Columbia County Bullding Permit Application

For Office Use Only Application # 0811-34 Date Received 1/20 By JW Permit # 27506
Zoning Official Date 3 12-08 Flood Zone Land Use A-3 Zoning A-3
FEMA Map # MA Elevation NA MFE AND River NA Plans Examiner HD Date 12-1-08
Comments Speed Family Let Permt Sedan 14.9 RV to be discorned from cleative see
NOC ©EH Deed or PA Site Plan D State Road Info D Parent Parcel #
□ Dev Permit # □ In Floodway □ Letter of Auth. from Contractor □ F W Comp. letter IMPACT FEES: EMS 29.88 Fire 78.63 Corr 409.16 Road/Code 9046.00 /210
School 4, 500-00 = TOTAL 73,063.67
Septic Permit No Fax
Name Authorized Person Signing Permit Mary Ann Craw Ford Phone 386-787-5152
Address 1487 SW Commercial Gren Lake City, FL 37025
Owners Name Wilhem? Beth Haake Phone
911 Address 145 nw Argonaute Way, Wnite Springs, PC
Contractors Name Stanley CrawFord ConstructionPhone 326-752-5757
Address 1482 SW Commercial Gren Lake City, M 32025
Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address Mark Disoway PE
Mortgage Lenders Name & Address First Federal Sannys Bank, Lake City, FC
Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec. – Progress Energy
Property ID Number 19-25-16-01654-036 Estimated Cost of Construction 75,000.00\$
Subdivision Name Park meadow Lot Block Unit Phase
Driving Directions 41. N. T.L. Suwannee Valley Rd, TR. White Springs, po
Ave, TR Sophie, TR on Argonite, 2nd lot on left.
эт Existing Dwellings on Property
Construction of Residential name Total Acreage -500 Lot Size -500
Do you need a - <u>Culvert Permit</u> or <u>Culvert Walver</u> or <u>Have an Existing Drive</u> Total Building Height 151-91/2
Actual Distance of Structure from Property Lines - Front 38 Side 50 Side 120 Rear 40
Number of Stories Heated Floor Area Total Floor Area Roof Pitch
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.

PAGE 02/03

Page 1 of 2 (Both Pages must be submitted together.)

Revised 1-10-08

Columbia County Building Permit Application

<u>TIME LIMITATIONS OF APPLICATION</u>: 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.

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 COMMENCMENT 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 hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Welkelm Blanko
Owners Signature

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.

Contractor's Signature (Permitee)

Contractor's License Number RG-0042896
Columbia County

Competency Card Number 000064

Affirmed under penalty of perjury to by the Contractor and subscribed before me this

19 day of

2008

Personally known

or Produced Identification

SEAL:

State of Florida Notary Signature (For the Contractor)

Page 2 of 2 (Both Pages must be submitted together.)

Notary Public State of Florida Lisa L Marinacci My Commission DD749087 Expires 06/20/2011

wised 1-10-08

Notice of Treatment							
Applicator: Florida Pest Control & Chemical Co. (www.flapest.com) Address: 5 36 5 E Baya Dr							
City Jake City Phone 757-1703							
Site Location: Subdivision Lot # Block# Permit # 27506							
Address 145 NW argonot way, white sprys.							
Product used Active Ingredient % Concentration							
Premise Imidacloprid 0.1%							
Termidor Fipronil 0.12%							
Bora-Care Disodium Octaborate Tetrahydrate 23.0%							
Type treatment: Soil Wood							
Area Treated Square feet Linear feet Gallons Applied 1555 173 143							
As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.							
If this notice is for the final exterior treatment, initial this line							
Date / Time Print Technician's Name							
Remarks:							
Applicator - White Permit File - Canary Permit Holder - Pink							

AFFIDAVIT OF SUBDIVIDED REAL PROPERTY FOR USE OF IMMEDIATE FAMILY MEMBERS FOR PRIMARY RESIDENCE

STATE OF FLORIDA COUNTY OF COLUMBIA

BEFORE ME the undersigned Notary Public personally appeared.

	BEFORE ME the undersigned Notary Public personally appeared.
been su	the Owner of the parent tract which has abdivided for immediate family primary residence use, hereinafter the Owner, and helm Hacke, the family member of the
primar Bro	who is the owner of the family parcel which is intended for immediate family y residence use, hereafter the Family Member, and is related to the Owner as and a normal and a n
accordi	ing to law, depose and say:
1.	Both the Owner and the Family Member have personal knowledge of all matters set forth in this Affidavit.
2.	The Owner holds fee simple title to certain real property situated in Columbia County, and more particularly described by reference to the Columbia county Property Appraiser Tax Parcel No. 1928 1601654 () 6
3.	The Owner has divided his parent parcel for use of immediate family members for their primary residence and the parcel divided and the remaining parent parcel are at least ½ acre in size. Immediate family is defined as grandparent, parent, stepparent, adopted parent, sibling, child, step-child, adopted child or grandchild.
4.	The Family Member is a member of the Owner's immediate family, as set forth above, and holds fee simple title to certain real property divided from the Owner's

No person or entity other than the Owner and Family Member claims or is
presently entitled to the right of possession or is in possession of the property, and
there are no tenancies, leases or other occupancies that affect the Property.

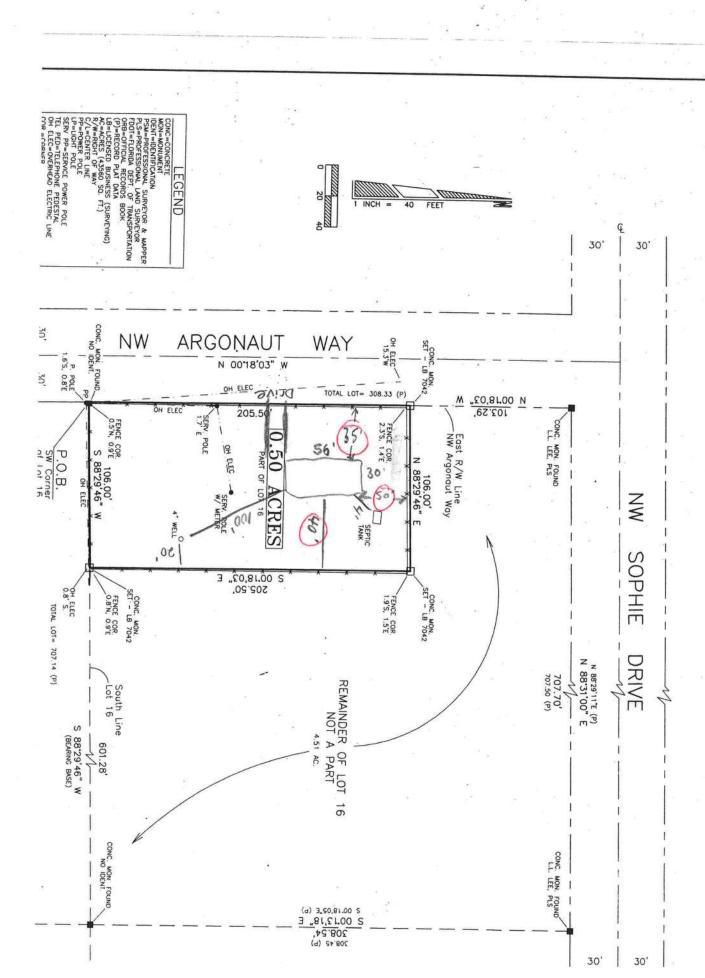
to the Columbia County Property Appraiser Tax Parcel

parcel situated in Columbia County and more particularly described by reference

6. This Affidavit is made for the specific purpose of inducing Columbia County to recognize a family division for a family member on the parcel divided in accordance with Section 14.9 of the Columbia County Land Development Regulations. 7. This Affidavit is made and given by Affiants with full knowledge that the facts contained herein are accurate and complete, and with full knowledge that the penalties under Florida law for perjury include conviction of a felony of the third degree.

We Hereby Certify that the information contained in this Affidavit are true and

Sora MOJocke Owner	Willelm G. Haske Family Member
Typed or Printed Name	Wilhelm G. Haake Typed or Printed Name
Subscribed and sworn to (or affirmed) before 2008, by 1000 Generally known to me or has produced for as identification.	te me this 2 day of Hoake (Owner) who is LDL # 200527736050
Notary Public	Notary Public State of Florida Lisa L Marinacci My Commission DD749087 Expires 06/20/2011
Subscribed and sworn to (or affirmed) before who is personally known to me or has produced as identification.	(Family Member)
Notary Public	Notary Public State of Florida Liga L Marinagel My Commission DD749087 Explas 06/20/2811



QUIT-CLAIM DEED

THIS QUITCLAIM DEED, Executed this 29 day of <u>Iune</u> , 2007, by first party, Lora G. Haake whose post office address is PO Box 342, White Springs, Florida 32096
to second party Wilhelm G. Haake, whose post office address is PO Box 342, White Springs, Florida 32096.
WITNESSETH, That the said first party, for good consideration and for the sum of \$10.00,paid by the said second party, the receipt whereof is hereby acknowledged, does hereby remise, release and quitclaim unto the said second party forever, all the right, title, interest and claim which the said first party has in and to the following described parcel of land, and improvements and appurtenances thereto in the County of Columbia, State of Florida, to wit: One-Half Acre located on far southwest corner of Lot 16, Park
Meadows Subdivision, White Springs, County of Columbia, State of
Florida
IN WITNESS WHEREOF:, The said first party has signed and sealed these presents the day
of year first above written. Signed, sealed and delivered in presence of: Inst:200712014651 Date:7/2/2007 Time:1:38 PM Dpc.Stamp-Deed:0.70 Dc.P. DeWitt Cason , Columbia County Page 1 of 1
Witness Affiant: Known Unknown ID Produced FI H
Flefer Wilhelm & Horske
Witness Wilhelm G. Haake, Second Party Affiant: Known Unknown ID Produced FI H
STATE OF FLORIDA COUNTY OF Kamelian On this Letter of Lora G. Haake and Lora G. Haake
spersonally appeared, personally known—to me. (or proved to me on
the basis of satisfactory multiplence) to be the person(s) whose name(s) are subscribed to the within instrument and same in his/her/their against against eight cit sies) and that by his/her/their signatures(s) on the instrument
the persons on the entity appeals shalf of which the persons acted, executed the instrument. WITNESS my have and office seal: Malun Slaw
Notary Scal: Signature

30 Ft Front Page 1 of 2 75 Ft Sioles + Rear

Columbia County Property Appraiser

DB Last Updated: 10/21/2008

Parcel: 19-2S-16-01654-036

2008 Certified Values

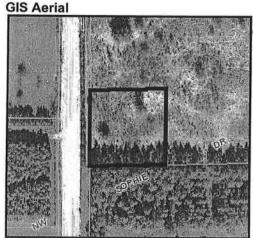
Tax Record Property Card Interactive GIS Map

<< Prev

Owner & Property Info

Owner's Name	HAAKE WILH	HAAKE WILHELM G					
Site Address	2						
Mailing Address	P O BOX 342 WHITE SPRINGS, FL 320960342						
Use Desc. (code)	VACANT (000000)						
Neighborhood	19216.02	Tax District	3				
UD Codes	MKTA03	Market Area	03				
Total Land Area	0.500 ACRES	- K - 10					
Description	.50 AC IN SW COR OF LOT 16 PARKMEADOW S/D. 1000-2773, QC 1123-1786, QC 1123-2189.						

Search Result: 3 of 3



Property & Assessment Values

Total Appraised Value	\$ 5	\$7,600.00
XFOB Value	cnt: (0)	\$0.00
Building Value	cnt: (0)	\$0.00
Ag Land Value	cnt: (0)	\$0.00
Mkt Land Value	cnt: (1)	\$7,600.00

Just Value	\$7,600.00	
Class Value	\$0.00	
Assessed Value	\$7,600.00	
Exempt Value	\$0.00	
Total Taxable Value	\$7,600.00	

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
6/29/2007	1123/2189	QC	V	U		\$100.00

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 Bit	Value	Units	Dims	Condition (% Good)
				NONE		

Land Breakdown

Lnd Code	d Code Desc Units		Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	.500 AC	1.00/1.00/1.00/1.00	\$15,200.00	\$7,600.00

Columbia County Property Appraiser

DB Last Updated: 10/21/2008

<< Prev

3 of 3

1811-34

17333

Inst:200812020730 Date:11/17/2008 Time:12:32 PM ______DC,P.DeWitt Cason,Columbia County Page 1 of 2 B:1162 P:565

This instrument Prepared By: Michael H. Harrell Abstract & Title Services, Inc. 283 NW Cole Terrace Lake City, Florida 32055

NOTICE OF COMMENCEMENT

TO WHOM IT MAY CONCERN:

The undersigned hereby give notice that improvements will be made to certain real property and in accordance with Chapter 713. Florida Statues, the following is provided in this Notice of Commencement:

- Description of Property: See Exhibit "A" attached hereto and by this reference made a part thereof
- General Description of Improvement: Construction of Dwelling
- Owner Information:
 - a. Name and Address: Wilhelm G. Haake and Beth A. Haake, 145 NW Argonaut Way, White Springs, FL
 - b. Interest in property: Fee Simple
 - c. Name and address of fee simple title holder (If other than Owner): NONE
- Contractor (name and address): Stanley Crawford Construction Inc., 853 SW Sisters Welcome Road, Lake City, FL 32025
- 5. Surety:
 - a. Name and Address: N/A
 - b. Amount of Bond: N/A
- 6. LENDER: First Federal Savings Bank of Florida 4705 West US Highway 90 PO Box 2029 Lake City, FL 32056
- Persons within the State of Florida designated by Owner upon whom notices of other documents may be served as provided in Section 713.13(1)(a)7., Florida Statutes: NONE
- in addition to himself. Owner designates PAULA HACKER, of FIRST FEDERAL SAVINGS BANK OF FLORIDA at 4705 WEST US HIGHWAY 90 / PO BOX 2029, LAKE CITY, FL 32056, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b) Florida Statutes.
- Expiration date of Notice of Commencement (the expiration date is 1 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 1 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 NEED TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

*Owner is used for singular or plural as context requires.

Slaned, socied and delivered in the presence: WITNESS

Haake

STATE OF FLORIDA COUNTY OF COLUMBIA

Before me, personally appeared Wilhelm G. Haake, and his wife, Beth A. Haake, to me known to be the person(s) described in and who executed the foregoing instrument, and they acknowledged to and before me that they executed said instrument for the purpose therein expressed.

Witness my hand and official seal this 12th day of October, 2008.

(SEAL)

NOTARY PUBLIC

My Commission Expires:

DONNA COX Notary Public, State of Florida My Comm. Expires Jan. 16, 2010 Commission No. DO 507061

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 ap

ATS #17333

Exhibit "A"

A part of Lot 16, Parkmeadow Subdivision, as recorded in the Public Records of Columbia County, Florida, being more particularly described as follows: Begin at the Southwest corner of said Lot 16 and run North 00°18'03" West, along the West line of said Lot 16, being also the Easterly right-of-way line of NW Argonaut Way, 205.50 feet; thence North 88°29'46" East, parallel to the South line of said Lot 16, a distance of 106.00 feet; thence South 00°18'03" East, parallel to the West line of said Lot 16, a distance of 205.50 feet to a point on the South line of said Lot 16; thence South 88°29'46" West, along said South line, 106.00 feet to the Point of Beginning.

D . :

Water Wells Pumps & Service Phone: (386) 752-6677 Fax: (386) 752-1477

Lynch Well Drilling, Inc.

173 SW Young Place Lake City, FL 32025 www.lynchwelldrilling.com

April 12, 2007

Columbia County Building Department P. O. Box 1529 Lake City, Fl. 32056

To Whom It May Concern:

As required by building code regulations for Columbia County in order that a building permit can be issued, the following well information is provided with regard to the above-referenced well:

Size of Pump Motor:

1 Horse Power

Size of Pressure Tank:

81-Gallon Bladder Tank

Cycle Stop Valve Used:

No

Should you require any additional information, please contact us.

Sincerely,

Linda Newcomb

Lynch Well Drilling, Inc.

isida New comb

386-752-1477

Water Wells Pumps & Service Phone: (386) 752-6677 Fax: (386) 752-1477

Lynch Well Drilling, Inc.

173 SW Young Place Lake City, FL 32025 www.lynchwelldrilling.com

Casing Size 4 inch Steel

Pump Installation:

Deep Well Submersible

Pump Make Aermotor

Pump Model S20-100

HP 1

System Pressure (PSI) On 30

Off 50 Average Pressure 40

Pumping System GPM at average pressure and pumping level 20(GPM)

Tank Installation: Bladder / Galvanized Make

Challenger

Model PC 244 Size 81 gallon

Tank Drawdown per cycle at system pressure 25.1 gallons

nota New Comb

2609

License Number

Linda Newcomb

Print Name

4/12/07

Date

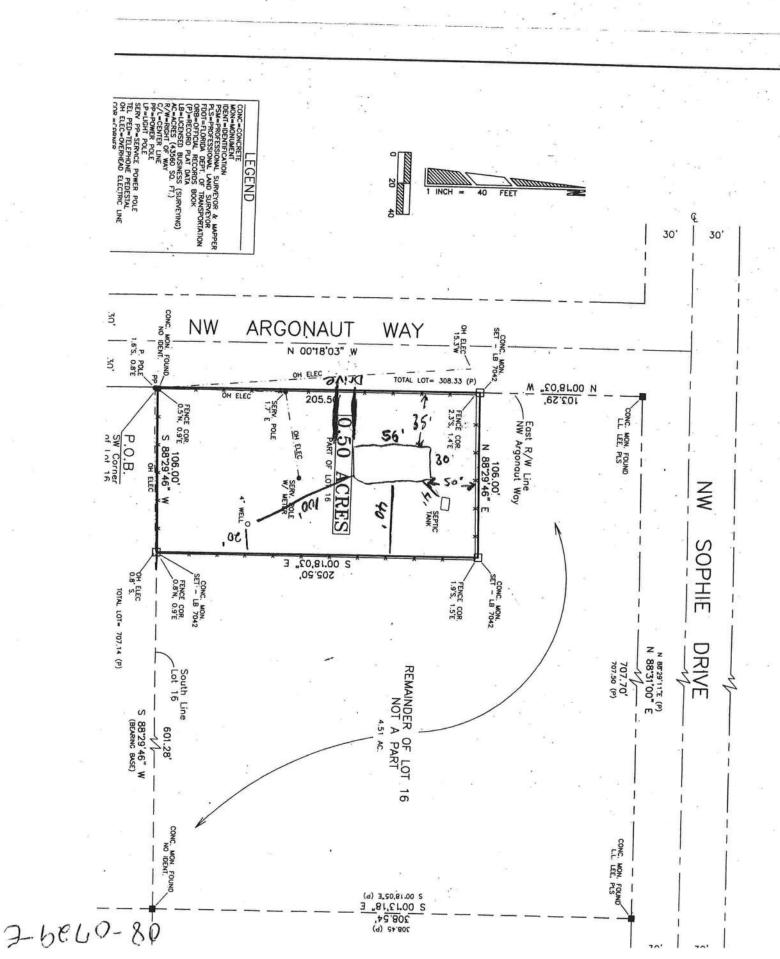


STATE OF FLORIDA DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number _ 08 - 729- E PART II - SITE PLAN - ---Scale: Each block represents 5 feet and 1 inch = 50 feet. Gee attached Rest of Argonaut 30 100.00° Notes: Site Plan submitted by: Title Plan Approved U 12-2-08 Not Approved Date County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



SOV



STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMI



PERMIT NO. AP 903 149

DATE PAID: 12/25/08

FEE PAID: 110.00

RECEIPT #: 12-PTO-108/682

42.					-	12	10-1081682
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[] Repair		Existing Sy Abandonment		[] Hold	ling Tank	[]	Innovative
<:.I	10			Temp	orary	[]	
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John S. John	a crawy	ed on	Stuetter,	che	TELF	PHONE:	752-5752
MAILING ADDRESS	: 1482 S	W Con	ineccia	0 6%	-	1 1.	14 = 1
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DH 4015, 10/97 – Page 1 (Previous editions may be used) Stock Number: 5744-001-4015-1

Page 1 of 2

OWNER/AGENT:

DATE:

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name: Haake Residence Address: City, State: , Owner: Climate Zone: North	Builder: CHOWSord Permitting Office: Columbia Permit Number: 27 506 Jurisdiction Number: 2 2 1000
1. New construction or existing 2. Single family or multi-family 3. Number of units, if multi-family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area (ft²) 7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default) a. U-factor:	12. Cooling systems a. Central Unit Cap: 36.0 kBtu/hr SEER: 13.00 b. N/A c. N/A 13. Heating systems a. Electric Heat Pump Cap: 36.0 kBtu/hr HSPF: 7.70 b. N/A c. N/A 14. Hot water systems a. Electric Resistance Cap: 40.0 gallons EF: 0.92 b. N/A c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) 15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)
Glass/Floor Area: 0.06 Total as-built portion Total base portion of Total as-built portion of Total base portion of Total as-built portion of Total as-built portion of Total as-built portion of Total as-built portion of Total base portion of Total as-built portion of Total base	

BUILDING OFFICIAL:

DATE:

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: ,,, PERMIT #:

BASE	AS-BUILT
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area	Overhang Type/SC Ornt Len Hgt Area X SPM X SOF = Points
.18 1414.0 18.59 4732.0	1.Single, Clear SE 0.0 0.0 15.0 48.65 1.00 729.0
	2.Single, Clear NW 0.0 0.0 30.0 29.42 1.00 882.0
ε.	3.Single, Clear SW 0.0 0.0 6.0 45.75 1.00 274.0
* *	4.Single, Clear NE 0.0 0.0 30.0 33.55 1.00 1006.0
	As-Built Total: 81.0 2891.0
WALL TYPES Area X BSPM = Points	Type R-Value Area X SPM = Points
Adjacent 0.0 0.00 0.0	1. Frame, Wood, Exterior 13.0 1271.8 1.50 1907.7
Exterior 1271.8 1.70 2162.1	· ·
Base Total: 1271.8 2162.1	As-Built Total: 1271.8 1907.7
DOOR TYPES Area X BSPM = Points	Type Area X SPM = Points
Adjacent 0.0 0.00 0.0	1.Exterior Wood 20.4 6.10 124.4
Exterior 61.2 6.10 373.3	2.Exterior Wood 40.8 6.10 248.9
Base Total: 61.2 373.3	As-Built Total: 61.2 373.3
CEILING TYPES Area X BSPM = Points	Type R-Value Area X SPM X SCM = Points
Under Attic 1414.0 1.73 2446.2	1. Under Attic 19.0 1414.0 2.34 X 1.00 3308.8
Base Total: 1414.0 2446.2	As-Built Total: 1414.0 3308.8
FLOOR TYPES Area X BSPM = Points	Type R-Value Area X SPM = Points
Slab 188.0(p) -37.0 -6956.0	1. Slab-On-Grade Edge Insulation 0.0 188.0(p -41.20 -7745.6
Raised 0.0 0.00 0.0	The state of the s
Base Total: -6956.0	As-Built Total: 188.0 -7745.6
INFILTRATION Area X BSPM = Points	Area X SPM = Points
1414.0 10.21 14436.9	1414.0 10.21 14436.9

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: ,,,	PERMIT #:

	BASE		AS-BUILT								
Summer Ba	ase Points: 1	7194.5	Summer As-Built Points:	15172.1							
Total Summer Points	X System = Multiplier	Cooling Points	Total X Cap X Duct X System X Credit = Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	Cooling Points							
17194.5	0.3250	5588.2	(sys 1: Central Unit 36000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 15172 1.00 (1.09 x 1.147 x 1.00) 0.260 0.902 15172.1 1.00 1.250 0.260 0.902	4451.0 4451.0							

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE	AS-BUILT
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area	Overhang Type/SC Ornt Len Hgt Area X WPM X WOF = Poir
.18 1414.0 20.17 5134.0	1.Single, Clear SE 0.0 0.0 15.0 21.82 1.00 327. 2.Single, Clear NW 0.0 0.0 30.0 32.93 1.00 987. 3.Single, Clear SW 0.0 0.0 6.0 24.09 1.00 144. 4.Single, Clear NE 0.0 0.0 30.0 32.04 1.00 961.
WALL TYPES Area X BWPM = Points	As-Built Total: 81.0 2419. Type R-Value Area X WPM = Points
Adjacent 0.0 0.00 0.0 Exterior 1271.8 3.70 4705.7	1. Frame, Wood, Exterior 13.0 1271.8 3.40 4324.
Base Total: 1271.8 4705.7	As-Built Total: 1271.8 4324.
DOOR TYPES Area X BWPM = Points	Type Area X WPM = Points
Adjacent 0.0 0.00 0.0 Exterior 61.2 12.30 752.8	1.Exterior Wood 20.4 12.30 250. 2.Exterior Wood 40.8 12.30 501.
Base Total: 61.2 752.8	As-Built Total: 61.2 752.
CEILING TYPES Area X BWPM = Points	Type R-Value Area X WPM X WCM = Points
Under Attic 1414.0 2.05 2898.7	1. Under Attic 19.0 1414.0 2.70 X 1.00 3817.0
Base Total: 1414.0 2898.7	As-Built Total: 1414.0 3817.5
FLOOR TYPES Area X BWPM = Points	Type R-Value Area X WPM = Points
Slab 188.0(p) 8.9 1673.2 Raised 0.0 0.00 0.0	1. Slab-On-Grade Edge Insulation 0.0 188.0(p 18.80 3534.4
Base Total: 1673.2	As-Built Total: 188.0 3534.4
INFILTRATION Area X BWPM = Points	Area X WPM = Points
1414.0 -0.59 -834.3	1414.0 -0.59 -834.3

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: ,,,	PERMIT #:

a k	BASE	. 3	AS-BUILT								
Winter Base	Points:	14330.1	Winter As-Built Points:	14013.8							
Total Winter X Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	= Heating Points							
14330.1	0.5540	7938.9	(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Gard 14013.8 1.000 (1.069 x 1.169 x 1.00) 0.443 0.950 14013.8 1.00 1.250 0.443 0.950	(AH),R6.0 7367.8 7367.8							

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE					AS-BUILT							
WATER HEA Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	х	Tank X Ratio	Multiplier	X Credit Multiplie	
4		2635.00		10540.0	40.0 As-Built To	0.92	4		1.00	2635.00	1.00	10540.0 10540.0

* 2	CODE COMPLIANCE STATUS												
		BAS	SE							AS.	-BUILT		
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+,	Heating Points	+	Hot Water Points	=	Total Points
5588		7939		10540		24067	4451		7368		10540		22359

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:
7.22.1.2011111	T LIXWIT #.

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.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	606.1.ABC.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	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of 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	606.1.ABC.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 rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	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%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.7

The higher the score, the more efficient the home.

1.	New construction or existing	New	12	2. Cooling systems		
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 36.0 kBtu/	hr
3.	Number of units, if multi-family	1			SEER: 13.0	
4.	Number of Bedrooms	4	5.7	b. N/A		_
5.	Is this a worst case?	Yes			*	_
6.	Conditioned floor area (ft²)	1414 ft ²		c. N/A		_
7.	Glass type 1 and area: (Label reqd. by					_
a.	U-factor:	Description Area	13	Heating systems		_
	(or Single or Double DEFAULT) 7a	a(Sngle Default) 81.0 ft ²		a. Electric Heat Pump	Cap: 36.0 kBtu/l	hr
b.	SHGC:	(0	_		HSPF: 7.70	_
	(or Clear or Tint DEFAULT) 7	b. (Clear) 81.0 ft ²		b. N/A		
8.	Floor types	(_			
a.	Slab-On-Grade Edge Insulation	R=0.0, 188.0(p) ft	_	c. N/A	75	
b.	N/A					
c.	N/A		_ 14	. Hot water systems		
	Wall types			a. Electric Resistance	' Cap: 40.0 gallor	ıs
a.	Frame, Wood, Exterior	R=13.0, 1271.8 ft ²	_		_ EF: 0.9	2 _
b.	N/A		_	b. N/A		-
c.	N/A		_			-
	N/A	ž.	_	c. Conservation credits		_
	N/A		_	(HR-Heat recovery, Solar		
	Ceiling types			DHP-Dedicated heat pump)		
	Under Attic	R=19.0, 1414.0 ft ²	_ 15	. HVAC credits	PT, CI	F,
	N/A		_	(CF-Ceiling fan, CV-Cross ventilation,		
	N/A		_	HF-Whole house fan,		
11.	TO 12 (17 (17 (17 (17 (17 (17 (17 (17 (17 (17			PT-Programmable Thermostat,		
	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 120.0 ft	_	MZ-C-Multizone cooling,		
b. 1	N/A		_	MZ-H-Multizone heating)	•	
				n		
Leer	tify that this home has complied	with the Florida Energy	Efficienc	w Code For Puilding		
Cone	truction through the above energ	with the Florida Energy	Efficient	rotalled (or averaged)	OF THE STATE	d.
in thi	s home before final inspection (y saving leatures which	Will be in	installed (or exceeded)	STATE OF THE STATE	34
	s home before final inspection. (rispiay Ca	ard will be completed	15/200	131
	d on installed Code compliant fea					Z
Build	ler Signature:		Date:	-	13	[2]
Addr	ess of New Home:	n -	City/FL 2	Zip:	GOD WE TRUS	SERVER
*NO2	TE: The home's estimated energy	performance score is o	only avail	able through the FLA/RES compute	er program.	

This is <u>not</u> a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar[™]designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCPB v4.5.2)

Construction, contact the Department of Community Affairs at 850/487-1824.



OCCUPANC

COLUMBIA COUNTY, FLORIDA

partment of Building and Zoning Inspection

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

Parcel Number 19-2S-16-01654-036

Building permit No. 000027506

Use Classification SFD, UTILITY

Fire: 44.94

Permit Holder STANLEY CRAWFORD

Owner of Building WILHEM & BETH HAAKE

Waste: 117.25

Location: 145 NW ARGONAUTE WAY, WHITE SPRINGS, FL

> Total: 162.19

Date: 03/10/2009

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)

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FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Address: City, State: Owner: Climate Zone:	, North		Permitting Office: Permit Number: Jurisdiction Number:	Stanley Crawford
a. U-factor:	nulti-family f multi-family oms e? area (ft²) rea: (Label reqd. by 13-10 ble DEFAULT) 7a. (Dbl DEFAULT) 7b. lige Insulation	R=13.0, 1200.0 ft ² R=30.0, 1414.0 ft ² R=6.0, 122.0 ft	12. Cooling systems a. Central Unit b. N/A c. N/A 13. Heating systems a. Electric Heat Pump b. N/A c. N/A 14. Hot water systems a. Electric Resistance b. N/A c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) 15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	Cap: 30.0 kBtu/hr
Glas	s/Floor Area: 0.11		points: 19496 PAS	S

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

PREPARED BY: Sunco AST JASUla to SS

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

OWNER/AGENT: _____

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:		

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Code Compliance Checklist

Residential Whole Building Performance Method A - Details

AND THE PERSON OF THE PERSON O	the state of the s
ADDRESS: ,,,	PERMIT #:
	TANDER OF THE PROPERTY OF THE

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: 3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.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	606.1.ABC.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.	
Cellings	606.1.ABC.1.2.3	Between walls & callings; penetrations of celling plane of 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	606.1.ABC.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 rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration regts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion eir.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	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%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. Insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common celling & floors R-11.	

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WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

PERMIT #: ADDRESS: ,,,

BASE						AS-BUILT								
WATER HEA Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	x	Tank X Ratio	Multiplier	X Credit Multiplie			
3	aponini and	2635.00	Schi-	7905.0	50.0	0.90	3		1.00	2693.56	1.00	8080.		
					As-Built To	tel:						8080.		

				CODE	C	OMPLI	ANCE	S1	TATUS	3			
		BAS	3E	THE STATE OF THE S						AS	BUILT		
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
5559		7458		7905		20922	4807		6609		8081	AND .	19496

PASS



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WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: ,,, PERMIT #:

	BASE		AS-BUILT									
Winter Base	Points:	13461.8	Winter As-Built Points:	13340.6								
Total Winter X Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit Component Ratio Multiplier Multiplier Multiplie (System - Points) (DM x DSM x AHU)									
13461.8	0.5540	7457.9	(sys 1: Electric Heat Pump 30000 btuh ,EFF(8.0) Ducts:Unc(8),Unc(R), 13340.6 1.000 (1.089 x 1.189 x 0.93) 0.426 1.000 13340.6 1.00 1.162 0.426 1.000	6608.7								

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WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE						AS-	BUI	LT			26.72872	
GLASS TYPES .18 X Condition Floor Are		wPM ⊭	Points	Type/SC	Ove Ornt	erhang Len		Area X	W	эм х	WOF	= Points
.18 1414.0)	20.17	6134.0	1.Double, Clear	W	2.0	5.0	75.0	20.	73	1.06	1646.0
				2.Double, Clear	E	2.0	5.0	56.0	18.		1.08	1140.0
				3.Double, Clear	N	2.0	5.0	20.0	24.		1.01	494.0
				4.Double, Clear	\$	2.0	5.0	6.0	13.	30	1.40	111.0
				As-Built Total:	and the same of th			157.0				3391.0
WALL TYPES	Area X	BWPM	= Points	Туре		R	-Vaiue	Area	X	WPI	A =	Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	1200.0	- 1	3.40		4080.0
Exterior	1200.0	3.70	4440.0									
Base Total:	1200.0		4440.0	As-Built Total:				1200.0				4080.0
DOOR TYPES		RWPM	= Points	Туре		-		Area	х	WP	л =	Points
		ng-side-distribution				-						0.0000000000000000000000000000000000000
Adjacent	0.0	0.00	0.0 221.4	1.Exterior Insulated				18.0		8.40		151.2
Exterior	18.0	12.30	221.4									
Base Total:	18.0	- 1400	221.4	Aş-Bulit Total:				18.0	<i>a</i>			151.2
CEILING TYPES	Area >	BWPM	≈ Points	Туре	F	R-Value	e Ai	rea X W	/PM	x w	CM =	Points
Under Attic	1414.0	2.05	2898.7	1. Under Attic			19.0	100.0	2.70	X 1.00		270.0
				2. Under Attic			30.0	1414.0	2.05	X 1.00		2898.7
Base Total:	1414.0		2898.7	As-Bullt Total:				1814.0			Markin-di-	3168.7
FLOOR TYPES	Area >	BWPM	= Points	Туре		R	-Value	Aree	X	WP	A =	Points
Slab 1	80.0(p)	8.9	1602.0	1. Slab-On-Grade Edge Inst	ulation		0.0	180.0(p		18.80		3384.0
Raised	0.0	0.00	0.0	•				Accessors				
Base Total:			1602.0	As-Bulit Total:				180.0				3384.0
INFILTRATION	Area >	BWPM	= Points					Area	Х	WP	/ =	Points
	1414.0	-0.59	-834.3			7		1414.	0	-0.5)	-834.3

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WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: ,,, PERMIT #:

BASE		-	AS-BL	JILT		NACON CARAM	***************************************	
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area		Overh		t Area X	W	РМ Х	wo	F = Points
.18 1414.0 20.17 5134.0	1.Double, Clear 2.Double, Clear	office and	2.0 5.0 2.0 5.0			.73 .79	1.06	1848.0 1140.0
	3.Double, Clear 4.Double, Clear	Country 1108	2.0 5.0 2.0 5.0		100	.58 .30	1.01 1.40	494.0 111.0
	As-Built Total:	-		157.0				3391.0
WALL TYPES Area X BWPM = Points	Туре		R-Valu	ue Area	аХ	WPN	1 =	Points
Adjacent 0.0 0.00 0.0 Exterior 1200.0 3.70 4440.0	Frame, Wood, Exterior		13.0	1200.0		3.40		4080.0
Base Total: 1200.0 4440.0	As-Built Total:			1200.0			Minne	4080.0
DOOR TYPES Area X BWPM = Points	Туре			Area	х	WPN	=	Points
Adjacent 0.0 0.00 0.0 Exterior 18.0 12.30 221.4	1.Exterior Insulated	****		18.0	e de Comentant	8.40		151.2
Base Total: 18.0 221.4	As-Built Total:			18.0			VOIT NO	161.2
CEILING TYPES Area X BWPM Points	Туре	R-V	alue /	Area X V	VРМ	x wc	:M =	Points
Under Attic 1414.0 2.05 2898.7 Base Total: 1414.0 2898.7	1. Under Attic 2. Under Attic As-Built Total:		19.0 30.0	100.0 1414.0 1614.0		X 1.00 X 1.00		270.0 2898.7 3168,7
FLOOR TYPES Area X BWPM = Points	Туре		R-Valu		X	WPM	=	Points
Slab 180.0(p) 8.9 1602.0 Raised 0.0 0.00 0.0	Slab-On-Grade Edge Insulation	n	0.0	180.0(p		18.80	_	3384.0
Base Total: 1602.0	As-Built Total:			180.0				3384.0
INFILTRATION Area X BWPM = Points			و المالية	Area	х	WPM	=	Points
1414,0 -0.59 -834,3	L.,,	- HOLLOW		1414.	0	-0.59		-834.3

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SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

The state of the s	
ADDRESS: , , ,	PERMIT #:
DOM: 1 TO SECURE OF THE PARTY O	

BASE Summer Base Points: 17105.0			AS-BUILT					
			Summer As-Built Points:					
Total Summer Points	X System Multiplier	= Cooling Points	Component Ratio Multi	uct X System X Credit = Cooling plier Multiplier Multiplier Points M x AHU)				
17105.0	0.3250	5559.1	16250 1.00 (1.09 x 1.	13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 147 x 0.91) 0.280 1.000 4806.8 138 0.260 1.000 4806.8				

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SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE	BASE AS-BUILT					
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area		verhang nt Len H	gt Area X	SPM)	X SOF	= Points
.18 1414.0 18.89 4732.0	1.Double, Clear V	V 2.0 5.	0 75.0	38.52	0.80	2309.0
	2.Double, Clear	E 2.0 5.	0 56.0	42.08	0.80	1877.0
	3.Double, Clear	¥ 2.0 5.	0 20.0	19.20	0.87	334.0
	4.Double, Clear	3 2.0 5.	0 6.0	35,87	0.72	155.0
	As-Built Total:		157.0			4675.0
WALL TYPES Area X BSPM = Points	Туре	R-Va	lue Area	X SI	PM =	Points
Adjacent 0.0 0.00 0.0 Exterior 1200.0 1.70 2040.0	1. Frame, Wood, Exterior	13.0	0 1200.0	1.5	50	1600.0
Base Total: 1200.0 2040.0	As-Built Total:		1200.0			1800.0
DOOR TYPES Area X BSPM = Points	Туре		Area	X SF	PM =	Points
Adjacent 0.0 0.00 0.0 Exterior 18.0 6.10 109.8	1.Exterior Insulated		18.0	4.1	0	73.8
Base Total: 18.0 109.8	As-Bulit Total:		18.0			73.8
CEILING TYPES Area X BSPM = Points	Туре	R-Value	Area X S	PM X S	SCM =	Points
Under Attic 1414.0 1.73 2446.2	1. Under Attic	19.0	100.0 2	34 X 1.0	0	234.0
	2. Under Attic	30.0	1414.0 1.	73 X 1.0	0	2446.2
Base Total: 1414.0 2448.2	As-Built Total:	****	1514.0			2680.2
FLOOR TYPES Area X BSPM = Points	Туре	R-Val	ue Area	X SP	M ×	Points
Slab 180.0(p) -37.0 -6660.0	1. Slab-On-Grade Edge Insulation	0.0	180.0(p	-41.20	0	-7416.0
Raised 0.0 0.00 0.0		3.0	-44.4/b	71.6	 ∶	-7410.0
Base Total: -8660.0	As-Built Total:		180.0		20	-7416.0
INFILTRATION Area X BSPM = Points			Area	X SP	M =	Points
1414.0 10.21 14436.9			1414.0	10.2	21	14436.9

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.0

The higher the score, the more efficient the home.

1.	New construction or existing	New		17	Casllan santana		
2.	Single family or multi-family	Single family	_		Cooling systems Central Unit	C 20 0 1-70 0	
3.	Number of units, if multi-family	Single lainty		ę.	Central Olin	Cap: 30.0 kBtu/ht SEER: 13.00	
4.	Number of Bedrooms	3	-	h	N/A	SEEK: 13.00	_
5.	Is this a worst case?	Yes	_	u.	IVA		_
6.	Conditioned floor area (ft²)	1414 ft²			N/A		-
7.	Glass type 1 and area: (Label reqd.			U.	N/A		-
	. U-factor:	Description Area		13.	Heating systems		_
	(or Single or Double DEFAULT)	7a. (Dhie Default) 157 0 62			Electric Heat Pump	Cap: 30.0 kBtu/hr	
b	. SHGC:	(Doto Detail) 157.0 it		-	Ziava in zindi z disip	HSPF: 8.00	_
	(or Clear or Tint DEFAULT)	7b. (Clear) 157.0 ft ²		b.	N/A	H511. 6.00	
8.	Floor types	(0.000) 157.011	_		****		_
	Slab-On-Grade Edge Insulation	R≃0.0, 180.0(p) ft		c	N/A		
	. N/A	т энч тэлэгүү т	***	•	47/44		-
c	. N/A		-	14.	Hot water systems		****
9.	Wall types	3			Electric Resistance	Cap: 50.0 gallons	
	Frame, Wood, Exterior	R=13.0, 1200.0 ft2		***		EF: 0.90	
	. N/A		_	b.	N/A	151', 0.90	_
C.	N/A			71	****		_
d.	. N/A			c,	Conservation credits		
e.	N/A				(HR-Heat recovery, Solar		_
10.	Ceiling types		_		DHP-Dedicated heat pump)		
a.	Under Attic	R=19.0, 100.0 ft2	newson.	15.	HVAC credits		
Ь.	Under Attic	R=30.0, 1414.0 ft2			(CF-Ceiling fan, CV-Cross ventilation.		-
C.	N/A				HF-Whole house fan.		
11.	Ducts				PT-Programmable Thermostat.		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 122.0 ft			MZ-C-Multizone cooling,		
b.	N/A				MZ-H-Multizone heating)		
					•		
	rtify that this home has complie astruction through the above en					OF THE STAD	
in th	nis home before final inspection	1. Otherwise a new EPL I	Dienl	av Car	will be completed	13 AM 17 9	B
	ed on installed Code compliant		, robr	u) Cuit	a will be completed	SCANIE	18
			D-4	201	2		
Dui	lder Signature:	7 79 194	Date	e:		13	
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Add	ress of New Home:	1 178870	City	/FL Zi	p:	GOD WE TRU	9
*NO	OTE: The home's estimated ene	rov performance score is	nnh	mailai	ble through the FLA/RES compute	N NUCCEUM	
This	is not a Building Energy Ratio	ng If your score is 80 or o	rent	er for S	86 for a US EPA/DOE EnergyStar	Marianation	
vou	home may qualify for energy	efficiency mortgage (EEM	() inc	entives	if you obtain a Florida Energy G	ava Patino	
Con	tact the Energy Gauge Hotling	at 321/638-1402 or can ti	ho F	norm C	fauge web site at www.fsec.ucf.edi	uuge Kuung.	
info	rmation and a list of certified B	Raters. For information at	לנו פו	Florida	rauge weo site at www.jsec.ucj.eat i's Energy Effictency Code For Bu	i jor ildina	
-190	mand a nor of cortifica i	woods I of higormunon wo	CHAIL I	· COT LAC	a taner by Efficiency Code For Bu	uaing	

l Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCSB v4.5)

Construction, contact the Department of Community Affairs at 850/487-1824.





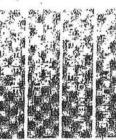
Product Approval Menu > Product or Application Search > Application List > Application Detail

Product Approval
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Application Type

Code Version Comments Application Status

Archived

Product Manufacturer

FL10300 New

Approved

Address/Phone/Email

Authorized Signature

Baldwin, GA 30511 (706) 778-1200 420 Industrial Boulevard rsmith@magnoliawindow.com Magnolia Window & Door

rsmith@magnoliawindow.com Rick Smith

Address/Phone/Email Technical Representative

Quality Assurance Representative

Address/Phone/Email

Category
Subcategory

Windows Single Hung

Compliance Method

Certification Mark or Listing

Certification Agency Validated By

Keystone Certifications, Inc.

Referenced Standard and Year (of Standard)

Standard

AAMA/WDMA/CSA 101/IS 2/A440

Year 2005

Equivalence of Product Standards Certified By

Product Approval Method

Method 1 Option A

Date Submitted

Date Validated

Date Pending EBC A

02/13/2008

Date Pending FBC Approval
Date Approved

02/15/2008

Summary of Products

7. #	Model, Number or Name	Description
10300.1	SH350 Single Hung	New construction vinyl single hung
Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No	n HVHZ: No butside HVHZ: Yes No	Certification Agency Certificate FL10300_R0_C_CAC_168-117CAR.pdf Quality Assurance Contract Expiration Date
Design Pressure: +50/-50	+50/-50	Installation Instructions
ouici.		FL10300_R0_II_SH 350.pdf
		Verified By: Luis R. Lomas PE-62514
		Created by Independent Third Party: Evaluation Reports
10300 5		Created by Independent Third Party:
	SH350 I WIN Single Hung	New Construction integral mulled twin vinyl single hung
Approved for use in HVUZ. No	* UVU7. N.	Certification Agency Certificate
Approved for use outside HVHZ: Yes Impact Resistant: No	outside HVHZ: Yes	FL10300_R0_C_CAC_168-119CAR.pdf Quality Assurance Contract Expiration Date
Other:	+50/-50	Installation Instructions FL10300 RO II SH 350 TAVIN Edf
		Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party:
		Created by Independent Third park

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Next

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436
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Search

Product Approval

Product Approval Menu > Product or Application Search > Application List > Application Detail

日# Application Type Archived Comments Application Status Code Version

New 2007 FL10303 Approved

Address/Phone/Email Product Manufacturer

Baldwin, GA 30511 (706) 778-1200 420 Industrial Boulevard Magnolia Window & Door rsmith@magnoliawindow.com

Authorized Signature

rsmith@magnoliawindow.com Rick Smith

Address/Phone/Email Technical Representative

Quality Assurance Representative

Address/Phone/Email

	Subcategory	Category
*		
	Fixe	Windows

	0011011011001100	COMPILATOR METROS	
	Certification Mark or Listing		

Validated By	Certification Agency	
	Keystone Certifications, Inc.	

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Year 2005

Equivalence of Product Standards Certified By

Date Submitted		Product Approval Method
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02/13/2008		Method 1 Option A

a L	
Summary of Products	Date Approved
the communication of the last	03/18/2008

Date Pending FBC Approval

02/14/2008 02/13/2008

Date Validated

FL#	Model, Number or Name	Description
10303.1	PW350 Fixed	New construction vinvl fixed window
Limits of Use		Certification Agency Certificate
Approved for use in HVHZ: No Approved for use outside HVH Impact Resistant: No	Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No	PL10303_R0_C_CAC_168-120CAR.pdf Quality Assurance Contract Expiration Date
Design Pressure: +60/-60	+60/-60	Installation Instructions
Otner:		FL10303_R0_II_PW 350.pdf
		Verified By: Luis R. Lomas, PE PE-62514
		Created by Independent Third Party:
		Evaluation Reports
		Created by Independent Third Party:

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DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
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Product Approval Accepts:









Community Affairs

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	COMMUNITY FLANDING
	HOUSING & COMMUNITY: DEVELOPMENT
	emergency Management
	OFFICE OF THE SECRETURY
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	grande de designation
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	61, 50 x 5
· i	1005-71, 1071-35-35-35

Search Criteria	~		- I
Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	Elk Corpor
Category	Roofing	Subcategory	ALL.
Application Status	ALL	Compliance Method	ALL

FL#	Type	Manufacturer	Validated By
FL586-R2 History	Revision	Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	
FL728-R1 History	Revision	Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	*
FL1476-R2 History	Revision	Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	
FL2143-R2 History	Revision	Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	
FL3453-R1 History	Revision	Elk Corporation Category: Roofing Subcategory: Underlayments	
FL3461-R2 History	Revision	Elk Corporation Category: Roofing Subcategory: Underlayments	PRI Asphalt Technologies, Inc (813) 621-5777
FL5178	New	Elk Corporation Category: Roofing Subcategory: Other	
FL5511-R1 History	Revision	Elk Corporation Category: Roofing Subcategory: Underlayments	-20
L5524		Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	
L5683		Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	
L5783		Elk Corporation Category: Roofing	PRI Asphalt Technologies, Inc (813) 621-5777





PRESTIQUE® HIGH DEFINITION®



Pastrockitte over der ar estat.

RAISED PROFILE®

"Turkey and seve

Prastique Plus High Definition and Prestique Gallery Collection" Raised Profile 20-year limited werranty period: 5-7" years non-prorated coverage for shingles and application labor with prorated coverage for remainder of limited warranty period, plus an option for transferability", 5-year _13K'x 38 K 50-year limited warranty period: Product size Product size J3%'x 30% 5-7 years non-provided coverage for chingles and application labor with provided coverage for remainder af Exposure ~ FK* Pizaes/Bundle 16 Pieces/Bundle 72 Bundles/Square ___4/98.5 sq.ft. limited warranty period, plus an option for transferability*. 5-year Bundles/Square ___2/100 sq.ft. Squares/Pallet _____11 Squeree/Pallet . 16 limited wind warranty*. Wind Coverage: standard 80 mph, extended 110 mph *** Coverage: standard 78 meh. Prestique I High Definition 60-year limited warranty period: 5-7**years non-prereted coverage for shingles and application to her with provised coverage for remainder of finited warranty period, plus as option for transferability. 5-year limited wind warranty*. Wind Coverage: standard 80 mph, extended 40 mph *** 135°X 3956 Product size . HIP AND RIDGE SHINGLES Exposure rad Pieces/Bundle Vented RidgeCrest" w/FLX 18 Seal-A-Ridge* WIFLX Bundles/Square ___4/30.5 ag.fc. Size: 12"x 12" Size: 13"x13%" Squares/Pallet ___ Exposure: 9/3 Exposure: 63/" Pieces/Bundle: 45 Pieces/Box 26 Coverage: 4 Bundles = Coverage: 5 boxes : 100 linear feet 100 linear feet Prestique High Definition 13%× 38% 30-year limited werranty period: Product size Elk Starter Strip 50-year inteles werenay pened: 6-7° years non-provided coverage for shingles and application labor with prorated coverage for remainder of limited warrenty period, plus an option for transferability*. 5-year 52 Bundles/Pallet Places/Sundle 18 Patlets/Truck Bundles/Square _3/100 sq.fr. 936 Bundles/Truck Squares/Pallet _____16 18 Pleces/Bundle

1 Bundle = 120.33 linear feet

Available Colors (Chack Avelability): Antique Stale, Westheredwood, Shekawood, Sablewood, Hickory, Earlswood, Fersat Brean, Wadgewood, Birchwood, Sandshrood. Earlswood, Fersat Brean, Wadgewood, Birchwood, Sandshrood. Earlswood, Sandshrood.

All Pressique, Raised Profile and Seal-A-Ridge, and Prestique Starter Strip reoding products contain sealent which notivetus with the sun's feet, bonding shingles into a wind and weather resistant cover that resists blow-oils and leaks.

Check for evaluability with build-in StainGuard' irrelment to liabilit the discoloration of rooting granules caused by the growth of certain types of algest.

All Prestique and Reised Profile shingles meet U.L Wind Resistant (UL 997) and Class "A" Fire Resings (UL 790); and ASTM Specifications D 3018, Type-I; D 316), Type-I; E 100 and the requirements of ASTM D 3062.

ited wind warrenty". Wind

Coverage: standard 80 mph.

All Pressions and Heisad Profile shingles have approved from the Florida Muliding Code Count/Asian, Metro-Dade County, ICBO, and Texas Department of Insurance.

"An method finabel wassering has conditioned and limitations.
"Blocked phasery 1, 2005, too gaving year mem-recented Underlied Develope Period applies only value to the PER (beg System to institute with the original institution of the PER chicagins, all in accordance with Effic.
applications factorisate for each produce, A half Pit year system institute Elk (fig. and fidge whingles on all high end ridge, Elk Secret Sirg along all rates and error of jons, on Elk worldnion systems, and Elk All-Cleanse
2007-All-prings instituteyouse is all wallays. Additionable, Elk All-Cleanse Self Additionable on the production in the state of the production of the production of the real in and earlier that of the center of the All-cleanse
2007-All-prings instituteyouse is all wallays. Additionable, Elk All-cleanse
2007-All-prings institute institu

SPECIFICATIONS

Score: Work includes furnishing all labor, materials and audpment necessary to complete installation of (name) stringles excelled herein. Celor shall be (name of color). His and ridge type to be Elk Seal-A-Ridge with formula RIX.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

Preparation of Roar Daox: Roof dack to be dry, wallseasoned 1" x 6" [25.4mm x 152.4mm] boards; exteriorgrade plywood [exposure] rated sheathing) at least 3/8" [3.225mm] thick conforming to the specifications of the American Plywood Association; 7/16" [11.074mm] oriented strandboard; or chiphoerd. Most fire retordant plywood decks are NOT approved substrates for £k shingles. Consult £lk Flek! Service for application specifications over other decks and other slopes. Minterials: Underlayment for standard roof stopes, 4° per foot (101.6/304.6mm) or greater; apply non-perforated No. 15 or 30 aspitals: saturated fek underlayment. For Low stopes(4° per foot (101.6/304.6mm) to a minimum of 2° per foot (50.8/304.8mm)], see two piece of underlayment overlayped a minimum of 18°. Featoners shall be of sufficient length and looking power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elit Tesatocse plant. Hip and ridge type to be Seal-Aridge with formula RIX with StainGuard treatment.

Complete application instructions are published by Elk and princed on the back of every shingle bundle. All warranties are confingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional applications in these cases, the local code must be followed. Under no circumstances will Elk accept application requirementaless than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail apacinfo@elikeorp.com.

SOUTHBAST & ATLANTIC OFFICE: 800.945.5551

CORPORATE HEADQUARTERS: 800.354.7732

PLANT LOCATION: 800.945.5545



DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meat Elds application requirements. Your feature to follow these instructions may void the product warrants; in some acrest, the building codes they require additional application techniques or methods hayand our instructions. In these cases, the local code yough be followed, Under no circumstances will Elts accept application requirements that are less than those printed here. Shingles should not be jammed tightly tegether. All attics should be praparly vanishated. Hen: It is not no severely to remove tope on back of shingles. properly ventilate back of shingle.

O DECK PREPARATION

Roof dechs should be dry, well-seasoned T x I' boards or interior grade plywood minimum 3/I' thick and conform to the openHeations of the American Phymond Association or 7/10' addented strandboard, or 7/10' oblighound.

Apply underleyment INon-Perforated No. 15 or 30 asphalt sourated fets). Elk Versashiold or self adhering underlayment la also acceptable. Cover drip edge at cayes only.

and acceptants. Lower any own a status of the deck with own piece of underlayment overlapping a minimum of 19°. Bagin by festering a 13° wide strip of undertayment placed along the caves. Plece a full 35° wide shared over the carea, furnismaticy placed along the eaves and completely overrapping the swarter strip.

EAVE FLACHING FOR ICE DAMS JASK A RODFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope I4/T2 to less then 21/12), use coated roll roofing of no less then 30 pounds over the felt underhyment extending from the aver edge to a point at less! 36 beyond the inside well of the living space below or this layer of a self-adhered seve and

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cument between the two plies of underlayment from the cave edge up for to a point at least 24' beyond the treide well of the living space below or one layer of a self-adhered save and

Consult the Elk Technical Services Department for application specifications ever other decks and other stops.

O STARTER EXMIST COURSE

USE AN ELK STARTER STRIP OR THE HEADLAP OF A STRIP SHINGLE WITH THE ADMESIVE STRIP POSITIONED AT THE LAWE EDGE. With at least 3" branced from the end of the first abingle, start at the price adapt such angular advanges (X to 34". Featlan I' from the lower adges and t' from sech side.

O COST COINSE

Start at rake and continue course with full shingles isld fluck with the startor course. Shingles may be applied with a course alignment of 45° on the roof

Offices the second course of shingles with respect to the first by approximately E. Other officets are approved if greater than 4" O THURD COURSE

Offset the next course by 5" with respect to the second course, or consistent with the original offset.

@ FOURTH COVIESE

Start at the rake and continue with full shingles across roof. RFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles streight up the roof. Offsets may be adjusted around valleys and panetrations.

O WALLEY COMETRUCTION

Open, woven and closed out valleys are acceptable when applied by Asphalk Roofing Manufacturing Association (ARMA) recommended procedures. For many valleys, use 35° wide vertical underferyment proce to applying metal flashing Inserus adge with nalls). No mails are to be within 5° of valley senior.

O HUGE CONSTRUCTION

For ridge consequetion Rik recasemenda Class "A" Ziffidga ar Seal-A-lidge" with farmule FLX" ar RidgeCrest" with FLX (see ridge peckage for Installation instructions). Vanted RidgeCrest ar 3-tab stringles are also approved.

FASTENERS

While neiling is the preferred method for Est ahingias, Est wall ecopy lessening methods according to the following instructions. Using the furtherer line as a relevance, sail or maple also ships in the deathle inchespes occamen hand area. For a shipsine without a featager line, acilie or singles when the placed between emilyor in the sociast date.

NAILS: Correcter resistant, 340 heed, minimum 12-pauge monting naile. Elk recommends 1-1/47 for new mots and 1-1/47 for new mots and 1-1/47 for new mots. In cases where you are applying shingles to a roof that has an exposed overstang, for move reoft only, 347 ring shart halfs are allowed to be used from the save's odge to a point up the roof that is past the oxidid well line. 1 ring shark mile allowed for re-roof. TAPLES: Corrosive recision. 16-gauge minimum, srown with minimum of 16/16. Note: An improperly adjusted staple gur can recult in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

Fastomers whould be long strough to obtain 3/4" deck passersion or peacetation through deck, whichaver in leas. This product meet the requirements of the IPC 2003 and when furtaned with 4 page.

ANSARD APPLICATIONS

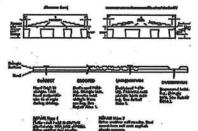
Controct fastering is critical to the portormence of the roof. For stopes exceeding 60° for 20/12 use she fasterness per shiegle. Locate feateners in the festerer area 1° from each side adga with the remoiring four fasterners equally appead along the length of the double decimens (laminated) area. Only fastering methods according to the above instructions or according to the above instructions or according

LIMITED WIND WARRANTY

- For a United Wind Warranty, all Prantique and Raised Profile's shingles must be applied with 6 properly placed feateners, or in the case of mansard applications, 6 properly placed fasteners par chingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plate or 98 MPH for Prestique I, ethingha must be applied with 8 proporty placed MAILS par ethingha. SHINGLES APPLIED WITH STAPLES WILL MIX ahingle. SHINGLES APPLIED WITH STAPLES WILL NOY DUALIFY PUR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Sterlar Stirly shinglas must be applied at the saws and rake edges to qualify Practique Plus, Prestiques Gallery Collection and Practique I shingles for this enhanced Limited Wind Werresty. Under no circumstances about the Shingles or the Elk Starter Strip overhang the envise or rake edge more than 34 of an inch.

HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) error of the shingle, Nells or supplies must be placed single and shraugh – the Tastaner line or an products without fastener lines, not or steple between and in line with sealant dots. CAUTION: Do not use fastener line for



Refer to local codes which is some areas may require apecific application techniques beyond these Elk has specified. All Presiders and Reland Profile shinglas have a U.L.O. Wind Resistance Raining when applied in accordance with these instructions using naits or staples on re-reafe as well as new

CAUTION TO WHOLESALER: Cordons and improper elotage or bandling cam have fiberglets shingles. Keep these skingles completely covered, dry, rescensity cost, and protected from the weather. De not store man various ources of heat. De not store in direct smilgst well applied, DO NOT BOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be materal aut.



NAMI NOTICE OF PRODUCT LINE CERTIFICATION

Certification No.: NI006110-Page 1

Date: 07/23/05

Revision Date:

Certification Program: Structural

Company: Masonite International

Code: M-703-1

The "Notice of Product Line Certification" is valid only when Administrator's Seal is applied to the upper left hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The products and systems listed below are approved for listing in the Directory of Certified Products at www.NAMICertification.com. Please review, and advise NAMI immediately if data, as shown requires corrections.

Company:

Masonite International Corporation

1955 Powis Road

West Chicago, IL 60185

Product Line: Masonite Wood-Edge Steel Side-Hinged Door Units

Test Report: NCTL-210-2929-1/210-2930-1/210-2930-7/210-2930-7/210-3121-1/

210-3123-1/210-3125-1/CTLA-919W

Section 1: General Description of the Products and Systems under this Certification

Frame: The frame jambs consist of finger jointed pine with all corners coped, butted, and sealed using three 2" long wire staples (.04375").

Mullion Construction: Where used, each mullion constructed of 1.2 laminated lumber with a pine cap and attached to the header and threshold with three #10 x 3" Philips Flat Head Wood Screws.

Glazing: Where used, the overall insulated glass was glazed into a rigid 1.3 plastic lip-lite frame. Consisted of symmetric monolithic insulated glass with 3mm (0.118) tempered glass.

1.4 Door Leaf Construction: Each door leaf was constructed from 0.017"(6'8" height) or 0.020"(8'0"height) thick galvanized steel facings.

> National Accreditation & Management Institute, Inc. 11870 Merchants Walk Suite 202-Newport News, VA 23606 TEL(757) 594.8658 FAX(757)594-8659

Certification No.: NI006110-Page 2

Section 2: Registered Suppliers

2.1 Door Lites:

ODL, Specialty or Trinity

2.2 Astragal:

Endura Ultimate

Section 3: Additional Supportive Test or Acceptance Data Provided with Certification Documentation included:

- 3.1 Miami-Dade Building Code Compliance Notice of Acceptance for Lite Frame Material, NOA#02-0429.11; #02-1216.06 and #03-0303.07.
- 3.2 Surface Burning Characteristics for Foam Filled Door performed by Omega Point Laboratories to ASTM E84-98, "Standard Test Method for Surface Burning Characteristics of Building Materials-Report No. 15977-104313.
- 3.3 ASTM E1300 Glass Load Resistance Report provided by National Certified Testing Laboratories NCTL-110-9735-1.
- 3.4 Anchor Calculations for:
 Anchor Performance Calculation Report-Performed by Harold E. Rupp, P.E. (Florida No. 15935.)

可以来 电压动性系统

the second second

Company: Masonite International Corporation 1955 Powis Road West Chicago, IL 60185

Product:

Certification No.: NI006110-Page 3
Certification Date: 07/23/2005

Expiration Date: 12/31/2008

Wood-Edge Opaque Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted) Specifications Tested To: PA 201-94/202-94/203-94 The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namicertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

	_			_				-		
Test Report Number Drawing Number &	NCTL-210-2929-1 Maximum Panel Size: 3'0" x 6'8"	Maximum Panel Size: 3'0" x 6'8"	Maximum Panel Size; 3.0" x 6.8"/Sidelite; 3.0" x 6.8" freesaltsiva Power	Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" firstellation Described Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8"	Maximum Panel Size; 3.0" x 68"/Sidelite; 3.0" x 6.8" Instellation Processing	Maximum Panel Size; 3'0" x 6'8"/Sidelite: 3'0" x 6'8" increalities: Demander of the panel Size; 3'0" x 6'8"/Sidelite: 3'0" x 6'8"	Maximum Panel Size; 3'0" x 6'8"/Sidelite: 30" x 6'8" ingresilation Pressure Pressure MA #T 0.720 A 6'8"	Maximum Panel Size, 3'0" x 6'8"/Sidelite: 3'0" x 6'8" Installation Drawings M & FI 0128 0.5	Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8" fresulation Drawings-MA-EI 0129.05	Maximum Panel Size; 3'0" x 6'8"/Sidelite; 3'0" x 6'8" Installation Desurings M.4 Et 0128 0.
Missile Impact Rated	Yes	Yes	Yes	Yes	Door-Yes Sidelite-No	Door-Yes Sidelite-No	Door-Yes Sidelites-No	Door-Yes Sidelites-No	Doors-Yes Sidelites-No	Doors-Yes Sidelites-No
Design Pressure Pos/Neg	91-/91+	9/-/9/+	+55/-55	+55/-55	+55/-55	+55/-55	+55/-55	+55/-55	+55/-55	+55/-55
Maximum Size	3.0" x 6'8"	3.0" x 6'8"	6'0" x 6'8"	6'0" x 6'8"	6.0" x 6'8"	6,0" x 6'8"	.8.9 x0.6	9.0" x 6'8"	12'4" x 6'8"	12'4" x 6'8"
Glazed or Opaque	Opaque	Opaque	Opaque	Opaque	Opaque Door Glazed Sidelite	Opaque Door Glazed Sidelite	Opaque Door Glazed Sidelites	Opaque Door Glazed Sidelites	Opaque Doors Glazed Sidelites	Opaque Doors Glazed Sidelites
Inswing or Outswing	S/I	S/O	I/S	S/0	I/S	0/8	I/S	S/O	S/I	S/O
Configuration	X Single	X Single	XX Double	XX Double	XO/OX Single w/Sidelite	XO/OX Single w/Sidelites	OXO Single w/Sidelites	OXO Single w/Sidelites	OXXO Double w/Sidelites	OXXO Double w/Sidelites

National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606 Tel-757.594.8658/Fax-757.594.8659

Masonite International Corporation West Chicago, IL 60185 1955 Powis Road Company:

Product:

NI006110-Page 4 Certification Date: Certification No.:

07/23/2005 12/31/2008 Expiration Date:

Wood-Edge Steel Opaque Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted)

Specifications Tested To: PA201-94/202-94/203-94

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Configuration	Inswing or Outswing	Glazed or Opaque	Maximum Size	Design Pressure Pos/Neg	Missile Impact Rated	Test Report Number Drawing Number &
X Single	I/S	Opaque	3.0" x 8'0"	0/-/0/+	Yes	NCTL-210-3121-1/CTLA919W Maximum Panel Size: 3'0" x 8'0" Installation Described AA Triggore
X Single	0/8	Opaque	3.0" x 8'0"	+70/-70	Yes	NOTL-210-212-03 NOTL-210-21-1/CTLA919W Maximum Panel Size: 3'0" x 8'0" Installation Dessigner MA E1 0190 05
XX Double	I/S	Opaque	6.0.x 8.0	+45/-50	Yes	Maximum Panel Size; 3'0" x 8'0"/Sidelite; 3'0" x 8'0" Installation Drawings-MA-ET 0.20.05
Double	S/0	Opaque	6.0" x 8'0"	+50/-45	Yes	Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Danwings.MA.FI 0120.9
XO/OX Single w/Sidelite	S/I	Opaque Door Glazed Sidelite	6,0,, x 8,0,,	+45/-50	Door-Yes Sidelite-No	Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings M A Et 0.20 of
XO/OX Single w/Sidelites	S/O	Opaque Door Glazed Sidelite	6.0" x 8'0"	+50/45	Door-Yes Sidelite-No	Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings MA E1 01'00 of
OXO Single w/Sidelites	I/S.	Opaque Door Glazed Sidelites	0.0° x 8'0°9	+45/-50	Door-Yes Sidelites-No	Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Description
OXO Single w/Sidelites	S/O	Opaque Door Glazed Sidelites	9.0" x 8'0"	+50/45	Door-Yes Sidelites-No	Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0" Installation Drawings.MA.F.I 11.20.05
OXXO Double w/Sidelites	I/S	Opaque Doors Glazed Sidelites	12'4" x 8'0"	+45/-50	Doors-Yes Sidelites-No	Maximum Panel Size; 3.0" x 8.0"/Sidelite: 3.0" x 8.0". Installation Drawings.MA.FI 0194.04
OXXO Double w/Sidelites	S/0	Opaque Doors Glazed Sidelites	12'4" x 8'0"	+50/45	Doors-Yes Sidelites-No	Maximum Panel Size: 3.0" x 8.0". Sidelite: 3.0" x 8.0" Installation Drawings-MA-FI 019-0-05

National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606

Tel-757.594.8658/Fax-757.594.8659

Masonite International Corporation West Chicago, IL 60185 1955 Powis Road Company:

Product:

NI006110-Page 5 Certification Date: Certification No.:

07/23/2005 12/31/2008

Wood-Edge Steel Glazed Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted) Expiration Date:

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Specifications Tested To: PA 202-94

X I/S Glazed 3'0" x 6'8" X O/S Glazed 3'0" x 6'8" XX I/S Glazed 6'0" x 6'8" XX O/S Glazed Door 6'0" x 6'8" XX O/S Glazed Door 6'0" x 6'8" XO/OX I/S Glazed Door 6'0" x 6'8" Single w/Sidelites O/S Glazed Door 6'0" x 6'8" OXO I/S Glazed Door 9'0" x 6'8" OXO Glazed Door 9'0" x 6'8"	Maximum Pressure	Impact	Test Report Number Drawing Number &
O/S Glazed US Glazed O/S Glazed Door Glazed Sidelites O/S Glazed Door Glazed Sidelites O/S Glazed Door Glazed Sidelites	+	No	Comments NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"
I/S Glazed O/S Glazed Door Glazed Sidelites O/S Glazed Door Glazed Sidelites O/S Glazed Door Glazed Door	ε 6'8" +50.5/-50.5	No	installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"
O/S Glazed Door Glazed Sidelites O/S Glazed Door Glazed Sidelites O/S Glazed Sidelites	+50.5/-50.5	SN.	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 30" x 6'8"
US Glazed Door O/S Glazed Sidelite O/S Glazed Door Glazed Door Glazed Door Glazed Door Glazed Door Glazed Sidelites O/S Glazed Door Glazed Sidelites	16'8" +50.5/-50.5	No No	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 30" x 6'8"
O/S Glazed Door Glazed Sidelite I/S Glazed Door	.6'8" +50.5/-50.5	Door-No Sidelite-No	Installation Urawings-MA-FL0130-05 NCTL_210-2930-7 MA-WL0115/16/17/18/19/2021-02 Maximum Panel Size: 3'0" x 6'8"
US Glazed Door Glazed Sidelites O/S Glazed Door Glazed Sidelites	16'8" +50.5/-50.5	Door-No Sidelite-No	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"
O/S Glazed Door Glazed Sidelites	: 6'8" +50.5/-50.5	Door-No Sidelites-No	Maximum Panel Size: 30"x 6'8"
I/S Glazed Doors	.6'8" +50.5/-50.5	Door-No Sidelites-No	Maximum Panel Size: 3'0" x 6'8"
delites Glazed Sidelites	12'6" x 6'8" +50.5/-50.5	Doors-No Sidelites-No	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 310" x 6'8"
OXXO O/S Glazed Doors 12'6" x 6'8" Double w/Sidelites Glazed Sidelites	κ 6'8" +50.5/-50.5	Doors-No Sidelites-No	Maximum Panel Size: 3'0" x 6'8"

National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606

Tel-757.594.8658/Fax-757.594.8659

Masonite International Corporation 1955 Powis Road Company:

West Chicago, IL 60185

Product:

Certification Date: Certification No.:

NI006110-Page 6 07/23/2005

12/31/2008

Expiration Date:

Wood-Edge Steel Glazed Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted)

Specifications Tested To: PA 202-94

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namicertification.com. NAMI's Certification Program is accredited by The American National Standards Institute

Configuration	Inswing or Outswing	Glazed or Opaque	Maximum	Design Pressure	1	Test Report Number Drawing Number &
Single	NS	Glazed	3.0" x 8'0"	+40/45	No	Comments NCTL-210-3125-1
X Single	. S/O	Glazed	3.0" x 8.0"	+45/-40	No	Installation Drawings-IAA-FL0131-05 NCTL-210-3125-1
XX Double	S/I	Glazed	.0.8 x0.9	+40/-45	No	Installation Drawings-MA-FL0131-05 Marrians Dec. 16
XX Double	S/O	Glazed	6.0" x 8.0"	+45/40	No	Installation Drawings-MA-FL0131-05 Maximum Panel Size: 3 0 x 8 0
XO/OX Single w/Sidelite	S/I	Glazed Door Glazed Sidelite	.0,8 x0,9	+40/-45	Door-No	Installation Drawings-MA-FL0131-05 Moviement 19:00-10
XO/OX Single w/Sidelites	S/O	Glazed Door Glazed Sidelite	6'0" x 8'0"	+45/40	Door-No	Installation Drawings-MA-FL0131-05 NCTL-210-3125-1
OXO Single w/Sidelites	S/I	Glazed Door Glazed Sidelites	9.0" x 8.0"	+40/-45	Door-No Sidelites No	Installation Drawings-MA-FL0131-05 Maximum Panel Size, 3 '0" x 8'0" NCTL-210-3125-1. Maximum Panel Size, 3'0", 9'0"
OXO Single w/Sidelites	S/O	Glazed Door Glazed Sidelites	9,0 x 8,0	+45/-40	Door-No Sidelites-No	Installation Drawings-MA-FL0131-05 Maximum Parel Size 310
OXXO Double w/Sidelites	I/S	Glazed Doors Glazed Sidelites	12'6" x 8'0"	+40/45	Doors-No Sidelites-No	Installation Drawings-MA-FL0131-05 NCTL-210-3125-1 Maximum Panel Size 370", 870"
OXXO Double w/Sidelites	S/O	Glazed Doors Glazed Sidelites	12.6" x 8'0"	+45/40	Doors-No Sidelites-No	Installation Drawings-MA-FL0131-05 NCTL-210-3125-1 Maximum Panel Size: 3'0" x 8'0"
					200	>> > > > > > > > > > > > > > > > > > > >

Installation Drawings-MA-FL0131-05 National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606 Tel-757.594.8658/Fax-757.594.8659

SERIES 420/430/440 SLIDING GLASS DOORS

THIS FENESTRATION PRODUCT COMPLIES* WITH THE NEW FLORIDA BUILDING CODE

FOR RESIDENTIAL BUILDINGS WITH A MEAN ROOF HEIGHT OF 30 FT. OR LESS, EXPOSURE "B" (WHICH IS INLAND OF A LINE THAT IS 1500' FROM THE COAST), AND WALL ZONE "5" (INSTALLED NEAR THE CORNER OF A BUILDING).

PER ASTM E1300, THE CORRECT GLASS THICKNESS, BASED ON THE NEGATIVE DESIGN PRESSURE (DP) LISTED BELOW, HAS BEEN INSTALLED IN THIS UNIT. THE GLASS THICKNESS IS BASED ON ITS' WOTH, HEIGHT, AND ASPECT RATIO.

STANDARD 6'- 8" HIGH PANELS ARE NON REINFORCED

6'-8' HIGH 2'- 6" WIDE

DP +54 / -54

3'- 0" WIDE 4'- 0" WIDE DP +47 / -47 DP +39 / -39

5'- 0" WIDE

DP +35 / -35

STANDARD 8'- 0" HIGH PANELS ARE STEEL REINFORCED

8'-0 HIGH 2'- 6" WIDE

DP +57 / -57

3'- 0" WIDE 4'- 0" WIDE DP +49 / -49

5'- 0" WIDE

DP +40 / -40 DP +35 / -35

SPECIAL ORDER 6'- 8" HIGH PANELS - WITH STEEL REINFORCEMENT



2'- 6" WIDE 3'- 0" WIDE

DP +71 / -71

4'- 0" WIDE

DP +62 / -62 DP +52 / -52

BOX TO BE CHECKMARKED AT FACTORY IF REINFORCED 5'- 0" WIDE

DP +46 / -46

THIS PRODUCT MEETS THE REQUIREMENTS FOR STRUCTURAL LOADS, WATER AND AIR INFILTRATION PER ATTACHED AAMA PERFORMANCE LABEL. BE ADVISED THAT IF LOADS ARE PLACED UP TO OR EXCEEDING THE TESTED LEVELS, THIS PRODUCT MAY BE ALTERED IN SUCH A WAY THAT FUTURE PERFORMANCE WILL BE REDUCED.

* COMPLIANCE MUST INCLUDE INSTALLATION ACCORDING TO ... MANUFACTURER'S INSTRUCTIONS AND FLORIDA CODE REQUIREMENTS.



NATIONAL CERTIFIED TESTING LABORATORIES

1464 GEMINI BOULEVARD • ORLANDO, FLORIDA 32837 PHONE (407) 240-1356 • FAX (407) 240-8882

STRUCTURAL PERFORMANCE TEST REPORT

Report No: NCTL-210-2065-1
Test Date: 06-21-00
Report Date: 09-25-00
Expiration Date: 09-25-04
Revision Date: 01/31/02

Client: MI Home Products 4314 Route 209 Elizabethville, 17023-8438

Test Specimen: Better Bilt Aluminum Product's Series "420" Type OXX Aluminum Sliding Glass Door. (SGD-C35)(Single Glazed)(Steel Reinforced)(with and without sill riser).

Test Method: AAMA/NWWDA 101/I.S.2-97, "Voluntary Specifications for Aluminum, Vinyl (PVC), and Wood Windows and Glass Doors."

Revision Note: Sill leg extension was revised from 1-1/8" to 1-1/4"

TEST SPECIMEN DESCRIPTION

General: The sample tested was a three (3) panel type OXX aluminum sliding glass door measuring 15-1-3/4" wide x 8'0-1/8" high overall. The active panel measured 5'0-1/2" wide by 7'11-1/8" high; the fixed panel measured 5'0-7/8" wide by 7'11-1/8" high. Frame and panel member s were not thermally broken. A plastic spacer/guide was used at each panel head/stile corner. The fixed panel was secured to the jamb with two (2) 3" long aluminum angle retainers each fastened to the jamb stile with two (2) (#8 x 3/4") pan head screws. One (1) claw type door lock assembly was located at 40" from the bottom of each active panel lock stile each with two (2) screws. One (1) adjustable metal roller assembly was used at each end of the active bottom rails. The frame was of double screw coped corner construction. Panel corners were of single screw at bottom rail and double screw at the top rail. The interior vertical sill leg employed an extruded aluminum 1-1/4" high extension; an overall height of 2.031. One (1) aluminum panel retainer was fastened at 2" from each of the active panel bottom rail. One (1) extruded aluminum female panel adapter was fastened to the fixed panel but stile with five (5) (#8 x 1/2") screws. One extruded aluminum screen adapter was fastened to the butt stile using five (5) (#8 x 1/2") screws.

Installation: The main frame was fastened to the wood test buck using forty eight (48) 1/2") FHS. (See fastener diagram.)

Reinforcement: One (1) U-shaped glavanized steel reinforcing channel measuring 1-3/4" x 3/4" x 1/16" thick filled the length of the panel adapter stile. One (1) U-shaped galvanized steel reinforcing channel measuring 3/4" x 7/8" x 1/16" thick filled the length of each interlock stile.

Glazing: All panels were channel glazed using 3/16" thick clear tempered glass with a flexible vinyl glazing bead.

Weatherseal: Double strips of centerfin weatherstrip (0.270" high) were located at each jamb, stile and lock stile. A double strip of centerfin weatherstrip (0.180" high) was located at each interlock stile. A double strip of centerfin weatherstrip (0.250" high) was located at each panel top rail. A double strip of side fin weatherstrip (0.430" high) was located at each panel bottom rail. An adhesive back polypile dust plug measuring 1-3/16" x 13/16" x 0.420" was located on the head and sill at each end of the vertical stile exterior track.

Weeps: One (1) weep notch measuring 1-1/2" x leg height was located at each end of the interior sill roller leg, exterior sill roller leg and screen sill roller leg.

Interior & Exterior Surface Finish: Non-painted aluminum

Sealant: Frame and panel bottom rail corners were sealed with a small-joint sealant.

Insect Screen: Two (2) insect screens, one (1) center insect screen measuring 5'0-1/4" wide by 7'11" high; Both were of coped corner construction. The screen employed fiberglass mesh cloth with a hollow vinyl spline. One (1) roller assembly was located at each end of the bottom rails. One (1) claw type lock assembly.

		X				
181		TEST RES	BULTS			
<u>Par. No.</u> 2,2,1.6.1	<u>Title of Test & Meth</u> Operating Force	N. Carlotte	ř.	Measured	6	Allowed
	Center Active Panel	171				
	I RECEIVED	To open		20 lbf		30 lbf
		In Motion		5 lbf		30 lbf
	Right Active Panel	e e e e e e e e e e e e e e e e e e e				
ng Agenta engal f	F F	To open		18 lbf		30 lbf
189	*	In Motion		3 lbf		30 lbf
2.2.1.6.2	Deglazing - ASTM E	987				
	Center Active Panel		0 2			
	Top Rail (50 lbf)		1	0.2 % (0.05	(1")	<100%
140	Bottom Rail (50 lb	Ð		7.8 % (0.03		**********************************
	Left Stile (70 lbf)			6.0 % (0.03		<100%
	Right Stile (70 lbf)		16	5.4 % (0.02	35. JE	<100% . 12
		* <u></u>		1	2.50.0	20/4

Par. No.	Title of Test & Method	Measured	Allowed
2.2.1.6.2	Deglazing - ASTM E987	2142500000000000000000000000000000000000	411100000
	Right Active Panel		9
*	Meeting Rail (50 lbf)	8.4 % (0.042")	<100%
	Bottom Rail (50 lbf)	8.4 % (0.042")	<100%
	Left Stile (70 lbf)	8.0 % (0.040")	<100%
12	Right Stile (70 lbf)	6.2 % (0.031")	<100%
2.1.2	Air Infiltration	Passed	0.30cfm/ft2
	1.57 psf(25mph)		0.000//102
2.1.3	Water Resistance-(5.0GPH/FT/2)	No entry	No entry
() A # 10 (10 (10 (10 (10 (10 (10 (10	WTP=4.50 psf		2,0 0,00,7
2.1.4.2	Uniform Load Structural - ASTM E330		8
	45.0 psf Exterior	0.245"	0.381*
	45.0 psf Interior	0.258"	0.381"
	OPTIONAL PERFOR	MANCE	
Par. No.	Title of Test & Method	Measured	Allowed
4.3 *	Water Resistance - ASTM E547 & E331		
*	5.0 gph/ft ²		
	WTP =5.25 psf	No Entry	No Entry

Note: At this point in testing, an additional sill riser was attached to the existing main sill's interior vertical leg with the following results being obtained:

Par. No.	Title of Test & Method	Measured	Allowed
4.3 *	Water Resistance - ASTM E547 & E331		
	5.0 gph/ft ²	#) a	
*	WTP = 6.00 psf	No Entry	No Entry
4.4.2	Uniform Load Structural - ASTM E330		
	52.5 psf Exterior	0.379"	0.381"
	52.5 psf Interior	0.380"	0.381"

^{*} Test performed with and without screen

TEST COMPLETED07/15/98

Note: In addition, Better Bilt Auminum Products' Series "430" and "440" also received a SGD-C35 rating being identical in panel construction and interior sill leg heights.

This test specimen meets the performance criteria level of (SGD-C35) of the AMALY WINDLE 101/LS. 2-97 specification. Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A copy of this report along with representative a sections of the test specimen will be retained by NCTL for a period of four 44 years. The results obtained apply only to the specimen tested.

BETTER BILT ALUMINUM PRODUCTS COMPARATIVE ANALYSIS CHART IN DESIGN PRESSURE **FLORIDA DOOR SERIES 420**

07-Jan-2002 CA980370 98-0801

49 44 40 37 35	9/		
		69	98
62 56 52 48 46	71	85	80 <
36 42 48 54 60	38	24	PANEL WIDTH >> PANEL HEIGHT

CONFIGURATION TESTED: OXX TEST SIZE: 181 34" X 96 1/8" WATER TEST PRESSURE: 5.25 PSF (SILL - 1-1/2" HGT.) DESIGN PRESSURE ACHEIVED IN TEST: POS. & NEG. 35.0 PSF 6.0 PSF (1-1/2" SILL WI .500" ADAPTER - 2" HGT. O.A.)

...

REINFORCING: (1) STL CHAN, 1-3/4" X 3/4" GLAZING: 3/16" TEMPERED GLASS (1) STL CHAN 3/4" X 7/8" X 1/16" ADAPTER STILE: X 1/16" GEA, INTRLK STILE

PANEL WIDTHS AND HEIGHTS ARE NOMINAL TO 35 PSF W/ 1-1/2" SILL & 40 PSF W/ 2" SILL WATER PRESSURE REQUIREMENT OF 15% OF DESIGN LOAD APPLIES, POSITIVE DESIGN LOADS WOULD BE LIMITED THE ABOVE VALUES ARE STRUCTURAL DESIGN LOADS & HAVE NOT BEEN CAPPED BY WATER PERFORMANCE.

PREPARED BY:

SUITE 250 HEATHROW, FLORIDA 32748

250 INTERNATIONAL PARKWAY

PRODUCT & APPLICATION ENGINEERING, INC.

PHONE 407 805-0365 FAX 407 805-0368



FLORIDA DOC BETTER BILT ALUMINUM PRODUCTS

PANEL HEIGHT V 80	PANEL WIDTH >>	OMPARATIVE ANALYSIS CHART IN DESIGN PRESSURE	LORIDA DOOR SERIES 420
2	24	IN DESIGN PRES	S 420
54	30	SURE	1
47	36		
42	42		*
39	48		**
37	22		

07-Jan-2002 CA980371

98-0801

60

37

TEST REPORT NOS: NCTL-210-2085-4 & 3 DESIGN PRESSURE: POS. & NEG. 35.0 PSF

WATER TEST PRESSURE: 5.25 PSF (SILL - 1-1/2" HGT.)

6.0 PSF (1-1/2" SILL W/ 1/2" ADAPTER - 2" HGT. O.A.)

CONFIGURATION TESTED: OXX REINFORCING: NONE GLAZING: 3/16" TEMPERED GLASS TEST SIZE: 181 3/4" X 82 1/8"

LIMITATIONS:

TO 35 PSF WI 1-1/2" SILL & 40 PSF WI 2" SILL WATER PRESSURE REQUIREMENT OF 15% OF DESIGN LOAD APPLIES, POSITIVE DESIGN LOADS WOULD BE LIMITED PANEL WIDTHS AND HEIGHTS ARE NOMINAL (IN INCHES). THE ABOVE VALUES ARE STRUCTURAL DESIGN LOADS & HAVE NOT BEEN CAPPED BY WATER PERFORMANCE.

PREPARED BY

250 INTERNATIONAL PARKWAY Product & application engineering, inc.

SUTTE 250

HEATHROW, FLORIDA 32748

PHONE 407 805-0365 FAX 407 805-0366



p. 2

Water Wells Pumps & Service Phone: (386) 752-6677 Fax: (386) 752-1477

Lynch Well Drilling, Inc.

173 SW Young Place Lake City, FL 32025 www.lynchwelldrilling.com

April 12, 2007

Columbia County Building Department P. O. Box 1529 Lake City, Fl. 32056

To Whom It May Concern:

As required by building code regulations for Columbia County in order that a building permit can be issued, the following well information is provided with regard to the above-referenced well:

Size of Pump Motor:

1 Horse Power

Size of Pressure Tank:

81-Gallon Bladder Tank

Cycle Stop Valve Used:

No

Should you require any additional information, please contact us.

Sincerely,

Linda Newcomb

Lynch Well Drilling, Inc.

isida New comb

386-752-1477

Phone: (386) 752-6677 Fax: (386) 752-1477

Water Wells Pumps & Service

Lynch Well Drilling, Inc.

173 SW Young Place Lake City, FL 32025 www.lynchwelldrilling.com

Casing Size 4 inch Steel

Pump Installation:

Deep Well Submersible

Pump Make Aermotor

Pump Model S20-100

HP 1

System Pressure (PSI) On 30

Off 50 Average Pressure 40

Pumping System GPM at average pressure and pumping level 20(GPM)

Tank Installation: Bladder / Galvanized Make

Challenger

Model PC 244 Size 81 gallon

Tank Drawdown per cycle at system pressure 25.1 gallons

nota New comb

2609

License Number

Linda Newcomb

Print Name

4/12/07

Date

NAMI NOTICE OF PRODUCT LINE **CERTIFICATION**



Certification No.: NI006110-Page 1

Date: 07/23/05

Revision Date:

Certification Program: Structural

Company: Masonite International

Code: M-703-1

The "Notice of Product Line Certification" is valid only when Administrator's Seal is applied to the upper left hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The products and systems listed below are approved for listing in the Directory of Certified Products at www.NAMICertification.com. Please review, and advise NAMI immediately if data, as shown requires corrections.

Company:

Masonite International Corporation

1955 Powis Road

West Chicago, IL 60185

Product Line: Masonite Wood-Edge Steel Side-Hinged Door Units

Test Report: NCTL-210-2929-1/210-2930-1/210-2930-7/210-2930-7/210-3121-1/

What is the first of

210-3123-1/210-3125-1/CTLA-919W

Section 1: General Description of the Products and Systems under this Certification

Frame: The frame jambs consist of finger jointed pine with all corners coped, butted, and sealed using three 2" long wire staples (.04375").

Mullion Construction: Where used, each mullion constructed of 1.2 laminated lumber with a pine cap and attached to the header and threshold with three #10 x 3" Philips Flat Head Wood Screws.

Glazing: Where used, the overall insulated glass was glazed into a rigid 1.3 plastic lip-lite frame. Consisted of symmetric monolithic insulated glass with 3mm (0.118) tempered glass.

1.4 Door Leaf Construction: Each door leaf was constructed from 0.017"(6'8" height) or 0.020"(8'0"height) thick galvanized steel facings.

Certification No.: NI006110-Page 2

Section 2: Registered Suppliers

2.1 Door Lites:

ODL, Specialty or Trinity

2.2 Astragal:

Endura Ultimate

Section 3: Additional Supportive Test or Acceptance Data Provided with Certification Documentation included:

- 3.1 Miami-Dade Building Code Compliance Notice of Acceptance for Lite Frame Material, NOA#02-0429.11; #02-1216.06 and #03-0303.07.
- 3.2 Surface Burning Characteristics for Foam Filled Door performed by Omega Point Laboratories to ASTM E84-98, "Standard Test Method for Surface Burning Characteristics of Building Materials-Report No. 15977-104313.
- 3.3 ASTM E1300 Glass Load Resistance Report provided by National Certified Testing Laboratories NCTL-110-9735-1.
- 3.4 Anchor Calculations for:
 Anchor Performance Calculation Report-Performed by Harold E. Rupp, P.E. (Florida No. 15935.)

· Company

Transfer of the grant

Masonite International Corporation West Chicago, IL 60185 1955 Powis Road Company:

Product:

NI006110-Page 3 07/23/2005 Certification Date: Certification No.:

12/31/2008

Expiration Date:

Wood-Edge Opaque Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted) Specifications Tested To: PA 201-94/202-94/203-94

The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namicertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

Test Report Number Drawing Number &	Comments NCTL-210-2929-1 Maximum Panel Size: 3'0" x 6'8"	Installation Drawings-MA-FL0128-05 NCTL-210-2929-1 Maximum Panel Size: 3'0" x 6'8"	Installation Drawings-MA-FL0128-05 NCTL-210-2930-1 Maximum Panel Size: 3.0" x 6.8"/Sidelite: 3.0" x 6.8"	Installation Drawings-MA-FL0128-05 NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite-3'0" x 6'8"/Sidelite-3'0"/Sidelite-3	Installation Drawings-MA-FL0128-05 NCFL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8"	Installation Drawings-MA-FL0128-05 NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8"	Installation Drawings-MA-FL0128-05 NCTL-210-2930-1 Maximum Panel Size: 3.0" x 6'8"/Sidelite: 30" x 6'8"	Installation Drawings-MA-FL0128-05 NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite 3'0" x 6'2"	Installation Drawings-MA-FL0128-05 NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8"	Installation Drawings-MA-FL0128-05 NCTL-210-2930-1 Maximum Panel Size: 3'0" x 6'8"/Sidelite: 3'0" x 6'8"
Missile Impact Peted	Yes	Yes	Yes	Yes	Door-Yes	Door-Yes Sidelite-No	Door-Yes Sidelites-No	Door-Yes	Doors-Yes	Doors-Yes Sidelites-No
Design Pressure Pos/Neo	91-/91+	9/-/9/+	+55/-55	+55/-55	+55/-55	+55/-55	+55/-55	+55/-55	+55/-55	+55/-55
Maximum Size	3.0" x 6'8"	3.0" x 6'8"	6'0"x 6'8"	×	6.0" x 6'8"	6,0" x 6'8"	.8.9 x .0.6	9,0,, x 6,8,,	12'4" x 6'8"	12'4" x 6'8"
Glazed or Opaque	Opaque	Opaque	Opaque	Opaque	Opaque Door Glazed Sidelite	Opaque Door Glazed Sidelite	Opaque Door Glazed Sidelites	Opaque Door Glazed Sidelites	Opaque Doors Glazed Sidelites	Opaque Doors Glazed Sidelites
or Outswing	I/S	S/O	S/I	S/O	S/I	S/O	I/S.	S/O	S/I	S/O
Configuration	X Single	X Single	XX Double	XX Double	XO/OX Single w/Sidelite	XO/OX Single w/Sidelites	OXO Single w/Sidelites	OXO Single w/Sidelites	OXXO Double w/Sidelites	OXXO Double w/Sidelites

Installation Drawings-MA-FL0128-05 National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606 Tel-757.594.8658/Fax-757.594.8659

Masonite International Corporation West Chicago, IL 60185 1955 Powis Road Company:

Product:

NI006110-Page 4 Certification Date: Certification No.: Expiration Date:

07/23/2005 12/31/2008

Wood-Edge Steel Opaque Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted) Specifications Tested To: PA201-94/202-94/203-94 The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certified Product Listing at www.Namicertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

US Opaque 3*0" x 8*0" +70/-70 Yes NCTL-2 O/S Opaque 3*0" x 8*0" +70/-70 Yes Maximum Installation Installation Installation Installation Installation US Opaque Door 6*0" x 8*0" +50/-45 Yes Maximum Panel Size Installation Installation US Opaque Door 6*0" x 8*0" +50/-45 Door-Yes Maximum Panel Size Installation Insta		Inswing or Outswing	Glazed or Opaque	Maximum Size	Design Pressure Pos/Neg	Missile Impact	Test Report Number Drawing Number &
O/S Opaque 3'0" x 8'0" +70/-70 Yes I/S Opaque 6'0" x 8'0" +45/-50 Yes O/S Opaque Door 6'0" x 8'0" +50/-45 Yes I/S Opaque Door 6'0" x 8'0" +45/-50 Door-Yes O/S Opaque Door 6'0" x 8'0" +50/-45 Door-Yes I/S Opaque Door 9'0" x 8'0" +50/-45 Door-Yes Glazed Sidelites 0'N +65/-50 Doors-Yes Glazed Sidelites 12'4" x 8'0" +50/-45 Doors-Yes Opaque Doors 12'4" x 8'0" +65/-50 Doors-Yes Glazed Sidelites 5'idelites-No Sidelites-No		I/S	Opaque	3.0" x 8'0"	01-/07+	Yes	Comments NCTL-210-3121-1/CTLA919W Maximum Panel Size: 3'0" x 8'0"
I/S Opaque 6'0" x 8'0" +45/-50 Yes O/S Opaque Door 6'0" x 8'0" +50/-45 Yes I/S Opaque Door 6'0" x 8'0" +45/-50 Door-Yes Glazed Sidelite 6'0" x 8'0" +50/-45 Door-Yes Glazed Sidelites 9'0" x 8'0" +50/-45 Door-Yes Glazed Sidelites 9'0" x 8'0" +45/-50 Door-Yes O/S Opaque Door 9'0" x 8'0" +50/-45 Door-Yes Glazed Sidelites 9'0" x 8'0" +50/-45 Door-Yes Glazed Sidelites 5'0" x 8'0" +50/-45 Door-Yes Glazed Sidelites 12'4" x 8'0" +50/-45 Doors-Yes Glazed Sidelites Chaque Doors 12'4" x 8'0" +50/-45 Doors-Yes O/S Opaque Doors 12'4" x 8'0" +50/-45 Doors-Yes Glazed Sidelites Chaque Doors 12'4" x 8'0" +50/-45 Doors-Yes	1	S/O	Opaque	3.0" x 8'0"	02-/02+	Yes	Installation Drawings-MA-FL0129-05 NCTL-210-3121-1/CTLA919W Maximum Panel Size: 3'0" x 8'0"
O/S Opaque 6'0" x 8'0" +50/45 Yes I/S Opaque Door 6'0" x 8'0" +45/-50 Door-Yes O/S Opaque Door 6'0" x 8'0" +50/45 Door-Yes Glazed Sidelite 9'0" x 8'0" +45/-50 Door-Yes Glazed Sidelites 9'0" x 8'0" +45/-50 Door-Yes Glazed Sidelites 9'0" x 8'0" +45/-50 Door-Yes Glazed Sidelites 12'4" x 8'0" +45/-50 Doors-Yes Glazed Sidelites 12'4" x 8'0" +45/-50 Doors-Yes Glazed Sidelites 12'4" x 8'0" +50/-45 Doors-Yes		NS.	(6)	6.0" x 8'0"	+45/-50	Yes	Installation Drawings-MA-FL0129-05 NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0"
I/S Opaque Door 6'0" x 8'0" +45/-50 Door-Yes O/S Opaque Door 6'0" x 8'0" +50/-45 Door-Yes I/S Opaque Door 9'0" x 8'0" +45/-50 Door-Yes O/S Opaque Door 9'0" x 8'0" +45/-50 Door-Yes O/S Opaque Door 9'0" x 8'0" +50/-45 Door-Yes Glazed Sidelites 9'0" x 8'0" +50/-45 Door-Yes Glazed Sidelites 12'4" x 8'0" +50/-45 Doors-Yes		S/O	Opaque	6.0" x 8'0"	+50/45	Yes	Installation Drawings-MA-FL0129-05 NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0"
O/S Opaque Door 6'0" x 8'0" +50/-45 Door-Yes Glazed Sidelite Boor 9'0" x 8'0" +45/-50 Door-Yes Sidelites-No O/S Opaque Door 9'0" x 8'0" +45/-50 Door-Yes Sidelites-No Opaque Door 9'0" x 8'0" +50/-45 Door-Yes Sidelites-No O/S Opaque Doors 12'4" x 8'0" +45/-50 Doors-Yes Glazed Sidelites Sidelites-No Sidelites-No Sidelites-No O/S Opaque Doors 12'4" x 8'0" +50/-45 Doors-Yes Sidelites-No Sidelites-		S/I	Opaque Door Glazed Sidelite	6.0" x 8'0"	+45/-50	Door-Yes Sidelite-No	Installation Drawings-MA-FL0129-05 NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidefile: 3'0" x 8'0"
US Opaque Door 9:0" x 8:0" +45/-50 Door-Yes Sidelites-No O/S Opaque Door 9:0" x 8:0" +50/-45 Door-Yes Sidelites-No U/S Opaque Doors 12:4" x 8:0" +45/-50 Doors-Yes Sidelites-No O/S Opaque Doors 12:4" x 8:0" +45/-50 Doors-Yes Sidelites-No Glazed Sidelites Sidelites-No Sidelites-N	5	S/O	Opaque Door Glazed Sidelite	6.0" x 8'0"	+50/45	Door-Yes Sidelite-No	Installation Drawings-MA-FL0129-05 NCTL-210-3123-1 Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0"
O/S Opaque Door 9'0" x 8'0" +50/45 Door-Yes Glazed Sidelites I/S Opaque Doors 12'4" x 8'0" +45/-50 Doors-Yes Glazed Sidelites O/S Opaque Doors 12'4" x 8'0" +50/45 Doors-Yes Sidelites-No Glazed Sidelites Sidelites-No Sidelites-No	92	NS.	Opaque Door Glazed Sidelites	9.0" x 8'0"	+45/-50	Door-Yes Sidelites-No	Maximum Panel Size: 3'0" x 8'0" x 8'0" x 8'0"
I/S Opaque Doors 12'4" x 8'0" +45/-50 Doors-Yes Glazed Sidelites O/S Opaque Doors 12'4" x 8'0" +50/-45 Doors-Yes Glazed Sidelites Sidelites-No	50	s/o	Opaque Door Glazed Sidelites	9.0" x 8'0"	+50/45	Door-Yes Sidelites-No	Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0"
O/S Opaque Doors 12'4" x 8'0" +50/-45 Doors-Yes Glazed Sidelites Sidelites-No	Double w/Sidelites	S/I	Opaque Doors Glazed Sidelites	12'4" x 8'0"	+45/-50	Doors-Yes Sidelites-No	Maximum Panel Size: 3'0" x 8'0"/Sidelite: 3'0" x 8'0"
	Double w/Sidelites	s/o	Opaque Doors Glazed Sidelites	12'4" x 8'0"	+50/45	Doors-Yes Sidelites-No	Maximum Panel Size: 3.0" x 8.0"/Sidelite: 3.0" x 8.0"

Installation Drawings-MA-FL0129-05 National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606 Tel-757.594.8658/Fax-757.594.8659

Masonite International Corporation West Chicago, IL 60185 1955 Powis Road Company:

Product:

Certification Date: Certification No.: Expiration Date:

N1006110-Page 5 07/23/2005

12/31/2008

Wood-Edge Steel Glazed Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted) Specifications Tested To: PA 202-94

label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification NAMI's Certified Product Listing at www.Namicertification.com. NAMI's Certification Program is accredited by The American National Standards Institute (ANSI).

				T		1				T
Test Report Number Drawing Number &	Comments NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"	installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 MA-WL0115/16/17/18/19/20/21-02 Maximun Panel Size: 3'0" x 6'8"	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7 Maximum Panel Size: 3'0" x 6'8"	Installation Drawings-MA-FL0130-05 NCTL-210-2930-7
Missile Impact Rated	No	No	No	No	Door-No Sidelite-No	Door-No Sidelite-No	Door-No Sidelites-No	Door-No Sidelites-No	Doors-No Sidelites-No	Doors-No
Design Pressure Pos/Neg	+50.5/-50.5	+50.5/-50.5	+50.5/-50.5	+50.5/-50.5	+50.5/-50.5	+50.5/-50.5	+50.5/-50.5	+50.5/-50.5	+50.5/-50.5	+50.5/-50.5
Maximum Size	3.0" x 6'8"	3.0" x 6'8"	.8.9 x .0.9	6,0,, x 6,8,,	6.0" x 6'8"	6'0" x 6'8"	9.0. x 6.8	.8.9 x .0.6	12'6" x 6'8"	12,6"x 6'8"
or Opaque	Glazed	Glazed	Glazed	Glazed	Glazed Door Glazed Sidelite	Glazed Door Glazed Sidelite	Glazed Door Glazed Sidelites	Glazed Door Glazed Sidelites	Glazed Doors Glazed Sidelites	Glazed Doors
Outswing	S	S/O	S	S/0	I/S	\$/0	S/I	s/o	I/S	S/O
Configuration	Single	Single	Double	XX Double	XO/OX Single w/Sidelite	XO/OX Single w/Sidelites	Single w/Sidelites	Single w/Sidelites	Double w/Sidelites	Double w/Sidelites

Installation Drawings-MA-FL0130-05 National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606 Tel-757.594.8658/Fax-757.594.8659

Masonite International Corporation West Chicago, IL 60185 1955 Powis Road

Company:

Product:

NI006110-Page 6 Certification Date: Certification No.:

07/23/2005

12/31/2008

Expiration Date:

Wood-Edge Steel Glazed Inswing or Outswing Door w/ and w/o Non-Impact Rated Sidelites (w/Wood Frame unless noted) Specifications Tested To: PA 202-94

label represents product conformity to the applicable specification and that all certification criteria has been satisfied. This product has been approved for listing within NAMI's Certification Program is accredited by The American National Standards Institute (ANSI). The "Notice of Product Certification" is only valid if the NAMI Certification Label has been applied to the product as described within this document. The certification

Configuration	or Outswing	Glazed or Opaque	Maximum	Design Pressure	Missile Impact	Design Missile Test Report Number Pressure Impact Drawing Number
Single	S/I	Glazed	3.0" x 8.0"	+40/45	No	Comments NCTL-210-3125-1
Single	S/0	Glazed	3.0" x 8.0"	+45/40	No	Installation Drawings-MA-FL0131-05 NCTL-210-3125-1
Double	I/S	Glazed	6.0" x 8'0"	+40/-45	No	Installation Drawings-MA-FL0131-05 NCTL-210-3125-1
Double	S/O	Glazed	6.0" x 8.0"	+45/40	No	Installation Drawings-MA-FL0131-05 NCTL-210-3125-1
Single w/Sidelite	I/S	Glazed Door Glazed Sidelite	0.8 ×0.9	+40/45	Door-No	Installation Drawings-MA-FL0131-05 NCTL-210-3125-1
Single w/Sidelites	S/O	Glazed Door Glazed Sidelite	.0.8 ×0.9	+45/-40	Door-No	Installation Drawings-MA-FL0131-05 NCTL-210-3125-1
OXO Single w/Sidelites	S/I	Glazed Door Glazed Sidelites	.0.8 ×0.6	+40/-45	Door-No Sideling M	Installation Drawings-MA-FL0131-05 NCTL-210-3125-1
Single w/Sidelites	S/O	Glazed Door Glazed Sidelites	9,0, x 8,0,,	+45/-40	Door-No	Installation Drawings-MA-FL0131-05 NCTL-210-3125-1
OXXO Double w/Sidelites	S/I	Glazed Doors Glazed Sidelites	12'6" x 8'0"	+40/45	Doors-No	Maximum Panel Size: 3.0" x 8.0" Installation Drawings-MA-FL0131-05 NCTL-210-3125-1
OXXO Double w/Sidelites	S/O	Glazed Doors Glazed Sidelites	12'6" x 8'0"	+45/40	Doors-No	Maximum Panel Size: 3'0" x 8'0" Installation Drawings-MA-FL0131-05 NCTL-210-3125.1

National Accreditation & Management Institute, Inc./11870 Merchants Walk Suite 202/Newport News, VA 23606 Tel-757.594.8658/Fax-757.594.8659

Installation Drawings-MA-FL0131-05



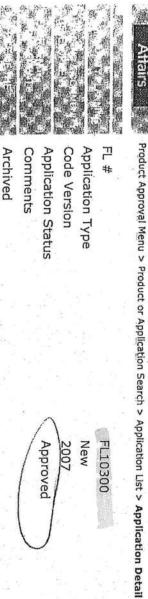


Product Approval
USER: Public User

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Code Version Application Type Archived Application Status Comments

> FL10300 Approved New 2007

Address/Phone/Email Product Manufacturer

420 Industrial Boulevard Baldwin, GA 30511 Magnolia Window & Door rsmith@magnoliawindow.com (706) 778-1200

Authorized Signature

rsmith@magnoliawindow.com Rick Smith

Address/Phone/Email Technical Representative

Quality Assurance Representative

Address/Phone/Email

Subcategory Category Single Hung Windows

Compliance Method Certification Mark or Listing

Validated By Certification Agency Keystone Certifications, Inc.

Referenced Standard and Year (of Standard) Standard

AAMA/WDMA/CSA 101/IS 2/A440

Year 2005

Equivalence of Product Standards Certified By

Product Approval Method

Method 1 Option A

Date Approved Date Pending FBC Approval Date Validated Date Submitted 02/15/2008 03/18/2008 02/15/2008 02/13/2008

Summary of Products

FL #	Model, Number or Name	Description
10300.1	SH350 Single Hung	New construction vinvl single hung
Limits of Use Approved for use in HVHZ: No Approved for use outside HVH Impact Resistant: No	Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No	Certification Agency Certificate FL10300_R0_C_CAC_168-117CAR.pdf Quality Assurance Contract Expiration Date
Design Pressure: +50/-50	+50/-50	Installation Instructions
omer:		FL10300_R0_II_SH 350.pdf
*		Verified By: Luis R. Lomas PE-62514
		Created by Independent Third Party:
		Created by Independent Third Park.
10300.2	SH350 Twin Single Hung	New Construction integral mulled twin vinyl single
Limits of Use		Certification Agency Cortificate
Approved for use in HVHZ: No Approved for use outside HVH Impact Resistant: No	Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No	Certification Agency Certificate FL10300_R0_C_CAC_168-119CAR.pdf Quality Assurance Contract Expiration Date
Design Pressure: +50/-50	+50/-50	Installation Instructions
		FL10300_R0_II_SH 350 TWIN.pdf
		Created by Independent Third Party:
		Evaluation Reports
		Created by Independent Third Party:

Back

Next

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436
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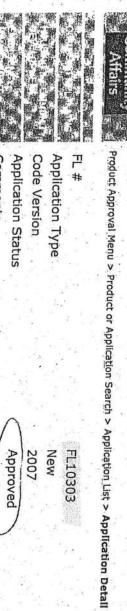


Product Approva

USER: Public User

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Application Status Comments Code Version Application Type Archived

> New FL10303 2007 Approved

Address/Phone/Email Product Manufacturer

420 Industrial Boulevard Baldwin, GA 30511 (706) 778-1200 Magnolia Window & Door rsmith@magnoliawindow.com

Authorized Signature

rsmith@magnoliawindow.com

Address/Phone/Email Technical Representative

Quality Assurance Representative

Address/Phone/Email

Subcategory Category Fixed Windows

Compliance Method Certification Mark or Listing

Validated By Certification Agency Keystone Certifications, Inc.

Referenced Standard and Year (of Standard) Standard

AAMA/WDMA/CSA 101/IS 2/A440

Year 2005

Equivalence of Product Standards
Certified By

Product Approval Method Method 1 Option A

Date Submitted Date Approved Date Pending FBC Approval Date Validated 03/18/2008 02/14/2008 02/13/2008 02/13/2008

Summary of Products

FL#	Model, Number or Name	Description
10303.1	PW350 Fixed	New construction vinvl fixed window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No	in HVHZ: No outside HVHZ: Yes No	Certification Agency Certificate FL10303_R0_C_CAC_168-120CAR.pdf Quality Assurance Contract Expiration Date
Design Pressure: +60/-60 Other:	+60/-60	Installation Instructions FL10303_R0_II_PW 350.pdf Verified By: Luis R. Lomas, PE PE-62514 Created by Independent Third Party: Evaluation Reports

Back Next

DCA Administration

Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

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Community **Affairs**

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Product Approval Menu > Product or Application Search > Application List

ALC: N	
₽ C	DAMUNITY PLANNING
	DUSING & COMMUNITY. VELOPMENT
	10 70 90 90 90 90 90 90 90
	erdency Nagement
AND DESCRIPTION OF THE PERSON NAMED IN	FICE OF THE CHETURY
	$\begin{array}{ll} (2^{n+1})^n & \mathcal{A}^n & = (6^n, 4^n)^n \\ \mathcal{A}^n & = (6^n, 6^n)^n & = (6^n, 6^n)^n \\ \end{array}$
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10.0	

Search Criteria	~		1
Code Version	2004	FL#	ALL
Application Type	ALL	Product Manufacturer	Elk Corpor.
Category	Roofing	Subcategory	ALL.
Application Status	ALL	Compliance Method	ALL

Search R	esuits - A	pplications	
FL#	Type	Manufacturer	Validated By
FL586-R2 History	Revision	Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	
FL728-R1 History	Revision	Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	(*)
FL1476-R2 History	Revision	Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	
FL2143-R2 History	Revision	Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	
FL3453-R1 History	Revision	Elk Corporation Category: Roofing Subcategory: Underlayments	
FL3461-R2 History	Revision	Elk Corporation Category: Roofing Subcategory: Underlayments	PRI Asphalt Technologies, Inc (813) 621-5777
FL5178	New	Elk Corporation Category: Roofing Subcategory: Other	
L5511-R1 listory	Revision	Elk Corporation Category: Roofing Subcategory: Underlayments	*V
L5524	New	Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	
L5683	New	Elk Corporation Category: Roofing Subcategory: Asphalt Shingles	
L5783		Elk Corporation Category: Roofing	PRI Asphalt Technologies, Inc (813) 621-5777





PRESTIQUE® HIGH DEFINITION®



RAISED PROFILE®

Tunga anan

Frestique Plus High Definition and Prestique Gallery Collection"		Raised Profile	
Product size13K'x 39K' Exposure5K' Piccts/Bundle18 Bundles/Square4/98.5 sq.ft. Squares/Pallet11	50-year Entitled warranty period: 5-7" years non-prorated coverage for shingles and application labor with prorated coverage for remainder at limited warranty period, plus an option for transferability. 5-year limited wind warranty. Wind Coverage, standard 80 mpt, extended 110 mph.**	Product size	28-year limited worramy period: 5-7**Neara non-prorated coverage for shingles and application labor with prorated coverage for remainder of fimited warranty period, plus an oglion for transferability*, 5-year limited wind warranty*. Wind Coverage: standard 70 mph.
Prestique I High Definition			
Product size		HIP AND RIDGE SHINGLES	
Pieces/Bundle16 Bundles/Square1/30.5 sq.fc. Squares/Pallot14	shingles and application labor with provated coverage for remainder of limited warranty period, plus an option for transferability, 5-year	Seal-A-Ridge* w/FLX* Sta: 12*x 12* Exposure: 69*	Vented RidgeCrest" w/FLX: Size: 13'x13'X Exposure: 9'A'
	himited wind warranty". Wind Coverage: standard 50 mph, extended 90 mph***	Pieces/Bundle: 45 Coverage: 4 Bundles =	Pieces/Box: 26 Coverage: 5 boxes =
Prestique High Definition	2	100 linear feet	100 linear feet
Product size	30-year limited warranty passed: 6-7°*years non-provided coverage for shingles and application labor with	Elk Starter Strip 52 Bundlee/Pellet 18 Pallets/Truck	2 10

936 Bundles/Truck

19 Piecea/Bundle

1 Bundle = 120.33 linear feet

Available Colors (Chack Availability): Antique Sisia, Weatheredwood, Shekewood, Sablewood, Hickory, Barlowood, Farest Green, Wadgewood, Birchwood, Sandahrood.

Gallery Callection: Balsam Forest", Weathered Sage", Sisona Eunsal".

All Presique, Raised Profile and Seal-A-Ridge, and Presique Starter Strip reeding products contain sealent which activates with the sun's heet, bonding shingtes into a wind and weapher resistant cover that resists blow-oils and leaks.

Check for evaluability with bull-in StainGuard' treatment to inhibit the discoloration of rooting granules caused by the growth of certain types of alger.

prorated coverage for remainder of limited werrenty period, plus an option for transferability. 5-year

nited wind warrenty". Wind

Coverage: standard 80 mph.

All Prestique and Raised Profile chingles meet U.L. Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 780); and ASTM Specifications D 3010, Type-I; D 3161. Type-I; E 186 and the requirements of ASTM D 3462.

All Pressique and Haisad Profile shingles here approved from the Florida Building Code Commission, Metro-Dade County, (CBO, and Texas Department of Jesurance.

San metral limited warranty for conditions and limited: "Escripe Japany 1, 2004, the pavan year non-provided philosolas increasions for such products, A half UR; resi

SPECIFICATIONS

Squares/Pallet _____16

Score: Work includes furnishing all labor, materials and aculpment necessary to complete installation of name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be EIK Seal-A-Ridge with formula FLX.

All exposed metal curlaces (flashing, vents, etc.) to be painted with metching Elk roof accessory paint.

or Deat: Roof deak to be dry, well-Prevaumos er Reer Deck Roof deck to be dry, well-seasoned T x 6" (25.4mm x 152.4mm) beards; exterior-grade phywood (exposure 1 rated sheathing) at least 3/6" (3.525mm) thick conforming to the specifications of the American -Phywood Association; 7/16" (11.674mm) priented atrandboard; or chiphoerd. Moet fire reterdant phywood decks are NOT approved cubstrates for Ex-stangles. Consult Eik Held Service for application specifications over other decks and other alopse. Minerials: Underlayment for standard roof etopse, 4' per foot (1011,6/304 form) or greator; apply non-perforated No. 15 or 30 asphale-saturated felt underlayment. For Low elopsel,4' per foot (101,6/304.8mm) to a minimum of 2' per foot (50,8/304.8mm), use two piece of underlayment overlapped a minimum of 15'. Feeleners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle weapper.

For areas where algaz is a problem, shingles shall be (name) with SteinGuard treatment, as manufactured by the Filk Tuscalloose plant. Hip and ridge type to be Seal-A-Ridge with formula HIX with StainGuard treatment.

Complete application instructions are published by Elk and princed on the back of every shingle burdle. All warranties are contingent upon the sorrect installation as shown as the instructions. These instructions are the inimum required to meet Elk application requ In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will tilk accept application requirements less than those contained in its application instructions.

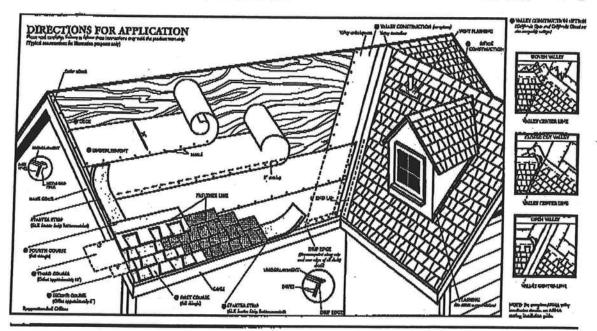
For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfe@elkcorp.com.

SOUTHBAST & ATLANTIC OFFICE: 800.945.5551

CORPORATE HEADQUARTERS; 800.354.7732

PLANT LOCATION: 800.945.5545





DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meal EMs application requirements. Your feature to follow these instructions may void the product wetraths, in some sees, the healthing codes stay require additional application rechniques or methods hayond our instructions. In these cases, the incel code study the followed, Under no circumstances will EM accept application requirements that are less than those printed hore. Shingles should not be jammed tightly together. All strick should be praparly vanishable. Here: It is not no occurry to remove tape un hank of shingles. properly ventilate back of shingle.

Roof de cha should be dry, well-seasoned Y x F boards or exterior grade plywood minimum 3/F thick and conform to the specifications of the American Phymond Association or 7/16* adented strandboard, or 7/16* chiphoard.

O UNIDERLAYMENT

Apply underleyment iNon-Perforated No. 15 or 30 asphalt casurated feld, Elk Vertachield' or self adhering underleyment is also acceptable. Cover drip edge at aspez only.

For low slope(2/12 up to 4/13), somplately sweet the deck with nee piles of underlayment overlopping a minimum of 19. Begin by lestering a 15" wide airig of underlayment placed along the caves. Place a full 35" wide aheat over the scenar, harizentally placed along the waves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS JASK A RODFING CONTRACTOR, REFER TO ARMA MANUAL ON CHECK LOCAL CODES)

For scandard slope (4/12 to less then 21/12), use coated roll recting of no less then 50 pounds over the fest underlayment extending from the eave adgs to a point at least 24' beyond the inside well of the living space below or true layer of a self-adhered save and

for low elops (2/12 up to 4/12), use a continuous tayer of asphalt plastic cament between the two plins of underlayment from the cave edge up toof to a point at least 24' beyond the inside well of the living space below or one layer of a self-adhered save and flashing normbrane.

Consult the Elk Technical Services Department for application specifications ever other decks and other slopes.

O STARTER ENDIGLE COURSE

USE AN ELK STARTER STRIP OR THE HEADLAP OF A STRIP SHINGLE WITH THE ADMESIVE STRIP POSITIONED AT THE EAVE EDGE. With at least 3" branced from the end of the first ablingle, start at the price adja or surfanging the eave and rate adjass (X" to 34". Featen X' from the lower adjas and t' from mech side.

O FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course. Shingles may be applied with a course alignment of 45° on the roof

@ SECOND COURSE

Offices the second course of shingles with respect to the first by approximately 6". Other officets are approved if greater them 4"

O THURD COURSE

Offset the next course by 6" with respect to the second course, or vonsistent with the original offset.

@ FOURTH COUNTS

Start at the rake and continue with full shingles across roof.

FIFTH AND EUCCEEDING COURSES.

Repast application as shown for second, third, and fourth courast. Do not rack shingles straight up the roof. Offsets may be adjusted around valleys and penetrations.

@ VALLEY COMSTRUCTION

Open, weven and closed out valleys are acceptable when applied by Asphelk Roofing Manufacturing Association (ARMA) recommended procedures. For meast valleys, use 35' wide vartical underfayment, price to applying metal flashing lineurs adge with nells). No nells are to be within 5' of valley center.

@ RIVGE CONSTRUCTION

For fidge Centeryctism Fik receptmende Clean "A" Z'Plidge ar Seell-Alidge" with farmule FIX" or RidgeCreat" with FIX See ridge package for Installation Instructions). Vanied RidgeCreat or 3-tal shingles are also approved.

FASTENERS

While nailing is the protected method for ER ahingias, ER will ecopy lessening methods according to the fallowing instructions. Using the factorer line as a relevance, and or scale has along lain the double histories consequent had area. For ahingian methods a passoner line, sails or staplan ment be placed between unifor the hadden of the consequence of

NAMA: Corrective realistant, 340" head, ministum 12-pauge realing naile, Elk recommends 3-[A" for new mosts and 1-1/2" for real-ower. In casea where you are applying shingles to a real shackes an exposed everteen, the reverse conty, 340" ring shank nails are allowed to be used from the savel's edge to a point up the reel that is past the extended wall line. 1" ring shank nails allowed for the content of the STAPLES: Corrosive resistant, 18-gauge minimum, crown width minimum of 15/16". Note: An improperty adjusted staple gan can result in raised staples that was cause a fish-mouthed appearance and can proved realing.

Fasteners should be long enough to obtain 3/4 dock passersion or penovation through dock, whichever is loss. This product mosts the requirements of the IPC 2003 ands whom fastened with

MANEARD APPLICATIONS

Context factoring is critical to the performence of the roof. For slopus exceeding 80° for 20/12 use at factorings per stringle. Locate feateners in the factorier or a 1° from each side adea with the remaining four factoriers aqualty apecad along the length of the double Oxicinass ijentential) area. Only fastering methods according to the above instructions are accopiable.

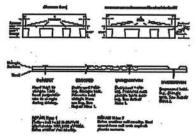
LIMITED WIND WARRANTY

- For a United Wind Warrandy, all Prastique and Raised Profile's shingles must be applied with 4 property placed featurers, or in the case of maneard applications, 6 property placed fasteners
- per shingle.

 For a Linited Wind Warranty up to 118 MPH for Prestique Gallery Collection or Prestique Plus or 38 MPH for Prestique I, shingles must be applied with 6 property pieced NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL MOTI DIJALIPY PUR THIS ENHANCED LIMITED WIND WARRANTY. Also, ER Starter Stifp shingles must be applied at the saves and raise edges to quality Prastique Plus. Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Worranty. Under no circumstances should the EIX Shingles of the EIX Starters Stifp overhang the saves or rake adae more than 374 of an inch.

HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fattoners must be driven into the DOUBLE THICKNESS (laminated) error of the shingle. Nells or supples must be placed along a and strough — the fattoner lise or a products without fattoner lines, nail or staple between and in line with sealant dots. CAUTION: Do not use factoner line for



Refer to local codes which is some areas may require openion application techniques beyond these Elk has specified. All President and Related Praise shingles have a ULLAD Wind Resistance Raising when applied in accordance with these instructions using noise or taples on re-roofs as well as row

CAUTION TO WHOLESALER: Carolices and improper alorage or CAUTION TO WHOLESALER: Curdotes and improper atomage or handling can harm liberglote chingles. Keep these shingles completely commed, dry, reasonably cool, and presocted from the weather, Do not store near various sources of heat. Do not store in direct smallight well upplied, DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the lists to be extended. first to be moved out.



SERIES 420/430/440 SLIDING GLASS DOORS

THIS FENESTRATION PRODUCT COMPLIES* WITH THE NEW FLORIDA BUILDING CODE

FOR RESIDENTIAL BUILDINGS WITH A MEAN ROOF HEIGHT OF 30 FT. OR LESS, EXPOSURE "B" (WHICH IS INLAND OF A LINE THAT IS 1500' FROM THE COAST), AND WALL ZONE "5" (INSTALLED NEAR THE CORNER OF A BUILDING).

PER ASTM E1300, THE CORRECT GLASS THICKNESS, BASED ON THE NEGATIVE DESIGN PRESSURE (OP) LISTED BELOW, HAS BEEN INSTALLED IN THIS UNIT. THE GLASS THICKNESS IS BASED ON ITS' WOTH, HEIGHT, AND ASPECT RATIO.

STANDARD 6'- 8" HIGH PANELS ARE NON REINFORCED

6'-8' HIGH 2'- 6" WIDE

DP +54 / -54

3'- 0" WIDE

DP +47 / -47

4'- 0" WIDE

DP +39 / -39

5'- 0" WIDE

DP +35 / -35

STANDARD 8'- 0" HIGH PANELS ARE STEEL REINFORCED

8'-0'

2'- 6" WIDE 3'- 0" WIDE

DP +57 / -57 DP +49 / -49

H

4'- 0" WIDE

DP +40 / -40

5'- 0" WIDE

DP +35 / -35

SPECIAL ORDER 6'- 8" HIGH PANELS - WITH STEEL REINFORCEMENT

2'- 6" WIDE 3'- 0" WIDE

DP +71 / -71

4'- 0" WIDE

DP +62 / -62 DP +52 / -52

BOX TO BE CHECKMARKED AT FACTORY IF REINFORCED 5'- 0" WIDE

DP +46 / -46

THIS PRODUCT MEETS THE REQUIREMENTS FOR STRUCTURAL LOADS, WATER AND AIR INFILTRATION PER ATTACHED AAMA PERFORMANCE LABEL. BE ADVISED THAT IF LOADS ARE PLACED UP TO OR EXCEEDING THE TESTED LEVELS, THIS PRODUCT MAY BE ALTERED IN SUCH A WAY THAT FUTURE PERFORMANCE WILL BE REDUCED.

* COMPLIANCE MUST INCLUDE INSTALLATION ACCORDING TO ... MANUFACTURER'S INSTRUCTIONS AND FLORIDA CODE REQUIREMENTS.



NATIONAL CERTIFIED TESTING LABORATORIES

1464 GEMINI BOULEVARD • ORLANDO, FLORIDA 32837 PHONE (407) 240-1356 • FAX (407) 240-8882

STRUCTURAL PERFORMANCE TEST REPORT

 Report No:
 NCTL-210-2065-1

 Test Date:
 06-21-00

 Report Date:
 09-25-00

 Expiration Date:
 09-25-04

01/31/02

Revision Date:

Client: MI Home Products 4314 Route 209 Elizabethville, 17023-8438

Test Specimen: Better Bilt Aluminum Product's Series "420" Type OXX Aluminum Sliding Glass Door. (SGD-C35)(Single Glazed)(Steel Reinforced)(with and without sill riser).

Test Method: AAMA/NWWDA 101/I.S.2-97, "Voluntary Specifications for Aluminum, Vinyl (PVC), and Wood Windows and Glass Doors."

Revision Note: Sill leg extension was revised from 1-1/8" to 1-1/4"

TEST SPECIMEN DESCRIPTION

General: The sample tested was a three (3) panel type OXX aluminum sliding glass door measuring 15-1-3/4" wide x 8'0-1/8" high overall. The active panel measured 5'0-1/2" wide by 7'11-1/8" high; the fixed panel measured 5'0-7/8" wide by 7'11-1/8" high. Frame and panel member s were not thermally broken. A plastic spacer/guide was used at each panel head/stile corner. The fixed panel was secured to the jamb with two (2) 3" long aluminum angle retainers each fastened to the jamb stile with two (2) (#8 x 3/4") pan head screws. One (1) claw type door lock assembly was located at 40" from the bottom of each active panel lock stile each with two (2) screws. One (1) adjustable metal roller assembly was used at each end of the active bottom rails. The frame was of double screw coped corner construction. Panel corners were of single screw at bottom rail and double screw at the top rail. The interior vertical sill leg employed an extruded aluminum 1-1/4" high extension; an overall height of 2.031. One (1) aluminum panel retainer was fastened at 2" from each of the active panel bottom rail. One (1) extruded aluminum female panel adapter was fastened to the fixed panel but stile with five (5) (#8 x 1/2") screws. One extruded aluminum screen adapter was fastened to the butt stile using five (5) (#8 x 1/2") screws.

Installation: The main frame was fastened to the wood test buck using forty eight (48) (# 1/2") FHS. (See fastener diagram.)

Reinforcement: One (1) U-shaped glavanized steel reinforcing channel measuring 1-3/4" x 3/4" x 1/16" thick filled the length of the panel adapter stile. One (1) U-shaped galvanized steel reinforcing channel measuring 3/4" x 7/8" x 1/16" thick filled the length of each interlock stile.

Glazing: All panels were channel glazed using 3/16" thick clear tempered glass with a flexible vinyl glazing bead.

Weatherseal: Double strips of centerfin weatherstrip (0.270" high) were located at each jamb, stile and lock stile. A double strip of centerfin weatherstrip (0.180" high) was located at each interlock stile. A double strip of centerfin weatherstrip (0.250" high) was located at each panel top rail. A double strip of side fin weatherstrip (0.430" high) was located at each panel bottom rail. An adhesive back polypile dust plug measuring 1-3/16" x 13/16" x 0.420" was located on the head and sill at each end of the vertical stile exterior track.

Weeps: One (1) weep notch measuring 1-1/2" x leg height was located at each end of the interior sill roller leg, exterior sill roller leg and screen sill roller leg.

Interior & Exterior Surface Finish: Non-painted aluminum

Sealant: Frame and panel bottom rail corners were sealed with a small-joint sealant.

Insect Screen: Two (2) insect screens, one (1) center insect screen measuring 5'0-1/4" wide by 7'11" high; Both were of coped corner construction. The screen employed fiberglass mesh cloth with a hollow vinyl spline. One (1) roller assembly was located at each end of the bottom rails. One (1) claw type lock assembly.

£	TES	T RESULTS		
<u>Par. No.</u> 2,2,1.6.1	<u>Title of Test & Method</u> Operating Force Center Active Panel		Measured	Allowed
	To open In Motion		20 lbf 5 lbf	30 lbf 30 lbf
	Right Active Panel			
a taga saar	To open In Motion		18 lbf 3 lbf	30 lbf 30 lbf
2.2.1.6.2	Deglazing - ASTM E987 Center Active Panel Top Rail (50 lbf) Bottom Rail (50 lbf) Left Stile (70 lbf) Right Stile (70 lbf)		10.2 % (0.051") 7.8 % (0.039") 6.0 % (0.030") & 5.4 % (0.027;")	100% 100% 100%
э э				2 6/2 3

<u>Par. No.</u> 2.2.1.6.2	<u>Title of Test & Method</u> Deglazing - ASTM E987	Measured	Allowed
4.2.1.4.2	Right Active Panel		5 .
**	Meeting Rail (50 lbf)	8.4 % (0.042")	<100%
	Bottom Rail (50 lbf)	8.4 % (0.042")	<100%
	Left Stile (70 lbf)	8.0 % (0.040")	<100%
₩.	Right Stile (70 lbf)	6.2 % (0.031")	<100%
2.1.2	Air Infiltration	Passed	0.30cfm/ft2
	1.57 psf(25mph)		
2.1.3	Water Resistance-(5.0GPH/FT/2) WTP=4.50 psf	No entry	No entry
2.1.4.2	Uniform Load Structural - ASTM E330		ж.
	45.0 psf Exterior	0.245"	0.381"
2 18 2 18	45.0 psf Interior	0.258"	0.381"
	OPTIONAL PERFOR	MANCE	
Par. No.	Title of Test & Method	Measured	Allowed
4.3 *	Water Resistance - ASTM E547 & E331	ATACLASTIC CO	2 IBAOWEG
0.000 (m)	5.0 gph/ft ²		
* 1	WTP =5.25 psf	No Entry	No Entry
	**************************************	- VONDERS ED TOMORIO CONTRETE DE TOMORIO DE	

Note: At this point in testing, an additional sill riser was attached to the existing main sill's interior vertical leg with the following results being obtained:

Par. No.	Title of Test & Method	Measured	Allowed
4.3 *	Water Resistance - ASTM E547 & E331 5.0 gph/ft ²	1 ,	
5965	WTP =6.00 psf	No Entry	No Entry
4.4.2	Uniform Load Structural - ASTM E330		
	52.5 psf Exterior	0.379"	0.381"
	52.5 psf Interior	0.380"	0.381"

^{*} Test performed with and without screen

TEST COMPLETED07/15/98

Note: In addition, Better Bilt Auminum Products' Series "430" and "440" also received a SGD-C35 rating being identical in panel construction and interior sill leg heights.

This test specimen meets the performance criteria level of (SGD-C35) of the AMA NIMITA. 101/I.S. 2-97 specification. Detailed drawings were available for laboratory records and compared to the test specimen at the time of this report. A copy of this report along with representative sections of the test specimen will be retained by NCTL for a period of four 4 years. The results obtained apply only to the specimen tested.

BETTER BILT ALUMINUM PRODUCTS FLORIDA DOOR SERIES 420

COMPARATIVE ANALYSIS CHART IN DESIGN PRESSURE

CA980370 07-Jan-2002 98-0801

		<u></u>
96	80 <	PANEL WIDTH >>
89	œ	24
57	71	30
49	62	36
44	58	42
. 46	52	4
37	48	54
35	40	88

TEST REPORT NOS: NCTL-210-2085-1 & 2
DESIGN PRESSURE ACHEIVED IN TEST: POS. & NEG. 35.0 PSF
WATER TEST PRESSURE: 5.25 PSF (SILL - 1-1/2" HGT.)

6.0 PSF (1-1/2" SILL WI .500" ADAPTER - 2" HGT. O.A.)

TEST SIZE: 181 3/4" X 96 1/8"
CONFIGURATION TESTED: OXX

GLAZING: 3/16" TEMPERED GLASS

REINFORCING: (1) STL CHAN. 1-34" X 34" X 34" X 3116"@ ADAPTER STILE;
(1) STL CHAN. 34" X 7/8"

X 1/16" @EA, INTRLK, STILE

LIMITATIONS:

PANEL WIDTHS AND HEIGHTS ARE NOMINAL TO 35 PSF W/ 1-1/2" SILL & 40 PSF W/ 2" SILL WATER PRESSURE REQUIREMENT OF 15% OF DESIGN LOAD APPLIES, POSITIVE DESIGN LOADS WOULD BE LIMITED THE ABOVE VALUES ARE STRUCTURAL DESIGN LOADS & HAVE NOT BEEN CAPPED BY WATER PERFORMANCE

PREPARED BY:

PRODUCT & APPLICATION ENGINEERING, INC.

250 INTERNATIONAL PARKWAY SUITE 260

HEATHROW, FLORIDA 32748

PHONE 407 805-0365 FAX 407 805-0366



BETTER BILT ALUMINUM PRODUCTS FLORIDA DOOR SERIES 420

COMPARATIVE ANALYSIS CHART IN DESIGN PRESSURE

CA980371 07-Jan-2002

98-0801

35	37	39	45	47	5 7	22	80 A
60	22	48	42	36	30	24	PANEL WIDTH >>

DESIGN PRESSURE: POS. & NEG. 35.0 PSF
WATER TEST PRESSURE: 6.25 PSF (SILL - 1-1/2" HGT.)
6.0 PSF (1-1/2" SILL W/ 1/2" ADAPTER - 2" HGT. O.A.)

TEST REPORT NOS: NCTL-210-2085-4 & 3

TEST SIZE: 181 3/4" X 82 1/8"
GLAZING: 3/16" TEMPERED GLASS
REINFORCING: NONE
CONFIGURATION TESTED: OXX

SNOTATIONS

WATER PRESSURE REQUIREMENT OF 15% OF DESIGN LOAD APPLIES, POSITIVE DESIGN LOADS WOULD BE LIMITED PANEL WIDTHS AND HEIGHTS ARE NOMINAL (IN INCHES). TO 35 PSF W/ 1-1/2" SILL & 40 PSF W/ 2" SILL THE ABOVE VALUES ARE STRUCTURAL DESIGN LOADS & HAVE NOT BEEN CAPPED BY WATER PERFORMANCE.

PREPARED BY:

PRODUCT & APPLICATION ENGINEERING, INC. 250 INTERNATIONAL PARKWAY

SUITE 250

HEATHROW, FLORIDA 32748

PHONE 407 805-0365 FAX 407 805-0388



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: Address: City, State: Owner: Climate Zone:	Haake Residence , North		Builder: Permitting Office: Permit Number: Jurisdiction Number:	
a. U-factor:	multi-family if multi-family boms se? r area (ft²) area: (Label reqd. by 13-104 Desi uble DEFAULT) 7a(Sngle t DEFAULT) 7b. Edge Insulation	cription Area	12. Cooling systems a. Central Unit b. N/A c. N/A 13. Heating systems a. Electric Heat Pump b. N/A c. N/A 14. Hot water systems a. Electric Resistance b. N/A c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) 15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	Cap: 36.0 kBtu/hr SEER: 13.00
Glas	ss/Floor Area: 0.06	Total as-built p	points: 22359 points: 24067 PASS	

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

PREPARED BY: Nora L. Juri

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

OWNER/AGENT: ______

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:	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

	BASE					AS-	BUI	LT				
GLASS TYPES .18 X Condition Floor Are		SPM = I	Points	Type/SC		rhang Len	Hgt	Area X	SPI	мх	SOF	= Points
.18 1414.0	0	18.59	4732.0	1.Single, Clear 2.Single, Clear 3.Single, Clear 4.Single, Clear	SE NW SW NE	0.0	0.0 0.0 0.0 0.0	15.0 30.0 6.0 30.0	2:	8.65 9.42 5.75 3.55	1.00 1.00 1.00 1.00	729.0 882.0 274.0 1006.0
WALL TYPES	Area X	BSPM	= Points	Туре		R-	Value	(TEELSON)	X	SPI	Λ =	Points
Adjacent Exterior	0.0 1271.8	0.00 1.70	0.0 2162.1	1. Frame, Wood, Exte	erior	3	13.0	1271.8		1.50		1907.7
Base Total:	1271.8		2162.1	As-Built Total:				1271.8				1907.7
DOOR TYPES	Area X	BSPM	= Points	Туре				Area	X	SPI	/ =	Points
Adjacent Exterior	0.0 61.2	0.00 6.10	0.0 373.3	1.Exterior Wood 2.Exterior Wood				20.4 40.8		6.10 6.10		124.4 248.9
Base Total:	61.2		373.3	As-Built Total:				61.2				373.3
CEILING TYPES	Area X	BSPM	= Points	Туре		R-Valu	ie A	Area X S	SPM	X S	= MC	Points
Under Attic	1414.0	1.73	2446.2	1. Under Attic			19.0	1414.0	2.34)	K 1.00		3308.8
Base Total:	1414.0		2446.2	As-Built Total:				1414.0				3308.8
FLOOR TYPES	Area X	BSPM	= Points	Туре		R-	Value	Area	X	SPN	1 =	Points
Slab 1 Raised	88.0(p) 0.0	-37.0 0.00	-6956.0 0.0	1. Slab-On-Grade Edg	ge Insulation		0.0	188.0(p	ě	41.20		-7745.6
Base Total:			-6956.0	As-Built Total:				188.0				-7745.6
INFILTRATION	Area X	BSPM	= Points					Area	Χ	SPN	1 =	Points
	1414.0	10.21	14436.9					1414.0	0	10.21		14436.9

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: ,,,	PERMIT #:

BASE			AS-BUILT
Summer Ba	se Points: 1	7194.5	Summer As-Built Points: 15172.1
Total Summer Points	X System = Multiplier	= Cooling Points	Total X Cap X Duct X System X Credit = Cooling Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)
17194.5	0.3250	5588.2	(sys 1: Central Unit 36000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 15172 1.00 (1.09 x 1.147 x 1.00) 0.260 0.902 4451.0 15172.1 1.00 1.250 0.260 0.902 4451.0

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE	AS-BUILT
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area	Overhang Type/SC Ornt Len Hgt Area X WPM X WOF = Point
.18 1414.0 20.17 5134.0	1.Single, Clear SE 0.0 0.0 15.0 21.82 1.00 327.0 2.Single, Clear NW 0.0 0.0 30.0 32.93 1.00 987.0 3.Single, Clear SW 0.0 0.0 6.0 24.09 1.00 144.0 4.Single, Clear NE 0.0 0.0 30.0 32.04 1.00 961.0 As-Built Total: 81.0 2419.0
WALL TYPES Area X BWPM = Points	Type R-Value Area X WPM = Points
Adjacent 0.0 0.00 0.0 Exterior 1271.8 3.70 4705.7	1. Frame, Wood, Exterior 13.0 1271.8 3.40 4324.1
Base Total: 1271.8 4705.7	As-Built Total: 1271.8 4324.1
DOOR TYPES Area X BWPM = Points	Type Area X WPM = Points
Adjacent 0.0 0.00 0.0 Exterior 61.2 12.30 752.8	1.Exterior Wood 20.4 12.30 250.9 2.Exterior Wood 40.8 12.30 501.8
Base Total: 61.2 752.8	As-Built Total: 61.2 752.8
CEILING TYPES Area X BWPM = Points	Type R-Value Area X WPM X WCM = Points
Under Attic 1414.0 2.05 2898.7	1. Under Attic 19.0 1414.0 2.70 X 1.00 3817.8
Base Total: 1414.0 2898.7	As-Built Total: 1414.0 3817.8
FLOOR TYPES Area X BWPM = Points	Type R-Value Area X WPM = Points
Slab 188.0(p) 8.9 1673.2 Raised 0.0 0.00 0.00	1. Slab-On-Grade Edge Insulation 0.0 188.0(p 18.80 3534.4
Base Total: 1673.2	As-Built Total: 188.0 3534.4
INFILTRATION Area X BWPM = Points	Area X WPM = Points
1414.0 -0.59 -834.3	1414.0 -0.59 -834.3

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS:,,,	PERMIT #:
	i Citani II.

BASE			AS-BUILT					
Winter Base	Points:	14330.1	Winter As-Built Points:	14013.8				
Total Winter X Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	= Heating Points				
14330.1	0.5540	7938.9	(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Gar 14013.8	(AH),R6.0 7367.8 7367.8				

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE			AS-BUILT										
WATER HEA Number of Bedrooms	TING X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	х	Tank X Ratio	Multiplier	Credit Multiplie		otal
4		2635.00		10540.0	40.0	0.92	4		1.00	2635.00	1.00	10	540.0
					As-Built To	otal:						10	540.0

9-	CODE COMPLIANCE STATUS												
	BASE							AS	-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
5588		7939		10540		24067	4451		7368		10540		22359

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: ,,,	PERMIT #:
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6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.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	606.1.ABC.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	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of 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	606.1.ABC.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 rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
dditional Infiltration reqts 606.1.ABC.1.3 Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFP have combustion air.			

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas			
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.7

The higher the score, the more efficient the home.

			1111			
1.	New construction or existing	New	_ 1	2. Cooling systems		
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 36.0 kBtu/hr	
3.	Number of units, if multi-family	1	5-052		SEER: 13.00	
4.	Number of Bedrooms	4	_	b. N/A		
5.	Is this a worst case?	Yes			×	ST 15
6.	Conditioned floor area (ft2)	1414 ft²		c. N/A		_
7.	Glass type 1 and area: (Label reqd.	by 13-104.4.5 if not default)	_			
a.	U-factor:	Description Area	1	3. Heating systems		_
	(or Single or Double DEFAULT)			a. Electric Heat Pump	Cap: 36.0 kBtu/hr	
b.	SHGC:	(ongre Demant) on a	-		HSPF: 7.70	-
	(or Clear or Tint DEFAULT)	7b. (Clear) 81.0 ft ²		b. N/A		
8.	Floor types	(6.6) 3.1.3.10				_
a.	Slab-On-Grade Edge Insulation	R=0.0, 188.0(p) ft		c. N/A		_
b.	N/A		_			_
c.	N/A		_ 1	4. Hot water systems		_
9.	Wall types		_	a. Electric Resistance	' Cap: 40.0 gallons	
a.	Frame, Wood, Exterior	R=13.0, 1271.8 ft ²			EF: 0.92	_
	N/A	1.77	_	b. N/A		_
c.	N/A		\$ 			_
d.	N/A		-	c. Conservation credits		_
e.	N/A		_	(HR-Heat recovery, Solar		_
10.	Ceiling types			DHP-Dedicated heat pump)		
a.	Under Attic	R=19.0, 1414.0 ft ²	1	5. HVAC credits	PT, CF,	
b.	N/A		2 	(CF-Ceiling fan, CV-Cross ventilation,		_
c.	N/A			HF-Whole house fan,	N.	
11.	Ducts			PT-Programmable Thermostat,		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 120.0 ft		MZ-C-Multizone cooling,		
	N/A	•	_	MZ-H-Multizone heating)		
I ce	rtify that this home has complie	ed with the Florida Energy	y Efficier	ncy Code For Building	THECE	
Con	struction through the above en	ergy saving features which	h will be	installed (or exceeded)	OF THE STATE OF	à.
in th	nis home before final inspection	n. Otherwise, a new EPL I	Display (Card will be completed		Be
	ed on installed Code compliant			and was the experience of the angest of # 1000 angest of # 1000 angest of # 1000 angest of # 1000 angest of # 1	Z man	SI
	lder Signature:		Date:			5
		-				~#

*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar **Idesignation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

City/FL Zip:

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCPB v4.5.2)

Address of New Home:

EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name: SCCI- Haake Address: City, State: , Owner: Climate Zone: North		Builder: Permitting Office: Permit Number: Jurisdiction Number:	Stanley Crawford
New construction or existing	New	12, Cooling systems	*ALANWY TO THE
2. Single family or multi-family Single far	mily	a. Central Unit	Cap: 30.0 kBtu/hr
3. Number of units, if multi-family	i –		SEER: 13.00
4. Number of Bedrooms	3 —	b. N/A	
	Yes		_
[2]	4 ft²	c. N/A	*
 Glass type 1 and area: (Label reqd. by 13-104.4:5 if not defan 			_
a. U-factor: Description Area	33.57	13. Heating systems	_
(or Single or Double DEFAULT) 7a. (Dble Default) 157.0 b. SHGC:	ft²	a. Electric Heat Pump	Cap: 30.0 kBtu/hr HSPF: 8.00
(or Clear or Tint DEFAULT) 7b. (Clear) 157.0	ft²	b. N/A	ADDRESS
8. Floor types		Econol granteest	
a. Slab-On-Grade Edge Insulation R=0.0, 180.0(n) ft	c. N/A	
b. N/A	··· —		-
c. N/A	-	14. Hot water systems	_
9. Wall types	****	a. Electric Resistance	Cap: 50.0 gallons
a. Frame, Wood, Exterior R=13.0, 1200.	0 ft²		EF: 0.90
b. N/A		b. N/A	
c. N/A	_	0.1011	-
d. N/A	_	c. Conservation credits	_
e. N/A	_	(HR-Heat recovery, Solar	_
0. Ceiling types	_	DHP-Dedicated heat pump)	
a, Under Attic R=19.0, 100.0	n es	15. HVAC credits	
b. Under Attic R=30.0, 1414.0		(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A) IL	HF-Whole house fan,	
	_	PT-Programmable Thermostat,	
1. Ducts		MZ-C-Multizone cooling,	
a. Sup: Unc. Ret: Unc. AH: Interior Sup. R=6.0, 122. b. N/A	UIL	MZ-H-Multizone beating)	
U. NYA	_	wz-n-wuttzone neating)	
[=1989/FIONT Area: 1] 11	100 mg 1 m	pints: 19496 PASS	3
hereby certify that the plans and specifications covered	by	Review of the plans and	

this calculation are in compliance with the Florida Energy PREPARED BY: Junco AST /ASUlatos DATE: //- 4-08 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT:

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:

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCSB v4.5)

EnergyGauge® 4.5

Code Compliance Checklist Residential Whole Building Performance Method A - Details

	A second that the second secon
ADDRESS: , , ,	PERMIT#:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	608.1.ABC.1.1	Maximum: 3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	806.1.ABC.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 berrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.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	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of 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	606.1.ABC.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 rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
dditional infiltration reqts 606.1.ABC.1.3 Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFF have combustion air.			

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	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%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. Insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

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WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

Chartes to the Control of the Contro	CONTRACTOR DE LA CONTRA	
ADDRESS: , , ,		PERMIT #:
The second control of		

BASE					AS-BUILT									
WATER HEA Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	х	Tank X Ratio	Multiplier		Credit Multiplier		
3	, i 4	2635.00	20	7905.0	50.0	0.90	3		1.00	2693.56		1.00	808	
					As-Built To	otal:							808	

,	CODE COMPLIANCE STATUS												71			
*	BASE							AS-BUILT								
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points			
5559	****	7458		7905		20922	4807		6609		8081	NI W	19496			

PASS



EnergyGauge® 4.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

systemsom V-111	 Company of the Company of the Compan	OUDVINGENTY
ADDRESS: ,,,	PERMIT#:	

	BASE		AS-BUILT								
Winter Base	Points:	13461.8	Winter As-Bui	13340.6							
Total Winter X Points	System = Multiplier	Heating Points		ap X Duct X System X Credit atio Multiplier Multiplier Multiplie (DM x DSM x AHU)							
13461.8	0.5540	7457.9	13340.6 1.	ump 30000 btuh ,EFF(8.0) Ducts:Unc(8),Unc(R),In 000 (1.089 x 1.169 x 0.93) 0.426 1.000 00 1.162 0.426 1.000	6608.7						

EnergyGauge® 4.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

PERMIT #: ADDRESS: , , ,

	BAS	Ξ				AS-	-BUI	LT				
GLASS TYPES .18 X Condition Floor An		BWPM ≃	Points	Type/SC	Ov Ornt	erhang : Len		Area X	W	РМ Х	WOF	= Pointe
.18 1414.	0	20.17	5134.0	1.Double, Clear	w	2.0	5.0	75.0		.73	1.06	1646.0
N. State Company				2.Double, Clear	E	2.0	5.0	56.0	18	.79	1.08	1140.0
				3.Double, Clear	N		5.0	20.0		.58	1.01	494.0
				4.Double, Clear	Ş	2.0	6.0	6.0	13	.30	1.40	111.0
				As-Built Total:				157.0				3391.0
WALL TYPES	Area)	K BWPM	= Points	Туре		R	-Value	Area	X	WPN	1 =	Points
Adjacent Exterior	0.0 1200.0	0.00 3.70	0.0 4440.0	1. Frame, Wood, Exterior		*	13.0	1200.0		3.40	•	4080.0
Base Total:	1200.0		4440.0	As-Built Total:			15	1200.0				4080.0
DOOR TYPES	Area)	K BWPM	= Points	Туре				Area	X	WPM	=	Points
Adjacent Exterior	0.0 18.0	0.00 12.30	0.0 221.4	1.Exterior Insulated				18.0		8.40		151.2
Base Total:	18,0		221,4	As-Built Total:		- 7771104		18.0				151.2
CEILING TYPES	Area)	BWPM	≈ Points	Туре	F	R-Value	Ar	ea X W	/PM	x wc	:M =	Points
Under Attic	1414.0	2.05	2898.7	1. Under Attic			19.0	100.0	2.70	X 1.00		270.0
				2. Under Attic			30.0		2.05	X 1.00		2898.7
Base Total:	1414.0		2898.7	As-Bullt Total:				1514.0		***************************************		3168.7
FLOOR TYPES	Area >	BWPM	= Points	Туре	V	R-	Value	Area	X	WPM	=	Points
Siab 1	80.0(p)	8.9	1602.0	1. Slab-On-Grade Edge Insu	lation		0.0	180.0(p		18.80		3384.0
Raised	0.0	0.00	0.0	3.								
Base Total:			1602.0	As-Built Total:	-770		who was	180.0	199			3384.0
INFILTRATION	Area X	BWPM	= Points	1 1/12 200 1 2 1 1				Area	х	WPN	=	Points
ACCEPTATE OF THE PARTY OF THE P	1414.0	-0.59	-834.3					1414.	0	-0.59		-834.3

EnergyGauge® 4.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

"	The state of the s	
ADDRESS: ,,,		PERMIT #:
THE RESERVE OF THE PERSON OF T	The state of the s	The state of the s

BASE			AS-	BU	ILT				Mary States
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area			rhang Len	Hgt	Area >	K W	/PM	x wo	F = Point
.18 1414.0 20.17 5134.0	1.Double, Clear	W	2.0	5.0	75.0	20	0.73	1.06	1848.0
\$200 March 1994	2.Double, Clear	E	2.0	5.0	58.0	18	9.79	1.08	1140.0
	3.Double, Clear	N	2.0	5.0	20.0	24	1.58	1.01	494.0
	4.Double, Clear	S	2.0	5.0	6.0	13	3.30	1.40	111.0
	As-Built Total:				157.0				3391.0
WALL TYPES Area X BWPM = Points	Туре		R-V	/alue	Are	а Х	WF	M =	Points
Adjacent 0.0 0.00 0.0 Exterior 1200.0 3.70 4440.0	1. Frame, Wood, Exterior		1	13.0	1200.0		3.4	0	4080.0
Base Total: 1200.0 4440.0	As-Built Total:				1200.0				4080.0
DOOR TYPES Area X BWPM = Points	Туре				Area	X	WP	M =	Points
Adjacent 0.0 0.00 0.0 Exterior 18.0 12.30 221.4	1.Exterior Insulated				18.0		8.4	0	151.2
Base Total: 18.0 221.4	As-Built Total:		4		18.0				161.2
CEILING TYPES Area X BWPM = Points	Туре	R-	Value	An	ea X V	VPN	XW	CM =	Points
Under Attic 1414.0 2.05 2898.7	1. Under Attic		1	9.0	100.0	2.70	X 1.00)	270.0
IR.	2. Under Attic		3	0.0	1414.0	2.05	X 1.00)	2898.7
Base Total: 1414.0 2898.7	As-Built Total:				1514.0	-			3168.7
FLOOR TYPES Area X BWPM = Points	Туре		R-V	'alue	Area	X	WP	M =	Points
Slab 180.0(p) 8.9 1602.0	1. Slab-On-Grade Edge Insulatio	n		0.0	180.0(p		18.80)	3384.0
Raised 0.0 0.00 0.0	±			100 A 100 A			. A. B. M. B.		
Base Total: 1502.0	As-Built Total:				180.0				3384.0
INFILTRATION Area X BWPM = Points					Area	Х	WP	M =	Points
1414,0 -0.59 -834,3					1414.	0	-0.5	9	-834.3

EnergyGauge® 4.5

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT#:

,	BASE		AS-BUILT								
Summer Ba	se Points:	17105.0	Summer As-Built Points:	16250.0							
Total Summer Points	X System Multiplier	= Cooling Points	Total X Cap X Duct X System X Credit Component Ratio Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	= Cooling Points							
17105.0	0.3250	5559.1	(eye 1: Central Unit 30000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),int(AH),R8.0(IA 16250 1.00 (1.09 x 1.147 x 0.91) 0.260 1.000 16250.0 1.00 1.138 0.260 1.000	4806.8 4806.8							

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SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: ,,, PERMIT #:

	BASE	•				AS-	BU	ILT					1976
GLASS TYPES .18 X Condition Floor Ar	ned X B	SPM =	Points	Type/SC		erhang Len		Area 2	(SI	PM 2	x s	ÖF	= Points
.18 1414	.0	18.69	4732.0	1.Double, Clear	W	2.0	5.0	75.0	38	3.52	0	80	2309.0
				2.Double, Clear	E	2.0	5.0	56.0		2.06	-0.35	80	1877.0
				3.Double, Clear	N	2.0	5.0	20.0		.20	0.	87	334.0
1				4.Double, Clear	S	2.0	5.0	8.0	35	.87	O.	72	155.0
				As-Built Total:				157.0					4875.0
WALL TYPES	Area >	BSPM	l = Points	Туре		R-	Valu	e Are	a X	SF	M	=	Points
Adjacent Exterior	0.0 1200.0	0.00 1.70	0.0 2040.0	1. Frame, Wood, Exterior		,	13.0	1200.0		1.5	10		1800.0
Base Total:	1200.0		2040.0	As-Built Total:			Mark-	1200.0					1600.0
DOOR TYPES	Area X	BSPM	= Points	Туре	17.7.200			Are	a X	SF	M	=	Points
Adjacent Exterior	0.0 18.0	0.00 6.10	0.0 109.8	1.Exterior Insulated				18.0		4.1	0		73.8
Base Total:	18.0		109.8	As-Built Total:				18.0					73.8
CEILING TYPES	Area X	BSPM	≈ Points	Туре	ı	R-Value	a /	Area X	SPN	1XS	СМ	=	Points
Under Attic	1414.0	1.73	2446.2	1. Under Attic		1	9.0	100.0	2.34	X 1.00)	the own	234.0
120 MANUAL WA				2. Under Attic		3	0.0			X 1.00			2446.2
Base Total:	1414.0	*************	2446.2	As-Built Total:				1514.0		~			2680.2
FLOOR TYPES	Area X	BSPM	= Points	Туре		R-V	'alue	Area	X	SP	M	*	Points
Slab 18 Ralsed	30.0(p) 0.0	-37.0 0.00	-8660.0 0.0	1. Slab-On-Grade Edge Insula	ation		0.0	180.0(p		41.20)		-7416.0
Base Total:	THE RESIDENCE OF THE PARTY OF T		-8680.0	As-Built Total:			Inteller	180.0					-7416.0
INFILTRATION	Area X	BSPM	= Points				50.00	Area	X	SPI	Ví :	=	Points
	1414.0	10.21	14436.9					1414.)	10.2	1		14436.9

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.0

The higher the score, the more efficient the home.

1.	New construction or existing	New		12.	Cooling systems		
2.	Single family or multi-family	Single family			Central Unit	Cap: 30.0 kBtu/hr	
3.	Number of units, if multi-family	i				SEER: 13.00	
4.	Number of Bedrooms	3	- 100	b.	N/A	DDDIG 15.00	_
5.	Is this a worst case?	Yes					_
6.	Conditioned floor area (ft²)	1414 R 2		c.	N/A		-
7.	Glass type 1 and area: (Label reqd.	by 13-104,4,5 if not default)	_				-
a.	U-factor:	Description Area		13.	Heating systems		-
	(or Single or Double DEFAULT)	7a. (Dhle Default) 157.0 ft2			Electric Heat Pump	Cap: 30.0 kBtu/hr	
b.	SHGC:	(2010 20 diam) to 110 at	_	_		HSPF: 8.00	****
	(or Clear or Tint DEFAULT)	7b. (Clear) 157.0 ft ²		b.	N/A	11511.0.00	-
8.	Floor types	(23000) 12710 11	_				_
8.	Slab-On-Grade Edge Insulation	R=0.0, 180.0(p) ft		c.	N/A		
20	N/A		-				-
C,	N/A		-	14	Hot water systems		-
9.	Wall types	3 6	_		Electric Resistance	Cap: 50.0 gailons	
a.	Frame, Wood, Exterior	R=13.0, 1200.0 ft ²		***	Diodro Resistanço	EF: 0.90	
	N/A		_	b.	N/A	Dr. 0.90	_
C.	N/A		-		*****		_
d.	N/A		_	c.	Conservation credits		
e. 1	N/A		-		(HR-Heat recovery, Solar		-
10.	Ceiling types		_		DHP-Dedicated heat pump)		
	Under Attic	R=19.0, 100.0 ft2		15.	HVAC credits		
b. 1	Under Attic	R=30.0, 1414.0 ft ²	-		(CF-Ceiling fan, CV-Cross ventilation,	*	_
c. 1	N/A				HF-Whole house fan.		
11. I	Ducts		_		PT-Programmable Thermostat,		
a. S	Sup: Unc. Ret: Unc. AH; Interior	Sup. R=6.0, 122.0 ft			MZ-C-Multizone cooling,		
	N/A		Annua.		MZ-H-Multizone heating)		
		Le	_		in i		
I cert	ify that this home has complie	d with the Florida Energy	Effic	iency	Code For Building	A THE STA	
in this	truction through the above end	rgy saving reatures which	will	be inst	alled (or exceeded)	S S S S S S S S S S S S S S S S S S S	d
III IIII	s home before final inspection	. Otherwise, a new EPL D	ispia	y Card	will be completed		BE
	on installed Code compliant				· ·		31
Build	er Signature;		Date	:		3	
						1. C	
Addre	ess of New Home:		City/	FL Zip):	WE TRUE	9
*NOT	E: The home's estimated area	on neviormona saas 4 -	h	nsail al	la thursul the ET 1/222		
This is	not a Building Frame Date	gy perjormance score is o	nty a	vallab	le through the FLA/RES computer	program.	
1110 to	toma man qualife for	s. If your score is an or gr	eate	(01'8	6 for a US EPA/DOE EnergyStar ^{TI}	designation),	
Cont	ome may qualify for energy e	(Jiciency mortgage (EEM)	ınce	ntives	if you obtain a Florida Energy Ga	uge Rating.	
Conta	ci ine Energy Gauge Hotline	at 321/638-1492 or see the	e Ene	ergy G	auge web site at www.fsec.ucf.edu	for	
inform	tation and a list of certified R	aters. For information abo	out F	lorida	's Energy Efficiency Code For Buil	ding	

Construction, contact the Department of Community Affairs at 850/487-1824.

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

EnergyGauge® (Version: FLRCSB v4.5)