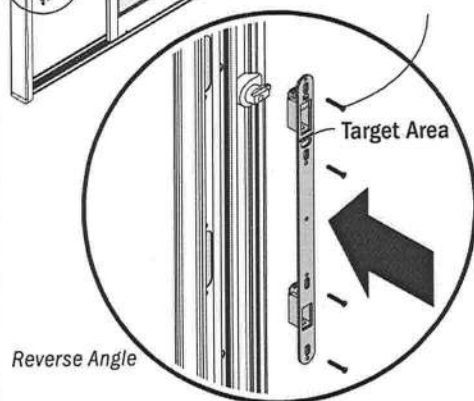
Insert lock in operating panel with lock button on top.

33

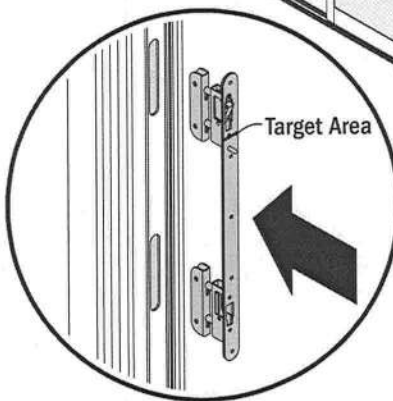
Interior View

Exterior View

#8-32 x 1-1/8"
Machine Screw



2 and 3 Panel Door /

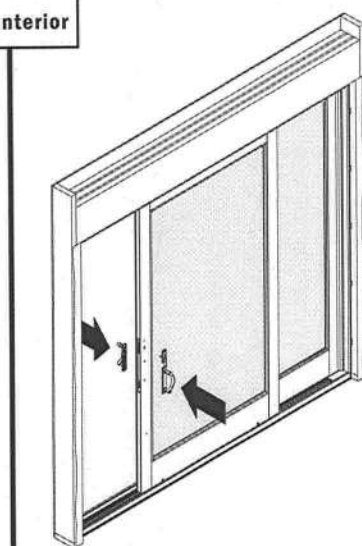


4 Panel Door /

Insert receiver with target area on top and secure.

34

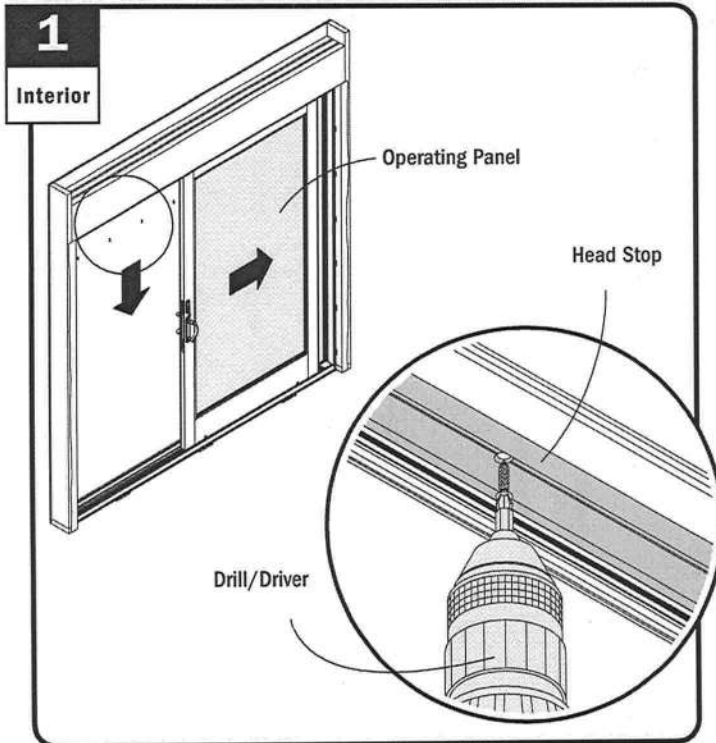
Interior



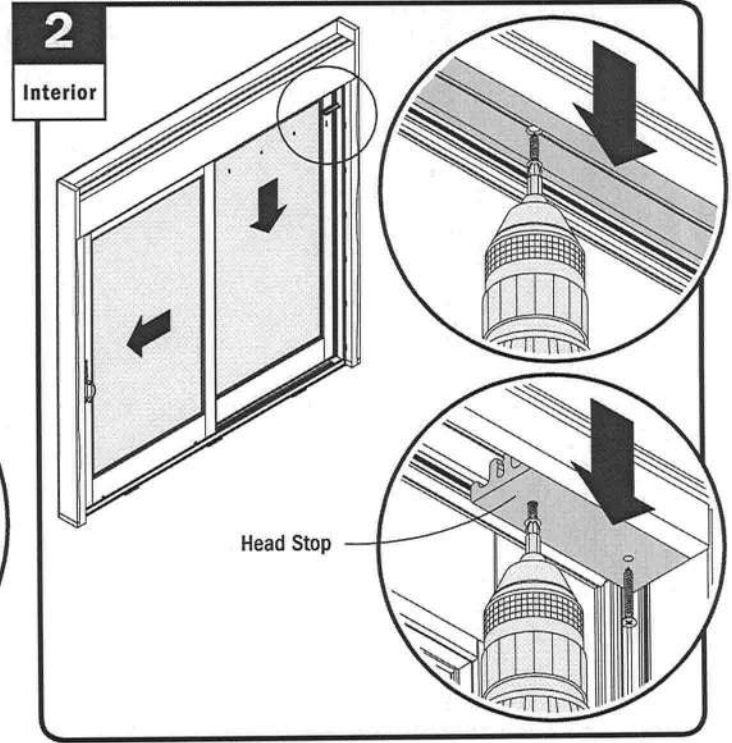
Apply Hardware following hardware installation guide for 2, 3, or 4-Panel Door.

► Installation is completed.

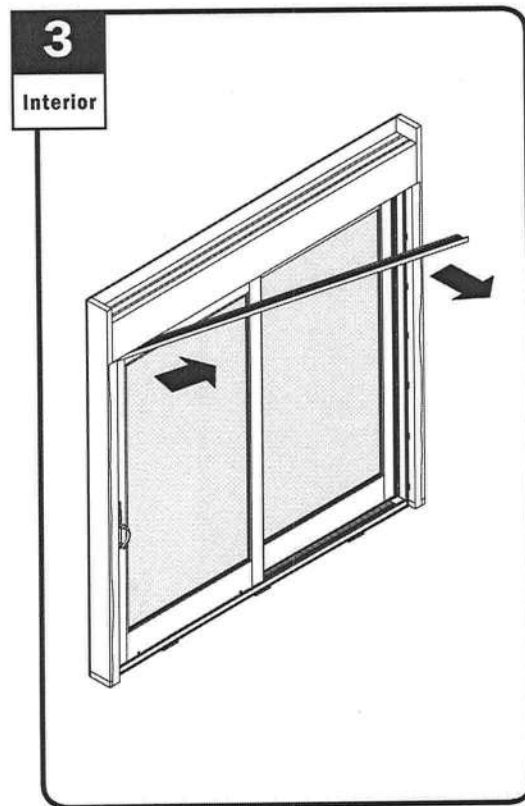
Panel Removal / Panel Removal



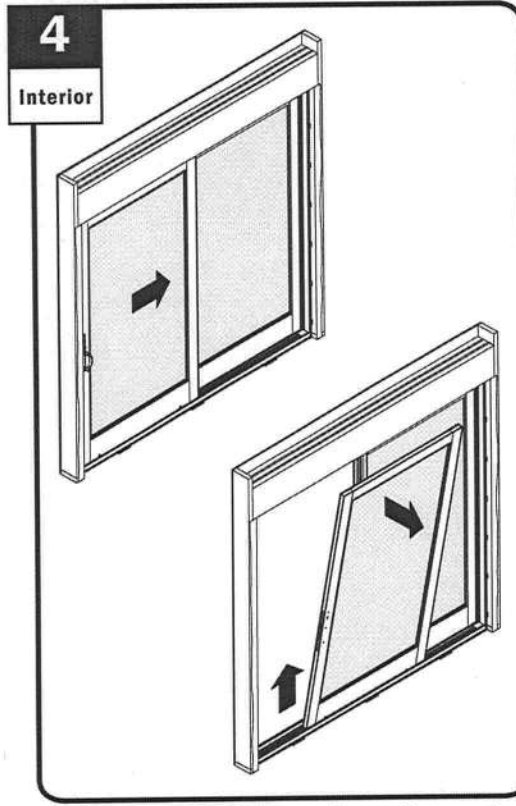
Open operating panel and remove head stop screws and save for reinstallation.



Close and lock operating panel and remove remaining head stop and bumper screws and save for reinstallation.



Lower head stop to top of operating panel and rotate out from operating panel side jamb to remove.

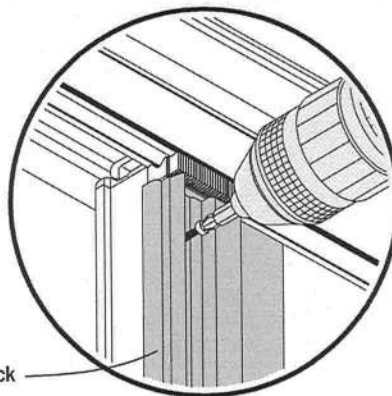
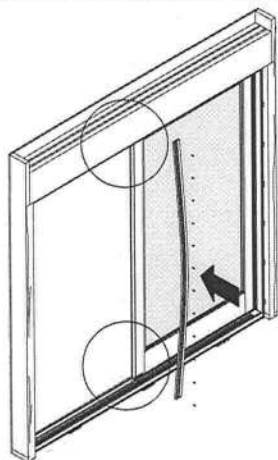


Open operating panel. Tip top of operating panel out and lift to remove.

► Operating panel removal complete. For stationary panel removal, proceed to step 5.

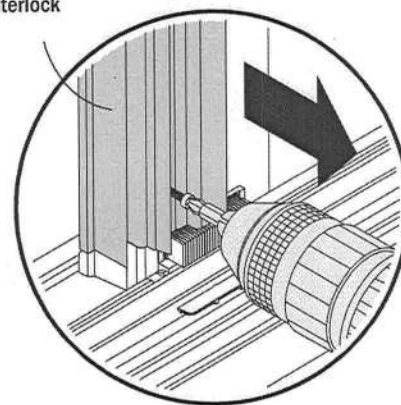
5

Interior



Interlock

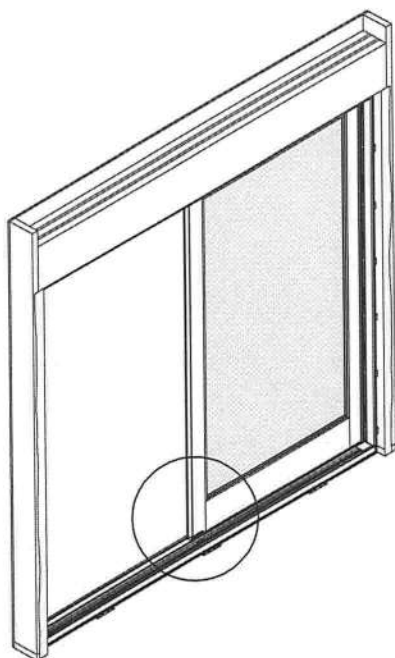
Interlock



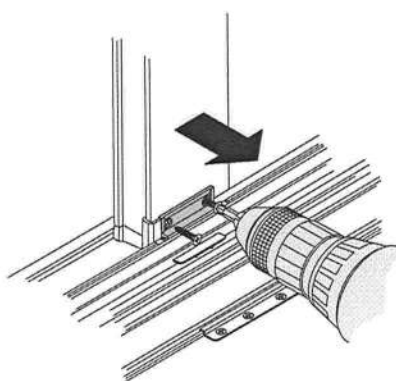
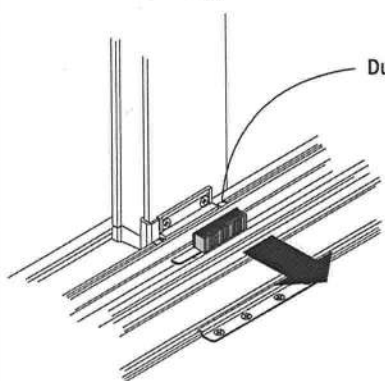
Remove interlock.

6

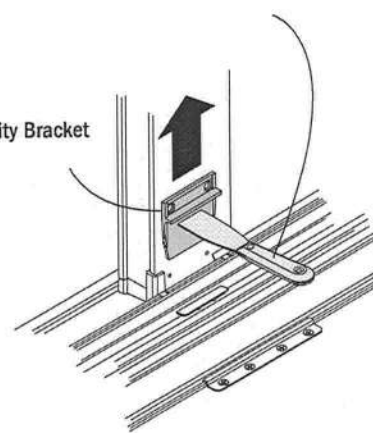
Interior



Dust Pad



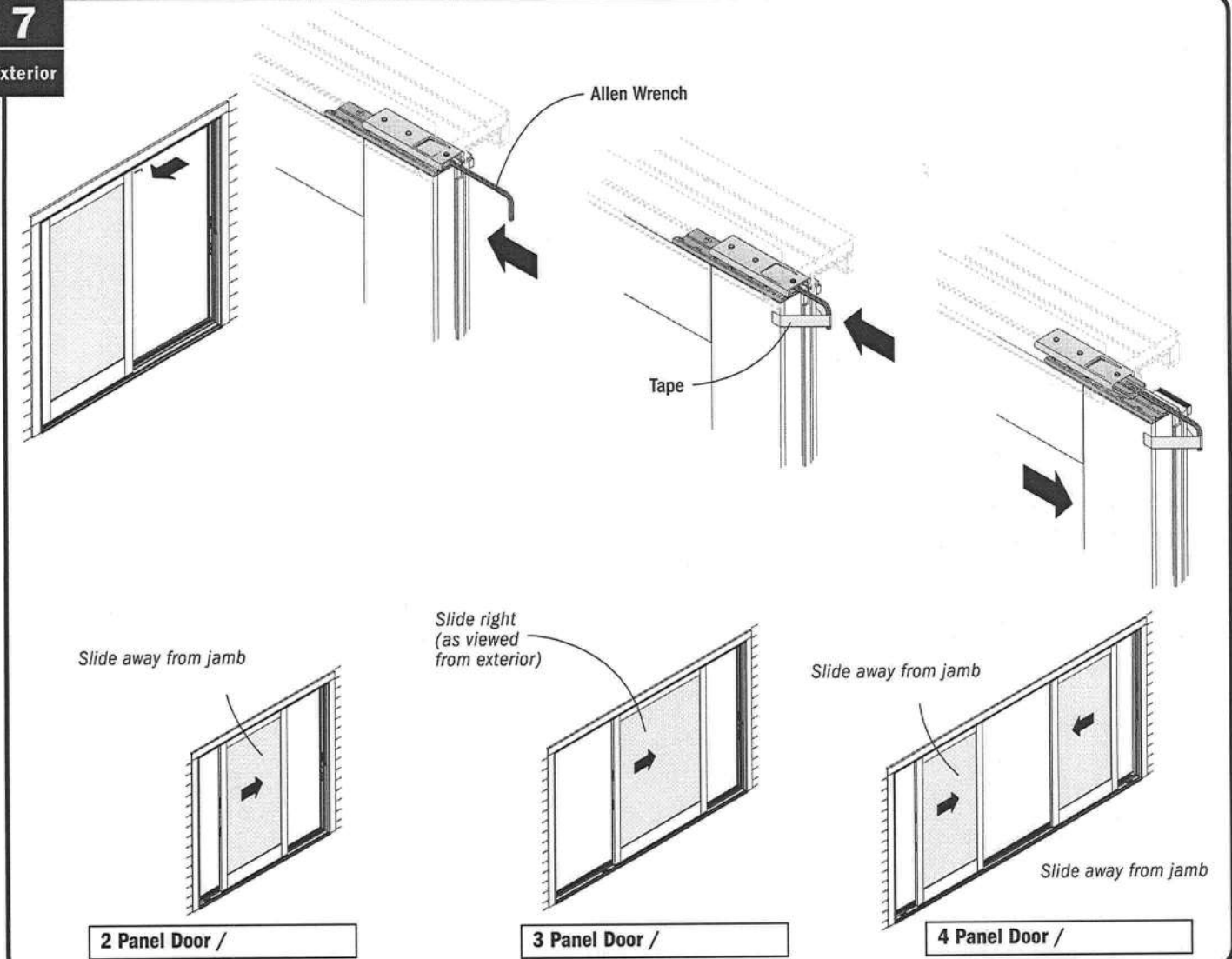
Security Bracket



Remove dust pad, security bracket screws, and security bracket.

7

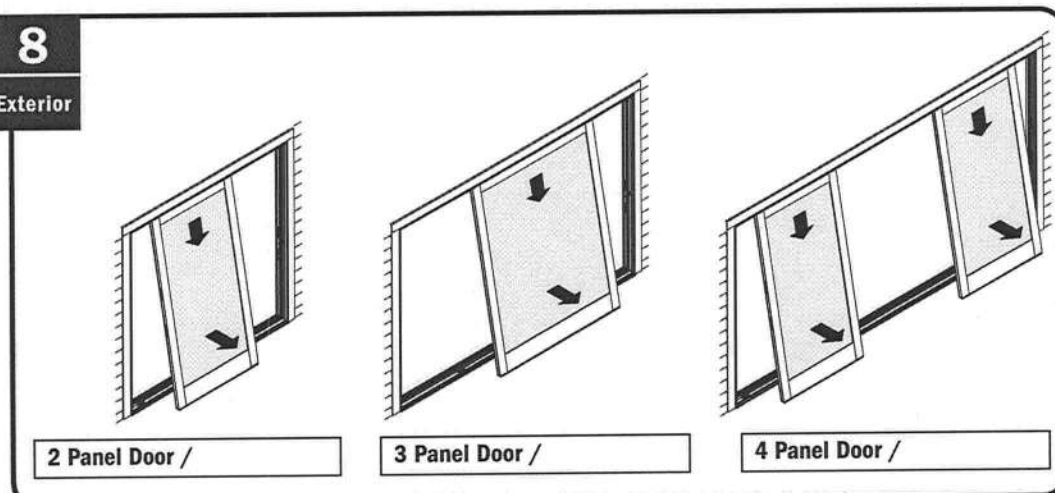
Exterior



Insert 7/32" allen wrench between brackets at top of panel. Tape wrench to head jamb to prevent from falling. Slide panel 6" from side jamb until notches at bottom align with retainers on sill.

8

Exterior



Slide panel 6" until notches at bottom align with retainers on sill. Pull bottom of panel out from frame and remove panel.

► Panel removal is complete.

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