And Walter Approved by Zoning Official CAIX Date	D 60 0/ Plane W
Application Approved by - Zoning Official CAK Date	
Flood Zone * propried Development Permit MA Zoning	Land Use Plan Map Category (Es. L. Os.
Comments	
splicants Name G-lenn L. Keen (K	e H Framing) Phone (386) 758-9175
ddross 1534 SW DEKIE Rd LAKE	City FL 32024
tweets Name Gen Keen John W.	heen Phone (386) 961-8223
	+ LAKECITY, FL 32024
Contractors Name JASON Elycon	(20) (10)
Address 1534 SW DEKIE Rd. LAKE City	FL 32024 Phone (356) 867-0156
· · · · · · · · · · · · · · · · · · ·	FC 32029 500 600 - 7197
'ee Simple Owner Name & Address	
Jonding Co. Name & Address	AND POBLETON
Architect/Engineer Name & Address Tim Dehelene M	ATK DISOSWAY 1.0. DOX 66 F L.C. FLYRE
Wortgage Lenders Name & Address First Federal	Al SAJuss Bank 4105 US Huy 90
Circle the correct power company - FL Power & Light) - Ck	ay Elec Suwannee Valley Elec Progressive End
Property ID Number 02438 - 189 (33-35-16)	Estimated Cost of Construction 98. 600.00
Subdivision Name EMEGAID COVE	Lot 89 Block Unit Phase
Driving Directions GO 90 WEST TOWA	eds Live DAK GO 1/2 mile
past Turner Pd. FED light, Turn !	eft in sub-division, go to timber
Court Turn right go to End 4th 10t	from culti-inc Lot pg
Type of Construction Residential - Sto	Number of Existing Dwellings on Property O
Total Acreage 1/2 Lot Size Do you need a CL	livert Permit or Culvert Walver or Have an Evieting I
Actual Distance of Structure from Property Lines - Front 3	Side 15' Side 15' Page 120'
	Heated Hoor Area 1934 Roof Pitch 6/12
	701 AL 2877
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 all laws regulating construction in this jurisdiction.	and that all work be performed to meet the standards
DWNERS AFFIDAVIT: I hereby certify that all the foregoing in	formation is accurate and all work will be done in
compliance with all applicable laws and regulating constructi	on and zoning.
WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE	E OF COMMENCMENT MAY RESULT IN YOU PAYING
TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU II LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE	E OF COMMENCEMENT.
Dwner Builder or Agent (Including Contractor)	
Dwner Builder of Agent (including Contractor)	Contractor Signature Contractors License Number CBC 1250 0331
STATE OF FLORIDA COUNTY OF COLUMBIA	Competency Card Number_ NOTARY STAMP/SEAL
Sworn to (or affirmed) and subscribed before me	NOTART STAMP/SEAL
this day of Oct 20 06.	
Personally known or Produced Identification	Notary Signature
resonant known or rivoused identification	BARRY COLEMAN BARRY COMMISSION # DD 597907
	* EXPIRES: September 24, 2010

JW Colled GoleNN 10.13.06 LLEFT MELL Bonded Thru Budget No

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787 Telephone: (386) 758-1125 * FAX (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Emerald Cove Phase 2 Address Assignments:

243 SW Woodleaf Ct

ADDRESS

#

263 SW Woodleaf Ct

285 SW Woodleaf Ct

303 SW Woodleaf Ct

323 SW Woodleaf Ct

361 SW Woodleaf Ct

369 SW Woodleaf Ct 368 SW Woodleaf Ct

345 SW Woodleaf Ct

360 SW Woodleaf Ct 336 SW Woodleaf Ct 306 SW Woodleaf Ct 282 SW Woodleaf Ct 254 SW Woodleaf Ct 222 SW Woodleaf Ct

302 SW Timberland Ct 280 SW Timberland Ct 262 SW Timberland Ct 242 SW Timberland Ct	243 L0124 263 L0125 303 L0127 303 L0128 345 L0129 361 361
90 92 92	0138 0138 0135 0135 006 008 82 82 82 82 82 836
LOT#: ADDRESS: 85 386 SW Timberland Ct 86 366 SW Timberland Ct 87 346 SW Timberland Ct 88 322 SW Timberland Ct	51
LOT#: ADDRESS: 81 367 SW Timberland Ct 82 387 SW Timberland Ct 83 395 SW Timberland Ct 84 394 SW Timberland Ct	10194262 10191262 10188 302 302 305 10188 346 346 367 10185 10183 10183

325 SW Timberland Ct 347 SW Timberland Ct

267 SW Timberland Ct 285 SW Timberland Ct 305 SW Timberland Ct

251 SW Timberland Ct

264 SW Fieldstone Ct 238 SW Fieldstone Ct 220 SW Fieldstone Ct

376 SW Fieldstone Ct 364 SW Fieldstone Ct 344 SW Fieldstone Ct 328 SW Fieldstone Ct 310 SW Fieldstone Ct 290 SW Fieldstone Ct

239 SW Fieldstone Ct 265 SW Fieldstone Ct 301 SW Fieldstone Ct 331 SW Fieldstone Ct 359 SW Fieldstone Ct 377 SW Fieldstone Ct 385 SW Fieldstone Ct

221 SW Fieldstone Ct

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787 Telephone: (386) 758-1125 * FAX (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

To: Mr. John Kerce, Building and Zoning Coordinator

Fr: Ronal Croft, 9-1-1 Addressing

Dt: April 20, 2006

Re: 9-1-1 Addressing of "Emerald Cove, Phase 2" Subdivision.

Please find attached 9-1-1 Addressing data for Emerald Cove, Phase 2, Subdivision in Section 33, Township 4 South, Range 16 East.

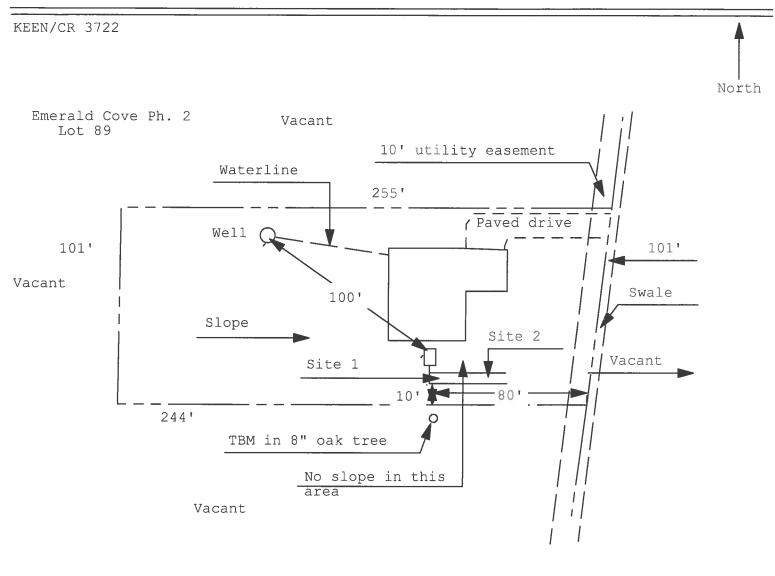
NOTE: Contact the 9-1-1 Address Department if two or more lots are to be combined for one residential location, as this will affect the address number.

Please contact us at Telephone Number 758-1125 if there are any questions concerning the addressing of this subdivision.

XC: Environmental Health Department Lake City Post Office George Johnson, Bell South Larry Cook, Property Appraiser's Office File

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan Permit Application Number:

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



		1 inch = 50 feet
Site I	Plan Submitted By Our Approved Da	Date /0/4/06
Ву	Salle Hada []	(0°11-()(r
Notes	:	Columbia CHD

PREPARED BY AND RETURN TO:

1. . .

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Property Appraiser's Identification Number R02438-000

TM File No: 06-471

WARRANTY DEED

This Warranty Deed, made this 25th day of September, 2006, BETWEEN D D P CORPORATION, a Florida corporation, whose post office address is 4158 US Highway 90 West, Lake City, Florida 32055, of the County of Columbia, State of Florida, grantor*, and JOHN W. KEEN, whose post office address is 4062 SW Old Wire Road, Ft. White, Florida 32038, grantee*.

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

Witnesseth: that said grantor, for and in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lot 89, Emerald Cove, Phase 2, a subdivision according to the plat thereof recorded in Plat Book 8, Pages 68-69, public records, Columbia County, Florida.

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

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

And subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein

In Witness Whereof, grantor has hereunto set grantor's hand
and seal the day and year first above written.

Signed, sealed and delivered in our presence:

D D P CORPORATION

BY:

(SEAL)

O. P. Daughtry, III, President

(Corporate Seal)

(Signature of First Witness)

(Typed Name of First Witness)

(Signature of Second Witness)

(Typed Name of Second Witness)

STATE OF FLORIDA COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this day of September, 2006, by O. P. Daughtry, III, President of D D P Corporation, a Florida corporation, on behalf of said corporation, who is/are personally known to me or who has/have produced _____ as identification and who did not take an oath.

My Commission Expires:

Notary Public

Printed, typed, or stamped name:



PREPARED BY AND RETURN TO:

TERRY McDAVID POST OFFICE BOX 1328 LAKE CITY, FL 32056-1328

File No. 06-471

is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS
By Shawn Leagle
Deputy Clerk
Date 09-19-2006

STATE OF FLORENCE COUNTY OF COLUMBIA I HEREBY CERTIFY, that the above and foregoing



TAX FOLIO NO.:02438-000

PERMIT NO._____

NOTICE OF COMMENCEMENT

STATE OF FLORIDA COUNTY OF COLUMBIA

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

- Description of property:
 - Lot 89, Emerald Cove, Phase 2, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 68-69, public records, Columbia County, Florida.
- 2. General description of improvement: Construction of single family dwelling
- 3. Owner information:
 - a. Name and address: John W. Keen, 4062 SW Old Wire Road Ft. White, FL 32038
 - b. Interest in property: Fee Simple
- c. Name and address of fee simple title holder (if other than Owner):
 - 4. Contractor: K&H Framing/Vinyl Siding, Inc., 1534 SW Dekle Road, Lake City, Florida 32024.
 - 5. Surety

Inst:2006022345 Date:09/19/2006 Time:12:42

- a. Name and address: None Oc.P. Dewitt Cason, Columbia County B: 1096 P:
- b. Amount of bond:
- 6. Lender: FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 West U: Highway 90, Lake City, Florida 32055.
- 7. Persons within the State of Florida designated by Owner upon who notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: None
- 8. In addition to himself, Owner designates PAULA HACKER of FIRS FEDERAL SAVINGS BANK OF FLORIDA, 4705 West US Highway 90, Lake City, Florid 32055, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
- 9. Expiration date of notice of commencement (the expiration date i 1 year from the date of recording unless a different date is specified). Ma

STATE OF FLORIDA COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 15th day of September, 2006, by John W. Keen. He is personally known to me and did not

take an oath.

KAREN M. WRIGHT MY COMMISSION & DD 499137 EXPIRES: January 23, 2010
Bonded Thru Hotary Public Underwriters

Notary Public

My commission expires:

Gaylord Pump & Irrigation Inc.

P.O. Box 548 Branford, Fl. 32008 386-935-0932 Fax 386-935-0778

10.03.06

K&H Framing/John Keen

We will be drilling a well for John Keen. The property ID number is 33-3S-16-20438-189. The following equipment will be used.

4" Steel Casing

1 Hp Submersible pump

1-1/4" Galvanize drop pipe

31 Gallon diaphragm tank with 24.9 gallons of draw down

This equipment meets or exceeds the Florida building code, plumbing section 612 table 612.1

Sincerely.

Donald Garlord Tourstone

Licensea "vell Drille-Florida License 263.) Project Name:

, FL

Address:

City, State:

Builder: Sason Elixson Permitting Office: Cocumbia

Permit Number: 25/18

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

608211K&HFramingVinylSiding

Lot: 89, Sub: Emerald Cove, Plat:

Owner: Spec House Climate Zone: North	Jurisdiction Number: 7000
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 type I and area: (Label reqd. by 13-104.4.5 if not default) a. U-factor:	12. Cooling systems a. Central Unit Cap: 39.0 kBtu/hr SEER: 10.00 b. N/A c. N/A 13. Heating systems a. Electric Heat Pump Cap: 39.0 kBtu/hr HSPF: 7.00 b. N/A c. N/A 14. Hot water systems a. Electric Resistance Cap: 40.0 gallons EF: 0.93 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: 0.13 Total as-built pe	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE:	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: Lot: 89, Sub: Emerald Cove, Plat:,, FL, PERMIT #:

BASE				AS-	BU	ILT				
GLASS TYPES .18 X Conditioned X BSPM Floor Area	= Points	Type/SC		erhang Len		Area X	SP	мх	SOF	= Points
.18 1934.0 20.04	6976.3	Double, Clear	S	1.5	5.5	45.0	35.8	87	0.83	1343.1
2333		Double, Clear	S	12.0	5.5	30.0	35.8		0.45	480.3
		Double, Clear	SE	12.0	5.5	10.0	42.		0.40	170.1
		Double, Clear	S	7.5	6.0	36.0	35.8		0.49	632.1
		Double, Clear	s	1.5	5.5	30.0	35.8		0.83	895.4
		Double, Clear	w	1.5	3.5	12.0	38.		0.78	359.9
		Double, Clear	N	4.5	6.0	36.0	19.2		0.76	523.0
		Double, Clear	N	4.5	7.5	13.3	19.2		0.80	203.6
		Double, Clear	N	1.5	0.0	30.0	19.		0.59	341.6
		Double, Clear	E	1.5	4.5	12.0	42.0		0.85	428.1
		Bouble, Oleal	_	1.5	4.5	12.0	42.0	,,,	0.00	420.1
		As-Built Total:				254.3				5377.3
WALL TYPES Area X BSP	M = Points	Туре		R-\	/alue	Area	Х	SPM	=	Points
Adjacent 204.0 0.70	142.8	Frame, Wood, Exterior			13.0	1190.7		1.50		1786.0
Exterior 1190.7 1.70		Frame, Wood, Adjacent			13.0	204.0		0.60		122.4
Base Total: 1394.7	2167.0	As-Built Total:				1394.7				1908.4
DOOR TYPES Area X BSPI	M = Points	Type				Area	X	SPM	=	Points
Adjacent 20.0 1.60	32.0	Exterior Insulated				40.0		4.10		164.0
Exterior 50.0 4.10	205.0	Adjacent Insulated				20.0		1.60		32.0
		Exterior Insulated				10.0		4.10		41.0
Base Total: 70.0	237.0	As-Built Total:				70.0				237.0
CEILING TYPES Area X BSPI	M = Points	Туре	F	R-Valu	e A	rea X S	SPM	X SC	M =	Points
Under Attic 1934.0 1.73	3345.8	Under Attic		;	30.0	1994.0	1.73)	(1.00		3449.6
Base Total: 1934.0	3345.8	As-Built Total:				1994.0				3449.6
FLOOR TYPES Area X BSPI	M = Points	Туре		R-V	/alue	Area	X	SPM	=	Points
Slab 214.0(p) -37.0 Raised 0.0 0.00		Slab-On-Grade Edge Insulation	ı		0.0	214.0(p	-	41.20		-8816.8
Base Total:	-7918.0	As-Built Total:				214.0				-8816.8
INFILTRATION Area X BSPN	/ = Points					Area	Х	SPM	=	Points
1934.0 10.2	1 19746.1					1934.0)	10.21		19746.1

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 89, Sub: Emerald Cove, Plat: , , FL, PERMIT #:

	BASE		AS-BUILT
Summer Ba	se Points:	24554.3	Summer As-Built Points: 21901.7
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)
24554.3	0.4266	10474.9	(sys 1: Central Unit 39000 btuh ,SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 21902

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 89, Sub: Emerald Cove, Plat: , , FL, PERMIT #:

	BASE					AS-	BU	ILT	<u></u>		_	
GLASS TYPE .18 X Condit Floor	ioned X E	BWPM =	Points	Type/SC C	Ove Ornt	erhang Len		Area X	WPN	ıx	WOF	= Point
.18 193	34.0	12.74	4435.0	Double, Clear Double, Clear	s s	1.5 12.0	5.5 5.5	45.0 30.0	13.30 13.30		1.15 3.54	686.4 1413.5
				Double, Clear Double, Clear	SE S	12.0 7.5	5.5 6.0	10.0 36.0	14.71		2.52 3.09	370.4 1477.5
				Double, Clear Double, Clear Double, Clear	S W N	1.5 1.5 4.5	5.5 3.5 6.0	30.0 12.0	13.30 20.73		1.15	457.6 265.2
				Double, Clear Double, Clear Double, Clear	N N	4.5 4.5 1.5	7.5 0.0	36.0 13.3 30.0	24.58 24.58 24.58		1.01 1.01 1.03	897.8 330.7 757.5
				Double, Clear	E	1.5	4.5	12.0	18.79		1.06	239.2
				As-Built Total:				254.3				6895.9
WALL TYPES	Area X	BWPM	= Points	Туре		R-\	/alue	Area	X W	PΜ	=	Points
Adjacent Exterior	204.0 1190.7	3.60 3.70	734.4 4405.6	Frame, Wood, Exterior Frame, Wood, Adjacent			13.0 13.0	1190.7 204.0		.40 .30		4048.4 673.2
Base Total:	1394.7		5140.0	As-Built Total:				1394.7				4721.6
DOOR TYPES	Area X	BWPM	= Points	Туре				Area	x w	PM	=	Points
Adjacent Exterior	20.0 50.0	8.00 8.40	160.0 420.0	Exterior Insulated Adjacent Insulated Exterior Insulated	·			40.0 20.0 10.0	8	.40 .00 .40		336.0 160.0 84.0
Base Total:	70.0	_	580.0	As-Built Total:				70.0				580.0
CEILING TYPE	E S Area X	BWPM	= Points	Туре	R-	Value	Are	ea X Wi	PM X N	NCI	VI =	Points
Under Attic	1934.0	2.05	3964.7	Under Attic			30.0	1994.0	2. 05 X 1	.00		4087.7
Base Total:	1934.0	· -	3964.7	As-Built Total:				1994.0				4087.7
FLOOR TYPES	S Area X	BWPM	= Points	Туре		R-V	/alue	Area	x w	PM	=	Points
Slab Raised	214.0(p) 0.0	8.9 0.00	1904.6 0.0	Slab-On-Grade Edge Insulation			0.0	214.0(p	18	.80		4023.2
Base Total:			1904.6	As-Built Total:				214.0				4023.2
INFILTRATION	I Area X	BWPM	= Points				_	Area 2	x w	PM	=	Points
	1934.0	-0.59	-1141.1		_			1934.0	-().59		-1141.1

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 89, Sub: Emerald Cove, Plat: , , FL, PERMIT #:

	BASE		AS-BUILT								
Winter Base	Points:	14883.3	Winter As-Built Points: 191								
Total Winter X Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit = Heati Component Ratio Multiplier Multiplier Multiplier Poin (System - Points) (DM x DSM x AHU)								
14883.3	0.6274	9337.8	(sys 1: Electric Heat Pump 39000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0 19167.3								

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 89, Sub: Emerald Cove, Plat: , , FL, PERMIT #:

BASE								AS	-BUIL	.T		
WATER HEA Number of Bedrooms	TING	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms		Tank X Ratio	Multiplier X	Credit Multiplie	
3		2635.00		7905.0	40.0	0.93	3		1.00	2606.67	1.00	7820.0
					As-Built To	tal:						7820.0

	CODE COMPLIANCE STATUS													
	BASE								-	4S -	BUILT			
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	
10475		9338		7905		27718	8504		10852		7820		27176	

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 89, Sub: Emerald Cove, Plat: , , FL, PERMIT #:

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.	
1		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.	<u> </u>
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 circuit	
		breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	1
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.	ł
		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* = 83.4

The higher the score, the more efficient the home.

Spec House, Lot: 89, Sub: Emerald Cove, Plat: . . FL.

		•			, , , , , , , , , , , , , , , , , , , ,	
1.	New construction or existing	New	,	12.	Cooling systems	
2.	Single family or multi-family	Single family			. Central Unit	Cap: 39.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 10.00
4.	Number of Bedrooms	3	11-10-	b	. N/A	22210 10100
5.	Is this a worst case?	Yes				
6.	Conditioned floor area (ft²)	1934 ft²		C.	. N/A	
7.	Glass type I and area: (Label reqd.	by 13-104.4.5 if not default)				
a.	U-factor:	Description Area		13.	Heating systems	7.
	(or Single or Double DEFAULT)	7a. (Dble Default) 254.3 ft ²			Electric Heat Pump	Cap: 39.0 kBtu/hr
b.	SHGC:	(= === ================================				HSPF: 7.00
	(or Clear or Tint DEFAULT)	7b. (Clear) 254.3 ft ²		Ь	. N/A	11011.7.00
8.	Floor types	(01011) 25 115 11	-			52
a.	Slab-On-Grade Edge Insulation	R=0.0, 214.0(p) ft		c.	N/A	72
b.	N/A	7				12
c.	N/A		10.00	14.	Hot water systems	-
9.	Wall types				Electric Resistance	Cap: 40.0 gallons
a.	Frame, Wood, Exterior	R=13.0, 1190.7 ft ²			2.00mm resistant	EF: 0.93
	Frame, Wood, Adjacent	R=13.0, 204.0 ft ²		h	N/A	Er. 0.93
	N/A		-	٠.		The second secon
đ.	N/A			c	Conservation credits	8
e.	N/A		-	٠.	(HR-Heat recovery, Solar	
10.	Ceiling types		-		DHP-Dedicated heat pump)	
	Under Attic	R=30.0, 1994.0 ft ²		15	HVAC credits	
	N/A	11.0010, 1331.010	-	15.	(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, 180.0 ft			MZ-C-Multizone cooling,	
	N/A	5up. 1c 0.0, 100.0 ft	-		MZ-H-Multizone heating)	
					wiz-11-wuttizone neating)	
I cer	tify that this home has compli	ed with the Florida Energ	v Effici	ienc	y Code For Building	
Con	struction through the above en	ergy saving features which	h will b	ne ir	stalled (or exceeded)	OF THE STATE
in th	is home before final inspection	n Otherwise a new FPI	Dienlay	C_{0}	rd will be completed	
hase	d on installed Code compliant	features	rispidy	Cd	ra will be completed	12/12/12
			ъ.			
DUIII	der Signature:		Date: _		<u> </u>	18 P
Addı	ress of New Home:	*	City/FI	L Zi	p:	TO THUS
					able through the FLADES	O WE I

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

Columbia County Building Department Culvert Permit

Culvert Permit No. 000001239

DATE 10/	16/2006	PARCEL ID #	33-3S-16-02438-189				
APPLICANT	GLENN KEEN		PHONE	758-9175			
ADDRESS	1534 SW DEKI	E ROAD	LAKE CITY	FL	32024		
OWNER G	LENN KEEN/JOHI	N KEEN	PHONE	961-8223			
ADDRESS _3	302 SW TIMBE	RLAND COURT	LAKE CITY	FL	32024		
CONTRACTO	R JASON ELXI	SON	PHONE	867-0156			
LOCATION O	F PROPERTY	90W, TL ON HEATHRIDG	GE DR, TR ON TIMBERLAN	D, 9TH LOT ON RI	GHT		
SUBDIVISION	J/LOT/BLOCK/		LD COVE	89	_ <u> </u>		
SIGNATURE	L	- L.K					
	INSTALLA	ΓΙΟΝ REQUIREMENT	rs				
Х	Culvert size of	will be 18 inches in diam	teter with a total lenght of the determinant terms and the determinant terms at the determinant				
	INSTALLATION NOTE: Turnouts will be required as follows: a) a majority of the current and existing driveway turnouts are paved, or; b) the driveway to be served will be paved or formed with concrete. Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.						
	Culvert installation shall conform to the approved site plan standards.						
	Department of Transportation Permit installation approved standards.						
	Other						

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

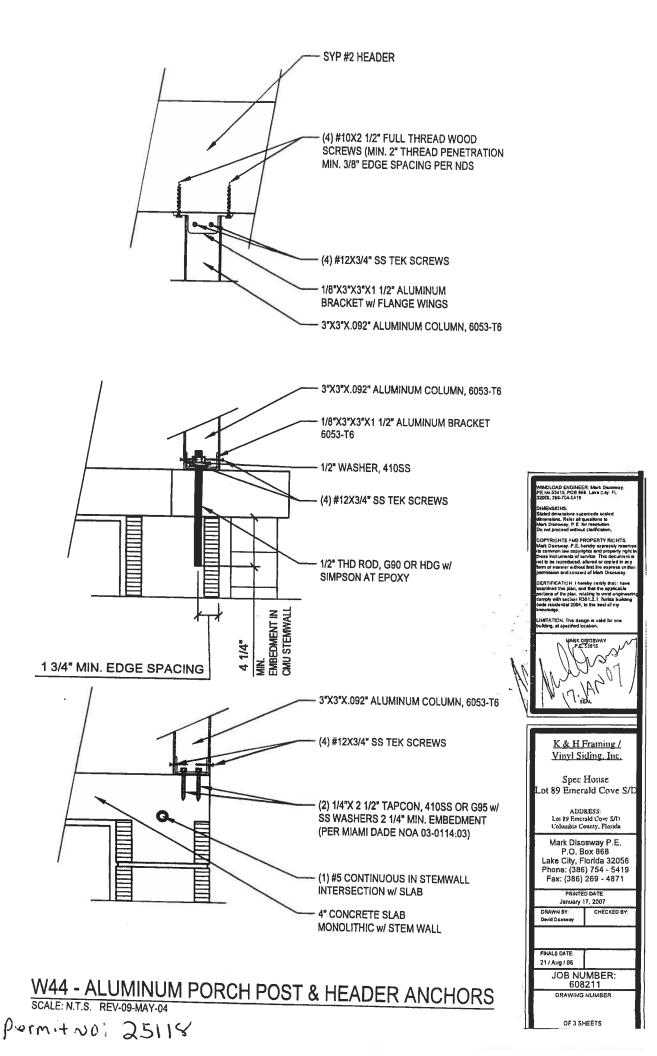
135 NE Hernando Ave., Suite B-21 Lake City, FL 32055

Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00



Notice of Treatment							
Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)							
Address: GAVA AIC Phone 202 1703							
Site Location: Subdivision Finerald (over Dermit # 25/18							
Address 3.02							
Product used	Active Ingr	edient 9	6 Concentration				
Premise	Imidaclo	prid	0.1%				
☐ <u>Termidor</u>	Fipronil		0.12%				
☐ Bora-Care	Disodium Octabor	ate Tetrahydr	ate 23.0%				
Type treatment:	☐ Soil	☐ Wood					
Area Treated Duelling	Square feet	Linear feet	Gallons Applied				
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							
11/13 100 Date	Time Frint Technician's Name						
Remarks: DOES NOT INClude FRONT ENTRY,							
Applicator - White	Permit File - Ca	anary Pe	rmit Holder - Pink				





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COLUMBIA COUNTY, FLORIDA

partment of Building and Zoning Inspection

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

Parcel Number 33-3S-16-02438-189 Building permit No. 000025118

Use Classification SFD,UTILITY

Fire: 44.64

Waste: 134.00

Total: 178.64

Location: 302 SW TIMBERLAND CRT (EMERALD COVE L-89 U-2

Owner of Building GLENN KEEN/JOHN KEEN

Permit Holder JASON ELXISON

Date: 02/19/2007

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)

From: The Columbia County Building & Zoning Department

Plan Review

135 NE Hernando Av.

P.O. Box 1529

Lake City Florida 32056-1529



Phone Number 386-758-1163 Fax Number 386-754-7088

FAX TRANSMITTAL

To: K&H Framing From: Joe Haltiwanger Name: Glenn L Keen Date Sent: 10/11/06

CC: Building permit application 0610-34

Number of Pages: Five pages including the cover page

Fax: (386) 758-9175

Message: Reference to building permit application Number: 0610-34

To the review of the party to whom it is addressed. It may contain proprietary and/or privileged information protected by law. If you are not the intended recipient, you may not use, copy or distribute this facsimile message or its attachments. If you have received this transmission in error, please immediately telephone the sender above to arrange for its return.



From: The Columbia County Building & Zoning Department

Plan Review

135 NE Hernando Av.

P.O. Box 1529

Lake City Florida 32056-1529

Reference to a building permit application Number: 0610–34

Glenn L. Keen (K&H Framing Contractors) Owners Glenn L. Keen & John W. Keen Property ID 33-3s-16-20438-189

On the date of October 11, 2006 application 0610-34 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0610-34 and when making reference to this application.

This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

1. This is to clarify the 2004 Florida Residential Building Code requirements as the code relates to residential garages. Section R309 garages and carports.

R309.1 Opening protection:

Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

R309.1.1 Duct penetration:

Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

R309.2 Separation required:

The garage shall be separated from the residence and its attic area by not less than ½-inch (12.7 mm) gypsum board applied to the garage side.

Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than ½-inch (12.7 mm) gypsum board or equivalent.

R309.3 Floor surface:

Garage floor surfaces shall be of approved noncombustible material.

The area of floor used for parking of automobiles or other vehicles shall be sloped to facilitate the movement of liquids to a drain or toward the main vehicle entry doorway.

R309.4 Carports:

Carports shall be open on at least two sides. Carport floor surfaces shall be of approved noncombustible material. Carports not open on at least two sides shall be considered a garage and shall comply with the provisions of this section for garages.

Exception: Asphalt surfaces shall be permitted at ground level in carports.

The area of floor used for parking of automobiles or other vehicles shall be sloped to facilitate the movement of liquids to a drain or toward the main vehicle entry doorway.

R309.6 Automatic garage door openers:

Automatic garage door openers, if provided, shall be listed in accordance with UL 325.

In the garage area a mechanical closet has be established to house two appliances (WH &HVAC). In accordance with the above section R309.1.1 duct penetration of the HVAC unit shall either meet the requirements of R309.1.1 or the door which provides access to the mechanical closet can be installed to meet the requirements of R309.1, which will provide the required protection of the HVAC unit.

2. The electrical plans show that the electrical panel will be located in the garage area. At the electrical service entrance point an overcurrent protection device shall be installed on the exterior of structure which will provide overcurrent protection for the total service amperage rating and a means of disconnecting electrical service from the serving utility company.

Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground.

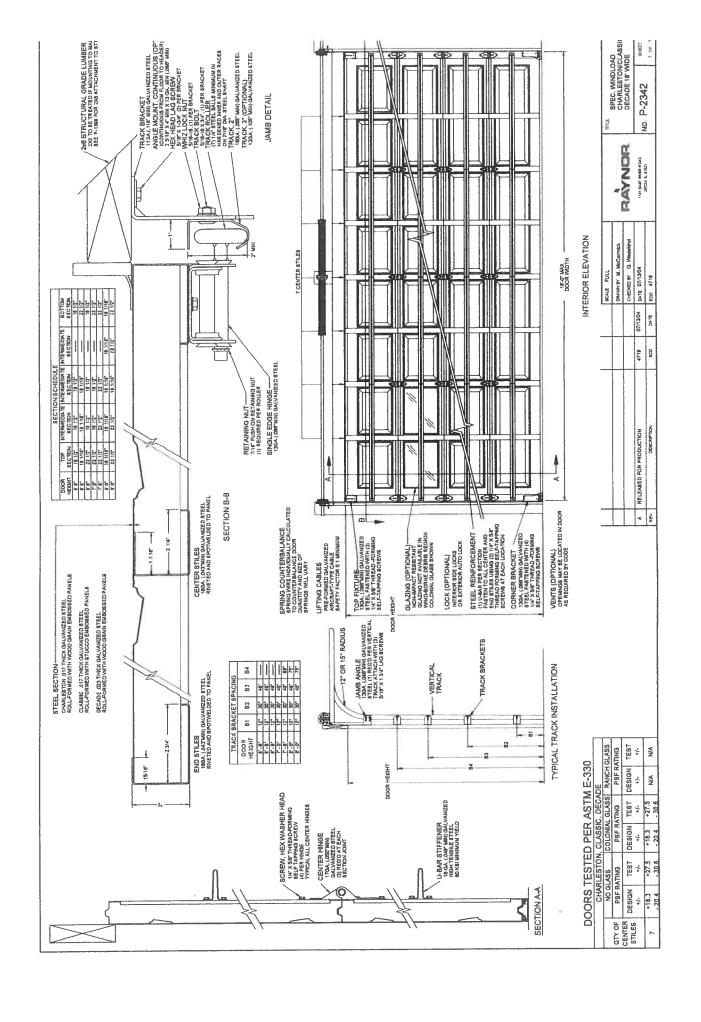
Please be advised of the above code requirements when constructing this structure. The plan as submitted are approved for construction by the Columbia County Building Department and will be forward to the Columbia County Zoning Department for review.

Thank You:

Joe Haltiwanger Plan Examiner

Columbia County Building

Department



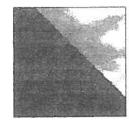




ROOFING PRODUCTS SPECIFICATIONS - TUSCALDOSA, AL



PRESTIQUE® HIGH DEFINITION®



RAISED PROFILE®

Prestique Plus High Definition and Prestique Gallery Collection'

Product size _____131/1x 391/1 Exposure _____5% Pieces/Bundle _____16 Bundles/Square .__4/98.5 sq.ft.

50-year limited warranty 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 limited wind warranty". Wind Coverage: standard 80 mph, extended 110 mph***

Raised Profile

Product size 13V°v 38V° Exposure .5% Pieces/Bundle Bundles/Square .3/100 sq.ft. Squares/Pallet 16

30-year limited warranty period: 5-7 years non-prorated coverage to shingles and application labor with proreted coverage for remainder of limited warranty period, plus an ontion for transferability". 5-year timited wind warranty*. Wind Coverage: standard 70 mph.

Vented RidgeCrest" w/FLX

Prestique | High Definition

Product size _____13%x 39% ___5% Exposure __ Pieces/Bundle _____16 Bundles/Square ___4/98.5 sq.ft. Squares/Pallet 14

40-year limited warranty 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 limited wind warranty*, Wind Coverage: standard 80 mph, extended 90 mph***

HIP AND RIDGE SHINGLES

Seal-A-Ridge* w/FLX*

100 linear feet

Size: 12"x 12" Exposure: 61/4" Pieces/Bundle: 45 Coverage: 4 Bundles =

Size: 13"x13%" Exposure: 91/4" Pieces/Box: 26 Coverage: 5 boxes =

100 linear feet

Prestique High Definition

Product size 131/2×381/2 Exposure 510 Pieces/Bundle Bundles/Square ___3/100 sq.ft, Squares/Pallet 16

30-year limited warranty 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 limited wind warranty". Wind Coverage: standard 80 mph.

Elk Starter Strip

52 Bundles/Pallet 18 Pallets/Truck 936 Bundles/Truck 19 Pieces/Bundle

1 Bundle = 120.33 linear feet

Available Colors (Check Availability), Antique Slate, Weatheredwood, Shakewood, Sablewood, Hickory, Barkwood, Forest Green, Wedgewood, Birchwood, Sandalwood Gallery Collection: Balsom Forest", Weathered Sage", Sienna Sunset

All Prestique, Reised Profile and Seaf-A-Ridge, and Prestique Starter Strip roofing products contain sealant which activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks

Check for evailability with built-in StainGuard treatment to inhibit the discoloration of confing granules caused by the growth of contain types of alone

All Prestique and Raised Profile shingles meet UL: Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles have approval from the Florida Building Code Commission, Metro-Dade County, ICBO, and Texas Department of Insurance.

"See actural Venitad warrantly for conditions and limitations.

"Elective Jensuary 1, 2001, the a even year non-provated Undercits Coverage Period applies only whose it not life Roof System is installed with the original installation of the Elk shingles, all its accordance whith Elk's application instructions for such products. A foll life red system includes Elk Hig and Ridge chimples on all higs and ridges, Elk Starter Strip along off rate and even edges, as Elk ventilation system, and Elk All-Climats Self-Adhering Underlayment in all valietys. Additionally, Elk All-Climats Self-Adhering Underlayment in all valietys. Additionally, Elk All-Climats Self-Adhering Underlayment is required along the rake and even edges of the roof in and north of the states of VA, KY, MO, KS, CD, UT, NY, & GR.
""Fee Illimated Wild Warranty up to 110 mph for Prestique Celleror, Pressique Celleror, Celleror, Pressique Celleror, Celleror, Pressique Celleror, Celler

SPECIFICATIONS

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

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

PREPARATION OF ROOF DECK! Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exteriorgrade plywood (exposure 1 rated sheathing) at least V8* (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16* (11.074mm) oriented strandboard, or chipboard, Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes

Materials: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 esphalt-saturated felt underlayment, For Low slopes[4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)], use two plies of underlayment overlapped a minimum of 19°. Fasteners shall be of sufficient length and holding power for securing meterial 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 Elk Tuscaloosa plant. Hip and ridge type to be Seal-A. Ridge with formula FLX with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All warranties are contingent 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 application techniques or methods beyond our instructions in these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 900 354 SPEC (7732). or e-mail specinfo@elkcorp.com

DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your faithrn to follow these mistructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must he followed Under no circumstances will Elk accept application requirements that are less than those printed here Shingke should not be jammed tightly together. All attics should be properly ventilated. Note it is not necessary to remove tape on book of shingle.

O DECK PREPARATION

Roof dacks should be dry, well-seasoned 1' x 6' boards or exterior grade plywood minimum 3/8' thick and conform to the specifications of the American Plywood Association or 7/16' oriented strendboard, or 7/16' chipboard.

@ UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated folt). Elk Versashield* or self adhering underlayment is also acceptable. Cover drip adoe at eaves only.

For low slope(2/12 up to 4/12), completally cover the deck with two plies of underlayment overlapping a minimum of 19°. Begin by fastening a 19° wide strip of underlayment placed along the ease. Place a full 36° wide sheet over the starter, horizontally place along the saves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS IASK A ROOFING CONTRACTOR. REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 21/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point of least 24" beyond the inside wall of the living space below or one layer of a self-adhered cave end flashing membrane.

For low alone (2/12 up to 4/12), use a continuous layer of asphalt plastic coment between the two plies of underlayment from the cave adge up not to a point at least 24" beyond the inside well of the inving space below or one layer of a self-adhered eave and flashing membrane.

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

® STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR THE HEADLAP OF A STRIP SHINGLE WITH THE ADHESIVE STRIP POSITIONED AT THE EAVE EDGE With at least 3' trimmed from the end of the first shingle, start at the rake edge overhenging the eave and rake edges 1/2' to 3/4' Fasien 7' from the lower edge and 1' from each side

O FIRST COURSE

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

@ SECOND COURSE

Offset the second course of shingles with respect to the first by approximately 6". Other offsets are approved if greater then 4"...

O THIRD COURSE

Offset the next course by δ^{\prime} with respect to the second course, or consistent with the original offset.

O FOURTH COURSE

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

Repost application as shown for second, third, and fourth courses. Do not tack shingles streight up the roof, Officers may be adjusted around valleys and penetrations.

O VALLEY CONSTRUCTION

Open, woven and closed cut veltays are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) rincommended procedures For motal valleys, use 36 vide vertical underlayment prior to applying metal flashing (secure edge with noils). No noils are to be within 6 of valley center.

@ RIDGE CONSTRUCTION

For ridge construction Elk recommends Class: A" Z*Ridge or Seal-A-Ridge* with formula FLX" or RidgeCrest" with FLX (See ridge package for installation instructions). Vented RidgeCrast or 3-thb shingles are also approved.

FASTENERS

White nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Using the fastener line as a reference, nail or staple the shingle in the double thickness common hand area. For shingles without a fastener line, sails or staples must be placed between and/or in the sealant dots.

NAILS: Corrosive resistent, 3/8' head, minimum 12-gauge roofing neils. Elk recommends 1-1/4' for new roofs and 1-1/2' for roof-overs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4' ring shank neils are allowed to be used from the eave's edge to a point up the roof that is past the ontside wall line. I' ring shank neils allowed for re-roof that the control of the roof that is past the ontside wall line. I' ring shank neils allowed for re-roof that the control of the roof that the roof

STAPLES Corrosive resistant, 16-gauge minimum, crown width minimum of 13/16. Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

Fasteners should be long enough to obtain 3/4" dack penetration or penetration through dack, whichever is less. This product meets the requirements of the IRC 2003 code when fastened with 4 nails.

MANSARD APPLICATIONS

Correct factering is critical to the performance of the roof. For slopes exceeding 60° (or 21/12) use six fasteners per shingle. Locate fasteners in the fastener erae 1° from each side adge with the remaining four fasteners equally spaced along the longth of the double thickness (faminated) area. Only fastening methods according to the above instructions are acceptable.

LIMITED WIND WARRANTY

- For a Limited Wind Warranty, all Prestique and Reised Profile¹⁰ shingles must be applied with 4 properly placed festeners in the case of mansard applications, 6 properly placed festeners per shingle
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 6 properly placed NAILS pe shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Ex Sterror Strip shingles must be applied at the eaves and rake adgas to qualify Prestique Plus, Prestique Gallary Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Efk Starter Strip overhang the eaves or rake edges more than 34 of an inch.

HELP STOP BLOW

A minimum of fou THICKNESS (tami must be placed all products without lin with snelant shi gle iligamen

AND CALLERACIC

the enter must be droven into the DOUBLE a) area of the shingle. Nails or staple: b) - and through - the fast war less or or time lines, nail at a replic between and in a. CAUTION: Do not use less and into los

bhángis Bartisa Deab

REPART Note 1
Fisher tell food to prepart
storistation sitt. and storigts
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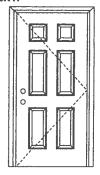
REPARK Nace 3 Dafter mother and country Soul margithese not set; reprise

Refer to local codes which in some areas may require specific application techniques beyond those filk has specified. All Prestigues and Reised Profile shingles have a UL® Wind Resistance Rating when applied in accordance with these instructions using eath or staples on re-roofs as well a new construction.

CAUTION TO WHOLESALER: Careless and improper stora handling can harm fiberglass shingles. Keep the shingles completely covered, dry, reasonably cool, protected from the weather. Do not store near vasources of heat. Do not store in direct smilight entil appl DO NOT DOUBLE STACK. Systematically rotate all stoc that the material that has been stored the longest will be first to be moved out.



APPROVED ARRANGEMENT:





Test Data Review Certificate #3026447A and CDP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etsemko.com), the Masonite website (www.asonite.com) or the Masonite technical center.

Note:

Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Single Door Maximum unit size = 3'0" x 6'8"

Design Pressure

+66.0/-66.0

limited water unless special threshold design is used

Large Missile Impact Resistance

Hurricane protective system (shutters) is NOT REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0001-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed -- see MiD-WL-MA0001-02.

APPROVED DOOR STYLES:



Arch Top 3-panel



















Eyebrow 5-panel



Eyebrow 5-panel with scroll

CERTIFIED TEST REPORTS:

NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA201, PA202 and PA203.

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core.

Frame constructed of wood with an extruded aluminum threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH MIAMI-DADE BCCO PA201, PA202 & PA203

COMPANY NAME

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer Kurt Balthazor, P.E. – License Number 56533 Warnock Hersey

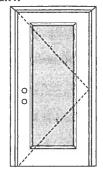
Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-OOI provides additional information – available from the 1TS/WH website (www.etlsemko.com), the Masonite vebsite (www.asonite.com) or the Masonite technical center.

Johnson EntrySystems

PREMDOR Collection
Fremium Quality Doors

Exclusively from the Masonite Masonite International Corporation

APPROVED ARRANGEMENT:





Test Data Review Certificate #3026447A and CDP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite vebsite (www.asonite.com) or the Masonite technical center.

Note:

Units of other sizes are covered by this report as long as the panel used does not exceed 3'0" x 6'8".

Single Door Maximum unit size = 3'0" x 6'8"

Design Pressure

+40.5/-40.5

Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed - see MAD-WL-MA0011-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0001-02.

APPROVED DOOR STYLES:

1/4 GLASS:





133, 135 Series





680 Series



822 Series

1/2 GLASS:



105 Series



106, 160 Series*



129 Series



200 Series



12 R/L, 23 R/L, 24 R/L



107 Series



108 Series



*This glass kit may also be used in the following door styles, 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.



APPROVED DOOR STYLES:









FULL GLASS:











CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH MIAMI-DADE BCCO PA202

> COMPANY NAME CITY, STATE

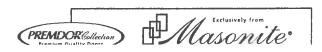
To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer Kurt Balthazor, P.E. – License Number 56533



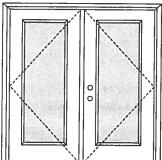
Test Data Review Certificate #3026447A and CDP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.





Units of other sizes are covered by this report as long as the panels used do not

APPROVED ARRANGEMENT:





Test Data Review Certificate #3026447A and COP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.ellsemko.com), the Masonite vebsite (www.asonite.com) or the Masonite technical center.

Double Door

Maximum unit size = $6^{\circ}0^{\circ} \times 6^{\circ}8^{\circ}$ Design Pressure +40.5/-40.5

Limited water unless special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

exceed 3'0" x 6'8".

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed - see MID-WL-MA0002-02.

APPROVED DOOR STYLES: 1/4 GLASS:











1/2 GLASS:

















1

Johnson EntrySystems



^{*}This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

APPROVED DOOR STYLES:

3/4 GLASS:







FULL GLASS:











CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN ACCORDANCE WITH MIAMI-DADE BCCO PA202

> COMPANY NAME CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

State of Florida, Professional Engineer Kurt Balthazor, P.E. – License Number 56533



Test Data Review Certificate #3026447A and CDP/Test Report Validation Matrix #3026447A-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite vebsite (www.asonite.com) or the Masonite technical center.

2

Johnson[®]
EntrySystems

PREMIDOR Collection
Premium Quality Boors

Masonite





AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 TYPE: Aluminum Triple Single Hung Window

Title of Test	Summary of Results	
AAMA Rating	H-R35 112 x 72	
Uniform Load Deflection Test Pressure	+35.3 psf -47.2 psf	
Operating Force,	25 lb max.	
Air Infiltration	0.16 cfm/ft^2	
Water Resistance Test Pressure	5.25 psf	
Uniform Load Structural Test Pressure	+53.0 psf -52.5 psf	
Deglazing	Passed	
Forced Entry Resistance	Grade 10	

Reference should be made to ATI Report No. 01-41641.01 for complete estrepecinion description and data.



AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
P.O. Box 370
650 West Market Street
Gratz, Pennsylvania 17030-0370

Report No: 01-41641.01

Test Date: 05/13/02

And: 05/16/02

Report Date: 06/05/02

Expiration Date:

05/16/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to witness testing on a Series/Model 650, aluminum triple single hung window at their facility located in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for a H-R35 112 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

Test Specimen Description:

Series/Model: 650

Type: Aluminum Triple Single Hung Window

Overall Size: 9' 3-1/2" wide by 5' 11-11/16" high

Active Sash Size (3): 3' 0-1/4" wide by 2' 10-3/4" high

Fixed Daylight Opening Size (3): 2' 8-1/4" wide by 2' 9-1/8" high

Screen Size (3): 2' 9-1/8" wide by 2' 11" high

Finish: All aluminum was painted white.

130 Derry Court York, PA 17402-9405 phone: 717.764.7700 fax: 717.764.4129

fax: 717.764.4129 www.archtest.com CALLE DE COMMENTANTE DE COMMENTANTE



Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap-around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

Weatherstripping

<u>Description</u>	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" by 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. The meeting rail was secured to the frame utilizing two 1-1/4" screws. The mullions were secured utilizing four #8 x 1-1/4" screws through the head and sill into the mullion screw boss.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each stiles' screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

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Hardware:

Description	Quantity	Location
Metal cam lock with keeper	1	Midspan of each active meeting rail with adjacent keepers
Plastic tilt latch	2	Each active sash meeting rail ends
Metal tilt pin	2	Each active sash bottom rail ends
Balance assembly	2	Each active sash contained one in each jamb
Screen plunger	2	Each screen contained two 4" from rail ends on top rail

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	25 lbs	30 lbs max.
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.16 cfm/ft^2	0.3 cfm/ft ² max.

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.

Water Resistance (ASTM E 547-00)

(with and without screen)

WTP = 2.86 psf

No leakage

No loakage

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Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.4.1	Uniform Load Deflection (ASTM (Measurements reported were tak (Loads were held for 52 seconds)	en on the mullion)	
	@ 15.0 psf (positive) @ 15.0 psf (negative)	0.15" 0.29"	0.41" max. 0.41" max.
2.1.4.2	Uniform Load Structural (ASTM (Measurements reported were tak (Loads were held for 10 seconds)	en on the mullion)	
	@ 22.5 psf (positive)	0.01"	0.29" max.
	@ 22.5 psf (negative)	0.01"	0.29" max.
2.26.2	Deglazing Test (ASTM E 987-88 In operating direction at 70 lbs	3)	
	Right sash, meeting rail	0.12"/25%	0.50"/100%
	Right sash, bottom rail	0.12"/25%	0.50"/100%
	Middle sash, meeting rail	0.12"/25%	0.50"/100%
	Middle sash, bottom rail	0.12"/25%	0.50"/100%
	Left sash, meeting rail	0.12"/25%	0.50"/100%
	Left sash, bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Right sash, right stile	0.06"/12%	0.50"/100%
	Right sash, left stile	0.06"/12%	0.50"/100%
	Middle sash, right stile	0.06"/12%	0.50"/100%
	Middle sash, left stile	0.06"/12%	0.50"/100%
	Left sash, right stile	0.06"/12%	0.50"/100%
	Left sash, left stile	0.06"/12%	0.50"/100%
2 .8	Forced Entry Resistance (ASTM	F 588-97)	
	Type: A Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Test A1 through A5	No entry	No entry
	Test A7	No entry	No chin
	Lock Manipulation Test	No entry	No entry 110.



Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
Optional Perfo	rmance		
4.3	Water Resistance (ASTM E 547-0 (with and without screen) WTP = 5.25 psf	0) No leakage	No leakage
	Uniform Load Deflection (ASTM (Measurements reported were take (Loads were held for 52 seconds)	en on the mullion)	0.4111
	@ 35.3 psf (positive) @ 47.2 psf (negative)	0.46"* 0.67"*	0.41" max 0.41" max
*Exceeds L/17	'5 for deflection, but meets all other	test requirements.	
	Uniform Load Structural (ASTM (Measurements reported were take (Loads were held for 10 seconds)	E 330-97) en on the mullion)	
	@ 53.0 psf (positive) @ 52.5 psf (negative)	0.03" 0.02"	0.29" max 0.29" max

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC

ich A. Ofen

Mark A. Hess Technician

MAH:nlb 01-41641.01 Allen N. Reeves, P.E.

Director - Engineering Services



AAMA/NWWDA 101/I.S.2-97 TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf
	-47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft ²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf
	-70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen additional data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:nlb

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AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC. 650 West Market Street P.O. Box 370 Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01

Test Date:

03/07/02

Report Date:

03/26/02

Expiration Date:

03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

Test Specimen Description

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wrap around gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

130 Derry Court York, PA 17402-9405 phone: 717.764.7700 fax: 717.764.4129

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Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and sill into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail 10. 1875



Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

<u>Paragraph</u>	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft ²	0.3 cfm/ft ² max

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.

	Water Resistance (ASTM E s (with and without screen) WTP = 2.86 psf	547-00) No leakage	No leakage
2.1.4.1	Uniform Load Deflection (AS (Measurements reported were (Loads were held for 33 secon	taken on the meeting r	ail)
	@ 25.9 psf (positive) @ 34.7 psf (negative)	0.42"* 0.43"*	0.26" max. 0.26" max.

^{*}Exceeds L/175 for deflection, but passes all other test requirements.

2.1.4.2	Uniform Load Structural (AS)	TM E 330-97)	
	(Measurements reported were		rail)
	(Loads were held for 10 secon	ds)	
	@ 38.9 psf (positive)	0.02"	0.18" max.
	@ 52.1 psf (negative)	0.02"	0.18" max

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Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987) In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		1
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM I	F 588-97)	
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Perfo	rmance		
4.3	Water Resistance (ASTM E 547-0 (with and without screen)	0)	
	WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM (Measurements reported were take (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.

^{*}Exceeds L/175 for deflection, but passes all other test requirements.

Uniform Load Structural (ASTM E 330-97)
(Measurements reported were taken on the meeting rail)
(Loads were held for 10 seconds)
@ 67.5 psf (positive)
@ 70.8 psf (negative)
0.05"

0.05" 0.18" max. Hd. 193

STATE



Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess Technician

MAH:nlb 01-41134.01 Allen N. Reeves, P.E.

Director - Engineering Services



K & H Framing/Vinyl Siding, Inc.

1534 S.W.Dekle Road Lake City, Florida 32024

October 9, 2006

To: Columbia County Building Department

RE: Direction to Emerald Cove lot #89

Take Hwy 90 West to SW Heathridge Road. Turn left into the Emerald Cove subdivision.

Turn right onto Timberland Crt. Go around curves and lot #89 in on right with culvert installed.

K&H sign is present.

Thank you,

Glenn L. Keen President of K&H Framing/Vinyl Siding, Inc.

Residential System Sizing Calculation

Spec House

Summary
Project Title:
608211K&HFramingVinylSiding

Class 3 Rating Registration No. 0 Climate: North

, FL

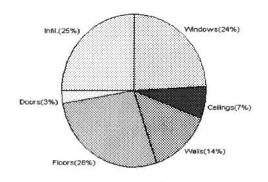
8/21/2006

0/21/2000										
Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)										
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)										
Winter design temperature	33	F	Summer design temperature	92	F					
Winter setpoint 70 F		Summer setpoint	75	F						
Winter temperature difference 37 F		Summer temperature difference	17	F						
Total heating load calculation 33722 Btuh		Total cooling load calculation	27652	Btuh						
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh					
Total (Electric Heat Pump)	115.7	39000	Sensible (SHR = 0.50)	86.7	19500					
Heat Pump + Auxiliary(0.0kW)	115.7	39000	Latent	378.1	19500					
			Total (Electric Heat Pump)	141.0	39000					

WINTER CALCULATIONS

Winter Heating Load (for 1934 sqft)

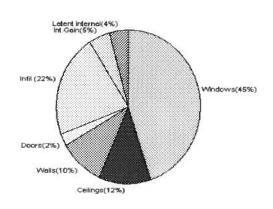
Load component			Load	
Window total	254	sqft	8186	Btuh
Wall total	1395	sqft	4580	Btuh
Door total	70	sqft	907	Btuh
Ceiling total	1994	sqft	2350	Btuh
Floor total	214	sqft	9343	Btuh
Infiltration	206	cfm	8356	Btuh
Duct loss			0	Btuh
Subtotal			33722	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			33722	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1934 sqft)

Load component			Load	
Window total	254	sqft	12319	Btuh
Wall total	1395	sqft	2791	Btuh
Door total	70	sqft	686	Btuh
Ceiling total	1994	sqft	3302	Btuh
Floor total			0	Btuh
Infiltration	108	cfm	2016	Btuh
Internal gain			1380	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			22494	Btuh
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3958	Btuh
Latent gain(ventilation)	0	Btuh		
Latent gain(internal/occu	pants/othe	er)	1200	Btuh
Total latent gain			5158	Btuh
TOTAL HEAT GAIN			27652	Btuh



For Florida residences only

EnergyGauge® System Sizing

EnergyGauge® FLR2PB v4.1

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House

Component Loads for Whole House

Project Title:

Class 3 Rating Registration No. 0

, FL

608211K&HFramingVinylSiding

Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

8/21/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btu
2	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btu
3	2, Clear, Metal, 0.87	W	10.0	32.2	322 Btu
4	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btu
5	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btu
6	2, Clear, Metal, 0.87	NE	12.0	32.2	386 Btu
7	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btu
8	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btu
9	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btu
10	2, Clear, Metal, 0.87	SW	12.0	32.2	386 Btu
	Window Total		254(sqft)		8186 Btu
Walls	Туре	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1191	3.3	3910 Btu
2	Frame - Wood - Adj(0.09)	13.0	204	3.3	670 Btu
	Wall Total		1395		4580 Btu
Doors	Туре		Area X	HTM=	Load
1	Insulated - Exterior		10	12.9	130 Btu
2	Insulated - Adjacent		20	12.9	259 Btu
3	Insulated - Exterior		40	12.9	518 Btu
	Door Total		70		907Btu
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1994	1.2	2350 Btu
	Ceiling Total		1994		2350Btu
Floors	Туре	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	214.0 ft(p)	43.7	9343 Btu
	Floor Total		214		9343 Btul
		Z	one Envelope S	ubtotal:	25366 Btul
Infiltration	Туре	ACH X	Zone Volume	CFM=	
	Natural	0.80	15472	206.3	8356 Btul
Ductload	Average sealed, R6.0, Supp	oly(Attic), Retu	ırn(Attic) (DLM of 0.00)	0 Btu
Zone #1		33722 Btu			

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title: 608211K&HFramingVinylSiding

Class 3 Rating Registration No. 0 Climate: North

, FL

		8/21/2006
WHOLE HOUSE TOTALS		
	Subtotal Sensible	33722 Btuh
	Subtotal Sensible Ventilation Sensible	33722 Btuh 0 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House

Project Title:

608211K&HFramingVinylSiding

Class 3 Rating Registration No. 0 Climate: North

, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

8/21/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load		
1	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh		
2	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh		
3	2, Clear, Metal, 0.87	W	10.0	32.2	322 Btuh		
4	2, Clear, Metal, 0.87	NW	36.0	32.2	1159 Btuh		
5	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh		
6	2, Clear, Metal, 0.87	NE	12.0	32.2	386 Btuh		
7	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh		
8	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh		
9	2, Clear, Metal, 0.87	SE	30.0	32.2	966 Btuh		
10	2, Clear, Metal, 0.87	SW	12.0	32.2	386 Btuh		
	Window Total		254(sqft)		8186 Btuh		
Walls	Туре	R-Value	Area X	HTM=	Load		
1	Frame - Wood - Ext(0.09)	13.0	1191	3.3	3910 Btuh		
2	Frame - Wood - Adj(0.09)	13.0	204	3.3	670 Btuh		
	Wall Total		1395		4580 Btuh		
Doors	Туре		Area X	HTM=	Load		
1	Insulated - Exterior		10	12.9	130 Btuh		
2	Insulated - Adjacent		20	12.9	259 Btuh		
3	Insulated - Exterior		40	12.9	518 Btuh		
	Door Total		70		907Btuh		
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load		
1	Vented Attic/D/Shin)	30.0	1994	1.2	2350 Btuh		
	Ceiling Total		1994		2350Btuh		
Floors	Туре	R-Value	Size X	HTM=	Load		
1	Slab On Grade	0	214.0 ft(p)	43.7	9343 Btuh		
	Floor Total		214		9343 Btuh		
		Z	one Envelope S	Subtotal:	25366 Btuh		
Infiltration	Туре	ACH X	Zone Volume	CFM=			
7,1111.00011	Natural	0.80	15472	206.3	8356 Btuh		
Ductload	Average sealed, R6.0, Supp	(DLM of 0.00)	0 Btuh				
Zone #1	Sensible Zone Subtotal 337						

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House

Project Title: 608211K&HFramingVinylSiding

Class 3 Rating Registration No. 0 Climate: North

, FL

		8/21/2006
WHOLE HOUSE TO	ALS	
	Subtotal Sensible	33722 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	33722 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint) (Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House

Project Title: 608211K&HFramingVinylSiding

Class 3 Rating Registration No. 0 Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

8/21/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

	Type*		Overhang Window Area(sqft) HTM						Load		
Window	Pn/SHGC/U/lnSh/ExSh/IS	Ornt	Len	Hat	Gross		Unshaded		Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702	Btuh
2	2, Clear, 0.87, None, N, N	NW	12ft.	5.5ft.	30.0	0.0	30.0	29	60	1801	Btuh
3	2, Clear, 0.87, None, N, N	W	12ft.	5.5ft.	10.0	10.0	0.0	29	80	290	Btuh
4	2, Clear, 0.87, None, N, N	NW	7.5ft.	6ft.	36.0	0.0	36.0	29	60	2161	Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	30.0	0.0	30.0	29	60	1801	
6	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	12.0	0.0	12.0	29	60	720	
7	2, Clear, 0.87, None,N,N	SE	4.5ft.	6ft.	36.0	36.0	0.0	29	63	1043	Btuh
8	2, Clear, 0.87, None, N, N	SE	4.5ft. 1.5ft.	7.5ft. Oft.	13.3 30.0	13.3 30.0	0.0	29 29	63 63	385 869	Btuh Btuh
9 10	2, Clear, 0.87, None,N,N 2, Clear, 0.87, None,N,N	SE SW	1.5it. 1.5ft.	4.5ft.	12.0	6.1	0.0 5.9	29 29	63	547	
10		200	1.511.	4.511.			5.9	29	03		
	Window Total				254 (<u> </u>				12319	Btun
Walls	Туре		R-Va	alue/U	-Value	Area	(sqft)		HTM	Load	
1	Frame - Wood - Ext			13.0/0	0.09		90.7		2.1	2484	Btuh
2	Frame - Wood - Adj			13.0/0	0.09		4.0		1.5	308	Btuh
	Wall Total					1395 (sqft)				2791	Btuh
Doors	Туре					Area	(sqft)		HTM	Load	
1	Insulated - Exterior					10	0.0		9.8	98	Btuh
2	Insulated - Adjacent					20	0.0		9.8	196	Btuh
3	Insulated - Exterior					40.0 9.8			9.8	392	Btuh
	Door Total					70 (sqft)			686	Btuh	
Ceilings	Type/Color/Surface		R-Va	alue		Area(sqft)			HTM	Load	
1	Vented Attic/DarkShingle			30.0		1994.0			1.7	3302	Btuh
	Ceiling Total					1994 (sqft)			3302	Btuh	
Floors	Туре		R-Va	alue		Si	ze		HTM	Load	
1	Slab On Grade			0.0		2	14 (ft(p))		0.0	0	Btuh
	Floor Total					214.0 (sqft)				0	Btuh
						Z	one Env	elope Sı	ıbtotal:	19098	Btuh
Infiltration	Type SensibleNatural		Α	CH 0.42		Volum			CFM= 108.3	Load 2016	Btuh
Internal		(Occup			Btuh/oc		Α	ppliance	Load	
gain				6		X 23			0	1380	Btuh
Duct load	Average sealed, R6.0,	Supply	(Attic)	, Retu	ırn(Atti	c)		DGM:	= 0.00	0.0	Btuh
	Sensible Zone Load 22494 Btuh										

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

, FL

Project Title: 608211K&HFramingVinylSiding

Class 3 Rating Registration No. 0 Climate: North

8/21/2006

WHOLE HOUSE TOTALS

		1	
	Sensible Envelope Load All Zones	22494	Btuh
	Sensible Duct Load	0	Btuh
	Total Sensible Zone Loads	22494	Btuh
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	22494	Btuh
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3958	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	5158	Btuh
	TOTAL GAIN	27652	Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint) (U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House

Project Title: 608211K&HFramingVinylSiding

Class 3 Rating Registration No. 0 Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F This calculation is for Worst Case. The house has been rotated 315 degrees.

8/21/2006

Component Loads for Zone #1: Main

	Type*		Ove	hang	Win	dow Are	a(sqft)	НТМ		Load	
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	29	60	2702	Btuh
2	2, Clear, 0.87, None,N,N	NW	12ft.	5.5ft.	30.0	0.0	30.0	29	60	1801	Btuh
3	2, Clear, 0.87, None,N,N	W	12ft.	5.5ft.	10.0	10.0	0.0	29	80	290	Btuh
4	2, Clear, 0.87, None,N,N	NW	7.5ft.	6ft.	36.0	0.0	36.0	29	60	2161	Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	30.0	0.0	30.0	29	60	1801	Btuh
6 7	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	12.0	0.0	12.0	29	60	720	Btuh
8	2, Clear, 0.87, None,N,N 2, Clear, 0.87, None,N,N	SE SE	4.5ft. 4.5ft.	6ft. 7.5ft.	36.0 13.3	36.0 13.3	0.0 0.0	29 29	63 63	1043 385	Btuh Btuh
9	2, Clear, 0.87, None,N,N	SE	1.5ft.	7.5it. Oft.	30.0	30.0	0.0	29 29	63	869	Btuh
10	2, Clear, 0.87, None,N,N	SW	1.5ft.	4.5ft.	12.0	6.1	5.9	2 9 29	63		Btuh
10	Window Total	344	1.511.	4.511.			3.5	25	03	12319	
Walls			D V	alue/L	254 (-Value		(coff)		нтм		Dluii
vvalis	Туре		IX-V				(sqft)			Load	
1	Frame - Wood - Ext			13.0/			90.7		2.1	2484	
2	Frame - Wood - Adj			13.0/0	0.09		4.0		1.5	308	Btuh
	Wall Total						95 (sqft)			2791	Btuh
Doors	Type					Area	(sqft)		HTM	Load	
1	Insulated - Exterior					10	0.0		9.8	98	Btuh
2	Insulated - Adjacent					20.0 9.8			196	Btuh	
3	Insulated - Exterior					40.0 9.8			392	Btuh	
	Door Total					70 (sqft)			686	Btuh	
Ceilings	Type/Color/Surface		R-Va	alue		Area(sqft)			HTM	Load	
1	Vented Attic/DarkShingle			30.0		1994.0 1.7		1.7	3302	Btuh	
	Ceiling Total					1994 (sqft)		3302	Btuh		
Floors	Туре		R-Va	alue		Size			НТМ	Load	
1	Slab On Grade			0.0		2	14 (ft(p))		0.0	0	Btuh
	Floor Total					214.0 (sqft)			0	Btuh	
		Zone Envelope Subtotal:								19098	Btuh
nfiltration	Туре		Δ	CH		Volum			CFM=	Load	
	SensibleNatural		_	0.42		154			108.3	2016	Btuh
Internal		(Occup	pants			ccupant	A	Appliance	Load	
gain				6		X 23	0 +		0	1380	Btuh
Duct load	Average sealed, R6.0,	Supply	(Attic)	, Retu	ırn(Atti	c)		DGM	= 0.00	0.0	Btuh
	Sensible Zone Load 22494								22494 I	3tuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

, FL

Project Title: 608211K&HFramingVinylSiding Class 3 Rating Registration No. 0 Climate: North

8/21/2006

WHOLE HOUSE TOTALS

		1	
	Sensible Envelope Load All Zones Sensible Duct Load	22494 0	
	Total Sensible Zone Loads	22494	
	Sensible ventilation	0	Btuh
	Blower	0	Btuh
Whole House	Total sensible gain	22494	Btuh
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3958	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	0	Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	5158	Btuh
	TOTAL GAIN	27652	Btuh

*Key: Window types (Pn - Number of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint) (U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R)) (ExSh - Exterior shading device: none(N) or numerical value) (BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Spec House

, FL

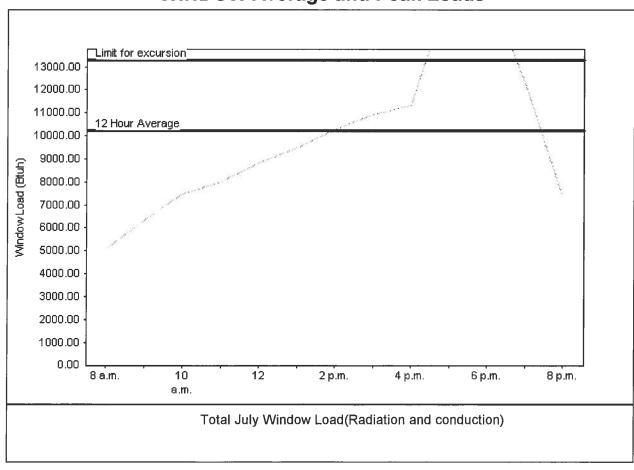
Project Title: 608211K&HFramingVinylSiding

Class 3 Rating Registration No. 0 Climate: North

8/21/2006

Weather data for: Gainesville - De	faults		
Summer design temperature	92 F	Average window load for July	10231 Btu
Summer setpoint	75 F	Peak window load for July	16544 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	13301 Btu
Latitude	29 North	Window excursion (July)	3243 Btuh

WINDOW Average and Peak Loads



This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:

EnergyGauge® FLR2PB v4.1



RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2004 and FLORIDA RESIDENTIAL CODE 2004 WITH AMENDMENTS ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE EFFECTIVE OCTOBER 1, 2005

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 16 OF THE FLORIDA BUILDING CODE 2004 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1609 SHALL BE USED.

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

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

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERA	AL REOUIREMI	ENTS: Two (2) complete sets of plans containing the following:
Applicant	Plans Examine	er
	0	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
	0	Designers name and signature on document (FBC 106.1). If licensed architect or engineer, official seal shall be affixed.
0	0	 Site Plan including: a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements.
8	O	d) Provide a full legal description of property. Wind-load Engineering Summary, calculations and any details required Plans or specifications must state compliance with FBC Section 1609. The following information must be shown as per section 1603.1.4 FBC a. Basic wind speed (3-second gust), miles per hour (km/hr). b. Wind importance factor, Iw, and building classification from Table 1604.5 or Table 6-1, ASCE 7 and building classification in Table 1-1, ASCE 7.
	11 • 25	 c. Wind exposure, if more than one wind exposure is utilized, the wind exposure and applicable wind direction shall be indicated. d. The applicable enclosure classifications and, if designed with ASCE 7, internal pressure coefficient. e. Components and Cladding. The design wind pressures in terms of psf (kN/m²) to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional.
17	П	Elevations including:
6	0	a) All sides
E/		b) Roof pitch
rt.		c) Overhang dimensions and detail with attic ventilation

		d) Location, size and height above roof of chimneys.			
		e) Location and size of skylights			
		f) Building height			
		e) Number of stories			
		Floor Plan including:			
		a) Rooms labeled and dimensioned.			
		b) Shear walls identified.			
	0	c) Show product approval specification as required by Fla. Statute 553.842 and Fla. Administrative Code 9B-72 (see attach forms).			
d d d		d) Show safety glazing of glass, where required by code.			
ď,		e) Identify egress windows in bedrooms, and size.			
ď		 f) Fireplace (gas vented), (gas non-vented) or wood burning with hearth, (Please circle applicable type). 			
	0	g) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails.			
2		h) Must show and identify accessibility requirements (accessible bathroom)			
		Foundation Plan including:			
G'		 a) Location of all load-bearing wall with required footings indicated as standard or monolithic and dimensions and reinforcing. 			
9		b) All posts and/or column footing including size and reinforcing			
		c) Any special support required by soil analysis such as piling			
		d) Location of any vertical steel.			
		Roof System:			
0		a) Truss package including:			
		 Truss layout and truss details signed and sealed by Fl. Pro. Eng. Roof assembly (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind register to service. 			
G/		wind resistance rating)			
	Ц	b) Conventional Framing Layout including: 1. Rafter size, species and spacing			
		2. Attachment to wall and uplift			
		3. Ridge beam sized and valley framing and support details			
		4. Roof assembly (FBC 106.1.1.2)Roofing systems, materials,			
		manufacturer, fastening requirements and product evaluation with			
		wind resistance rating)			
	022	Wall Sections including:			
J		a) Masonry wall			
		1. All materials making up wall			
		 Block size and mortar type with size and spacing of reinforcement Lintel, tie-beam sizes and reinforcement 			
		4. Gable ends with rake beams showing reinforcement or gable truss			
		and wall bracing details			
		5. All required connectors with uplift rating and required number and			
		size of fasteners for continuous tie from roof to foundation shall be designed by a Windload engineer using the engineered roof truss			
		plans.			
		6. Roof assembly shown here or on roof system detail (FBC			
		106.1.1.2) Roofing system, materials, manufacturer, fastening			
	·•	requirements and product evaluation with resistance rating) 7. Fire resistant construction (if required)			
		8. Fireproofing requirements			
		9. Shoe type of termite treatment (termiticide or alternative method)			
	×	10. Slab on grade			
		a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)			

2

		 a. Attic space b. Exterior wall cavity c. Crawl space (if applicable)
9		 b) Wood frame wall All materials making up wall Size and species of studs Sheathing size, type and nailing schedule Headers sized Gable end showing balloon framing detail or gable truss and wall hinge bracing detail All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers) shall be designed by a Windload engineer using the engineered roof truss plans.
		 7. Roof assembly shown here or on roof system detail (FBC 106.1.1.2) Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating) 8. Fire resistant construction (if applicable) 9. Fireproofing requirements
		 Show type of termite treatment (termiticide or alternative method) Slab on grade Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
		b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports 12. Indicate where pressure treated wood will be placed
		13. Provide insulation R value for the following:a. Attic spaceb. Exterior wall cavity
		c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)
		Floor Framing System: a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
		b) Floor joist size and spacing
		c) Girder size and spacing
		d) Attachment of joist to girder
		e) Wind load requirements where applicable
		Plumbing Fixture layout
		Electrical layout including:
8		a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
9		b) Ceiling fans
9		c) Smoke detectors
G/		d) Service panel and sub-panel size and location(s)
9		e) Meter location with type of service entrance (overhead or underground)
-0		f) Appliances and HVAC equipment
		g) Arc Fault Circuits (AFCI) in bedrooms
		h) Exhaust fans in bathroom
		HVAC information
9		a) Energy Calculations (dimensions shall match plans)
		b) Manual J sizing equipment or equivalent computation
		c) Gas System Type (LP or Natural) Location and BTU demand of equipment
		Disclosure Statement for Owner Builders
0/		*** Notice Of Commencement Required Before Any Inspections Will Be Done
TY .	П	Private Potable Water

- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

- 1. <u>Building Permit Application:</u> A current Building Permit Application form is to be completed and submitted for all residential projects.
- 2. <u>Parcel Number:</u> The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.
- 3. Environmental Health Permit or Sewer Tap Approval: A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued.

 (386) 758-1058 (Toilet facilities shall be provided for construction workers)
- 4. <u>City Approval:</u> If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321
- 5. Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.
 A development permit will also be required. Development permit cost is \$50.00
- 6. <u>Driveway Connection:</u> If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial. <u>If the project is to be located on a F.D.O.T. maintained road, than an F.D.O.T. access permit is required.</u>
- 7. <u>911 Address:</u> If the project is located in an area where the 911 address has been issued, then the proper paperwork from the 911 Addressing Department must be submitted. (386) 752-8787

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. YOU WILL BE NOTIFIED WHEN YOUR APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT. PLEASE DO NOT EXPECT OR REQUEST THAT PERMIT APPLICATIONS BE REVIEWED OR APPROVED WHILE YOU ARE HERE -- TIME WILL NOT ALLOW THIS --PLEASE DO NOT ASK

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

number for any of the applicable		Statewide approved products are listed online	
Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWNGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS	<u> </u>		
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			
A			

The products listed below did not demonstrate product approval at plan review. If understand that at the time of inspection of these
products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance
characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation
requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

A- L. KEH FRAMING 10/8/06
APPLICANT SIGNATURE DATE