Columbia County Building Permit Application

ck 2764

For Office Use Only Application # 0711-70 Date Received 11/28/07 By CH Permit # 26477

Zoning Official BLK Date 12.12.07 Flood Zone X FEMA Map # _____ Zoning A-3

Land Use A-3 Elevation _____ MFE _____ River _____ Plans Examiner BK SH Date 12-3-07

Comments Existing is going to be removed per owner. See ATTached review letter SH 12-3-07

☑ NOC ☑ EH ☑ Deed or PA ☑ Site Plan ☑ State Road Info ☐ Parent Parcel # _____

☐ Dev Permit # _____ ☐ In Floodway ☐ Letter of Authorization from Contractor

☐ Unincorporated area ☐ Incorporated area ☐ Town of Fort White ☐ Town of Fort White Compliance letter

Fax _____

Name Authorized Person Signing Permit Walter & Jennifer Daniels Phone 386-365-8032

Address 1069 SW Jim Ward St. Ft. White, FL 32038

Owners Name Walter & Jennifer Daniels Phone 386-365-8032

911 Address 1069 SW Jim Ward St. Ft. White, FL 32038

Contractors Name Owner / Walter & Jennifer Daniels Phone 386-365-8032

Address 1069 SW Jim Ward St. Ft. White, FL 32038

Fee Simple Owner Name & Address Walter & Jennifer Daniels 1069 SW Jim Ward St. Ft. White, FL 32038

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Mark Disosway, PE P.O. Box 868 Lake City, FL 32056

Mortgage Lenders Name & Address N/A

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

Property ID Number 17-6S-17-09690-003 Estimated Cost of Construction 290,000.00

Subdivision Name _____ Lot ____ Block ____ Unit ____ Phase ____

Driving Directions Tustenuggee Road South approximately ten miles, TL on Jim Ward Road TL 200 yards at 1069. Site at back of property.

Number of Existing Dwellings on Property 1 to be removed

Construction of New Home SFD Total Acreage 15.0 Acres Lot Size _____

Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive) Total Building Height 22' 2"

Actual Distance of Structure from Property Lines - Front 1000+ Side 200 Side 200 Rear 215

Number of Stories 1.5 Heated Floor Area 2905 Total Heated Floor Area 2905 sq. ft. Roof Pitch 9/12

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

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

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

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

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

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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Jennifer L. Daniels Walter E Daniels

Owners Signature

Affirmed under penalty of perjury to by the Owner and subscribed before me this 28 **day of** Nov **20**07.

Personally known X **or Produced Identification** _____

Tracy L. Storms

State of Florida Notary Signature (For the Owner)

SEAL:

NOTARY PUBLIC-STATE OF FLORIDA
Tracy L. Storms
Commission # DD386376
Expires: JAN. 06, 2008
Bonded Thru Atlantic Bonding Co., Inc.

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

_____
Contractor's Signature (Permitee)

Contractor's License Number _____
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this ____ **day of** _____ **20**___.

Personally known _____ **or Produced Identification** _____

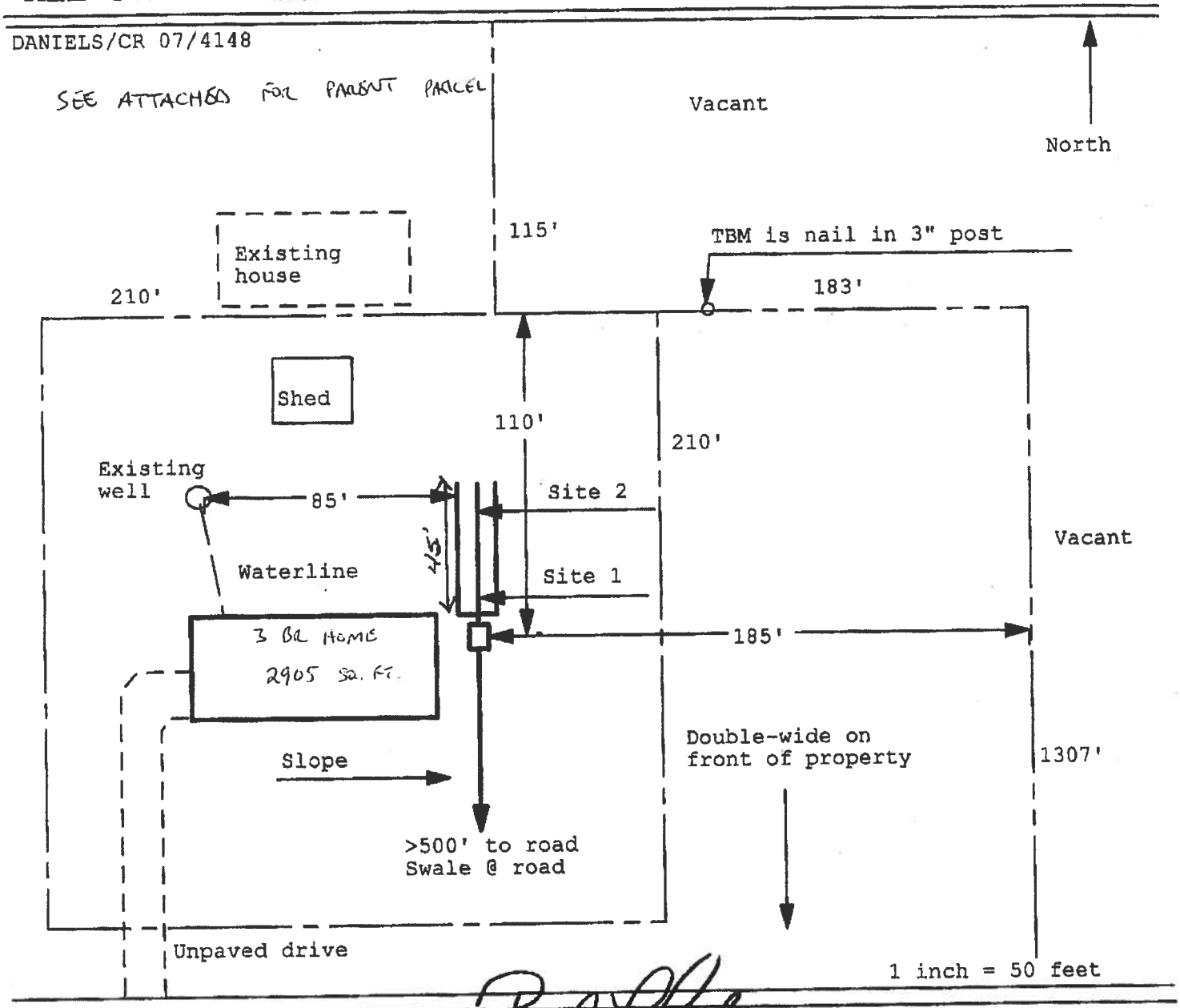
_____ **SEAL:**

State of Florida Notary Signature (For the Contractor)

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

Permit Application Number: 07-0921

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul Floyd Date 11/1/07

Plan Approved X Not Approved ____ Date 12/3/7

By [signature] APPROVED Columbia CHD CPHU

Notes: _____

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: 0711-70

Applicant Walter & Jennifer Daniels, Owner /Builders
Property: ID# 17-6s-17-09690-003

On the date of December 3, 2007 application 0711-70 and plans for construction of a single family dwelling were reviewed. 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 0711-70 and when making reference to this application.

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

1. The Florida Residential Building Code section R309.2 requires that 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.

(Over)

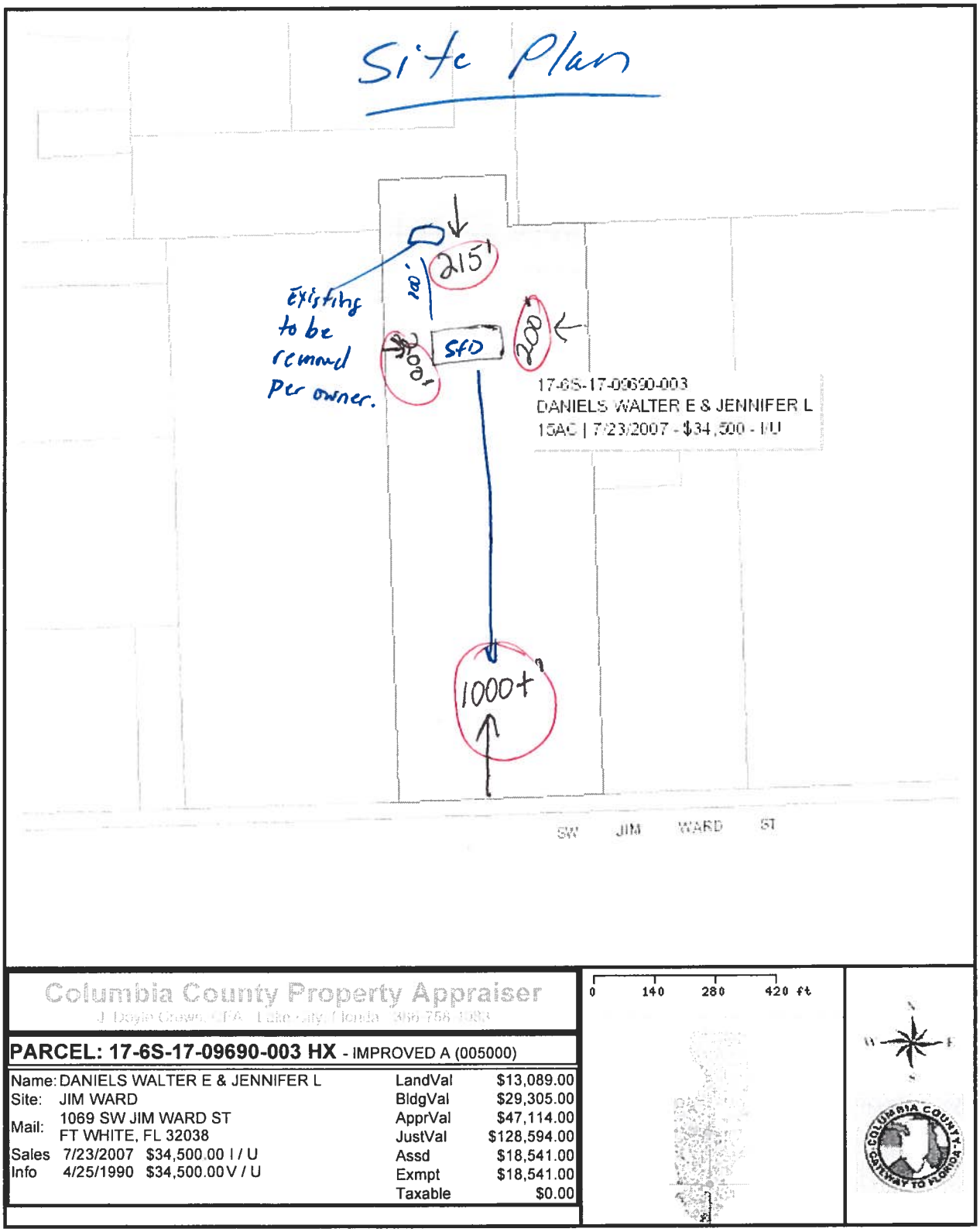
Please provide the separation between the garage and the second story habitable space.

2. The Florida Residential Building Code section R309.1 requires 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. Please install an entry door from the garage into the dwelling area which will comply with section R309.1.
3. The second story bonus area shows several rooms which could be used as bedrooms. To be in compliance with the Florida Residential Building Code section R310.1 emergency escape and rescue. Each sleeping room shall have at least one openable emergency escape and rescue opening. All second story emergency escape and rescue openings shall have a minimum net clear opening of 5.7 square feet with a minimum net clear opening height shall be 24 inches and a minimum net clear opening width shall be 20 inches.
4. While constructing the stair shown on the plans please refer to section R311 of the Florida Residential Building Code which regulates construction of stairways.
5. Please refer to section R313 of the Florida Residential Building Code which requires the installation of smoke alarms. Smoke alarms shall be installed in the following locations: In each sleeping room, outside each separate sleeping area in the immediate vicinity of the bedrooms.

   When more than one smoke alarm is required to be installed within an individual dwelling unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. The alarm shall be clearly audible in all bedrooms over background noise levels with all intervening doors closed. All smoke alarms shall be listed and installed in accordance with the provisions of this code and the household fire warning equipment provisions of NFPA 72.
6. On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Also include the total amperage rating of the overcurrent protection device.

Thank You:

Joe Haltiwanger
Plan Examiner
Columbia County Building Department



Columbia County Property Appraiser

J. Doyle Crawford, CFA Lake City, Florida (386) 758-1083

PARCEL: 17-6S-17-09690-003 HX - IMPROVED A (005000)

Name:	DANIELS WALTER E & JENNIFER L	LandVal	$13,089.00
Site:	JIM WARD	BldgVal	$29,305.00
Mail:	1069 SW JIM WARD ST FT WHITE, FL 32038	ApprVal	$47,114.00
		JustVal	$128,594.00
Sales	7/23/2007 $34,500.00 I / U	Assd	$18,541.00
Info	4/25/1990 $34,500.00 V / U	Exmpt	$18,541.00
		Taxable	$0.00

This information, GIS Map Updated: 11/15/2007, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

COLUMBIA COUNTY BUILDING DEPARTMENT
135 NE Hernando Ave.. Suite B-21
Lake City, FL 32055
Office: 386-758-1008 Fax: 386-758-2160

NOTARIZED DISCLOSURE STATEMENT
FOR OWNER/BUILDER WHEN ACTING AS THER OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved for yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F .I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.
I understand that if I am not physically doing the work or physically supervising free labor from friends or relatives, that I must hire licensed contractors, i.e. electrician, plumber, mechanical (heating & air conditioning), etc. I further understand that the violation of not physically doing the work, and the use of unlicensed contractors at the construction site, will cause the project to be shut down by the inspection staff of the Columbia County Building Department. Additionally, state statutes allows for additional penalties. I also understand that if this violation does occur, that in order for the job to proceed, I will have a licensed contractor come in and obtain a new permit as taking the job over. I understand that if I hire subcontractors under a contract price, that they must be licensed to work in Columbia County, i.e. masonry, drywall, carpentry. Contractors licensed by the Columbia County Contractor Licensing Section or the State of Florida are required to have worker's compensation and liability coverage.

TYPE OF CONSTRUCTION

(X) Single Family Dwelling ( ) Two-Family Residence ( ) Farm Outbuilding
( ) Other_____ ( ) Addition, Alteration, Modification or other Improvement

I Jennifer L. Daniels, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number _____

LAURIE HODSON
MY COMMISSION # DD 333503
EXPIRES: June 28, 2008
Bonded Thru Notary Public Underwriters

Jennifer L. Daniels 11/29/07
Owner Builder Signature Date

FLORIDA NOTARY
The above signer is personally known to me or produced identification FL DL
Notary Signature Laurie Hodson Date 11/28/07

FOR BUILDING DEPARTMENT USE ONLY
I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7). Date 11/29/07 Building Official/Representative _____

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 17-6S-17-09690-003

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

1. Description of property *(legal description)*: Section-17 | Township-6S | Range-17 | Parcel-09690-003
   a) Street *(job)* Address: 1069 SW Jim Ward St. Ft. White, FL
2. General description of improvements: New Home Construction

3. Owner Information
   a) Name and address: Walter & Jennifer Daniels
   b) Name and address of fee simple titleholder (if other than owner) _____
   c) Interest in property _____
4. Contractor Information
   a) Name and address: Owner - Walter & Jennifer Daniels 1069 SW Jim Ward St. Ft. White, FL 32038
   b) Telephone No.: 386-365-8032 Fax No. (Opt.) _____
5. Surety Information
   a) Name and address: _____
   b) Amount of Bond: _____
   c) Telephone No.: _____
6 Lender Cash
   a) Name and address: _____
   b) Phone No. _____

Inst:200712026359 Date:11/29/2007 Time:12:03 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 1

7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address: _____
   b) Telephone No.: _____ Fax No. (Opt.) _____

8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b). Florida Statutes:
   a) Name and address: _____
   b) Telephone No.: _____ Fax No. (Opt.) _____

9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified)**: _____

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

STATE OF FLORIDA
COUNTY OF COLUMBIA

10 Jennifer L. Daniels Walter E Daniels
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

Jennifer L. Daniels, Walter E. Daniels
Print Name

The foregoing instrument was acknowledged before me , a Florida Notary, this 28 day of November, 20 07, by:
Jennifer Daniels, Walter Daniels as owners **(type of authority, e.g. officer, trustee, attorney fact)** for Jennifer Daniels & Walter Daniels **(name of party on behalf of whom instrument was executed).**

Personally Known X OR Produced Identification ____ Type _____

Notary Signature Tracy L. Storms Notary Stamp or Seal:

NOTARY PUBLIC-STATE OF FLORIDA
Tracy L. Storms
Commission # DD386376
Expires: JAN. 06, 2008
Bonded Thru Atlantic Bonding Co., Inc.

—AND—

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

Jennifer L. Daniels Walter E Daniels
Signature of Natural Person Signing (in line #10 above.)

Columbia County Property Appraiser

DB Last Updated: 11/15/2007

2008 Proposed Values

Tax Record | Property Card | Interactive GIS Map | Print

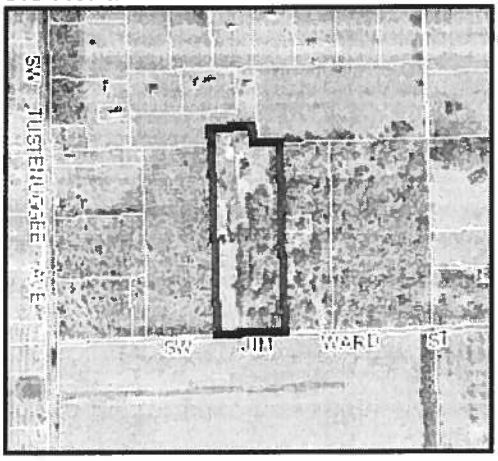
Parcel: 17-6S-17-09690-003 HX

Search Result: 1 of 1

Owner & Property Info

Owner's Name	DANIELS WALTER E & JENNIFER L		
Site Address	JIM WARD		
Mailing Address	1069 SW JIM WARD ST FT WHITE, FL 32038		
Use Desc. (code)	IMPROVED A (005000)		
Neighborhood	17617.00	**Tax District**	3
UD Codes	MKTA02	**Market Area**	02
Total Land Area	15.000 ACRES		
Description	COMM SW COR OF SEC, RUN E 1144.48 FT FOR POB, N 7.98 FT TO N R/W HAMMOCK RD, CONT N 1308.72 FT, CONT N 115 FT, E 290.24 FT, S 115 FT, E 183.09 FT, S 1307.61 FT TO N R/W HAMMOCK RD, CONT S 7.35 FT, W 469.14 FT TO POB, EX RD R/W. ORB 737-105, WD 1126- 510.		

GIS Aerial



Property & Assessment Values

Mkt Land Value	cnt: (2)	$13,089.00
Ag Land Value	cnt: (1)	$2,520.00
Building Value	cnt: (1)	$29,305.00
XFOB Value	cnt: (2)	$2,200.00
Total Appraised Value		$47,114.00

Just Value		$128,594.00
Class Value		$47,114.00
Assessed Value		$18,541.00
Exempt Value	(code: HX)	$18,541.00
Total Taxable Value		$0.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
7/23/2007	1126/510	WD	I	U	04	$34,500.00
4/25/1990	737/105	AG	V	U	13	$34,500.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1940	Vinyl Side (31)	1173	1221	$29,305.00
	Note: All S.F. calculations are based on exterior building dimensions.					

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0010	BARN,BLK	0	$2,000.00	1.000	0 x 0 x 0	(.00)
0020	BARN,FR	0	$200.00	1.000	0 x 0 x 0	(.00)

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	1.000 AC	1.00/1.00/1.00/1.00	$12,339.60	$12,339.00

FORM 600A-2004R

EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	stephen crawford-daniels	Builder:	stephen crawford
Address:		Permitting Office:	Columbia Co.
City, State:	,	Permit Number:	26477
Owner:		Jurisdiction Number:	221000
Climate Zone:	North		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	4	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	2905 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	Description Area 7a. (Dble Default) 397.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 397.0 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 249.0(p) ft	
b.	Raised Wood, Post or Pier	R=19.0, 325.0ft²	
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Adjacent	R=13.0, 380.0 ft²	
b.	Frame, Wood, Exterior	R=13.0, 1700.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2610.0 ft²	
b.	Under Attic	R=19.0, 725.0 ft²	
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 244.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 55.5 kBtu/hr SEER: 13.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 55.0 kBtu/hr HSPF: 8.00	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 50.0 gallons EF: 0.90	
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)	PT, CF,	

Glass/Floor Area: 0.14

Total as-built points: 36040

Total base points: 36153

PASS

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

PREPARED BY: Suncoast Insulators

DATE: 11-7-07

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

OWNER/AGENT: Walter E. Daniels Jennifer L. Daniels

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.

GREAT SEAL OF THE STATE OF FLORIDA * IN GOD WE TRUST *

BUILDING OFFICIAL: _____

DATE: _____

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

FORM 600A-2004R

EnergyGauge® 4.5

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

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

FORM 600A-2004R

EnergyGauge® 4.5

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT							
WATER HEATING Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4		2635.00	10540.0	50.0	0.90	4	1.00	2693.56	1.00	10774.2	
				As-Built Total:						10774.2	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
11909	13704	10540	36153	11867	13389	10774	36040

PASS

FORM 600A-2004R

EnergyGauge® 4.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**24736.6**	**Winter As-Built Points:**					**26479.2**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 55000 btuh ,EFF(8.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0					
			26479.2	1.000	(1.069 x 1.169 x 1.00)	0.426	0.950	13399.4
24736.6	**0.5540**	**13704.0**	**26479.2**	**1.00**	**1.250**	**0.426**	**0.950**	**13399.4**

FORM 600A-2004R

EnergyGauge® 4.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	2906.0	20.17	10547.0	1.Double, Clear	W	2.0	5.0	142.0	20.73	1.08	3117.0
				2.Double, Clear	E	2.0	5.0	178.0	18.79	1.08	3624.0
				3.Double, Clear	N	2.0	5.0	66.0	24.56	1.01	1682.0
				4.Double, Clear	S	2.0	5.0	9.0	13.30	1.40	167.0
				As-Built Total:				**397.0**			**8590.0**
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM	=	Points
Adjacent	380.0	3.60	1366.0	1. Frame, Wood, Adjacent			13.0	380.0	3.30		1254.0
Exterior	1700.0	3.70	6290.0	2. Frame, Wood, Exterior			13.0	1700.0	3.40		5780.0
Base Total:	**2080.0**		**7656.0**	**As-Built Total:**				**2080.0**			**7034.0**
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM	=	Points
Adjacent	18.0	11.50	207.0	1.Exterior Insulated				18.0	8.40		151.2
Exterior	18.0	12.30	221.4	2.Adjacent Insulated				18.0	8.00		144.0
Base Total:	**36.0**		**428.4**	**As-Built Total:**				**36.0**			**295.2**
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points
Under Attic	2580.0	2.05	5289.0	1. Under Attic			30.0	2810.0	2.05 X	1.00	5350.5
				2. Under Attic			19.0	725.0	2.70 X	1.00	1957.5
Base Total:	**2580.0**		**5289.0**	**As-Built Total:**				**3335.0**			**7308.0**
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM	=	Points
Slab	249.0(p)	8.9	2216.1	1. Slab-On-Grade Edge Insulation			0.0	249.0(p	18.80		4681.2
Raised	325.0	0.96	312.0	2. Raised Wood, Post or Pier			19.0	325.0	0.88		284.7
Base Total:			**2528.1**	**As-Built Total:**				**574.0**			**4965.9**
INFILTRATION	Area X	BWPM =	Points					Area X	WPM	=	Points
	2905.0	-0.59	-1713.9					2905.0	-0.59		-1713.9

FORM 600A-2004R

EnergyGauge® 4.5

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 36643.7			**Summer As-Built Points:**					**40450.6**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 55500btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R8.0(INS)					
36643.7	0.3250	11909.2	40451 **40450.6**	1.00 **1.00**	(1.09 x 1.147 x 1.00) **1.250**	0.260 **0.260**	0.902 **0.902**	11866.8 **11866.8**

FORM 600A-2004R

EnergyGauge® 4.5

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , , PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2905.0	18.59	9721.0	1.Double, Clear	W	2.0	5.0	142.0	38.52	0.80	4372.0	
				2.Double, Clear	E	2.0	5.0	178.0	42.06	0.80	5966.0	
				3.Double, Clear	N	2.0	5.0	68.0	19.20	0.87	1137.0	
				4.Double, Clear	S	2.0	5.0	9.0	35.87	0.72	233.0	
				As-Built Total:				397.0			11708.0	
WALL TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM	=	Points	
Adjacent	380.0	0.70	266.0	1. Frame, Wood, Adjacent			13.0	380.0	0.60		228.0	
Exterior	1700.0	1.70	2890.0	2. Frame, Wood, Exterior			13.0	1700.0	1.50		2550.0	
Base Total:	2080.0		3156.0	As-Built Total:				2080.0			2778.0	
DOOR TYPES	Area X	BSPM	= Points	Type				Area X	SPM	=	Points	
Adjacent	18.0	2.40	43.2	1.Exterior Insulated				18.0	4.10		73.8	
Exterior	18.0	6.10	109.8	2.Adjacent Insulated				18.0	1.60		28.8	
Base Total:	36.0		153.0	As-Built Total:				36.0			102.6	
CEILING TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM X	SCM =	Points	
Under Attic	2580.0	1.73	4463.4	1. Under Attic			30.0	2610.0	1.73 X	1.00	4515.3	
				2. Under Attic			19.0	725.0	2.34 X	1.00	1696.8	
Base Total:	2580.0		4463.4	As-Built Total:				3335.0			6211.8	
FLOOR TYPES	Area X	BSPM	= Points	Type			R-Value	Area X	SPM	=	Points	
Slab	249.0(p)	-37.0	-9213.0	1. Slab-On-Grade Edge Insulation			0.0	249.0(p	-41.20		-10258.8	
Raised	325.0	-3.98	-1296.8	2. Raised Wood, Post or Pier			19.0	325.0	0.77		248.9	
Base Total:			-10509.8	As-Built Total:				574.0			-10009.8	
INFILTRATION	Area X	BSPM	= Points					Area X	SPM	=	Points	
	2905.0	10.21	29660.1					2905.0	10.21		29660.1	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 84.9

The higher the score, the more efficient the home.

1.	New construction or existing	New		12. Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 55.5 kBtu/hr
3.	Number of units, if multi-family	1			SEER: 13.00
4.	Number of Bedrooms	4		b. N/A	
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	2905 ft²		c. N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
	a. U-factor:	Description Area		13. Heating systems	
	(or Single or Double DEFAULT)	7a. (Dble Default) 397.0 ft²		a. Electric Heat Pump	Cap: 55.0 kBtu/hr
	b. SHGC:				HSPF: 8.00
	(or Clear or Tint DEFAULT)	7b. (Clear) 397.0 ft²		b. N/A	
8.	Floor types				
	a. Slab-On-Grade Edge Insulation	R=0.0, 249.0(p) ft		c. N/A	
	b. Raised Wood, Post or Pier	R=19.0, 325.0ft²			
	c. N/A			14. Hot water systems	
9.	Wall types			a. Electric Resistance	Cap: 50.0 gallons
	a. Frame, Wood, Adjacent	R=13.0, 380.0 ft²			EF: 0.90
	b. Frame, Wood, Exterior	R=13.0, 1700.0 ft²		b. N/A	
	c. N/A				
	d. N/A			c. Conservation credits	
	e. N/A			(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10.	Ceiling types			15. HVAC credits	PT, CF,
	a. Under Attic	R=30.0, 2610.0 ft²		(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
	b. Under Attic	R=19.0, 725.0 ft²			
	c. N/A				
11.	Ducts				
	a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 244.0 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

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

#20477

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 321 N.W. Cole Terrace, Suite 107 City Lake City State FL Zip 32055
Company Business License No. JB108078 Company Phone No. 386-755-3811 • 352-494-5751
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: _____ Company Phone No. _____

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) _____

Type of Construction (More than one box may be checked) ☐ Slab ☐ Basement ☐ Crawl ☐ Other _____
Approximate Depth of Footing: Outside _____ Inside _____ Type of Fill _____

Section 4: Treatment Information

Date(s) of Treatment(s) 1-22-04
Brand Name of Product(s) Used _____
EPA Registration No. 432-1487
Approximate Final Mix Solution % 06
Approximate Size of Treatment Area: Sq. ft. 1722 Linear ft. 207 Linear ft. of Masonry Voids 207
Approximate Total Gallons of Solution Applied 91.5
Was treatment completed on exterior? ☐ Yes ☐ No
Service Agreement Available? ☐ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) _____ Certification No. (if required by State law) _____

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature _____ Date _____

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

CERTIFICATE OF OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 17-6S-17-09690-003 **Building permit No.** 000026477

Use Classification SFD,UTILITY **Fire:** 0.00

Permit Holder OWNER BUILDER **Waste:** 0.00

Owner of Building WALTER & JENNIFER DANIELS **Total:** 0.00

Location: 1069 SW JIM WARD ST., FT. WHITE, FL

Date: 09/04/2009

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

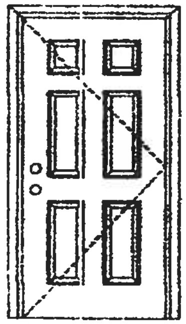
X

Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Warnock Hersey

Test Data Review Certificate #3026447A and COP/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.

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.

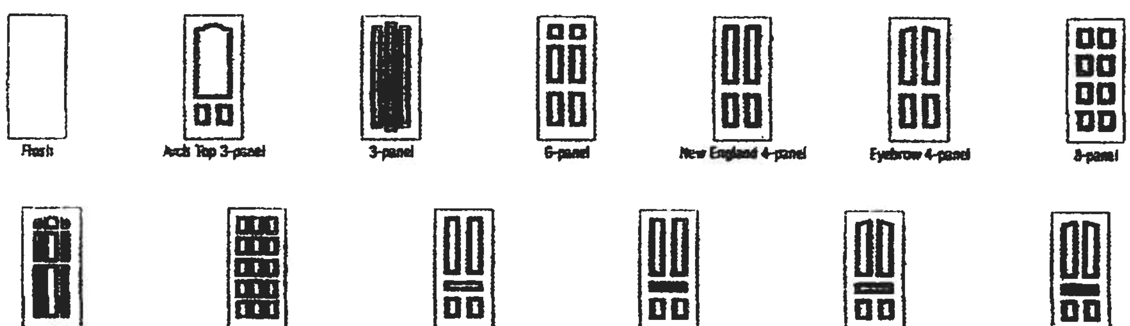
MINIMUM ASSEMBLY DETAIL:

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:



Flush, Arch Top 3-panel, 3-panel, 6-panel, New England 4-panel, Eyebrow 4-panel, 8-panel

9-panel, 15-panel, 5-panel, 5-panel with scroll, Eyebrow 5-panel, Eyebrow 5-panel with scroll

Johnson EntrySystems

June 17, 2002

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

PREMDOR Collection — Exclusively from Masonite — Masonite International Corporation

X
Opaque Inswing Unit

COP-WL-JH4101-02

WOOD-EDGE STEEL DOORS

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
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).

Kurt L Balthazor

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

Warnock Hersey

Test Data Review Certificate #3026447A and COPYtest 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.

Johnson EntrySystems

June 17, 2002

PREMDOR Collection Premium Quality Doors

Exclusively from Masonite

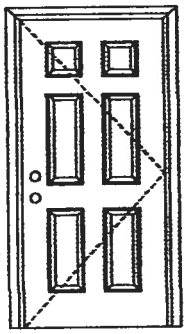
Masonite International Corporation

X
Opaque Outswing Unit

COP-WL-JH4121-02

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".

Warnock Hersey

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

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.

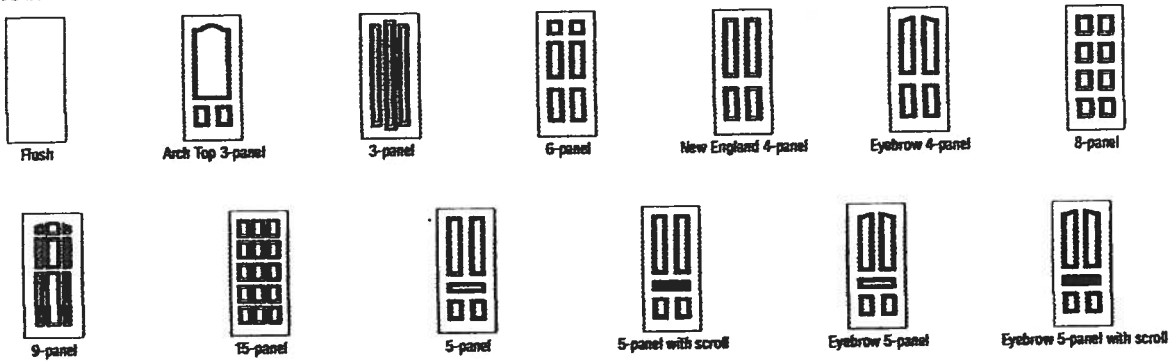
MINIMUM ASSEMBLY DETAIL:

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

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:



Johnson EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors
Exclusively from Masonite
Masonite International Corporation

X
Opaque Outswing Unit

COP-WL-JH4121-02

WOOD-EDGE STEEL DOORS

CERTIFIED TEST REPORTS:

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 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 bumper threshold.

PRODUCT COMPLIANCE LABELING:

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

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).

Kurt L Balthazor

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-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Johnson EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors

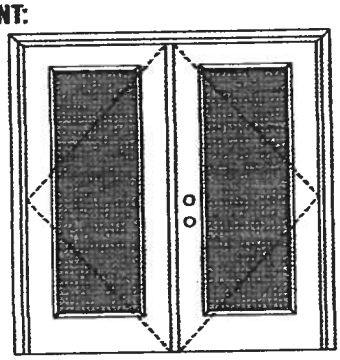
Exclusively from Masonite
Masonite International Corporation

XX
Glazed Inswing Unit

COP-WL-JH4142-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Double Door
Maximum unit size = 6'0" 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.

Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'8".

Warnock Hersey

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

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0002-02 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:


100 Series

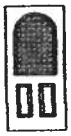

133, 135 Series

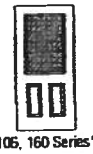

136 Series


680 Series


822 Series

1/2 GLASS:


105 Series*

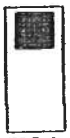

106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 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.

Johnson™ EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

XX
Glazed Inswing Unit

COP-WL-JH4142-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:
3/4 GLASS:


404 Series


410 Series


450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 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. / 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 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).

Kurt L Balthazor

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-001 provides additional information - available from the ITS/WH website (www.etisemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Johnson™ EntrySystems

June 17, 2002
Our continuing program of product improvement makes specifications, design and product detail subject to change without notice.

PREMDOR Collection Premiere Quality Doors

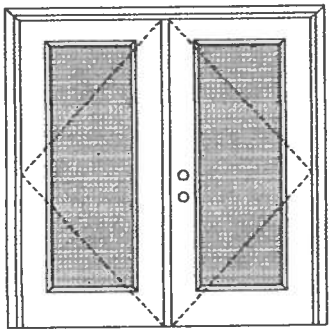
Exclusively from Masonite®
Masonite International Corporation

XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Double Door
Maximum unit size = 6'0" 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

Warnock Hersey

Test Data Review Certificate #3026447A and COP/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.

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

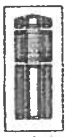
Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series

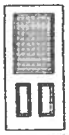

136 Series


680 Series


822 Series

1/2 GLASS:

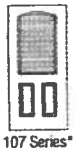

105 Series*


106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 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.

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PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

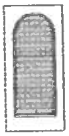
APPROVED DOOR STYLES:
3/4 GLASS:

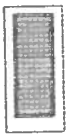

404 Series

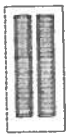

410 Series


450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

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).

Kurt L Balthazor

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-001 provides additional information - available from the ITS/WH website (www.etlsemko.com), the Masonite website (www.masonite.com) or the Masonite technical center.

Johnson™ EntrySystems

June 17, 2002
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PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS	Johnson Entry Systems	Wood - Edge Steel Doors 26 gauge Steel	
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	Capital 650 Series	Single & Twin Aluminum Single Hung Window	
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	Unico	36" Wide 29 gauge Panels	
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS	Simpson	LSTA21 w/(8)-16d to Header & Stud	
B. WOOD ANCHORS	Simpson	LTT131 w/(18)-10d & 5/8"x10" Bolts	
C. TRUSS PLATES	Simpson	SPK 4/6 @ 48" O.C.	
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS -	Simpson	SPH4 w/(6)-10d	
6. NEW EXTERIOR ENVELOPE PRODUCTS			
A.			

The products listed below did not demonstrate product approval at plan review. I 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.

Jennifer L Daniels Walter Daniels

APPLICANT SIGNATURE

DATE

R-1305 01-04

Load Short Form
Entire House
Touchstone Heating and Air, Inc.

Job: J. Daniels Residense
Date: Nov 06, 2007
By: ell

P O Box 327 Lake Butler, Fl 32054 Phone 386-496-3467 Fax 386-496-3147

Project Information

For: Steven Crawford Const.
Lake Butler, Fl 32054

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	68	75
Design TD (°F)	35	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make	Trane
Trade	XR13 Weathertron
Model	2TWR3060A1

Efficiency	8.6 HSPF	
Heating input		
Heating output	55500	Btuh @ 47°F
Temperature rise	26	°F
Actual air flow	1917	cfm
Air flow factor	0.045	cfm/Btuh
Static pressure	0.00	in H2O
Space thermostat		

COOLING EQUIPMENT

Make	Trane
Trade	XR13 Weathertron
Cond	2TWR3060A1
Coil	TXC065S3

Efficiency	13 SEER	
Sensible cooling	40250	Btuh
Latent cooling	17250	Btuh
Total cooling	57500	Btuh
Actual air flow	1917	cfm
Air flow factor	0.051	cfm/Btuh
Static pressure	0.00	in H2O
Load sensible heat ratio	0.83	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Master Bath	154	3395	3087	156	158
WIC	77	775	368	36	19
M B/R	255	4895	3187	226	163
Stairs	60	37	79	2	4
Breakfast nook	165	4198	3452	193	176
Pantry	47	62	133	3	7
Laundry	99	1432	3821	66	195
kitchen	144	190	4762	9	244
Dining	168	3495	2020	161	103
Living	742	9378	6417	432	327
BR 3	149	3955	3332	182	170
Bath	49	766	348	35	18
BR 2	154	3938	2878	181	147
Bonus	319	4797	3446	221	176
1/2 bath	25	291	221	13	11

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

Entire House		2607	41600	37571	1917	1917
Other equip loads			3695	1795		
Equip. @ 0 97	RSM			38184		
Latent cooling				8261		
TOTALS		2607	45295	46445	1917	1917

Duct System Summary
Entire House

Touchstone Heating and Air, Inc.

Job: J. Daniels Residence
Date: Nov 06, 2007
By: ell

P.O. Box 327 Lake Butler, FL 32054 Phone: 386-496-3467 Fax: 386-496-3147

Project Information

For: Steven Crawford Const.
Lake Butler, Fl 32054

	Heating	Cooling
External static pressure	0.00 in H2O	0.00 in H2O
Pressure losses	0.15 in H2O	0.15 in H2O
Available static pressure	-0.1 in H2O	-0.1 in H2O
Supply / return available pressure	-0.07 / -0.07 in H2O	-0.07 / -0.07 in H2O
Lowest friction rate	***0.880*** in/100ft	***0.880*** in/100ft
Actual air flow	1917 cfm	1917 cfm
Total effective length (TEL)	0 ft	

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	Rect Size (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Master Bath	c 3087	156	158	0.880	7	0x0	VIFx	0.0	0.0	
WIC	h 775	36	19	0.880	4	0x0	VIFx	0.0	0.0	
M BR	h 4895	226	163	0.880	9	0x0	VIFx	0.0	0.0	
Stairs	c 79	2	4	0.880	4	0x0	VIFx	0.0	0.0	
Breakfast nook	h 4196	193	176	0.880	8	0x0	VIFx	0.0	0.0	
Pantry	c 133	3	7	0.880	4	0x0	VIFx	0.0	0.0	
Laundry	c 3621	66	195	0.880	8	0x0	VIFx	0.0	0.0	
kitchen-A	c 2391	4	122	0.880	7	0x0	VIFx	0.0	0.0	
Kitchen	c 2391	4	122	0.880	7	0x0	VIFx	0.0	0.0	
Dining	h 3495	161	103	0.880	8	0x0	VIFx	0.0	0.0	
Living-A	h 4688	216	164	0.880	9	0x0	VIFx	0.0	0.0	
Living	h 4688	216	164	0.880	9	0x0	VIFx	0.0	0.0	
BR 3	h 3955	182	170	0.880	8	0x0	VIFx	0.0	0.0	
Bath	h 786	35	18	0.880	4	0x0	VIFx	0.0	0.0	
BR 2	h 3938	181	147	0.880	8	0x0	VIFx	0.0	0.0	
Bonus	h 4797	221	176	0.880	9	0x0	VIFx	0.0	0.0	
1/2 bath	h 291	13	11	0.880	4	0x0	VIFx	0.0	0.0	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	RectSize (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	1917	1917	0.0	0.880	613	24	0x 0		VIFx	

Bold/italic values have been manually overridden

STRUCTURAL TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

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

Title of Test	Results
Overall Design Pressure	35.0 psf
Operating Force	18 lb max.
Air Infiltration	0.29 cfm/ft^2
Water Resistance	5.25 psf
Structural Test Pressure	70.5 psf

Reference should be made to Report No. 01-36060.02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Scott D. Kramer

Scott D. Kramer, Technician

SDK:nlb/baw

ALLEN N. REEVES
REGISTERED
NO. [illegible]
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Allen N. Reeves
28 MARCH 2002

Architectural Testing

STRUCTURAL TEST REPORT

Rendered to:

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

Report No: 01-36060.02
Test Date: 11/04/99
Report Date: 03/26/02
Expiration Date: 11/04/03

Project Summary: Architectural Testing, Inc. (ATI) was contracted to perform tests on a Series/Model 650, twin aluminum single hung window at MI Home Products' test facility in Elizabethville, Pennsylvania. Test specimen description and results are reported herein.

Test Specification The test specimen was evaluated in accordance with the following:

ASTM E 283-91, *Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*

ASTM E 330-97, *Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference*

ASTM E 547-96, *Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential*

Test Specimen Description

Series/Model: 650

Type: Twin Aluminum Single Hung Window

Overall Size: 5' 10-1/4" wide by 5' 0" high

Active Size (2): 2' 8-3/4" wide by 2' 6-1/4" high

Fixed Daylight Opening Size (2): 2' 6- 1/4" wide by 2' 3" high

Screen Size (2): 2' 7-3/4" wide by 2' 4-1/4" high

ALLEN N. REEVES
CERTIFICATE
NO. 19369
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Allen N. Reeves
28 MARCH 2002

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Test Specimen Description: (Continued)

Finish: All aluminum was painted white.

Glazing Details: Both the active sash and fixed lites utilized 5/8" thick insulating glass fabricated from two sheets of 3/32" thick clear annealed glass and a desiccant filled metal spacer system. The active sash were channel glazed with a flexible wedge gasket. The fixed lites were interior glazed, back bedded with single sided adhesive foam tape and held-in-place with PVC snap-in glazing beads.

Weatherstripping:

Description	Quantity	Location
0.270" backed by 0.190" high polypile with center fin	1 Row	Fixed meeting stile
3/8" high vinyl wrapped foam bulb	1 Row	Bottom rail
0.187" backed by 0.250" high polypile with center fin	2 Rows	Stiles
1/4" high polypile dust plug	2 Rows	Ends of bottom rail, top of each stile

Frame Construction: Frame was constructed of extruded aluminum members and all corners were coped, butted, sealed, and fastened with two screws per corner. The fixed meeting rail was attached to the jambs with a plastic clip and two screws per end.

Mullion Construction: The mullion was constructed of an extruded aluminum member. It was fastened to the head and sill with four screws per end. All screw heads were sealed as well as the butt joint at the sill.

Sash Construction: The sash were constructed of extruded aluminum members and all corners were coped, butted, and fastened with one screw per corner.

Screen Construction: The screen was constructed of rolled aluminum members and the corners were keyed. The screen mesh was held-in-place with a flexible spline.

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NO. 18
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FLORIDA
PROFESSIONAL ENGINEER

Allen N. Reeves
28 MARCH 2002

Test Specimen Description: (Continued)

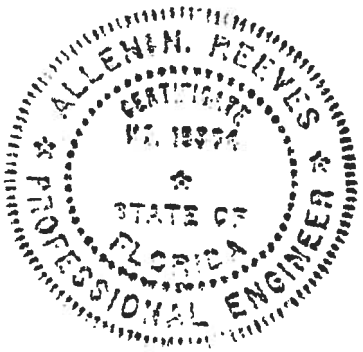
Hardware:

Description	Quantity	Location
Plastic tilt latches	4	Ends of interior meeting rail
Metal pivot bars	4	Ends of the bottom rails
Metal sweep lock	2	Midspan of interior meeting rail
Metal keeper	2	Midspan of fixed meeting rail
Sash stops	4	One per jamb
Block and tackle balance system	4	One per jamb
Spring loaded latch pins	2	6" from ends of screen top rail

Drainage:

Description	Quantity	Location
Sloped sill		Sill
1/4" wide by 3/16" high weepslot	4	Ends of exterior vertical sill leg

Installation: The test unit was installed into the 2" x 8" nominal Spruce-Pine-Fir #2 wood test buck utilizing the integral nailing fin and 1" roofing nails. Five per top, bottom, and sides of the nail fin were evenly spaced. The nail fin was bedded in a silicone sealant.



Allen M. Reeves
28 MARCH 2002

Test Results

The results are tabulated as follows:

Title of Test - Test Method	Results	Allowed
Air Infiltration per ASTM E 283-91		
@ 0.56 psf (15 mph)	0.15 cfm/ft^2	0.30 cfm/ft^2
@ 1.57 psf (25 mph)	0.29 cfm/ft^2	0.30 cfm/ft^2
Water Resistance per ASTM E 547-96 (with and without screen)		
WTP = 5.25 psf	No leakage	No leakage
Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the meeting rail) (load held for 33 seconds)		
@ 47.0 psf (exterior)	0.010"	0.24" max.
@ 47.0 psf (interior)	0.015"	0.24" max.

Note: No end measurements were taken on the member measured. The measurements stated above include displacement as well as bending. Only permanent sets were recorded, not deflection measurements. This statement applies to all uniform load tests performed.

Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the meeting rail) (load held for 10 seconds)		
@ 70.5 psf (exterior)	0.060"	0.24" max
@ 70.5 psf (interior)	0.040"	0.24" 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:

Scott D. Kramer
Technician

Allen N. Reeves, P.E.
Director – Engineering Services

28 MARCH 2002

ALLEN N. REEVES
CERTIFICATE
NO. 1[illegible]
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SDK:nlb/baw
01-36060.02

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

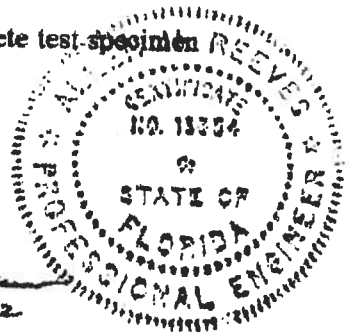
Title of Test	Results
Rating	H-R40 52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft^2
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

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

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:nlb



APRIL 2002

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
www.architest.com

Allen M. Reeves
1 APRIL 2002

ALLEN M. REEVES
No. 18354
STATE OF
PROFESSIONAL ENGINEER

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

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

Allen M. 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/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 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)	0.42"*	0.26" max.
	@ 34.7 psf (negative)	0.43"*	0.26" max.
	**Exceeds L/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)	0.02"	0.18" max.
	@ 52.1 psf (negative)	0.02"	0.18" max.

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ALLEN N. REEVES
CERTIFICATE NO. 13[illegible]
STATE OF FLORIDA
PROFESSIONAL ENGINEER

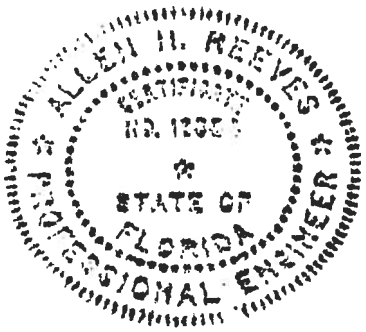
Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. 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

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

MAH:mlb
01-41134.01



Test Specimen Description: (Continued)

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		
	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.
	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"	0.18" max.
	@ 70.8 psf (negative)	0.05"	0.18" max.

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

Allen N. Reeves
4 APRIL 2002

ALLEN N. REEVES
CERTIFICATE
No. 18334
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

SELF STACKING SILL - NAIL FIN type

SILL PART No. CM-45026

650 SH / PW

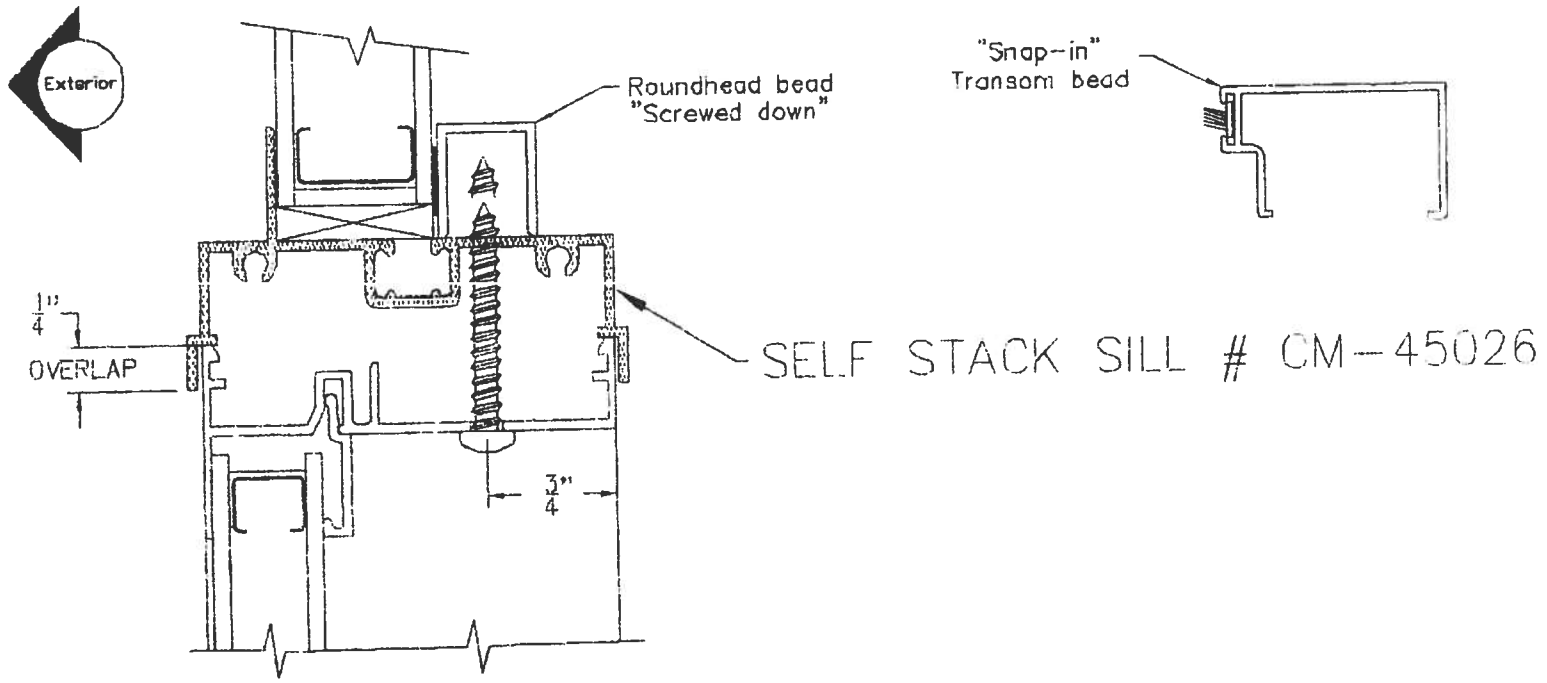
Step 1. Strip fin from head of window to be mounted below the transom / roundhead.

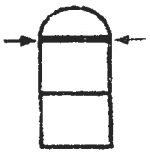
Step 2. Place windows together as shown below.

Note: Place attachment screws 3/4" in from the inside face of the window so the screw points come out under the glazing bead and are concealed.

PLACE SCREWS 3" FROM EACH END AND DO NOT EXCEED 18" SPACING OF REMAINING SCREWS.

Step 3. With the 1/8" drill, drill up through the head of the lower unit into the sill of the transom. Re-drill head of lower unit with 3/16" drill and fasten with #8 x 1 1/4" or 1 1/2" sheet metal screws. Do not over tighten screws as distortion could occur.





MI HOME PRODUCTS

HORIZONTAL MULLION DESIGN LOAD CAPACITIES

FOR EXTRUDED ALUMINUM STACKING MULLION (CM-45026)
WHEN USED FOR MULLING TRANSOM OVER A SINGLE WINDOW

MULL SPAN > WDW. HGT. V	19.125	24.000	26.500	36.000	37.000	48.000	53.125
26.000	608	308	229	95	88	44	33
36.000	608	308	229	91	84	40	30
38.375	608	308	229	91	84	39	30
48.000	608	308	229	91	84	38	29
50.625	608	308	229	91	84	38	28
60.000	608	308	229	91	84	38	28
63.000	608	308	229	91	84	38	28
72.000	608	308	229	91	84	38	28
72.250	608	308	229	91	84	38	28

NOTES:

- CHART APPLIES ONLY TO EXTRUDED ALUMINUM MULLION (CM-45026) USED HORIZONTALLY.
- CHART ASSUMES TRANSOM HEIGHT TO BE ONE HALF MULLION SPAN.
- WINDOW HEIGHTS SHOWN ON "Y" AXIS OF CHART DESIGNATE HEIGHT OF WINDOWS BELOW MULLION AND DO NOT INCLUDE TRAMSOM HEIGHT.
- READ MULLION SPAN AND WINDOW HEIGHT IN INCHES.
- DESIGN PRESSURE VALUES ON THIS CHART ARE IN PSF.
- DESIGN LOAD CAPACITIES SHOWN ON THIS CHART DO NOT CONSIDER ANY STRENGTH WHICH MAY BE OBTAINED FROM FRAME MEMBERS OF ADJACENT WINDOWS.
- Dmax = L / 175
- INSTALLATION OF MULLION: MULLION MUST BE ANCHORED TO SUBSTRATE. CONNECTION MUST BE DESIGNED TO ADEQUATELY TRANSFER LOAD TO THE STRUCTURE. SEE MANUFACTURER'S MULLION INSTALLATION DETAILS.

PREPARED BY:
PRODUCT TECHNOLOGY CORPORATION
250 INTERNATIONAL PARKWAY
SUITE 250
HEATHROW, FLORIDA 32746
PHONE 407 805-0365 / FAX 407 805-0366

04-152

STRUCTURAL VERTICAL MULLION - NAIL FIN type 650 SH / PW

MULLION PART # CM-65130

NOTE: If adding a transom, roundhead, etc., saw 1/4" off the top of the mull before joining units and refer to horizontal mull instruction sheet.

Step 1. Strip fins from windows where mulls are to be used.

Step 2. Apply a bead of caulk in the mull to seal against window jambs.

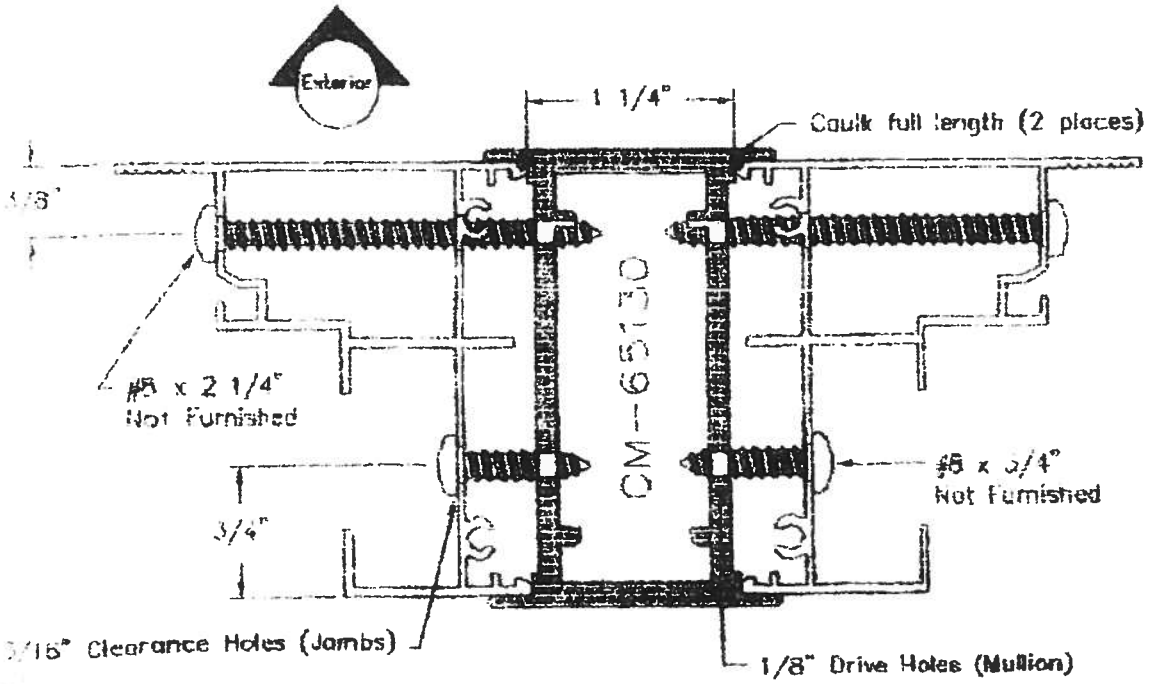
Step 3. Place windows and mullions together as shown below.

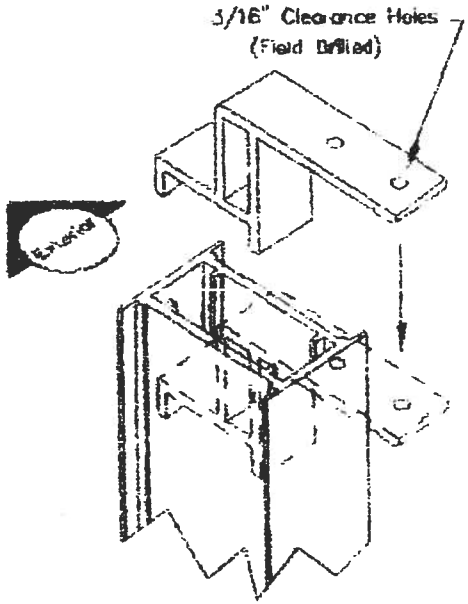
Step 4. The single hung jamb has an exterior track (screen area – bottom half of window) and an interior track (operating sash – upper half of window). In these areas only, drill 1/8" pilot holes through the jambs into the mullion, then re-drill the jambs only with 3/16" clearance holes. Holes should be spaced evenly on approximately 12" to 16" centers.

Step 5. Attach windows to mullion using #8 x 2 1/4" sheet metal screws (not included) through drilled holes in bottom half below. Attach using # 8 x 3/4" screws in top half as shown. To avoid jamb distortion, do not overtighten screws.

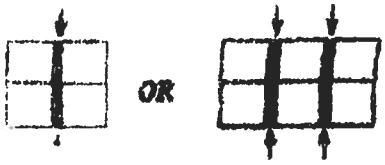
Step 6. The gap between window jambs at the top must be flashed and caulked and preferably be covered by construction / overhang to prevent water leakage.

Step 7. Before lifting into rough opening, drill two holes in each clip and insert into each end of mull as shown below with tab pointing to inside. Fasten each clip tab to construction with two #10 x 1 1/2" screws for structural integrity.





NOTE: SEE REVERSE SIDE FOR FASTENING REQUIREMENTS.



MI HOME PRODUCTS

VERTICAL MULLION DESIGN LOAD CAPACITIES
FOR ALUMINUM TUBE MULLION (DIE # OM-65130)

WDW. WIDTH > / MULLION SPAN V	19.125	24.000	26.500	36.000	37.000	46.000	53.125
36.000	575	506	483	460	450	450	450
37.375	528	461	439	402	402	402	402
48.000	291	248	233	198	196	186	186
50.625	245	208	194	164	162	151	150
60.000	142	119	111	91	89	79	77
63.000	122	102	94	77	75	66	64
72.000	80	66	61	49	48	41	39
72.250	79	65	60	48	46	41	39

CHART APPLIES ONLY TO EXTRUDED ALUMINUM MULLION (DIE NO: OM-65130)
READ WINDOW WIDTH AND HEIGHT IN INCHES.
DESIGN PRESSURE VALUES ON THIS CHART ARE IN PSF.
WINDOW WIDTH DIMENSIONS REPRESENT THE WIDTH OF EACH WINDOW IN A SINGLE OPENING, NOT THE OVERALL WID THE OPENING.
DESIGN PRESSURE VALUES SHOWN ON THE ABOVE CHART IS NOT LIMITED TO ONLY TWO WINDOWS IN A SINGLE OPENI CAPACITIES APPLY TO ANY NUMBER OF WINDOWS IN A SINGLE OPENING, PROVIDED WINDOW WIDTH AND MULLION SPA ARE NOT EXCEEDED.
$D_{max} = L / 175$
INSTALLATION OF MULLION: MULLION MUST BE ANCHORED TO SUBSTRATE. CONNECTION MUST BE DESIGNED TO ADEQUATELY TRANSFER LOAD TO THE STRUCTURE. SEE MANUFACTURER'S MULLION INSTALLATION DETAILS.

PREPARED BY:
PRODUCT TECHNOLOGY CORPORATION
280 INTERNATIONAL PARKWAY
SUITE 250
HEATHROW, FLORIDA 32745
PHONE 407 305-0366 / FAX 407 305-0366

STRUCTURAL HORIZONTAL MULLION - NAIL FIN type 650 SH / PW

OTE: If you are stacking a single unit over another single unit, such as a roundhead over a single hung, NO HORIZONTAL MULL IS REQUIRED.

IPORTANT ! Before you begin, 1/4" must be sawed off the top end of the vertical mullion before the lower windows are twinned. Follow all steps on vertical mull instruction sheet first.

Note: • Overall length of mull is to be the same as the overall frame to frame dimension of the mulled units below, including the vertical mull. EXAMPLE: For twin 3'-0", mull length will be 35 1/8" window + 1 1/4" mull + 35 1/8" window = 71 1/2".

Step 1. Strip fins from head of windows to be mounted below transom.

Step 2. Place windows and mulls together as shown below.

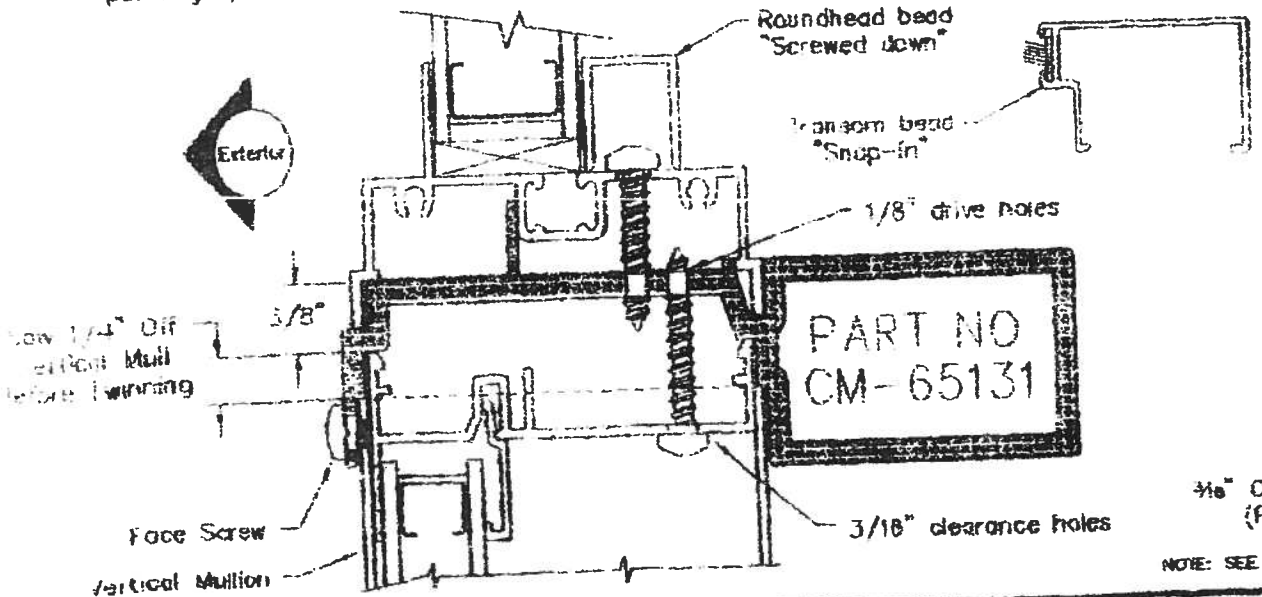
Step 3. Remove bottom glazing bead from transom / roundhead. With a 1/8" drill bit, pre-drill down through the sill and into the mullion. Re-drill sill hole only to 3/16". Fasten with #8 X 1" sheet metal screws (not included).

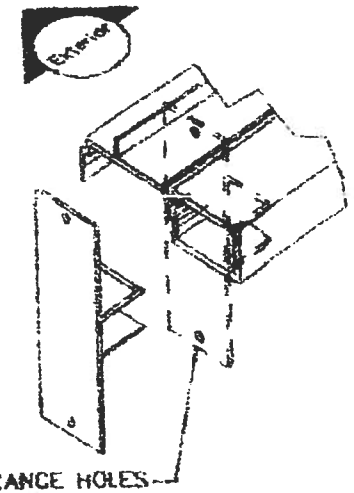
Step 4. Again with the 1/8" drill, drill up through the heads of the lower units into the mull. Re-drill heads of lower unit with 3/16" drill and fasten with #8 x 1" sheet metal screws.

PLACE SCREWS 3" FROM EACH END AND DO NOT EXCEED 18" SPACING OF REMAINING SCREWS.

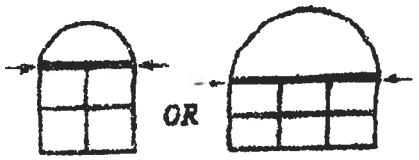
Step 5. The vertical mull "telescopes" 3/8" into the underside of the horizontal mull to lock it in place structurally. To fasten, drill a 1/8" hole, as shown below, through the horizontal mull and vertical mull. Re-drill the horizontal mull only with 3/16" bit and fasten with a "face" screw. For best appearance, countersink and use a flathead screw.

Step 6. Before lifting into rough opening, drill two holes in each clip and insert into each end of mull as shown below with tabs pointing up and down. Fasten each clip tab to construction with two #10 X 1 1/2" screws for structural integrity.





NOTE: SEE REVERSE SIDE FOR FASTENING REQUIREMENTS.



MI HOME PRODUCTS

HORIZONTAL MULLKIN DESIGN LOAD CAPACITIES

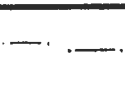
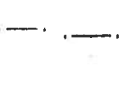
FOR EXTRUDED ALUMINUM TUBE MULLION (CM-65131)
WHEN USED FOR MULLING TRANSOM

MULL SPAN > WDW HGT V	48.000	53.000	72.000	74.000	96.000	108.250	108.000
26.000	338	260	115	107	53	37	35
36.000	308	235	103	96	48	33	31
38.375	305	231	101	94	47	33	31
48.000	298	222	94	87	43	30	28
50.625	298	221	93	86	43	30	28
60.000	298	221	90	83	40	28	26
63.000	295	221	89	82	40	28	26
72.000	286	221	86	81	39	27	25
72.250	286	221	86	81	39	27	25

NOTES:

- CHART APPLIES ONLY TO EXTRUDED ALUMINUM MULLION (CM-65131) USED HORIZONTALLY.
- CHART ASSUMES TRANSOM HEIGHT TO BE ONE HALF MULLION SPAN.
- WINDOW HEIGHTS SHOWN ON "V" AXIS OF CHART DESIGNATE HEIGHT OF WINDOWS BELOW MULLION AND DO NOT INCLUDE TRANSOM HEIGHT.
- READ MULLION SPAN AND WINDOW HEIGHT IN INCHES.
- DESIGN PRESSURE VALUES ON THIS CHART ARE IN PSF.
- DESIGN LOAD CAPACITIES SHOWN ON THIS CHART DO NOT CONSIDER ANY STRENGTH WHICH MAY BE OBTAINED FROM FRAME MEMBERS OF ADJACENT WINDOWS.
- Dmax = L / 175
- INSTALLATION OF MULLION: MULLION MUST BE ANCHORED TO SUBSTRATE. CONNECTION MUST BE DESIGNED TO ADEQUATELY TRANSFER LOAD TO THE STRUCTURE. SEE MANUFACTURER'S MULLION INSTALLATION DETAILS.

PREPARED BY:
PRODUCT TECHNOLOGY CORPORATION
250 INTERNATIONAL PARKWAY
SUITE 280
HEATHROW, FLORIDA 32746
PHONE 407 805-0366 / FAX 407 805-0366

SERIES/TYPE	MPH ZONE(S)	REQUIRED MULLION		MAXIMUM SIZES ALLOWED		
				SINGLE UNIT	TWIN UNIT	TRIPLE UNIT
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	N/A	N/A	53-1/8" x 72"	N/A	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 130 MPH	VERTICAL MULL #CM-65130		N/A	53-1/8" x 72"	53-1/8" x 72"
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	VERTICAL MULL #CM-65130		N/A	53-1/8" x 63" OR 42" x 72"	53-1/8" x 63" OR 42" x 72"
650 SH OR PW SNG GLZ OR INS	UP TO 130 MPH	VERTICAL MULL #CM-65129		N/A	53-1/8" x 72"	53-1/8" x 72"
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	VERTICAL MULL #CM-65129		N/A	53-1/8" x 63" OR 42" x 72"	53-1/8" x 63" OR 42" x 72"
650 SH OR PW SNG GLZ OR INS	UP TO 120 MPH	HORIZONTAL MULL #CM-65131		N/A	53-1/8" x 72" W/TRANSOM	32" x 72" W/TRANSOM
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	HORIZONTAL MULL #CM-65131		N/A	45" x 72" W/TRANSOM	30" x 72" W/TRANSOM
650 SH OR PW SNG GLZ OR INS	UP TO 120 MPH	HORIZONTAL MULL #CM-65129		N/A	37" x 72" W/TRANSOM	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	HORIZONTAL MULL #CM-65129		N/A	30" x 72" W/TRANSOM	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 120 MPH	HORIZONTAL MULL #5767		N/A	53-1/8" x 72" W/TRANSOM	32" x 72" W/TRANSOM
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	HORIZONTAL MULL #5767		N/A	45" x 72" W/TRANSOM	30" x 72" W/TRANSOM

SERIES/TYPE	MPH ZONE(S)	REQUIRED MULLION		MAXIMUM SIZES ALLOWED		
				SINGLE UNIT	TWIN UNIT	TRIPLE UNIT
650 SH OR PW SNG GLZ OR INS	UP TO 120 MPH	HORIZONTAL MULL #5765		N/A	53-1/8" x 72" W/TRANSOM	32" x 72" W/TRANSOM
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	HORIZONTAL MULL #5765		N/A	45" x 72" W/TRANSOM	30" x 72" W/TRANSOM
650 SH OR PW SNG GLZ OR INS	UP TO 110 MPH	SELF-STACKING SILL #CM-45026		53-1/8" x 72" W/TRANSOM	N/A	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 120 MPH	SELF-STACKING SILL #CM-45026		48" x 72" W/TRANSOM	N/A	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	SELF-STACKING SILL #CM-45026		37" x 72" W/TRANSOM	N/A	N/A
650 SH OR PW SNG GLZ OR INS	UP TO 140 MPH	(NO MULLION)		N/A	36" x 72"	36" x 72"