

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0610-16 Date Received 195 By JW Permit # 1232 / 25103
 Application Approved by - Zoning Official BLK Date 09/10/06 Plans Examiner OK JTH Date 10-10-06
 Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
 Com: * Special Family Lot Permit: Call to Engineer: 14.9
Linda Kober

Applicants Name N. 71 Permit Svc. Inc. Phone 752-2287
 Address 387 SW KEMP CT LAKE CITY, FL 32024
 Owners Name R. TRAVIS & JAMIE McELGARD Phone 752-2872
 911 Address 676 NW BLINKLEY TERRACE, L.C. 32055
 Contractors Name Cady Homes & Ass Phone 752-2878
 Address 122 S.W. Midtown Pl. Lake City FL 32025
 Fee Simple Owner Name & Address N/A
 Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Will Myers - Mark Drosoway
 Mortgage Lenders Name & Address Webster Bank P.O. Box 30 Waterbury Ct. 06.

Circle the correct power company - FL Power & Light Clay Elec. Suwannee Valley Elec. Progressive Energy
 Property ID Number 09-35-16-02049-226 Estimated Cost of Construction 225,610.00
 Subdivision Name Rolling Oaks Phase 2 Lot 26 Block Unit Phase
 Driving Directions 90 W. Lon NW Lake Jeffrey Rd, Lon NW Brinkley Terrace Lot is 7th down on R.

Type of Construction SFD Number of Existing Dwellings on Property 0
 Total Acreage Lot Size 2.5 Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 65' Side 30' Side 30' Rear 353'
 Total Building Height 22' Number of Stories 1 Heated Floor Area 2157 ²⁰⁴⁶ Roof Pitch 10/12
TOTAL 2878

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

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

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

Owner Builder or Agent (Including Contractor) -2824

STATE OF FLORIDA
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
 this Oct 1 day of October 20 06.
 Personally known X or Produced Identification

Contractor Signature Aaron M. Clark VP
 Contractors License Number CGK 1508421
 Competency Card Number
 NOTARY STAMP/SEAL

Caroleann Ruth Hayhurst
 Caroleann Ruth Hayhurst
 Commission # DD547714
 Expires: MAY 02, 2010
 www.AARONNOTARY.com
623-4339

* JW called LINDA ON 10.9.06 *

This Instrument Prepared By:
KYLIE D MARKHAM
658 NW BRINKLEY TER
LAKE CITY, FLORIDA 32055

PARCEL NO: PART OF 09-3S-16-02049-126

WARRANTY DEED

This Warranty Deed, made the 15th day of September, 2006, by Kylie D. Markham, a single woman, hereinafter called the Grantor, to Robert Travis Melgaard and Jamie Lynn Melgaard, husband and wife, whose post office address is Post Office Box 1255, Lake City, Florida 32056.

(Wherever used herein the terms "Grantor" and "Grantee" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

WITNESSETH: That the Grantor, for and in consideration of the sum of LOVE AND AFFECTION and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the Grantee all that certain land situate, lying and being in COLUMBIA County, State of Florida, viz:

DESCRIPTION:
A PART OF LOT 26 IN 'ROLLING OAKS' AS PER PLAT THEREOF RECORDED IN PLAT BOOK 5, PAGE 132, 132A & 132B OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
BEGIN AT THE SW CORNER OF SAID LOT 26 AND RUN N.01°04'50"E., ALONG THE WEST LINE OF SAID LOT 26, 321.17 FEET; THENCE N.89°26'20"E., 240.43 FEET; THENCE N.76°29'58"E., 210.99 FEET TO A POINT ON THE EAST LINE OF SAID LOT 26, SAID POINT BEING IN A CURVE CONCAVE TO THE EAST AND HAVING A RADIUS OF 430.00 FEET ALONG WITH AN INCLUDED ANGLE OF 22°32'08"; THENCE S.66°55'00"W., 534.62 FEET TO THE POINT OF BEGINNING, CONTAINING 2.51 ACRES, MORE OR LESS.

Together, with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining. To Have and to Hold, the same in fee simple forever.

And the Grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2005.

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

Signed, sealed and delivered in the presence of:

Cheryl Williams-Plyn
Witness Signature

Cheryl Williams-Plyn
Printed Name

Pinky Timmons
Witness Signature

Pinky Timmons
Printed Name

Kylie D Markham
KYLIE D MARKHAM

Inst:2006022053 Date:09/15/2006 Time:09:11

Doc Stamp-Deed : 0.00

J. P. Dewitt Cason, Columbia County B:1096 P:409

STATE OF FLORIDA COUNTY OF COLUMBIA

I hereby certify that on this day, before me, an officer duly authorized to administer oaths and take acknowledgments, personally appeared KYLIE D MARKHAM known to me to be the persons described in and who executed the foregoing instrument, who acknowledged before me that she executed the same, and an oath was not taken. (Check one:) ☒ Said person(s) is personally known to me. ☐ Said person(s) provided the following type of identification: _____

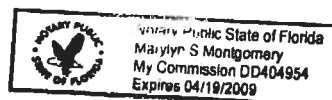
Witness my hand and official seal in the County and State last aforesaid
This 15th day of September, 2006.

Notary Signature

Marilyn S. Montgomery

Printed Name

Marilyn S. Montgomery



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **Cady Homes - Melgard**
Address: **Lot: 26, Sub: Rolling Oaks, Plat:**
City, State: **Lake City, FL 32025-**
Owner: **Travis & Jamie Melgard**
Climate Zone: **North**

Builder: **Cady Homes & Assoc.**
Permitting Office: **LOWMYER**
Permit Number: **25103**
Jurisdiction Number: **221000**

1. New construction or existing	New	—	12. Cooling systems	
2. Single family or multi-family	Single family	—	a. Central Unit	Cap: 49.0 kBtu/hr
3. Number of units, if multi-family	1	—		SEER: 12.00
4. Number of Bedrooms	3	—	b. N/A	—
5. Is this a worst case?	No	—	c. N/A	—
6. Conditioned floor area (ft ²)	2046 ft ²	—	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		—	a. Electric Heat Pump	Cap: 49.0 kBtu/hr
a. U-factor:	Description Area	—		HSPF: 6.80
(or Single or Double DEFAULT) 7a(Sngle Default) 287.3 ft ²		—	b. N/A	—
b. SHGC:		—	c. N/A	—
(or Clear or Tint DEFAULT) 7b. (Clear) 287.3 ft ²		—	14. Hot water systems	
8. Floor types		—	a. Electric Resistance	Cap: 50.0 gallons
a. Slab-On-Grade Insulation	R=0.0, 227.0(p) ft	—		EF: 0.90
b. N/A		—	b. N/A	—
c. N/A		—	c. Conservation credits	—
9. Wall types		—	(HR-Heat recovery, Solar	—
a. Frame, Wood, Exterior	R=13.0, 1492.7 ft ²	—	DHP-Dedicated heat pump)	—
b. Frame, Wood, Adjacent	R=13.0, 180.0 ft ²	—	15. HVAC credits	PT, —
c. N/A		—	(CF-Ceiling fan, CV-Cross ventilation,	
d. N/A		—	HF-Whole house fan,	
e. N/A		—	PT-Programmable Thermostat,	
10. Ceiling types		—	MZ-C-Multizone cooling,	
a. Under Attic	R=30.0, 2200.0 ft ²	—	MZ-H-Multizone heating)	
b. N/A		—		
c. N/A		—		
11. Ducts(Leak Free)		—		
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft	—		
b. N/A		—		

Glass/Floor Area: 0.14

Total as-built points: 27196

Total base points: 29240

PASS

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

PREPARED BY: *Justin M...*

DATE: 10-2-06

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

OWNER/AGENT: *Spide R...*

DATE: 10-3-06

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: _____



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

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 26, Sub: Rolling Oaks, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	2046.0	20.04	7380.3	Single, Clear	W	1.5	10.0	30.0	43.84	0.98	1287.5
				Single, Clear	N	1.5	8.0	36.0	21.73	0.97	756.6
				Single, Clear	N	16.5	10.0	18.0	21.73	0.64	250.7
				Single, Clear	W	1.5	10.0	14.0	43.84	0.98	600.8
				Single, Clear	NW	12.5	10.0	21.0	29.42	0.60	370.2
				Single, Clear	N	10.5	10.0	20.0	21.73	0.70	305.5
				Single, Clear	W	15.5	10.0	42.0	43.84	0.44	815.5
				Single, Clear	N	1.5	8.0	6.0	21.73	0.97	126.1
				Single, Clear	E	1.5	8.0	15.0	47.92	0.96	688.3
				Single, Clear	E	9.0	10.0	13.3	47.92	0.54	345.9
				Single, Clear	E	1.5	10.0	36.0	47.92	0.98	1687.6
				Single, Clear	S	1.5	8.0	16.0	40.81	0.92	602.9
				Single, Clear	S	1.5	8.0	20.0	40.81	0.92	753.6
				As-Built Total:		287.3			8591.2		
WALL TYPES Area X BSPM = Points				Type		R-Value		Area X SPM = Points			
Adjacent	180.0	0.70	126.0	Frame, Wood, Exterior		13.0		1492.7		1.50 2239.0	
Exterior	1492.7	1.70	2537.6	Frame, Wood, Adjacent		13.0		180.0		0.60 108.0	
Base Total:				1672.7		2663.6		As-Built Total:		1672.7 2347.0	
DOOR TYPES Area X BSPM = Points				Type				Area X SPM = Points			
Adjacent	20.0	1.60	32.0	Exterior Insulated				20.0		4.10 82.0	
Exterior	20.0	4.10	82.0	Adjacent Insulated				20.0		1.60 32.0	
Base Total:				40.0		114.0		As-Built Total:		40.0 114.0	
CEILING TYPES Area X BSPM = Points				Type		R-Value		Area X SPM X SCM = Points			
Under Attic	2046.0	1.73	3539.6	Under Attic		30.0		2200.0		1.73 X 1.00 3806.0	
Base Total:				2046.0		3539.6		As-Built Total:		2200.0 3806.0	
FLOOR TYPES Area X BSPM = Points				Type		R-Value		Area X SPM = Points			
Slab	227.0(p)	-37.0	-8399.0	Slab-On-Grade Edge Insulation		0.0		227.0(p)		-41.20 -9352.4	
Raised	0.0	0.00	0.0								
Base Total:				-8399.0		227.0		As-Built Total:		-9352.4	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 26, Sub: Rolling Oaks, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT					
INFILTRATION Area X BSPM = Points				Area X SPM = Points					
2046.0 10.21 20889.7				2046.0 10.21 20889.7					
Summer Base Points: 26188.2				Summer As-Built Points: 26395.5					
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Cooling Points
26188.2	0.4266	11171.9		(sys 1: Central Unit 49000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 26396					

(sys 1: Central Unit 49000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)

26396 1.00 (1.09 x 1.000 x 1.00) 0.284 0.950 7773.8

26395.5 1.00 1.090 0.284 0.950 7773.8

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 26, Sub: Rolling Oaks, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points			
.18	2046.0	12.74	4691.9	Single, Clear	W	1.5	10.0	30.0	28.84	1.01	870.1
				Single, Clear	N	1.5	8.0	36.0	33.22	1.00	1197.0
				Single, Clear	N	16.5	10.0	18.0	33.22	1.02	612.1
				Single, Clear	W	1.5	10.0	14.0	28.84	1.01	406.1
				Single, Clear	NW	12.5	10.0	21.0	32.93	1.03	710.9
				Single, Clear	N	10.5	10.0	20.0	33.22	1.02	676.9
				Single, Clear	W	15.5	10.0	42.0	28.84	1.21	1461.9
				Single, Clear	N	1.5	8.0	6.0	33.22	1.00	199.5
				Single, Clear	E	1.5	8.0	15.0	26.41	1.02	404.0
				Single, Clear	E	9.0	10.0	13.3	26.41	1.26	442.0
				Single, Clear	E	1.5	10.0	36.0	26.41	1.01	962.8
				Single, Clear	S	1.5	8.0	16.0	20.24	1.04	337.1
				Single, Clear	S	1.5	8.0	20.0	20.24	1.04	421.4
				As-Built Total:			287.3			8701.9	
WALL TYPES Area X BWPM = Points				Type		R-Value		Area X WPM = Points			
Adjacent	180.0	3.60	648.0	Frame, Wood, Exterior		13.0		1492.7		3.40 5075.2	
Exterior	1492.7	3.70	5523.0	Frame, Wood, Adjacent		13.0		180.0		3.30 594.0	
Base Total: 1672.7 6171.0				As-Built Total:		1672.7		5669.2			
DOOR TYPES Area X BWPM = Points				Type				Area X WPM = Points			
Adjacent	20.0	8.00	160.0	Exterior Insulated				20.0		8.40 168.0	
Exterior	20.0	8.40	168.0	Adjacent Insulated				20.0		8.00 160.0	
Base Total: 40.0 328.0				As-Built Total:		40.0		328.0			
CEILING TYPES Area X BWPM = Points				Type		R-Value		Area X WPM X WCM = Points			
Under Attic	2046.0	2.05	4194.3	Under Attic		30.0		2200.0		2.05 X 1.00 4510.0	
Base Total: 2046.0 4194.3				As-Built Total:		2200.0		4510.0			
FLOOR TYPES Area X BWPM = Points				Type		R-Value		Area X WPM = Points			
Slab	227.0(p)	8.9	2020.3	Slab-On-Grade Edge Insulation		0.0		227.0(p)		18.80 4267.6	
Raised	0.0	0.00	0.0								
Base Total: 2020.3				As-Built Total:		227.0		4267.6			

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 26, Sub: Rolling Oaks, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE				AS-BUILT			
INFILTRATION Area X BWPM = Points				Area X WPM = Points			
2046.0 -0.59 -1207.1				2046.0 -0.59 -1207.1			
Winter Base Points: 16198.3				Winter As-Built Points: 22269.6			
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X Duct Multiplier X System Multiplier X Credit Multiplier = Heating Points
16198.3		0.6274	10162.8	(sys 1: Electric Heat Pump 49000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 22269.6 1.000 (1.069 x 1.000 x 1.00) 0.501 0.950 11341.2 22269.6 1.00 1.069 0.501 0.950 11341.2			

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 26, Sub: Rolling Oaks, Plat: , Lake City, FL, 32025-

PERMIT #:

BASE					AS-BUILT				
WATER HEATING									
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Multiplier X Credit = Total Multiplier
3		2635.00		7905.0	50.0	0.90	3		1.00 2693.56 1.00 8080.7
					As-Built Total:				
					8080.7				

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	
11172		10163		7905		29240	

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 26, Sub: Rolling Oaks, Plat: , Lake City, FL, 32025-

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. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.7

The higher the score, the more efficient the home.

Travis & Jamie Melgard, Lot: 26, Sub: Rolling Oaks, Plat: , Lake City, FL, 32025-

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 49.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 12.00
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	No	___	c. N/A	___
6. Conditioned floor area (ft ²)	2046 ft ²	___		___
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		___		___
a. U-factor:	Description	Area	13. Heating systems	
(or Single or Double DEFAULT)	7a(Sngle Default)	287.3 ft ²	a. Electric Heat Pump	Cap: 49.0 kBtu/hr
b. SHGC:		___		HSPF: 6.80
(or Clear or Tint DEFAULT)	7b. (Clear)	287.3 ft ²	b. N/A	___
8. Floor types		___	c. N/A	___
a. Slab-On-Grade Edge Insulation	R=0.0, 227.0(p) ft	___		___
b. N/A	___	___	14. Hot water systems	
c. N/A	___	___	a. Electric Resistance	Cap: 50.0 gallons
9. Wall types		___		EF: 0.90
a. Frame, Wood, Exterior	R=13.0, 1492.7 ft ²	___	b. N/A	___
b. Frame, Wood, Adjacent	R=13.0, 180.0 ft ²	___	c. Conservation credits	___
c. N/A	___	___	(HR-Heat recovery, Solar	___
d. N/A	___	___	DHP-Dedicated heat pump)	___
e. N/A	___	___	15. HVAC credits	PT, ___
10. Ceiling types		___	(CF-Ceiling fan, CV-Cross ventilation,	___
a. Under Attic	R=30.0, 2200.0 ft ²	___	HF-Whole house fan,	___
b. N/A	___	___	PT-Programmable Thermostat,	___
c. N/A	___	___	MZ-C-Multizone cooling,	___
11. Ducts(Leak Free)		___	MZ-H-Multizone heating)	___
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 50.0 ft	___		___
b. N/A	___	___		___

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____

Date: _____

Address of New Home: _____

City/FL Zip: _____



**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ 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.*

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

Energy Code Compliance

Duct System Performance Report

Project Name: Cady Homes - Melgard	Builder: Cady Homes & Assoc.
Address:	Permitting Office:
City, State: Lake City, FL 32025-	Permit Number:
Owner: Travis & Jamie Melgard	Jurisdiction Number:
Climate Zone: North	

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	Total House Duct System Leakage	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,tot}) ☐ Receive credit if Q _{n,tot} ≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q _{n,out}) ☐ Receive credit if Q _{n,out} ≤ 0.03 AND Q _{n,tot} ≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____
 Printed Name: _____
 Florida Rater Certification #: _____
 DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: <http://energygauge.com/search.htm>



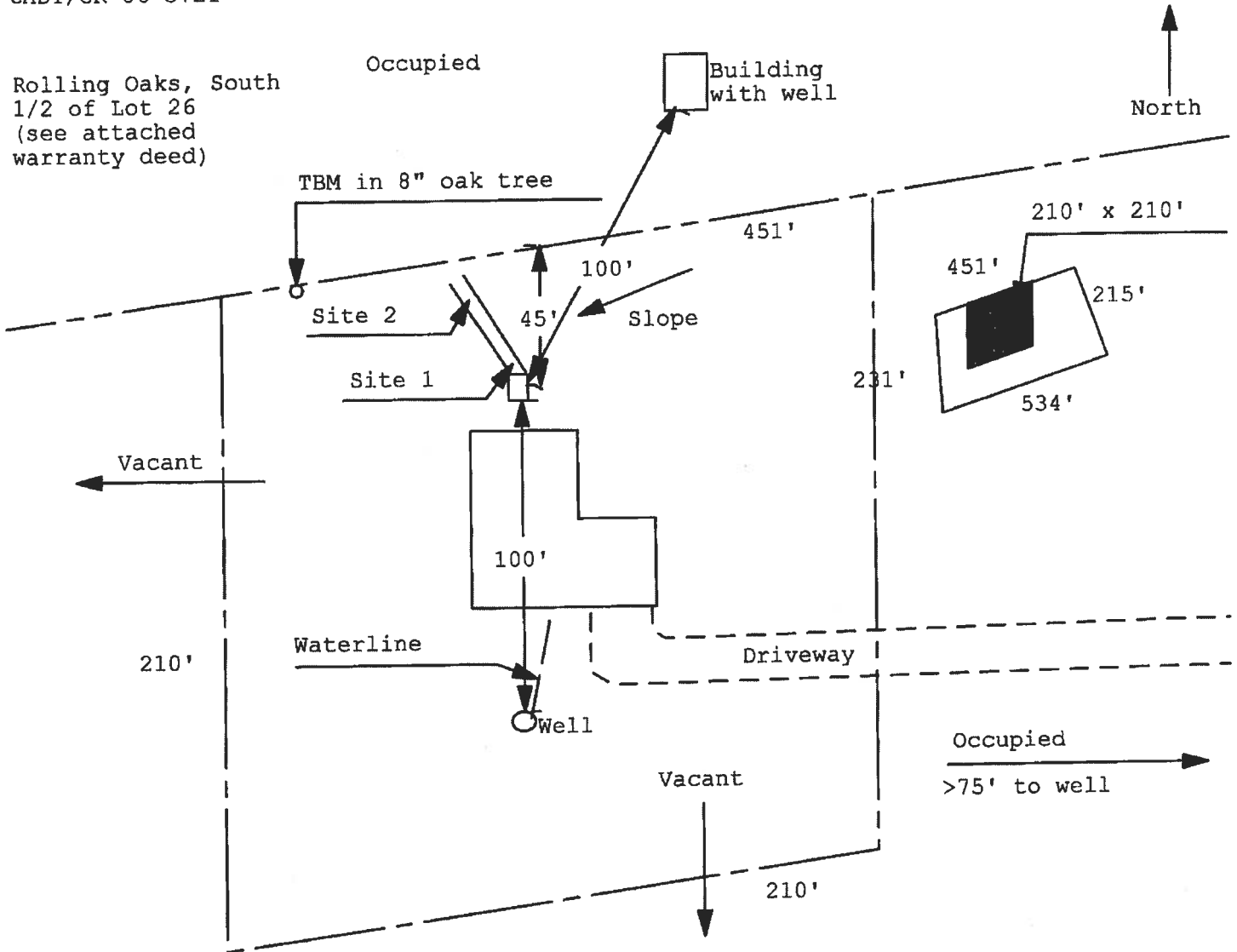
BUILDING OFFICIAL: _____
 DATE: _____

**Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan**
Permit Application Number: 06-0905N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

CADY/CR 06-3721

Rolling Oaks, South
1/2 of Lot 26
(see attached
warranty deed)



1 inch = 50 feet

Site Plan Submitted By Paul Lloyd Date 10/3/06
Plan Approved X Not Approved Date
By Salhi Yaddy ESII 10.10.06 CPHU
Notes: **Columbia CHD**

10/ 5/ '06 THU 20:27

(3867521869

) 7528058

1/ 1

Attn: Janice

Notice of Authorization

I, Aaron Cady, do hereby authorize Linda Roder or Malenia Roder,to be my representative and act on my behalf in all aspects of applying for any theMelgaard permit to be located in Columbia county.

Any homeowner and legal description

X Aaron M. Cady
Contractor's signature10-5-06
DateSworn and subscribed before me this 10 day of October, 2006.Carolann Ruth Hayhurst

Notary Public

Carolann Ruth Hayhurst
Commission # DD547714
Expires: MAY 02, 2010
www.AARONNOTARY.comMy commission expires: May 2, 2010
Commission No. DD547714
Personally known: to me
Produced ID (Type): _____

Janice 0616-16 - Melgaard
COLUMBIA COUNTY 9-1-1 ADDRESSING

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

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 10/3/2006 DATE ISSUED: 10/9/2006

ENHANCED 9-1-1 ADDRESS:

676 NW BRINKLEY TER
LAKE CITY FL 32055
PROPERTY APPRAISER PARCEL NUMBER:
09-36-16-02049-126

Remarks:

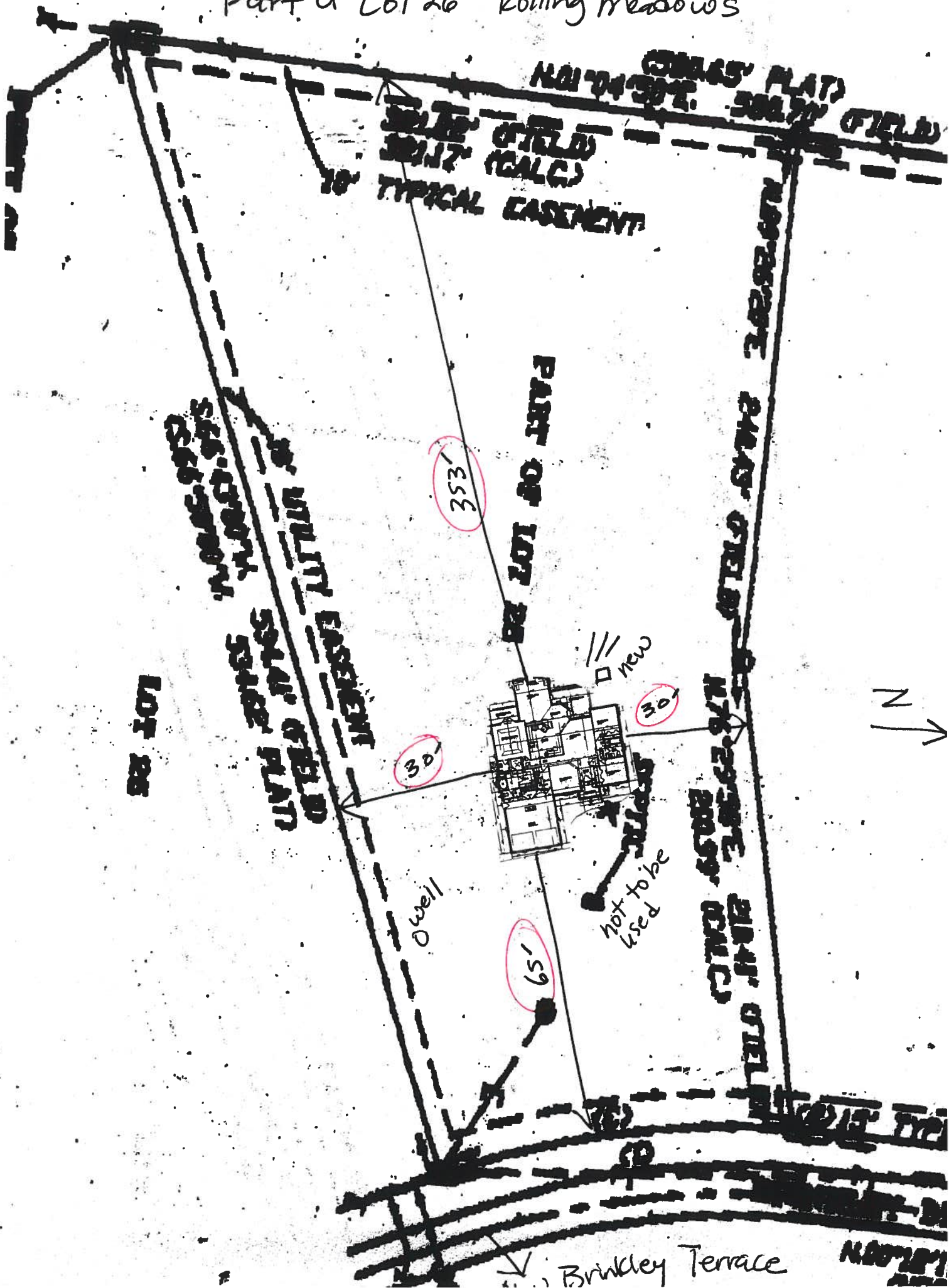
LOCATED ON LOT 28 ROLLING OAKS S/D

Address Issued By: 
Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

435

Part of Lot 26 Rolling Meadows



Permit No. _____ Tax Folio No. _____

NOTICE OF COMMENCEMENT

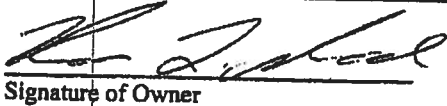
STATE OF *FL*
COUNTY OF *Columbia*

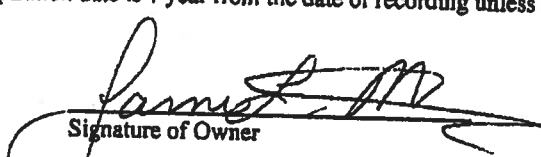
The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of property: *See attached*
2. General description of improvement: *Construction of single family residence*
3. Owner information:
 - a. Name and address: *Robert + Jamie Melgaard; PO Box 1255
Lake City, FL 32056*
 - b. Interest in property: *Fee simple*
 - c. Name and address of fee simple titleholder (if other than Owner):
4. Contractor: *Cady Homes & Associates, Inc.
122 SW Midtown Place, Lake City, FL 32025*
5. Surety:
 - a. Name and address: *n/a*
 - b. Amount of bond \$ _____
6. Lender: **ATTN: Robert M. Imperato, Vice President,
Webster Bank, N.A.
National Construction Lending Center
609 West Johnson Avenue
Cheshire, CT 06410**
7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:

8. In addition to himself, Owner designates _____ of _____ 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 is 1 year from the date of recording unless a different date is specified) _____


Signature of Owner

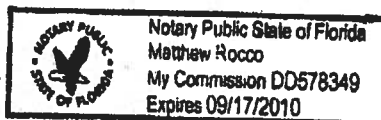

Signature of Owner

Sworn to and subscribed before me this *27* day of *September*, 2006.


Notary Public, State of _____

My Commission Expires:

Return to:
Sierra Title, LLC
619 SW Baya Dr., Ste 102
Lake City, FL 32025
06-0244



COPY

File No. 06-0244

Inst:2006023155 Date:09/27/2006 Time:16:40
DC, P. DeWitt Cason, Columbia County B:1097 P:946

LEGAL DESCRIPTION

A part of Lot 26 in Rolling Oaks as per Plat thereof recorded in Plat Book 5, Pages 132, 132A & 132B of the Public Records of Columbia County, Florida, being more particularly described as follows:

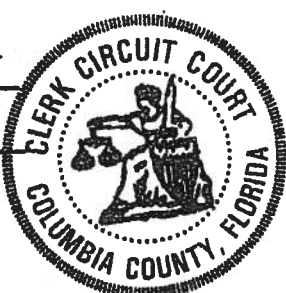
Begin at the SW corner of said Lot 26 and run N 01°04'50" E, along the West line of said Lot 26, 321.17 feet; thence N 89°26'20" E, 240.43 feet; thence N 76°29'58" E, 210.99 feet to a Point on the East line of said Lot 26, said Point being in a curve concave to the East and having a radius of 430.00 feet along with an included angle of 22°32'08"; thence S 66°55'00" W, 534.62 feet to the Point of Beginning.

yltm
vcm

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
P. DEWITT CASON, CLERK OF COURTS

By Rose Annello
Deputy Clerk

Date Sept 29 2006





Phone (386) 755-3
Fax (386) 755-3
Toll Free 1-800-616-4

Notice of Intent for Preventative Treatment for Termites
(As required by Florida Building Code (FBC) 104.2.6)

Aspen Pest Control, Inc.
(386) 755-3611
State License # - JB109476
State Certification # - JF104376

Melgaard (East 1/2 of lot 26 Rolling Oaks)
Address of Treatment or Lot/Block of Treatment

Bora-Care Wood Treatment – 23% Disodium Octaborate Tetrahydrate
Method of Termite Prevention Treatment – Soil Barrier, Wood Treatment, Bait System, Other

Application onto Structural Wood
Description of Treatment

The above named structure will receive a complete treatment for the prevention of subterranean termites at the dried-in stage of construction. Treatment is done in accordance with the rules and laws established by the Florida Department of Agriculture and Consumer Services and according to EPA registered label directions as stated in Florida Building Code Section 1861.1.8.

Celia Oyden
Authorized Signature

9-7-06
Date

**Columbia County Building Department
Culvert Permit**

**Culvert Permit No.
000001232**

DATE 10/11/2006 PARCEL ID # 09-3S-16-02049-226
APPLICANT AARON CADY PHONE 386.752.2878
ADDRESS 122 SW MIDTOWN PLACE LAKE CITY FL 32055
OWNER ROBERT T. & JAMIE MELGAARD PHONE _____
ADDRESS 676 NW BRINKLEY TERRACE LAKE CITY FL 32055
CONTRACTOR AARON CADY PHONE 386.752.2872
LOCATION OF PROPERTY LAKE JEFFERY ROAD TO BRINKLEY TERRACE, TL AND IT'S THE 7TH PLACE
DOWN ON R. _____

SUBDIVISION/LOT/BLOCK/PHASE/UNIT PART OF ROLLING OAKS 26

SIGNATURE Aaron M. Cady

INSTALLATION REQUIREMENTS



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

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
- b) the driveway to be served will be paved or formed with concrete.

Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

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

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

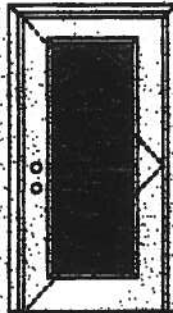
Amount Paid 25.00



X

Glazed Inswing Unit

SDP-WL-MA0041-02

WOOD-EDGE STEEL DOORS**APPROVED ARRANGEMENT:****Note:**

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



Test Data Review Certificate #0000447A and COPPING Report Validating Masonite #0000447A-001 provides additional information - available from the TIAAH website (www.tiaah.com), the Masonite website (www.masonite.com) or the Masonite technical center.

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

Design Pressure
+40.5/-40.5

Limited water intake special threshold design is used.

Large Missile Impact Resistance

Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistance 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 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:**

100 Series



120, 125 Series



130 Series



600 Series



622 Series

1/2 GLASS:

105 Series*



100, 100 Series*



120 Series*



200 Series*



12 RA, 20 RA, 94 RA Series*



107 Series*



100 Series



304 Series

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

Johnson
Entry Systems

June 12, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.



Exclusively from

Masonite International Corporation

Y

Glazed Inswing Unit

COP-WL-1041-02

WOOD-EDGE STEEL DOORS**APPROVED DOOR STYLES:****3/4 GLASS:**

404 Series



410 Series



460 Series

FULL GLASS:

109 Series



114, 120, 122 Series



152 Series



148 Series



304 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1861-4, 5, 6, 10, 11, 12; NCTL 210-2185-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 18258

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 and 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 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
interior door unit conforms to the requirements of the 2001 Florida
Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Bath

State of Florida, Professional Engineer
Kurt Bathazot, P.E. - License Number 56533



Test Data, Product Certificate #2002-077A
and Compliance Report Validation Mark
#2022-0479-001 provides additional
information - available from the HAWTH
website (www.hawth.com), the
Miami-Dade website (www.miamidade.com)
or the Johnson technical center.

Johnson
Entry Systems

June 17, 2002

Our continuing program of product improvement meets specifications, design and product
detail subject to change without notice.



Exclusively from

Masonite
Masonite International Corporation

**AAMA/NWDA 101/LS-2-97
TEST REPORT SUMMARY**

Rendered to:

MI HOME PRODUCTS, INC.

**SERIES/MODEL: 650 Fin
TYPE: Aluminum Single Hang 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 description and data.

For ARCHITECTURAL TESTING, INC.



Mark A. Hess, Technician

MAH:nfb


1 APRIL 2002





Architectural Testing

AAMA/NWDA 101/LS-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. (ATT) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethtown, 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/NWDA 101/LS-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
www.archtest.com

Allen M. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

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

Allen N. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

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:

Paragraph	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/NWDA 101/LS-2-97 for air infiltration.

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds) @ 25.9 psf (positive) @ 34.7 psf (negative)	0.42" 0.43"	0.26" max. 0.26" max.

**Exceeds E-175 for deflection, but passes all other test requirements.*

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds) @ 38.9 psf (positive) @ 52.1 psf (negative)	0.02" 0.02"	0.18" max. 0.18" max.
---------	---	----------------	--------------------------

Allen H. Reeves
1 APRIL 2002



Test Specimen Description: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
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		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM 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 Performance

4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (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)	0.05"	
@ 70.8 psf (negative)	0.05"	

Allen N. Reeves
1 APRIL 2002



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:mb
01-41134-01


Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002





ELK®



**PRESTIQUE®
HIGH DEFINITION®**



RAISED PROFILE®

**Prestique Plus High Definition
and Prestique Gallery Collection™**

Product size _____ 126" x 36"
Exposure _____ 36"
Pieces/Bundle _____ 18
Bundles/Square _____ 4/93.5 sq.ft.
Squares/Pallet _____ 11

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 60 mph, extended
110 mph***

Raised Profile

Product size _____ 126" x 36"
Exposure _____ 36"
Pieces/Bundle _____ 22
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 70 mph.

Prestique I High Definition

Product size _____ 126" x 36"
Exposure _____ 36"
Pieces/Bundle _____ 18
Bundles/Square _____ 4/93.5 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 60 mph, extended
90 mph***

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/FLX™

Size: 12" x 12"
Exposure: 60"
Pieces/Bundle: 48
Coverage: 4 Bundles =
100 linear feet

Vented RidgeCrest™ w/FLX™

Size: 13" x 13"
Exposure: 90"
Pieces/Bundle: 28
Coverage: 6 Bundles =
100 linear feet

Prestique High Definition

Product size _____ 126" x 36"
Exposure _____ 36"
Pieces/Bundle _____ 22
Bundles/Square _____ 3/100 sq.ft.
Squares/Pallet _____ 18

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 60 mph.

Elk Starter Strip

32 Bundles/Pallet
16 Pallets/Truck
608 Bundles/Truck
18 Pieces/Bundle
1 Bundle = 120.39 linear feet

Available Colors (Check Availability): Antique Glass, Weathered Wood, Shakerwood, Slatwood, Hickory, Barnwood, Forest Green, Wedgewood, Richwood, Sandstone, Gallery Collection (Salem Forest®, Weathered Sage®, Glynn Quarter®).

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

Check for availability with built-in Sta-Bond™ treatment to inhibit the deterioration of roofing granules caused by the growth of certain types of algae.

All Prestique and Raised Profile shingles meet UL's Wind Resistance (UL 580) and Class "A" Fire Ratings (UL 790) and ASTM Specifications D 3998, Type II D 3991, Type II D 3992 and the requirements of ASTM D 3482.

All Prestique and Raised Profile shingles have appeared on the Florida Building Code, Commission, Miami-Dade County, ICBO, and Texas Department of Insurance.

*See actual limited warranty for conditions and restrictions.

**Minimum 10-year warranty. The entire year was covered. Sta-Bond™ treatment is included with all Elk Shingles. All Elk Starter Strip shingles are covered by the Sta-Bond™ treatment. All Elk Shingles are covered by the Sta-Bond™ treatment. All Elk Shingles are covered by the Sta-Bond™ treatment. All Elk Shingles are covered by the Sta-Bond™ treatment.

***For a complete list of approved contractors, please call Elk Field Service for application specifications. For more information, please call Elk Field Service for application specifications. For more information, please call Elk Field Service for application specifications.

SPECIFICATIONS

Roof Work includes furnishing all labor, materials and equipment necessary to complete installation of Elk 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.

Permanence or Run these roof deck to be dry, well-ventilated 1" x 6" (25.4mm x 152.4mm) boards, exterior-grade plywood (minimum 1 rated sheathing) at least 5/8" (15.9mm) thick conforming to the specifications of the American Plywood Association "208" (11.934mm) oriented strandboard or equivalent. 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 (101.6mm) and greater, apply non-punctured No. 15 or 30 asphalt-saturated felt underlayment. For low slopes, 4 per foot (101.6mm) and greater, apply non-punctured No. 15 or 30 asphalt-saturated felt underlayment. For low slopes, 4 per foot (101.6mm) and greater, apply non-punctured No. 15 or 30 asphalt-saturated felt underlayment. For low slopes, 4 per foot (101.6mm) and greater, apply non-punctured No. 15 or 30 asphalt-saturated felt underlayment.

For areas where algae is a problem, shingles shall be (name of Sta-Bond™ treatment), as manufactured by the Elk Sta-Bond™ plant. Hip and ridge type to be Seal-A-Ridge with formula FLX with Sta-Bond™ 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 by 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 areas, 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 CFI format, call 800.945.5545 (773) or e-mail specinfo@elkcorp.com.

**SOUTHEAST &
ATLANTIC OFFICE:**
800.945.5551

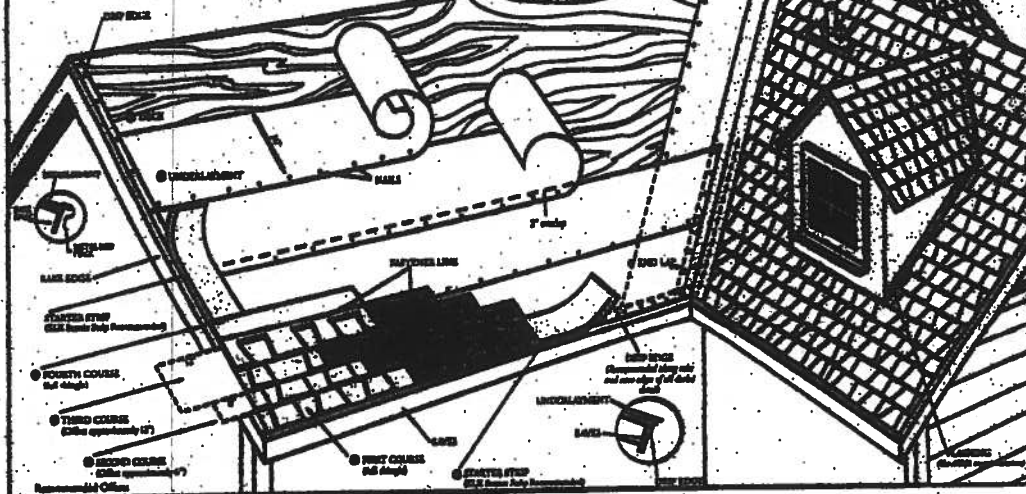
CORPORATE HEADQUARTERS:
800.954.7732

PLANT LOCATION:
800.945.5545

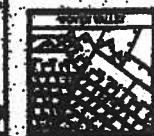
ELK®
The Premium Choice
www.elkcorp.com
SSORT 06/04

DIRECTIONS FOR APPLICATION

Read and carefully follow all instructions before use. Any other instructions on the product packaging (Typical instructions for illustration purposes only)



VALLEY CONSTRUCTION for open and closed valleys



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DIRECTIONS FOR APPLICATION

These application instructions are the minimum required for most ELK application requirements. Your failure to follow these instructions 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 be followed. Under no circumstances will ELK accept application requirements that are less than those stated here. Shingles should not be jammed tightly together. All edges should be properly installed. Note: It is not necessary to remove tape on back of shingles.

DECK PREPARATION

Roof decks should be dry, well-ventilated 1" x 6" boards or exterior grade plywood minimum 3/4" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or 7/16" chipboard.

UNDERLAYMENT

Apply underlayment (Duro-Fast-Flex No. 15 or 30 asphalt saturated felt, ELK VersaShield® or self-adhering underlayment is also acceptable). Cover drip edge at eaves only.

For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 18". Begin by fastening a 15" wide strip of underlayment placed along the eaves. Place a 36" x 36" wide sheet over the starter, horizontally placed, along the eaves and completely overlapping the starter strip.

NOTE: FLASHING FOR ROOF DRAINAGE IS REQUIRED. REFER TO AIAA MANUAL ON CHIMNEY CORNER.

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

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

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

STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR THE HEADLAP OF A SHINGLE SHIMBLE WITH THE ADHESIVE STRIP POSITIONED AT THE EAVE EDGE. With at least 2" extension from the end of the first shingle, start at the eave edge overlapping the eave and side edges 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side.

FIRST COURSE

Start at rakes and continue course with full shingles laid flush with the starter course. Shingles may be applied with a eave offset of 48" on the roof.

SECOND COURSE

Offset the second course of shingles with respect to the first by approximately 1". Other offsets are approved if greater than 4".

THIRD COURSE

Offset the third course by 1" with respect to the second course, or continue with the original offset.

FOURTH COURSE

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

FIFTH AND SUCCEEDING COURSES

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

VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturers Association (ARMA) recommended procedures. For metal valleys, use 36" wide vertical underlayment prior to applying metal flashing lap edge with metal. No nails are to be within 6" of valley center.

RIIDGE CONSTRUCTION

For ridge construction ELK recommends Class "A" 2" Kings or 2" x 4" Kings with female FLX or RidgeCap® with FLX (See ridge pinning for installation instructions). Vented RidgeCap or 2" x 4" shingles are also approved.

FASTENERS

While 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 board area. For shingles without a fastener line, nails or staples must be placed between nails in the common area.

NAILS: Corrosive resistant, 24" head, minimum 12-gauge roofing nails. ELK recommends 1-1/4" for new roofs and 1-1/2" for re-roofs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 24" ring-shank nails are allowed to be used from the eave's edge to a point up the roof that is just the outside wall line. 1" ring-shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 10/16". Note: An improperly adjusted staple gun can result in ridged staples that can cause a fish-mouthed appearance and can prevent sealing.

Fasteners should be long enough to obtain 24" deck penetration or penetration through deck, whichever is less. This product meets the requirements of the IRC 2003 code when fastened with 4 nails.

MAINTAINED APPLICATIONS

Correct fastening is critical to the performance of the roof. For slopes exceeding 12/12 for 24/12 use six fasteners per shingle. Loose fasteners in the fastener area 1" from each side edge with the remaining four fasteners evenly spaced along the length of the double thickness headboard area. Only fastening methods according to the above instructions are acceptable.

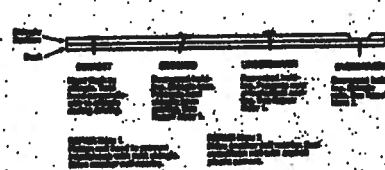
LIMITED WIND WARRANTY

For a Limited Wind Warranty, all Provisions and Related Provisions shingles must be applied with 4 properly placed fasteners, or in the case of eave applications, 6 properly placed fastener pair shingles.

For a Limited Wind Warranty up to 110 MPH for Provisions Gallery Collection or Provisions Plus or 95 MPH for Provisions I, shingles must be applied with 4 properly placed NAILS per shingle. SHIMBLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS LIMITED WIND WARRANTY. Also, ELK Starter Strip shingles must be applied at the eaves and rake edges to qualify Provisions Plus, Provisions Gallery Collection, and Provisions I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the ELK Shingles or the ELK Starter Strip overhang the eaves or rake edge more than 3/4" of an inch.

HELP STOP BLOW-UPS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (common) area of the shingle. Nails or staples must be placed along - and through - the "fastener line" or on products without fastener lines, nail or staple between and in line with eavelet dots. CAUTION: Do not use fastener line for shingle alignment.



Refer to local codes which in some areas may require specific application techniques beyond those ELK has specified. All Provisions and Related Provisions shingles have a UL-181 Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs or with no new construction.

CAUTION TO WHOLESALE Distributors and Installer: Keep these shingles completely covered, dry, reasonably clean, and protected from the weather. Do not store near volatile sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Randomly select units off stack or that the material that has been stored the longest will be the first to be loaded out.

ELK
The Premium Choice
www.elkcorp.com

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Victorian

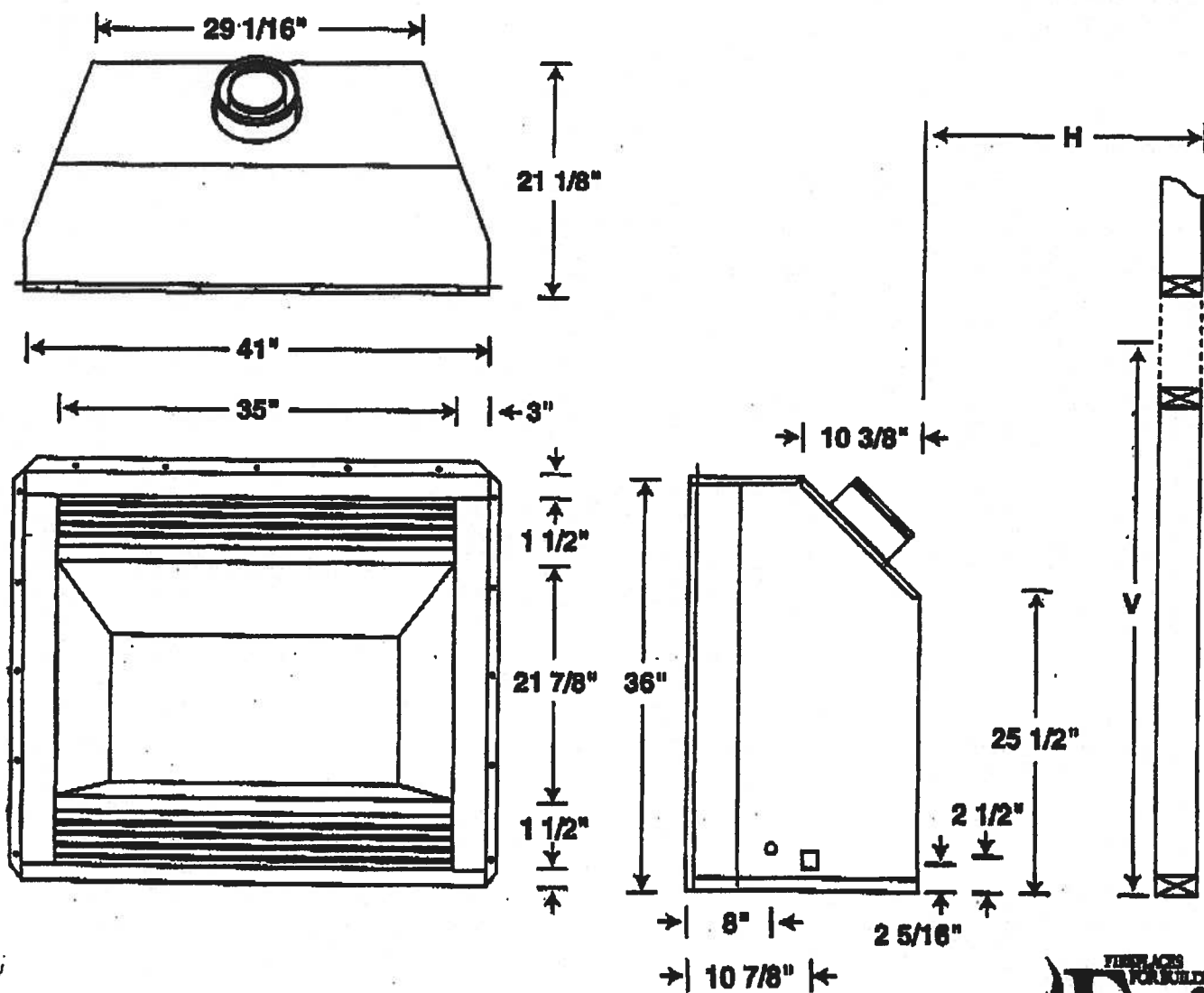
36" Direct Vent Fireplace (5" - 8" Vent Pipe)

Typ. Ground Floor Installation
(1 - 45° Elbow)

Horiz. Run (H)	Lin. Height (V)	Required Vent Pipe
17" max.	36"	12" max.

Installations requiring a 45°
and 90° Elbow

Horiz. Run (H)	Lin. Height (V)	Required Vent Pipe
30" max.	47 1/4"	none
48" max.	57 1/4"	12"
60" max.	69 1/4"	24"
84" max.	81 1/4"	36"
144" max.	93 1/4"	48"



FINISH YOUR
FIREPLACE
Fmi

Timeless Beauty— And The Latest Technologies

FMI's Victorian direct vent gas fireplaces are the ideal match for today's energy-efficient homes. The Victorian is the centerpiece of our exciting new Renaissance Series, which offers a consistent look, sizing, and construction across the entire line... plus beautiful new features homeowners will love!

Homeowner Highlights:

- **Distinctive looks**—Features random flame pattern and realistic glowing ember bed burner... plus exquisite new split oak ceramic fiber logs.
- **Operation and maintenance** are a breeze—Operates from wall switch or remote control. Hinged glass door swings open for easy maintenance and never needs adjustment.
- **Attractive accessories**—You have an array of eye-catching extras, including brass or platinum louvers and trim, realistic textured brick liner kits, and much more.

Builder Benefits:

- **Secure, straight installation**—We've added full-length nailing flanges, and drywall stops.
- **Venting options**—Our 45° slant back design lets you choose between horizontal and vertical venting for painless installation. Your choice of hard or flexible venting.
- **More standard features**—Flex gas connector, shut-off valve and pre-wired "J" box are all standard.

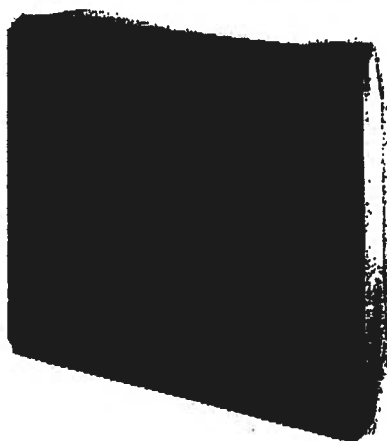


DESA International
www.desaint.com
For more information, call (800) 888-2050

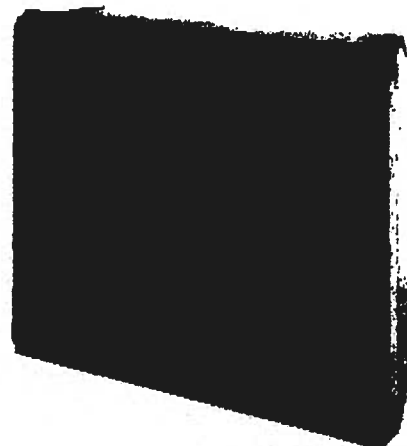
THE RENAISSANCE SERIES

Victorian

36" AND 42" DIRECT VENT GAS FIREPLACES
Model V36 and V42



V36N features black rolled louvers.



V42N features black rolled louvers and textured herringbone brick-lined interior.

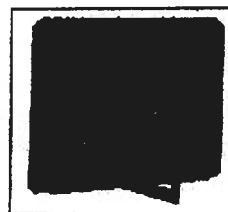
Victorian Direct Vent Fireplace Product Offering Summary

36" & 42" Direct Vent Fireplace Models Available With The Following:

- Millivolt Or Electronic Ignition
- Natural Or Propane Fuel
- Black, Standard Brick, And Herringbone Pattern Refractory Brick Interiors
- All fireplaces use 3" - 8" pipe. 36" models @ 32,000 Btu/42" models @ 35,000 Btu.



Victorian models offer random, tiered flame patterns and gorgeous glowing ember bed burners.

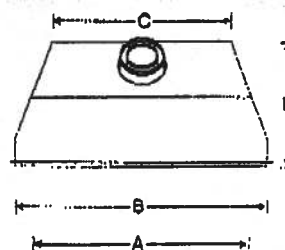


Hinged, tool-less entry door swings open for easy maintenance.

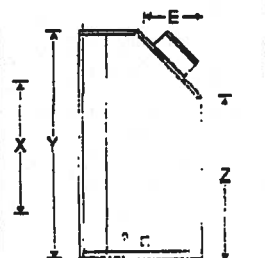
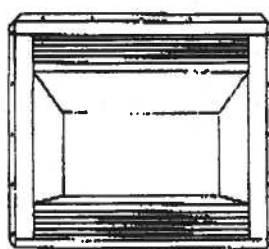
Accessory Offering Summary

- Smooth Face, Stamped Steel and Rolled Black Louver Panels
- Louver Trim (Brushed Brass & Platinum)
- Perimeter Trim Kits (Black, Brushed Brass & Platinum)
- Standard & Herringbone Refractory Brick Liners
- Remote Control Kits
- Fan Kits
- Deflection Hoods

Dimensions



	36"	42"
A	35	42
B	41	48
C	29	36
D	21 1/8	23 1/8
E	10 1/2	12 1/2
X	21 3/4	25 3/4
Y	38	40
Z	25 1/2	28 1/2



DESA
INTERNATIONAL



HEARTH
PRODUCTS
ASSOCIATION



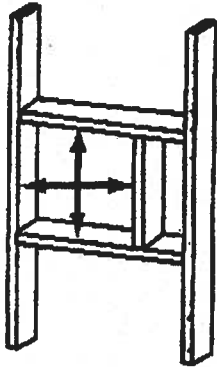
Made in USA

Victorian

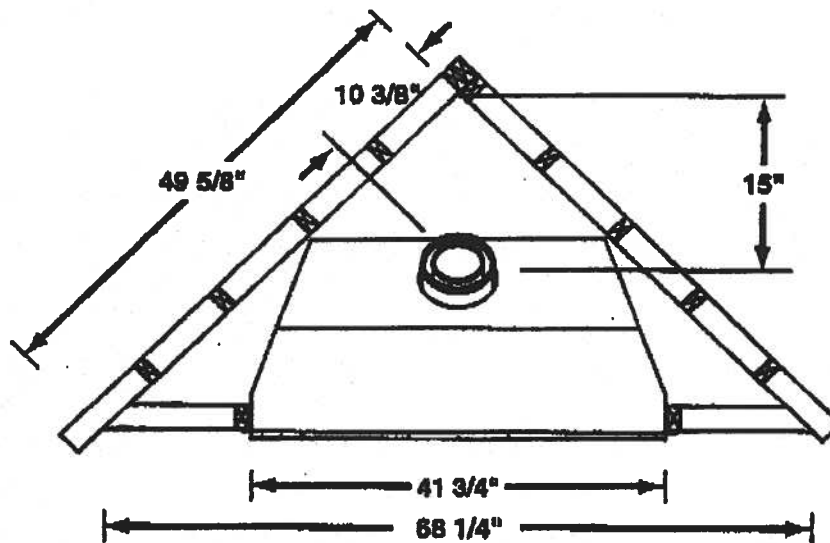
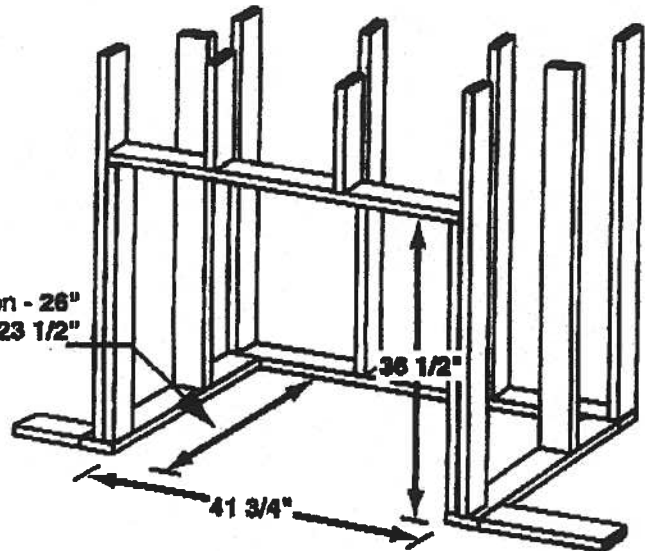
36" Direct Vent Fireplace

Framing Dimensions

Vent Opening - 10 3/4" Square (I.D.)



Vertical Termination - 26"
Horizontal Termination - 23 1/2"



NOTE:

Built-in Features Such as Mantels, Bookshelves, etc. Made of Combustible Materials Must Maintain Minimum Clearances from the Fireplace. See Installation Instructions for Complete Information



THE UNIVERSITY OF CHICAGO

Overview	User Organization Registration	User Application	Organization Search	Organization Accreditation

Select the organization type, status, or name to find an organization.

Organization

Type:

Product Manufacturer



Approved
Status: (ALL)

Organization
Name: General American Door - Product Manufacturers

Contest

Search

Research List for Organizations

Displaying 1-1 of 1

Name	City	Contact	Phone	Type	Expiry	Status
General America	Moscow	Irene Campbell	6503970000	Product Manufacturer	04/01/2009	Approved
Date:						
Org Code: PDM	System ID: 3585		Site Link: http://get3.com			

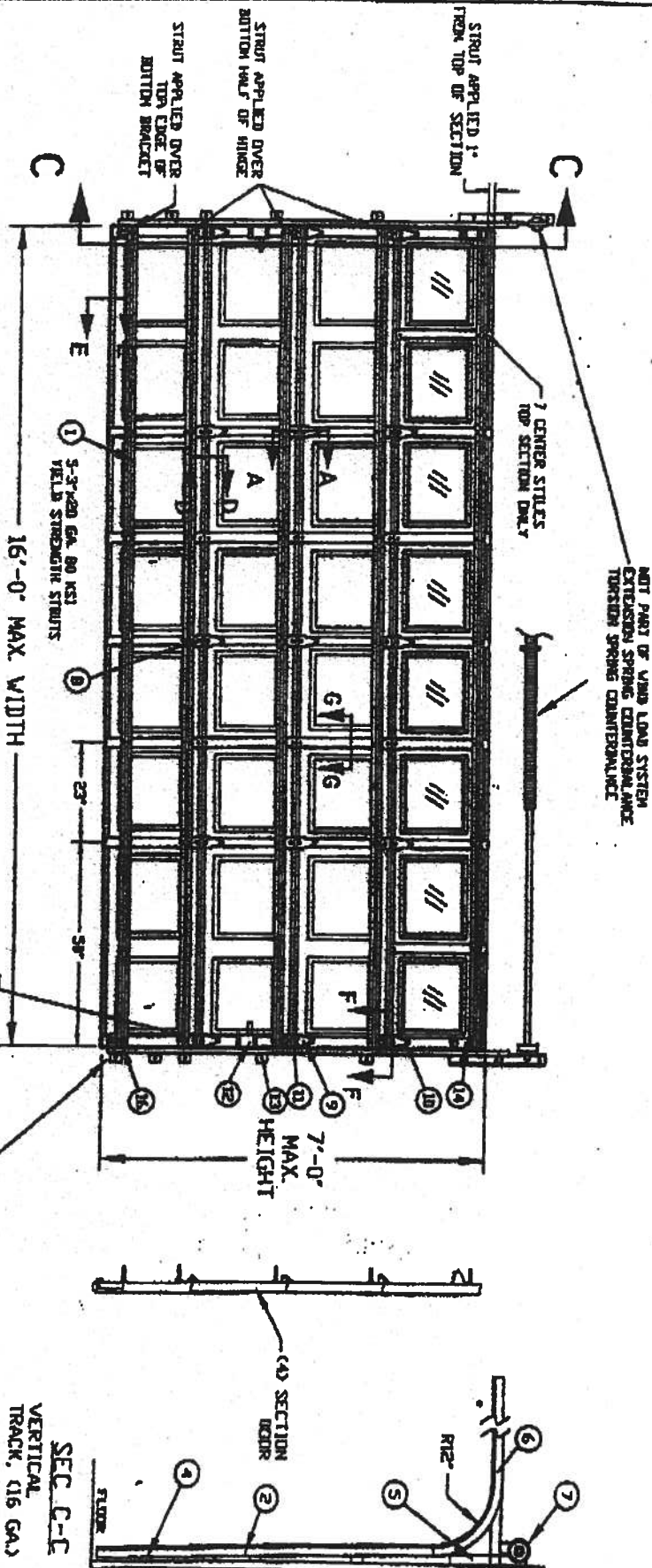
Dispositivo L-1 del 1

[illegible]

http://www.floridabuilding.org/Common/c_ag_regi_SACI.asp

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 20 PSF TEST PRESSURES FOR ASH E-1100
2. MAXIMUM SECTION HEIGHT: 21'
3. SECTION HEIGHTS OF 21' AND 19' ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS RISE HEIGHTS.
4. VARIOUS MAY BE INSTALLED IN THE TOP SECTION AS TESTED WITH 1/4" OR 3/8" GLASS OR EQUIVALENT OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MAXIMUM LENGTH OF ROLLER TRACK IS 24' OR AS TESTED
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE RISE SLOPE.
7. STRUTS SECURED AT ALL LOCATIONS WITH TOP SCREW.
8. QUANTITY OF SINE LOADS CAN BE 0, 1, OR 2 AS TESTED.
9. GROUP BY TYPE OF APPLICATION IS OPTIONAL.

**INSIDE ELEVATION**

16'-0" MAX WIDTH

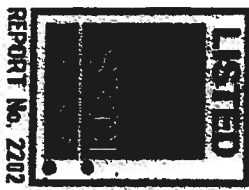
ALL ROLLER CARRIERS AND HINGES ARE 14 GA.

12 GA. JAMB BRACKETS, MAXIMUM SPACING = 19-1/2" WITH LARGEST BRACKET APPROX. 3" FROM FLUR, 2ND BRACKET NEAR THE HORIZONTAL & OF THE BOTTOM SECTION, AND 3RD BRACKET NEAR THE TIP OF THE BOTTOM SECTION.

SEC. C-C

VERTICAL TRACK, (16 GA.)

DESIGN LOAD +200 PSF & -200 PSF
TEST LOAD +300 PSF & -300 PSF



REPORT NO. 2202

GATED DOORS					
SERIES 7400, EXTERIOR STEEL - 017 MIN G.S. TESTED					
SERIES 7405, EXTERIOR STEEL - 017 MIN G.S. TESTED					
SERIES 7500, EXTERIOR STEEL - 024 MIN G.S. TESTED					
TESTED WITH WINDOWS					
MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS TO ESI	VERTICAL TRACK	
16'	7'	23"	3"	5	2 IN.

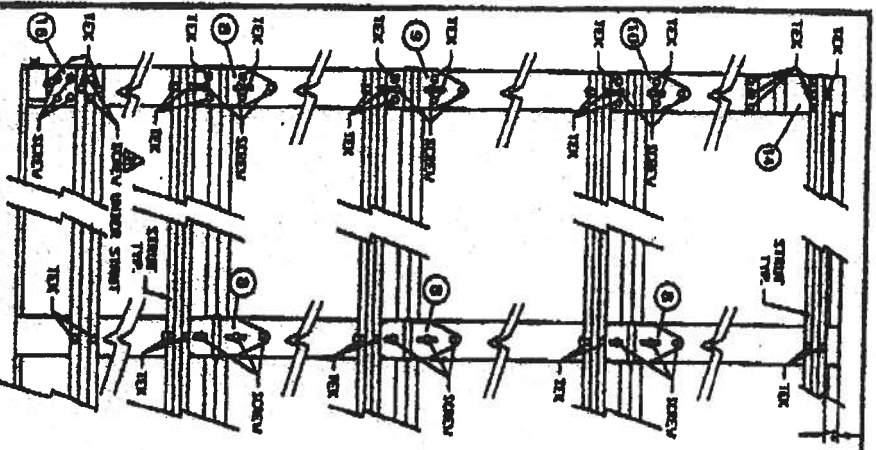
		FEDERAL AMERICAN DOOR COMPANY 5050 BASSEL ROAD MONTICELLO, IL 60538	
DESIGN LOAD	APPROVED BY		
POST: 11-20-00			
REVISIONS			
16' X 7' MAX. RAISED PANEL STEEL DOOR - WINDLOAD 150 PSF		DESIGNED BY: B. VICKI	
DATE: 11-20-00		REVISION: (A) 11-20-00	
PAGE 1 OF 2		DRAWING NUMBER: V13220-1	

The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s) of the door as tested.

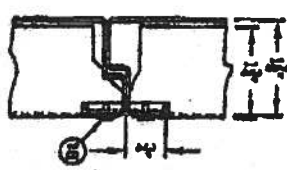
SEAL
PE No. 024280

NORTH CAROLINA
PROFESSIONAL

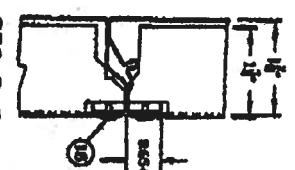
FASTENER ARRANGEMENT



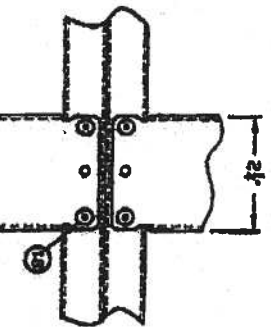
SEC. D-D
P.M. ATTACHMENT
TO STILE
AS TESTED



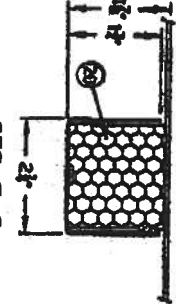
SEC. D-D
P.M. ATTACHMENT
TO STILE
(OPTIONAL)



SEC. G-G
P.M. ATTACHMENT
TO STILE



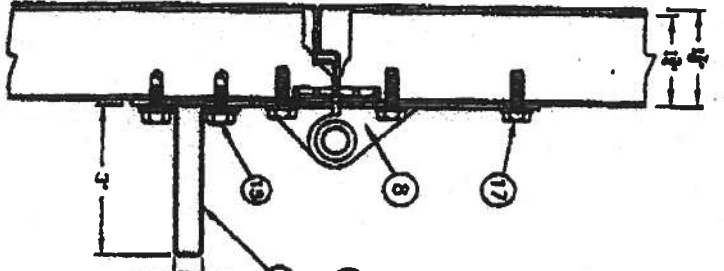
SEC. G-G
CENTER STILE
20 GA. GALVANIZED



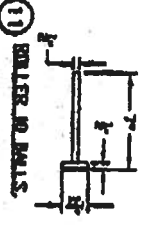
REPORT No. 2202



SEC. A-A



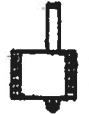
5-3/8" GA. OR BETT FIELD
STRENGTH REINFORCED
STIFFENED WITH
2 REX SCREWS PER JOIST
OR STILE LOCATION
Q4 PER STRUT, MINIMUM



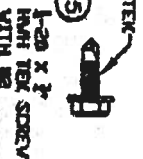
TRUCK
IS GA. CROSS MEMB



12 SIDE LATCH

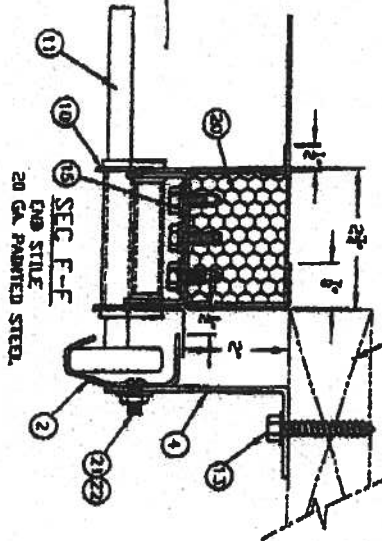


4 1/4" x 1/2" BRACKET



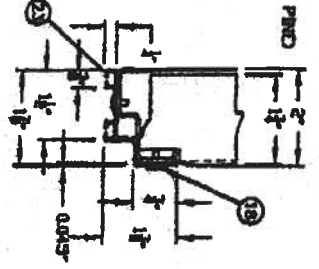
1-20 x 3/4"
NATH REX SCREW
WITH NO
REDUCED POINT

2x6 PRESSURE TREATED LUMBER
GRADE #2 OR BETTER SOUTHERN PINE



SEC. F-F
20 GA. PAINTED STEEL

SEC. E-E



GREEN AMERICAN DOOR COMPANY
2020 BASEL DR. FARM
MONTGOMERY, AL 36106

DATE	REVISION	BY	CHKD
11-1-03	1	W. J. WILSON	W. J. WILSON
11-1-03	2	W. J. WILSON	W. J. WILSON

Residential System Sizing Calculation

Summary

Travis & Jamie Melgard

Lake City, FL 32025-

Project Title:
Cady Homes - Melgard

Code Only
Professional Version
Climate: North

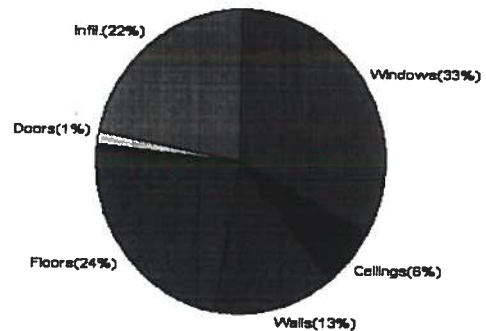
10/2/2006

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	40855 Btuh	Total cooling load calculation	42277 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	119.9 49000	Sensible (SHR = 0.75)	107.8 36750
Heat Pump + Auxiliary(0.0kW)	119.9 49000	Latent	149.8 12250
		Total (Electric Heat Pump)	115.9 49000

WINTER CALCULATIONS

Winter Heating Load (for 2046 sqft)

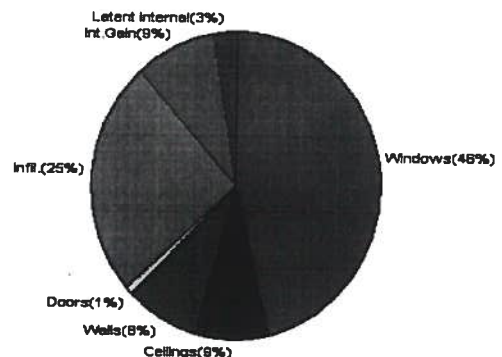
Load component		Load
Window total	287 sqft	13500 Btuh
Wall total	1673 sqft	5493 Btuh
Door total	40 sqft	518 Btuh
Ceiling total	2200 sqft	2592 Btuh
Floor total	227 sqft	9911 Btuh
Infiltration	218 cfm	8840 Btuh
Duct loss		0 Btuh
Subtotal		40855 Btuh
Ventilation	0 cfm	0 Btuh
TOTAL HEAT LOSS		40855 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2046 sqft)

Load component		Load
Window total	287 sqft	19343 Btuh
Wall total	1673 sqft	3385 Btuh
Door total	40 sqft	392 Btuh
Ceiling total	2200 sqft	3643 Btuh
Floor total		0 Btuh
Infiltration	191 cfm	3554 Btuh
Internal gain		3780 Btuh
Duct gain		0 Btuh
Sens. Ventilation	0 cfm	0 Btuh
Total sensible gain		34098 Btuh
Latent gain(ducts)		0 Btuh
Latent gain(infiltration)		6979 Btuh
Latent gain(ventilation)		0 Btuh
Latent gain(internal/occupants/other)		1200 Btuh
Total latent gain		8179 Btuh
TOTAL HEAT GAIN		42277 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: [Signature]

DATE: 10-2-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Travis & Jamie Melgard

Project Title:
Cady Homes - Melgard

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

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

10/2/2006

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
2	1, Clear, Metal, 1.27	N	36.0	47.0	1692 Btuh
3	1, Clear, Metal, 1.27	N	18.0	47.0	846 Btuh
4	1, Clear, Metal, 1.27	W	14.0	47.0	658 Btuh
5	1, Clear, Metal, 1.27	NW	21.0	47.0	987 Btuh
6	1, Clear, Metal, 1.27	N	20.0	47.0	940 Btuh
7	1, Clear, Metal, 1.27	W	42.0	47.0	1974 Btuh
8	1, Clear, Metal, 1.27	N	6.0	47.0	282 Btuh
9	1, Clear, Metal, 1.27	E	15.0	47.0	705 Btuh
10	1, Clear, Metal, 1.27	E	13.3	47.0	625 Btuh
11	1, Clear, Metal, 1.27	E	36.0	47.0	1692 Btuh
12	1, Clear, Metal, 1.27	S	16.0	47.0	752 Btuh
13	1, Clear, Metal, 1.27	S	20.0	47.0	940 Btuh
Window Total			287(sqft)		13500 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1493	3.3	4902 Btuh
2	Frame - Wood - Adj(0.09)	13.0	180	3.3	591 Btuh
Wall Total			1673		5493 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
Door Total			40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2200	1.2	2592 Btuh
Ceiling Total			2200		2592Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	227.0 ft(p)	43.7	9911 Btuh
Floor Total			227		9911 Btuh
Zone Envelope Subtotal:					32015 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.80	16368	218.2	8840 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				40855 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Travis & Jamie Melgard

Project Title:
Cady Homes - Melgard

Lake City, FL 32025-

Code Only
Professional Version
Climate: North

WHOLE HOUSE TOTALS

10/2/2006

	Subtotal Sensible	40855 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	40855 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

Travis & Jamie Melgard

Project Title:
Cady Homes - Melgard

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

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

10/2/2006

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	1, Clear, Metal, 1.27	W	30.0		47.0	1410 Btuh
2	1, Clear, Metal, 1.27	N	36.0		47.0	1692 Btuh
3	1, Clear, Metal, 1.27	N	18.0		47.0	846 Btuh
4	1, Clear, Metal, 1.27	W	14.0		47.0	658 Btuh
5	1, Clear, Metal, 1.27	NW	21.0		47.0	987 Btuh
6	1, Clear, Metal, 1.27	N	20.0		47.0	940 Btuh
7	1, Clear, Metal, 1.27	W	42.0		47.0	1974 Btuh
8	1, Clear, Metal, 1.27	N	6.0		47.0	282 Btuh
9	1, Clear, Metal, 1.27	E	15.0		47.0	705 Btuh
10	1, Clear, Metal, 1.27	E	13.3		47.0	625 Btuh
11	1, Clear, Metal, 1.27	E	36.0		47.0	1692 Btuh
12	1, Clear, Metal, 1.27	S	16.0		47.0	752 Btuh
13	1, Clear, Metal, 1.27	S	20.0		47.0	940 Btuh
Window Total			287(sqft)			13500 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1493		3.3	4902 Btuh
2	Frame - Wood - Adj(0.09)	13.0	180		3.3	591 Btuh
Wall Total			1673			5493 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Adjacent		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
Door Total			40			518Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2200		1.2	2592 Btuh
Ceiling Total			2200			2592Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	227.0	ft(p)	43.7	9911 Btuh
Floor Total			227			9911 Btuh
	Zone Envelope Subtotal:					32015 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		Load
	Natural	0.80	16368	218.2		8840 Btuh
Ductload	Proposed leak free, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					40855 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Travis & Jamie Melgard

Project Title:
Cady Homes - Melgard

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

10/2/2006

WHOLE HOUSE TOTALS

	Subtotal Sensible	40855 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	40855 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

Travis & Jamie Melgard

Project Title:
Cady Homes - Melgard

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

10/2/2006

Component Loads for Whole House

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	30.0	0.0	30.0	37	94	2821	Btuh	
2	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	36.0	0.0	36.0	37	37	1348	Btuh	
3	1, Clear, 1.27, None,N,N	N	16.5f	10ft.	18.0	0.0	18.0	37	37	674	Btuh	
4	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	14.0	0.0	14.0	37	94	1317	Btuh	
5	1, Clear, 1.27, None,N,N	NW	12.5f	10ft.	21.0	0.0	21.0	37	72	1517	Btuh	
6	1, Clear, 1.27, None,N,N	N	10.5f	10ft.	20.0	0.0	20.0	37	37	749	Btuh	
7	1, Clear, 1.27, None,N,N	W	15.5f	10ft.	42.0	42.0	0.0	37	94	1573	Btuh	
8	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	6.0	0.0	6.0	37	37	225	Btuh	
9	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	37	94	1411	Btuh	
10	1, Clear, 1.27, None,N,N	E	9ft.	10ft.	13.3	8.3	5.0	37	94	784	Btuh	
11	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	36.0	0.0	36.0	37	94	3386	Btuh	
12	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	16.0	16.0	0.0	37	43	599	Btuh	
13	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	20.0	20.0	0.0	37	43	749	Btuh	
	Excursion									2191	Btuh	
	Window Total				287 (sqft)					19343 Btuh		
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext		13.0/0.09		1492.7			2.1		3114 Btuh		
2	Frame - Wood - Adj		13.0/0.09		180.0			1.5		272 Btuh		
	Wall Total				1673 (sqft)					3385 Btuh		
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Adjacent				20.0			9.8		196 Btuh		
2	Insulated - Exterior				20.0			9.8		196 Btuh		
	Door Total				40 (sqft)					392 Btuh		
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle		30.0		2200.0			1.7		3643 Btuh		
	Ceiling Total				2200 (sqft)					3643 Btuh		
Floors	Type		R-Value		Size			HTM		Load		
1	Slab On Grade		0.0		227 (ft(p))			0.0		0 Btuh		
	Floor Total				227.0 (sqft)					0 Btuh		
	Zone Envelope Subtotal:									26764 Btuh		
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural		0.70		16368			191.0		3554 Btuh		
Internal gain			Occupants		Btuh/occupant			Appliance		Load		
			6		X 230 +			2400		3780 Btuh		
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)								DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									34098 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Travis & Jamie Melgard

Project Title:
Cady Homes - Melgard

Lake City, FL 32025-

Code Only
Professional Version
Climate: North

10/2/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	34098 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	34098 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	34098 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	6979 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	8179 Btuh
	TOTAL GAIN	42277 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

Travis & Jamie Melgard

Project Title:
Cady Homes - Melgard

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 17.0 F

10/2/2006

Component Loads for Zone #1: Main

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	30.0	0.0	30.0	37	94	2821	Btuh
2	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	36.0	0.0	36.0	37	37	1348	Btuh
3	1, Clear, 1.27, None,N,N	N	16.5f	10ft.	18.0	0.0	18.0	37	37	674	Btuh
4	1, Clear, 1.27, None,N,N	W	1.5ft	10ft.	14.0	0.0	14.0	37	94	1317	Btuh
5	1, Clear, 1.27, None,N,N	NW	12.5f	10ft.	21.0	0.0	21.0	37	72	1517	Btuh
6	1, Clear, 1.27, None,N,N	N	10.5f	10ft.	20.0	0.0	20.0	37	37	749	Btuh
7	1, Clear, 1.27, None,N,N	W	15.5f	10ft.	42.0	42.0	0.0	37	94	1573	Btuh
8	1, Clear, 1.27, None,N,N	N	1.5ft	8ft.	6.0	0.0	6.0	37	37	225	Btuh
9	1, Clear, 1.27, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	37	94	1411	Btuh
10	1, Clear, 1.27, None,N,N	E	9ft.	10ft.	13.3	8.3	5.0	37	94	784	Btuh
11	1, Clear, 1.27, None,N,N	E	1.5ft	10ft.	36.0	0.0	36.0	37	94	3386	Btuh
12	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	16.0	16.0	0.0	37	43	599	Btuh
13	1, Clear, 1.27, None,N,N	S	1.5ft	8ft.	20.0	20.0	0.0	37	43	749	Btuh
Excursion										2191	Btuh
Window Total					287 (sqft)					19343 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1492.7			2.1		3114 Btuh	
2	Frame - Wood - Adj	13.0/0.09			180.0			1.5		272 Btuh	
Wall Total					1673 (sqft)					3385 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Adjacent				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total					40 (sqft)					392 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			2200.0			1.7		3643 Btuh	
Ceiling Total					2200 (sqft)					3643 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			227 (ft(p))			0.0		0 Btuh	
Floor Total					227.0 (sqft)					0 Btuh	
Zone Envelope Subtotal:										26764 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.70			16368			191.0		3554 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	6			X 230			2400		3780 Btuh		
Duct load	Proposed leak free, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										34098 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Travis & Jamie Melgard

Project Title:
Cady Homes - Melgard

Code Only
Professional Version
Climate: North

Lake City, FL 32025-

10/2/2006

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	34098 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	34098 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	34098 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	6979 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	8179 Btuh
	TOTAL GAIN	42277 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))

(Omt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Travis & Jamie Melgard

Project Title:
Cady Homes - Melgard

Code Only
Professional Version
Climate: North

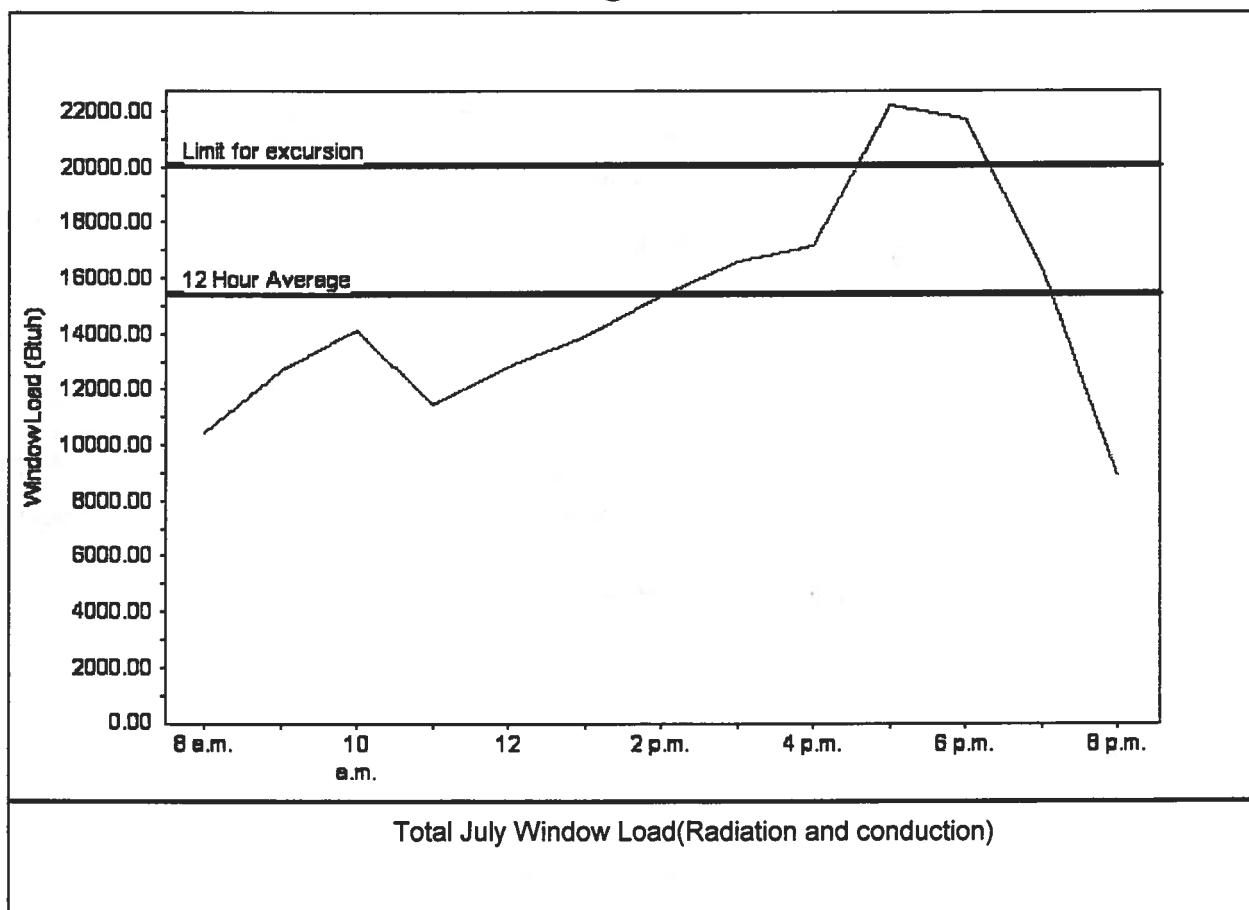
Lake City, FL 32025-

10/2/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	15411 Btu
Summer setpoint	75 F	Peak window load for July	22225 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	20034 Btu
Latitude	29 North	Window excursion (July)	2191 Btuh

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: _____

DATE: _____

EnergyGauge® FLRCPB v4.1

