Columbia County Building Permit Application

For Office Use Only Application # 0709-80 Date Received 5/27 By JW Permit # 26304/14161

Application Approved by - Zoning Official BLK Date 02.10.07 Plans Examiner OKJH Date 10-1-07

Flood Zone X Plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res. Low Den.

Comments First Floor 1 St class Rd.

☐ NOC ☐ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Fax 752-2282

Name Authorized Person Signing Permit Linda or Melanie Roder Phone 752-2281

Address 387 SW Kemp Ct Lake City FL 32024

Owners Name Ruby McNeill + Nan McNeill Phone 752-1986

911 Address 813 NW Country Lake Dr Lake City FL 32055

Contractors Name Blake Lunde Phone 754-5810

Address 872 SW Jaguar Dr Lake City FL 32025

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Disosway Mark Disosway

Mortgage Lenders Name & Address First Federal

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

Property ID Number 22-3S-16-02267-108 Estimated Cost of Construction 353,460

Subdivision Name Country Lake in Woodborough Lot 8 Block ___ Unit ___ Phase 1

Driving Directions Hwy 90 West, Lon Lake Jeffery Rd, Lon Scenic Lake Drive, Ron Country Lake Drive, 3rd lot down on L

Type of Construction SFD Number of Existing Dwellings on Property 0

Total Acreage .76 Lot Size 76 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 45' Side 16.5 Side 16.5 Rear 92'

Total Building Height 31'-4" Number of Stories 1 Heated Floor Area 2879 TOTAL 4002 Roof Pitch 10-12

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.

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 COMMENCMENT 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 Authorized Person by Notarized Letter

Contractor Signature

Contractors License Number CBC1253408

Competency Card Number N/A

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY STAMP/SEAL

Sworn to (or affirmed) and subscribed before me this 13th day of August 2007.

Personally known ✓ or Produced Identification ___

Notary Signature

NORA L. TERRY
Notary Public - State of Florida
My Commission Expires 2008/24.
Commission # DD 410803
Bonded By National Notary Ass

nst. Number: 200712018680 Book: 1128 Page: 1356 Date: 8/17/2007 Time: 8:35:53 AM

TMR

07-299

THIS INSTRUMENT WAS PREPARED BY:
FIRST FEDERAL SAVINGS BANK OF FLORIDA
4705 WEST U.S. HIGHWAY 90
P.O. BOX 2029
LAKE CITY, FLORIDA 32056

PERMIT NO._____ TAX FOLIO NO. R02267-108

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF Columbia

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

1. Description of property: Lot 8, Country Lake in Woodborough, Phase 1 a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 97-99, public records of Columbia County, FL
2. General description of improvement: **Construction of Dwelling**
3. Owner information:
   a. Name and address: Ruby E. McNeill and Nan T. McNeill, Husband and wife 532 NW Lake Valley Terrace, Lake City, FL 32055
   b. Interest in property: **Fee Simple**
   c. Name and address of fee simple title holder (if other than Owner): **NONE**
4. Contractor (name and address): Blake Construction Company 291 SW Sisters Welcome Road, Lake City, FL 32025
5. Surety:
   a. Name and address: _____
   b. Amount of bond: _____
6. Lender: **FIRST FEDERAL SAVINGS BANK OF FLORIDA**
   4705 WEST U.S. HIGHWAY 90
   P. O. BOX 2029
   LAKE CITY, FLORIDA 32056
7. Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes: NONE
8. In addition to himself, Owner designates **PAULA HACKER of FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 West U.S. Highway 90 / P. O. Box 2029, Lake City, Florida 32056** 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).

Ruby E. McNeill
Borrower Name

Nan T. McNeill
Co-Borrower Name

The foregoing instrument was acknowledged before me this 13th day of August, 2007 by Ruby E. & Nan T. McNeill, who is personally known to me or who has produced driver's license for identification.

Notary Public
My Commission Expires:

TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

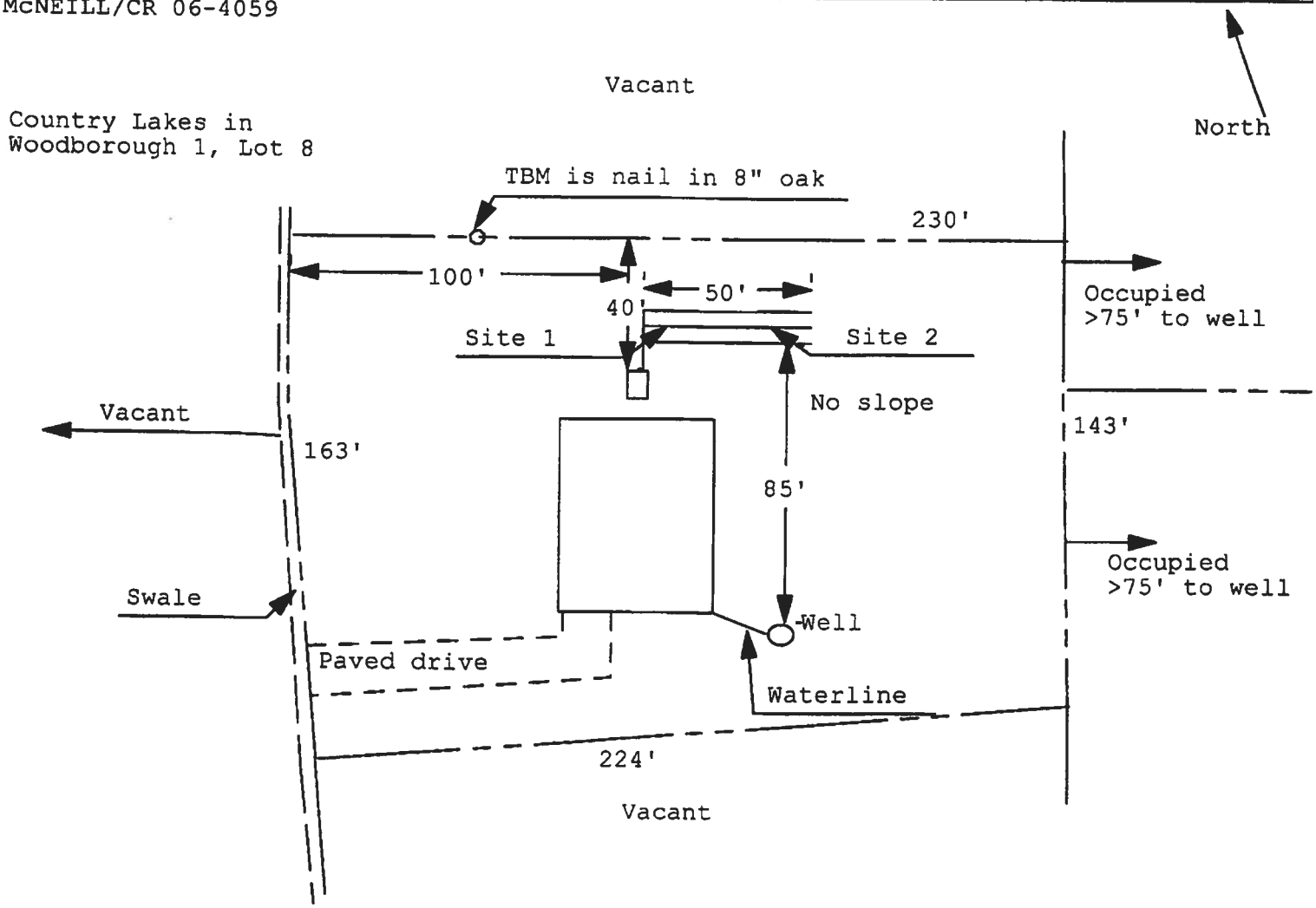
Inst:200712018680 Date:8/17/2007 Time:8:35 AM
DC,P.DeWitt Cason ,Columbia County Page 1 of 1

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

Permit Application Number: 07-0722

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

McNEILL/CR 06-4059



1 inch = 50 feet

Site Plan Submitted By Paul Lloyd **Date** 7/17/07

Plan Approved ✓ **Not Approved** ____ **Date** 9/11/07

By Mark S Zaucha Columbia **CPHU**

Notes: _____

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 07-299
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

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

Property Appraiser's
Identification Number R02267-108

Inst:200712018414 Date:8/14/2007 Time:1:01 PM
Doc Stamp-Deed:483.00
DC,P.DeWitt Cason ,Columbia County Page 1 of 2

WARRANTY DEED

This Warranty Deed, made this 13th day of August, 2007, BETWEEN MS, DM & BL, LLC, A Florida Limited Liability Company, whose post office address is 3101 US Highway 90 West, Suite 101, Lake City, Fl 32055, of the County of Columbia, State of Florida, grantor*, and RUBY E. McNEILL and NAN T. McNEILL, Husband and Wife whose post office address is Post Office Box 3697, Lake City, FL 32056-3697, of the County of Columbia, State of Florida, grantee*.

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

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

Lot 8, COUNTRY LAKE IN WOODBOROUGH, Phase 1, a subdivision according to the plat thereof as recorded in Plat Book 8, Pages 97-99 of the public records of Columbia County, Florida.

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

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

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

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

Signed, sealed and delivered in our presence:

(Signature of First Witness)

Terry McDavid
(Typed Name of First Witness)

(Signature of Second Witness)

CRYSTAL L. BRUNNER
(Typed Name of Second Witness)

MS, DM & BL, LLC

Deborah S. Myles (SEAL)
Grantor
By: DEBORAH S. MYLES,
Managing Member

STATE OF Florida
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 13th day of August, 2007, by DEBORAH S. MYLES, as Managing Member of MS, DM & BL, LLC, A Florida Limited Liability Company who is personally known to me or who has produced _____ as identification and who did not take an oath.

My Commission Expires:

Notary Public
Printed, typed, or stamped name:

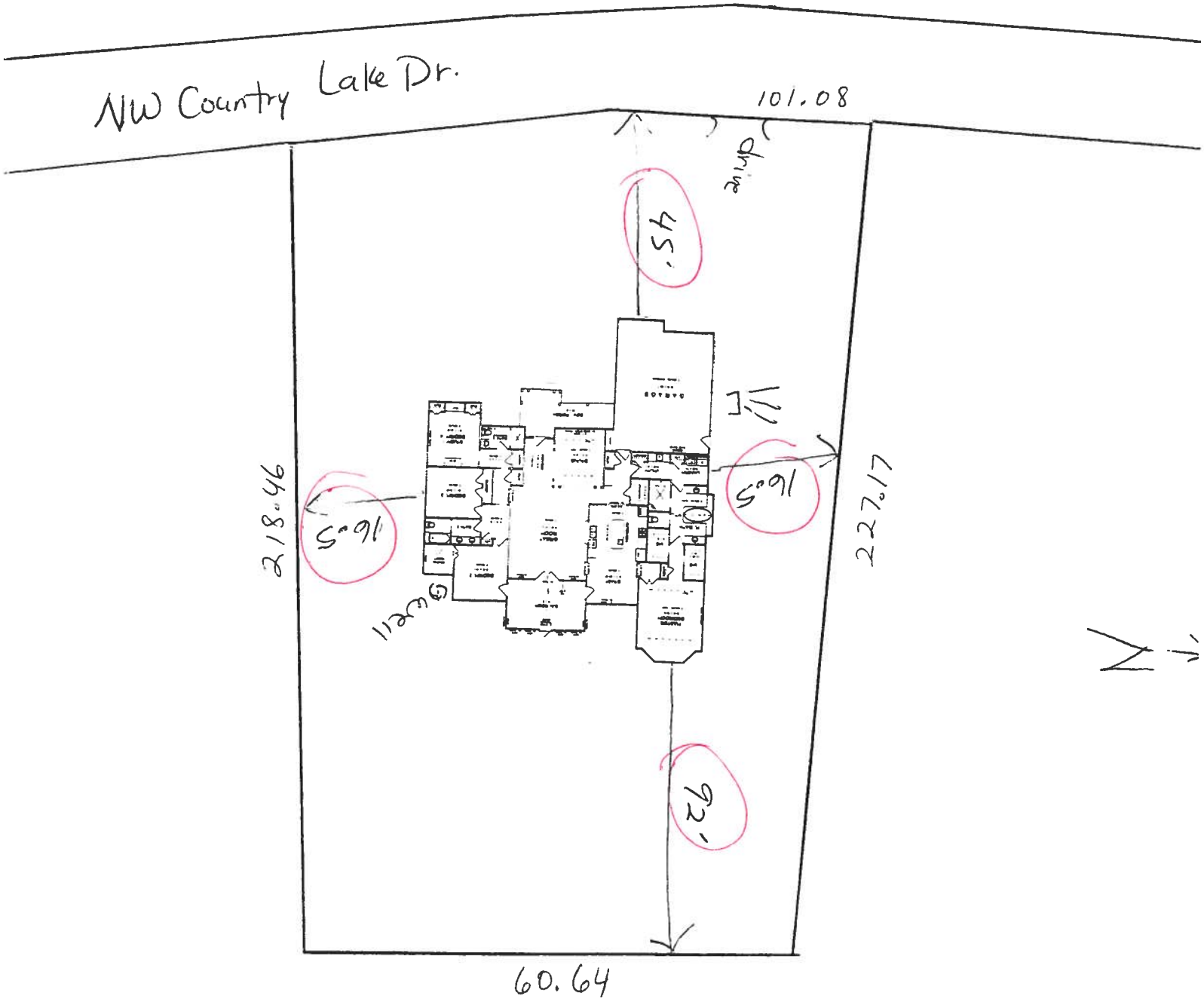
TERRY MCDAVID
MY COMMISSION # DD 500788
EXPIRES: January 16, 2010
Bonded Thru Notary Public Underwriters

Lot 8

Country Lake in Woodborough

22-35-16-02267-108

Ruby & Nan McNeil



Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

Date: 9-21-07

McNeill — Lake City FL

(Address of Treatment or Lot/Block of Treatment) — City

Florida Pest Control & Chemical Co.

www.flapest.com

Product to be used: Bora-Care Termiticide (Wood Treatmen)

Chemical to be used: 23% Disodium Octaborate Tetrahydra e

Application will be performed onto structural wood at dried-in stage of construct n. Bora-Care Termiticide application shall be applied according to EPA registered label directions as stated in the Florida Building Code Section 1861.1.8

(Information to be provided to local building code offices prior to concrete foundation installation.)

Notice of Authorization

I, Blake N. Lunde, II, hereby authorize Linda Roder or Melanie Roder to be my Representative and act on my behalf in all aspects for applying for a Building Permit to be located in Columbia County.

Contractor's Signature

Date 8/13/07

Sworn to and Subscribed before me this 13th day of August, 2007 by Blake N. Lunde, II, who

✓ is Personally Known or

_____ has produced _____ as identification.

NORA L. TERRY
Notary Public - State of Florida
My Commission Expires Mar 24, 2009
Commission # DD 410803
Bonded By National Notary Assn.

Notary Public

Notary Stamp

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-[illegible]
FAX (904) 755-7[illegible]
[illegible]
LAKE CITY, FLORIDA [illegible]
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,

Donald D. Hall
DDH/jk

FORM 600A-2004 EnergyGauge® 4.1

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**709201BlakeConstruction**	Builder:	Blake Lynde
Address:	**Lot: 8, Sub: Woodborough, Plat:**	Permitting Office:	Columbia
City, State:	**, FL**	Permit Number:	26304
Owner:	**McNeill Residence**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 58.0 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)	2874 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor: (or Single or Double DEFAULT)	7a. (Dble Default) 465.3 ft²	13. Heating systems	
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 465.3 ft²	a. Electric Heat Pump	Cap: 58.0 kBtu/hr
8. Floor types			HSPF: 7.90
a. Slab-On-Grade Edge Insulation	R=0.0, 260.0(p) ft	b. N/A	
b. N/A		c. N/A	
c. N/A			
9. Wall types		14. Hot water systems	
a. Frame, Wood, Exterior	R=13.0, 1545.7 ft²	a. Electric Resistance	Cap: 40.0 gallons
b. Frame, Wood, Adjacent	R=13.0, 268.0 ft²		EF: 0.93
c. N/A		b. N/A	
d. N/A		c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
e. N/A		15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
10. Ceiling types			
a. Single Assembly	R=23.0, 2934.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 230.0 ft		
b. N/A			

Glass/Floor Area: 0.16 Total as-built points: 38388 Total base points: 39436 **PASS**

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

PREPARED BY: _____

DATE: 9-27-07

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

OWNER/AGENT: _____

DATE: 9-27-07

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.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 8, Sub: Woodborough, Plat: , , FL,** 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	**2874.0**	**20.04**	**10367.1**	Double, Clear	SW	1.5	6.5	15.0	40.16	0.90	544.4	
				Double, Clear	S	1.5	6.5	30.0	35.87	0.88	943.5	
				Double, Clear	W	1.5	6.5	15.0	38.52	0.93	535.7	
				Double, Clear	W	1.5	6.5	15.0	38.52	0.93	535.7	
				Double, Clear	S	1.5	6.5	37.5	35.87	0.88	1179.3	
				Double, Clear	S	1.5	1.5	7.5	35.87	0.52	140.0	
				Double, Clear	S	1.5	0.0	72.0	35.87	0.43	1115.4	
				Double, Clear	S	1.5	0.0	10.0	35.87	0.43	154.9	
				Double, Clear	S	1.5	0.0	24.0	35.87	0.43	371.8	
				Double, Clear	S	1.5	6.5	30.0	35.87	0.88	943.5	
				Double, Clear	W	1.5	6.5	15.0	38.52	0.93	535.7	
				Double, Clear	W	1.5	6.5	12.5	38.52	0.93	446.5	
				Double, Clear	W	1.5	6.5	30.0	38.52	0.93	1071.5	
				Double, Clear	W	1.5	3.5	12.0	38.52	0.78	359.9	
				Double, Clear	N	1.5	0.0	18.0	19.20	0.59	205.0	
				Double, Clear	N	1.5	6.5	10.0	19.20	0.95	181.9	
				Double, Clear	N	12.0	3.0	7.5	19.20	0.59	85.4	
				Double, Clear	N	12.0	8.0	13.3	19.20	0.65	167.0	
				Double, Clear	N	8.0	7.5	36.0	19.20	0.70	484.1	
				Double, Clear	E	1.5	5.5	12.0	42.06	0.90	452.4	
				Double, Clear	E	1.5	0.0	16.0	42.06	0.36	240.1	
				Double, Clear	E	1.5	0.0	15.0	42.06	0.36	225.1	
				Double, Clear	E	1.5	3.5	12.0	42.06	0.78	391.5	
				As-Built Total:				**465.3**			**11310.5**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	268.0	0.70	187.6	Frame, Wood, Exterior	13.0	1545.7	1.50	2318.5
Exterior	1545.7	1.70	2627.7	Frame, Wood, Adjacent	13.0	268.0	0.60	160.8
Base Total:	**1813.7**		**2815.3**	**As-Built Total:**		**1813.7**		**2479.3**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Exterior Insulated	10.0	4.10	41.0
Exterior	30.0	4.10	123.0	Exterior Insulated	20.0	4.10	82.0
				Adjacent Insulated	20.0	1.60	32.0
Base Total:	**50.0**		**155.0**	**As-Built Total:**	**50.0**		**155.0**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 8, Sub: Woodborough, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT					
CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	=	Points
Under Attic	2874.0	1.73	4972.0	Single Assembly	23.0	2934.0	5.13 X 1.00		15055.6
Base Total:	**2874.0**		**4972.0**	**As-Built Total:**		**2934.0**			**15055.6**
FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	=	Points
Slab	260.0(p)	-37.0	-9620.0	Slab-On-Grade Edge Insulation	0.0	260.0(p	-41.20		-10712.0
Raised	0.0	0.00	0.0						
Base Total:			**-9620.0**	**As-Built Total:**		**260.0**			**-10712.0**
INFILTRATION	Area X	BSPM	= Points			Area X	SPM	=	Points
	2874.0	10.21	29343.5			2874.0	10.21		29343.5
Summer Base Points: 38032.9				**Summer As-Built Points:**					**47632.0**
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 58000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
				47632	1.00	(1.09 x 1.147 x 0.91)	0.263	1.000	14227.3
38032.9	**0.4266**		**16224.9**	**47632.0**	**1.00**	**1.138**	**0.263**	**1.000**	**14227.3**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 8, Sub: Woodborough, Plat: , , FL,** 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	2874.0	12.74	6590.7	Double, Clear	SW	1.5	6.5	15.0	16.74	1.05	263.8
				Double, Clear	S	1.5	6.5	30.0	13.30	1.09	436.4
				Double, Clear	W	1.5	6.5	15.0	20.73	1.02	317.0
				Double, Clear	W	1.5	6.5	15.0	20.73	1.02	317.0
				Double, Clear	S	1.5	6.5	37.5	13.30	1.09	545.5
				Double, Clear	S	1.5	1.5	7.5	13.30	2.73	272.4
				Double, Clear	S	1.5	0.0	72.0	13.30	3.66	3504.2
				Double, Clear	S	1.5	0.0	10.0	13.30	3.66	486.7
				Double, Clear	S	1.5	0.0	24.0	13.30	3.66	1168.1
				Double, Clear	S	1.5	6.5	30.0	13.30	1.09	436.4
				Double, Clear	W	1.5	6.5	15.0	20.73	1.02	317.0
				Double, Clear	W	1.5	6.5	12.5	20.73	1.02	264.2
				Double, Clear	W	1.5	6.5	30.0	20.73	1.02	634.1
				Double, Clear	W	1.5	3.5	12.0	20.73	1.07	265.2
				Double, Clear	N	1.5	0.0	18.0	24.58	1.03	454.5
				Double, Clear	N	1.5	6.5	10.0	24.58	1.00	246.3
				Double, Clear	N	12.0	3.0	7.5	24.58	1.03	189.4
				Double, Clear	N	12.0	8.0	13.3	24.58	1.02	334.3
				Double, Clear	N	8.0	7.5	36.0	24.58	1.02	901.7
				Double, Clear	E	1.5	5.5	12.0	18.79	1.04	234.8
				Double, Clear	E	1.5	0.0	16.0	18.79	1.51	453.1
				Double, Clear	E	1.5	0.0	15.0	18.79	1.51	424.8
				Double, Clear	E	1.5	3.5	12.0	18.79	1.09	246.6
				As-Built Total:				**465.3**			**12713.6**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	268.0	3.60	964.8	Frame, Wood, Exterior	13.0	1545.7	3.40	5255.4
Exterior	1545.7	3.70	5719.1	Frame, Wood, Adjacent	13.0	268.0	3.30	884.4
Base Total:	**1813.7**		**6683.9**	**As-Built Total:**		**1813.7**		**6139.8**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	20.0	8.00	160.0	Exterior Insulated	10.0	8.40	84.0
Exterior	30.0	8.40	252.0	Exterior Insulated	20.0	8.40	168.0
				Adjacent Insulated	20.0	8.00	160.0
Base Total:	**50.0**		**412.0**	**As-Built Total:**	**50.0**		**412.0**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 8, Sub: Woodborough, Plat: , , FL,** PERMIT #:

BASE				AS-BUILT					
CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X	WCM =	Points
Under Attic	2874.0	2.05	5891.7	Single Assembly	23.0	2934.0	1.68 X	1.00	4920.7
Base Total:	**2874.0**		**5891.7**	**As-Built Total:**		**2934.0**			**4920.7**
FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	=	Points
Slab	260.0(p)	8.9	2314.0	Slab-On-Grade Edge Insulation	0.0	260.0(p	18.80		4888.0
Raised	0.0	0.00	0.0						
Base Total:			**2314.0**	**As-Built Total:**		**260.0**			**4888.0**
INFILTRATION	Area X	BWPM	= Points			Area X	WPM	=	Points
	2874.0	-0.59	-1695.7			2874.0	-0.59		-1695.7
Winter Base Points:			**20196.6**	**Winter As-Built Points:**					**27378.4**
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 58000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
20196.6	**0.6274**	**12671.3**		27378.4 **27378.4**	1.000 **1.00**	(1.069 x 1.169 x 0.93) **1.162**	0.432 **0.432**	1.000 **1.000**	13734.4 **13734.4**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 8, Sub: Woodborough, Plat: , , FL,** 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	40.0	0.93	4	1.00	2606.67	1.00	10426.7	
				As-Built Total:						**10426.7**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
16225	**12671**	**10540**	**39436**	**14227**	**13734**	**10427**	**38388**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 8, Sub: Woodborough, Plat: , , FL,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. 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.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.4

The higher the score, the more efficient the home.

McNeill Residence, Lot: 8, Sub: Woodborough, Plat: , , FL,

1.	New construction or existing	New	12.	Cooling systems	
2.	Single family or multi-family	Single family	a.	Central Unit	Cap: 58.0 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)	2874 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) 465.3 ft²	a.	Electric Heat Pump	Cap: 58.0 kBtu/hr
b.	SHGC:				HSPF: 7.90
	(or Clear or Tint DEFAULT) 7b.	(Clear) 465.3 ft²	b.	N/A	
8.	Floor types				
a.	Slab-On-Grade Edge Insulation	R=0.0, 260.0(p) ft	c.	N/A	
b.	N/A				
c.	N/A		14.	Hot water systems	
9.	Wall types		a.	Electric Resistance	Cap: 40.0 gallons
a.	Frame, Wood, Exterior	R=13.0, 1545.7 ft²			EF: 0.93
b.	Frame, Wood, Adjacent	R=13.0, 268.0 ft²	b.	N/A	
c.	N/A				
d.	N/A		c.	Conservation credits	
e.	N/A			(HR-Heat recovery, Solar	
10.	Ceiling types			DHP-Dedicated heat pump)	
a.	Single Assembly	R=23.0, 2934.0 ft²	15.	HVAC credits	
b.	N/A			(CF-Ceiling fan, CV-Cross ventilation,	
c.	N/A			HF-Whole house fan,	
11.	Ducts			PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 230.0 ft		MZ-C-Multizone cooling,	
b.	N/A			MZ-H-Multizone heating)	

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.

Columbia County Building Department
Culvert Permit

Culvert Permit No.
00001461

DATE 10/03/2007 PARCEL ID # 22-3S-16-02267-108

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 387 SW KEMP CT LAKE CITY FL 32024

OWNER RUBY MCNEILL PHONE 752-1986

ADDRESS 813 NW COUNTRY LAKE DR LAKE CITY FL 32055

CONTRACTOR BLAKE LUNDE PHONE 754-5810

LOCATION OF PROPERTY 90W, TL ON LAKE JEFFREY RD, TL ON SCENIC LAKE DR, TR ON COUNTRY LAKE DR., 3RD LOT ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COUNTRY LAKE AT WOOD 8

SIGNATURE

INSTALLATION REQUIREMENTS

[X] Culvert size will be 18 inches in diameter with a total lenght 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

Residential System Sizing Calculation

Summary

McNeill Residence

, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

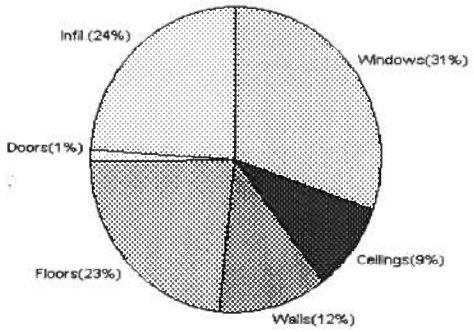
9/27/2007

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	**49001**	**Btuh**	**Total cooling load calculation**	**42969**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	118.4	58000	Sensible (SHR = 0.75)	120.8	43500
Heat Pump + Auxiliary(0.0kW)	118.4	58000	Latent	208.4	14500
			Total (Electric Heat Pump)	135.0	58000

WINTER CALCULATIONS

Winter Heating Load (for 2874 sqft)

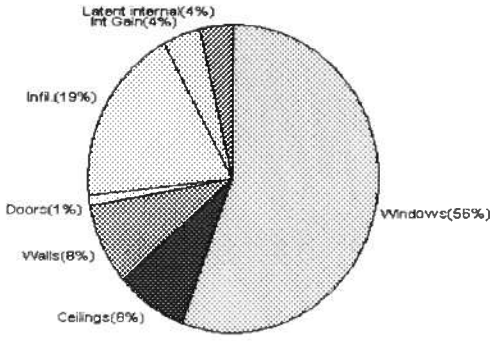
Load component			Load	
Window total	465	sqft	14978	Btuh
Wall total	1814	sqft	5956	Btuh
Door total	50	sqft	648	Btuh
Ceiling total	2934	sqft	4542	Btuh
Floor total	260	sqft	11352	Btuh
Infiltration	285	cfm	11525	Btuh
Duct loss			0	Btuh
Subtotal			**49001**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**49001**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2874 sqft)

Load component			Load	
Window total	465	sqft	23888	Btuh
Wall total	1814	sqft	3628	Btuh
Door total	50	sqft	490	Btuh
Ceiling total	2934	sqft	3437	Btuh
Floor total			0	Btuh
Infiltration	147	cfm	2728	Btuh
Internal gain			1840	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**36012**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			5357	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**6957**	**Btuh**
TOTAL HEAT GAIN			**42969**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 9-27-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

McNeill Residence
, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

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

9/27/2007

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

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
2	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
3	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
5	2, Clear, Metal, 0.87	NW	37.5	32.2	1207 Btuh
6	2, Clear, Metal, 0.87	NW	7.5	32.2	241 Btuh
7	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
8	2, Clear, Metal, 0.87	NW	10.0	32.2	322 Btuh
9	2, Clear, Metal, 0.87	NW	24.0	32.2	773 Btuh
10	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
11	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
12	2, Clear, Metal, 0.87	NE	12.5	32.2	402 Btuh
13	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
14	2, Clear, Metal, 0.87	NE	12.0	32.2	386 Btuh
15	2, Clear, Metal, 0.87	SE	18.0	32.2	579 Btuh
16	2, Clear, Metal, 0.87	SE	10.0	32.2	322 Btuh
17	2, Clear, Metal, 0.87	SE	7.5	32.2	241 Btuh
18	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh
19	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
20	2, Clear, Metal, 0.87	SW	12.0	32.2	386 Btuh
21	2, Clear, Metal, 0.87	SW	16.0	32.2	515 Btuh
22	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
23	2, Clear, Metal, 0.87	SW	12.0	32.2	386 Btuh
	Window Total		465(sqft)		14978 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1546	3.3	5076 Btuh
2	Frame - Wood - Adj(0.09)	13.0	268	3.3	880 Btuh
	Wall Total		1814		5956 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		10	12.9	130 Btuh
	Door Total		50		648Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Single Assembly/D/Shin)	23.0	2934	1.5	4542 Btuh
	Ceiling Total		2934		4542Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	260.0 ft(p)	43.7	11352 Btuh
	Floor Total		260		11352 Btuh
			Zone Envelope Subtotal:		37476 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

McNeill Residence
, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

9/27/2007

Infiltration	Type Natural	ACH X 0.66	Zone Volume 25866	CFM= 284.5	11525 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1	**Sensible Zone Subtotal**				**49001 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	49001 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	49001 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

McNeill Residence
, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

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

9/27/2007

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

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
2	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
3	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
5	2, Clear, Metal, 0.87	NW	37.5	32.2	1207 Btuh
6	2, Clear, Metal, 0.87	NW	7.5	32.2	241 Btuh
7	2, Clear, Metal, 0.87	NW	72.0	32.2	2318 Btuh
8	2, Clear, Metal, 0.87	NW	10.0	32.2	322 Btuh
9	2, Clear, Metal, 0.87	NW	24.0	32.2	773 Btuh
10	2, Clear, Metal, 0.87	NW	30.0	32.2	966 Btuh
11	2, Clear, Metal, 0.87	NE	15.0	32.2	483 Btuh
12	2, Clear, Metal, 0.87	NE	12.5	32.2	402 Btuh
13	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
14	2, Clear, Metal, 0.87	NE	12.0	32.2	386 Btuh
15	2, Clear, Metal, 0.87	SE	18.0	32.2	579 Btuh
16	2, Clear, Metal, 0.87	SE	10.0	32.2	322 Btuh
17	2, Clear, Metal, 0.87	SE	7.5	32.2	241 Btuh
18	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh
19	2, Clear, Metal, 0.87	SE	36.0	32.2	1159 Btuh
20	2, Clear, Metal, 0.87	SW	12.0	32.2	386 Btuh
21	2, Clear, Metal, 0.87	SW	16.0	32.2	515 Btuh
22	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
23	2, Clear, Metal, 0.87	SW	12.0	32.2	386 Btuh
	Window Total		465(sqft)		14978 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1546	3.3	5076 Btuh
2	Frame - Wood - Adj(0.09)	13.0	268	3.3	880 Btuh
	Wall Total		1814		5956 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		10	12.9	130 Btuh
	Door Total		50		648Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Single Assembly/D/Shin)	23.0	2934	1.5	4542 Btuh
	Ceiling Total		2934		4542Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	260.0 ft(p)	43.7	11352 Btuh
	Floor Total		260		11352 Btuh
			Zone Envelope Subtotal:		37476 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

McNeill Residence
, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

9/27/2007

Infiltration	Type Natural	ACH X 0.66	Zone Volume 25866	CFM= 284.5	11525 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh
Zone #1	**Sensible Zone Subtotal**				**49001 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	49001 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	49001 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

McNeill Residence
, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 9/27/2007

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

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	N	1.5ft.	6.5ft.	15.0	0.0	15.0	29	29	434 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
3	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	15.0	0.0	15.0	29	60	901 Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	15.0	0.0	15.0	29	60	901 Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	37.5	0.0	37.5	29	60	2251 Btuh
6	2, Clear, 0.87, None,N,N	NW	1.5ft.	1.5ft.	7.5	0.0	7.5	29	60	450 Btuh
7	2, Clear, 0.87, None,N,N	NW	1.5ft.	0ft.	72.0	0.0	72.0	29	60	4323 Btuh
8	2, Clear, 0.87, None,N,N	NW	1.5ft.	0ft.	10.0	0.0	10.0	29	60	600 Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	0ft.	24.0	0.0	24.0	29	60	1441 Btuh
10	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
11	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	15.0	0.0	15.0	29	60	901 Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	12.5	0.0	12.5	29	60	750 Btuh
13	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
14	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	12.0	0.0	12.0	29	60	720 Btuh
15	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	18.0	18.0	0.0	29	63	521 Btuh
16	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	10.0	2.0	8.0	29	63	557 Btuh
17	2, Clear, 0.87, None,N,N	SE	12ft.	3ft.	7.5	7.5	0.0	29	63	217 Btuh
18	2, Clear, 0.87, None,N,N	SE	12ft.	8ft.	13.3	13.3	0.0	29	63	385 Btuh
19	2, Clear, 0.87, None,N,N	SE	8ft.	7.5ft.	36.0	36.0	0.0	29	63	1043 Btuh
20	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	12.0	3.1	8.9	29	63	647 Btuh
21	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	16.0	16.0	0.0	29	63	463 Btuh
22	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	15.0	15.0	0.0	29	63	434 Btuh
23	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	12.0	6.1	5.9	29	63	544 Btuh
	Window Total				465 (sqft)					23888 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1545.7	2.1	3224 Btuh
2	Frame - Wood - Adj	13.0/0.09	268.0	1.5	404 Btuh
	Wall Total		1814 (sqft)		3628 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
3	Insulated - Exterior	10.0	9.8	98 Btuh
	Door Total	50 (sqft)		490 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Single Assembly/DarkShingle	23.0	2934.0	1.2	3437 Btuh
	Ceiling Total		2934 (sqft)		3437 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	260 (ft(p))	0.0	0 Btuh
	Floor Total		260.0 (sqft)		0 Btuh

		Load
	Zone Envelope Subtotal:	31444 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

McNeill Residence
, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

9/27/2007

Infiltration	Type SensibleNatural	ACH 0.34	Volume(cuft) 25866			CFM= 146.6	Load 2728	Btuh
Internal gain		Occupants 8	Btuh/occupant X 230		+	Appliance 0	Load 1840	Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0	Btuh
						Sensible Zone Load	**36012**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

McNeill Residence
, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

9/27/2007

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**36012 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**36012 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**36012 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	5357 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**6957 Btuh**
	TOTAL GAIN	**42969 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

McNeill Residence
, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 9/27/2007

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

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	N	1.5ft.	6.5ft.	15.0	0.0	15.0	29	29	434 Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
3	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	15.0	0.0	15.0	29	60	901 Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	15.0	0.0	15.0	29	60	901 Btuh
5	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	37.5	0.0	37.5	29	60	2251 Btuh
6	2, Clear, 0.87, None,N,N	NW	1.5ft.	1.5ft.	7.5	0.0	7.5	29	60	450 Btuh
7	2, Clear, 0.87, None,N,N	NW	1.5ft.	0ft.	72.0	0.0	72.0	29	60	4323 Btuh
8	2, Clear, 0.87, None,N,N	NW	1.5ft.	0ft.	10.0	0.0	10.0	29	60	600 Btuh
9	2, Clear, 0.87, None,N,N	NW	1.5ft.	0ft.	24.0	0.0	24.0	29	60	1441 Btuh
10	2, Clear, 0.87, None,N,N	NW	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
11	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	15.0	0.0	15.0	29	60	901 Btuh
12	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	12.5	0.0	12.5	29	60	750 Btuh
13	2, Clear, 0.87, None,N,N	NE	1.5ft.	6.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
14	2, Clear, 0.87, None,N,N	NE	1.5ft.	3.5ft.	12.0	0.0	12.0	29	60	720 Btuh
15	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	18.0	18.0	0.0	29	63	521 Btuh
16	2, Clear, 0.87, None,N,N	SE	1.5ft.	6.5ft.	10.0	2.0	8.0	29	63	557 Btuh
17	2, Clear, 0.87, None,N,N	SE	12ft.	3ft.	7.5	7.5	0.0	29	63	217 Btuh
18	2, Clear, 0.87, None,N,N	SE	12ft.	8ft.	13.3	13.3	0.0	29	63	385 Btuh
19	2, Clear, 0.87, None,N,N	SE	8ft.	7.5ft.	36.0	36.0	0.0	29	63	1043 Btuh
20	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	12.0	3.1	8.9	29	63	647 Btuh
21	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	16.0	16.0	0.0	29	63	463 Btuh
22	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	15.0	15.0	0.0	29	63	434 Btuh
23	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	12.0	6.1	5.9	29	63	544 Btuh
	Window Total				465 (sqft)					23888 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1545.7	2.1	3224 Btuh
2	Frame - Wood - Adj	13.0/0.09	268.0	1.5	404 Btuh
	Wall Total		1814 (sqft)		3628 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
3	Insulated - Exterior	10.0	9.8	98 Btuh
	Door Total	50 (sqft)		490 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Single Assembly/DarkShingle	23.0	2934.0	1.2	3437 Btuh
	Ceiling Total		2934 (sqft)		3437 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	260 (ft(p))	0.0	0 Btuh
	Floor Total		260.0 (sqft)		0 Btuh

		Load
	Zone Envelope Subtotal:	31444 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

McNeill Residence
, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

9/27/2007

Infiltration	Type SensibleNatural	ACH 0.34	Volume(cuft) 25866			CFM= 146.6	Load 2728	Btuh
Internal gain		Occupants 8	Btuh/occupant X 230		+	Appliance 0	Load 1840	Btuh
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)					DGM = 0.00	0.0	Btuh
						Sensible Zone Load	**36012**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

McNeill Residence
, FL

Project Title:
709201BlakeConstruction

Class 3 Rating
Registration No. 0
Climate: North

9/27/2007

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**36012 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**36012 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**36012 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	5357 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**6957 Btuh**
	TOTAL GAIN	**42969 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

Residential Window Diversity

MidSummer

McNeill Residence

, FL

Project Title:
709201BlakeConstruction

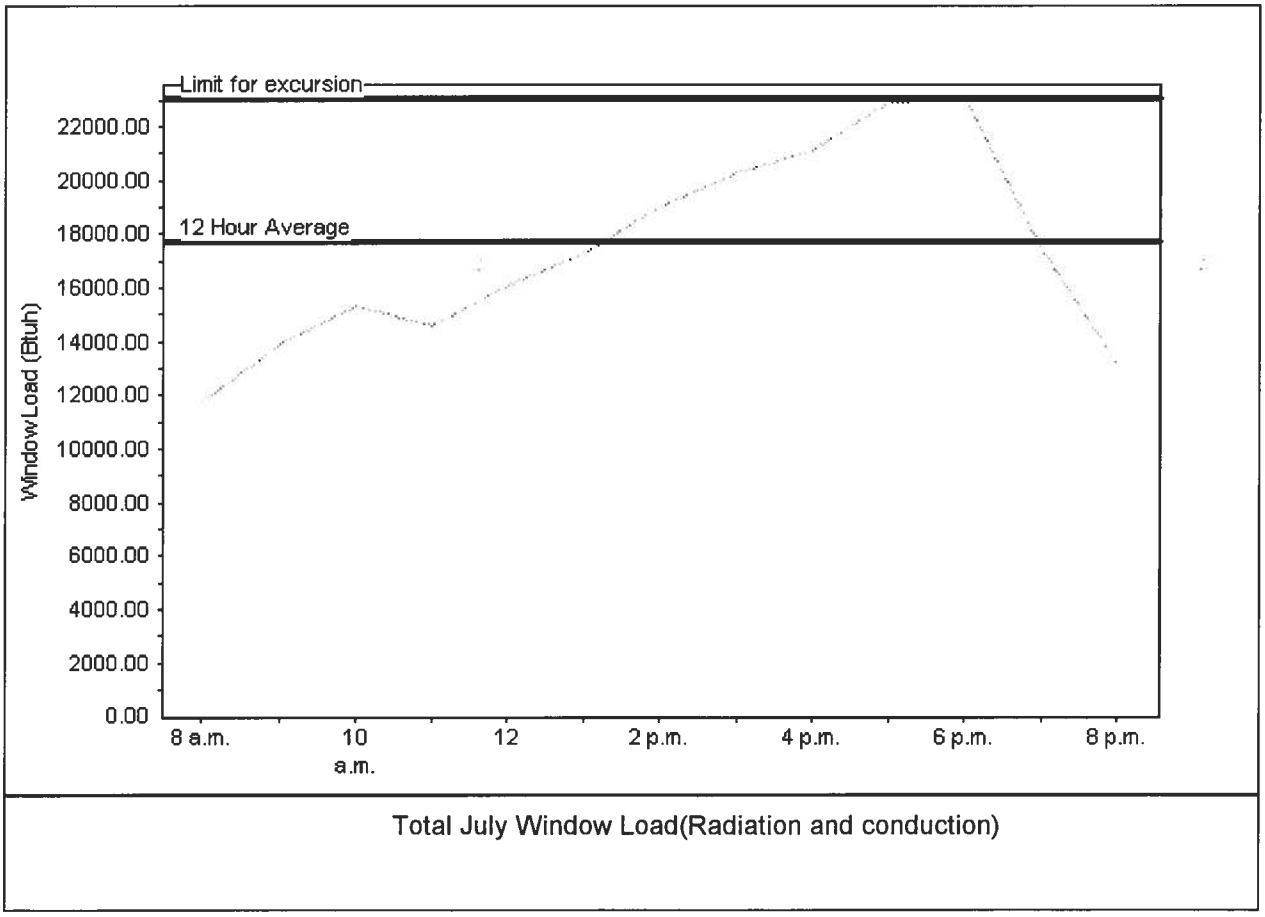
Class 3 Rating
Registration No. 0
Climate: North

9/27/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	17735 Btu
Summer setpoint	75 F	Peak window load for July	23033 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	23056 Btu
Latitude	29 North	Window excursion (July)	None

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

The midsummer window load for this house does not exceed the window load excursion limit.
This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 9-27-07

Florida Building Code Online

The Florida Department of Community Affairs
Building Code Information System

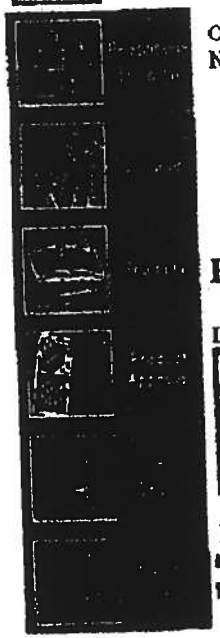
FLORIDA BUILDING CODE

Overview | User Registration | Organization Registration | User Authorization | Organization Search | Organization Accreditation

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

Organization Type: Product Manufacturer

Approval Status: (ALL)



Organization Name: General American Door - Product Manufacturer

Cancel Search

Result List for Organizations

Displaying 1-1 of 1

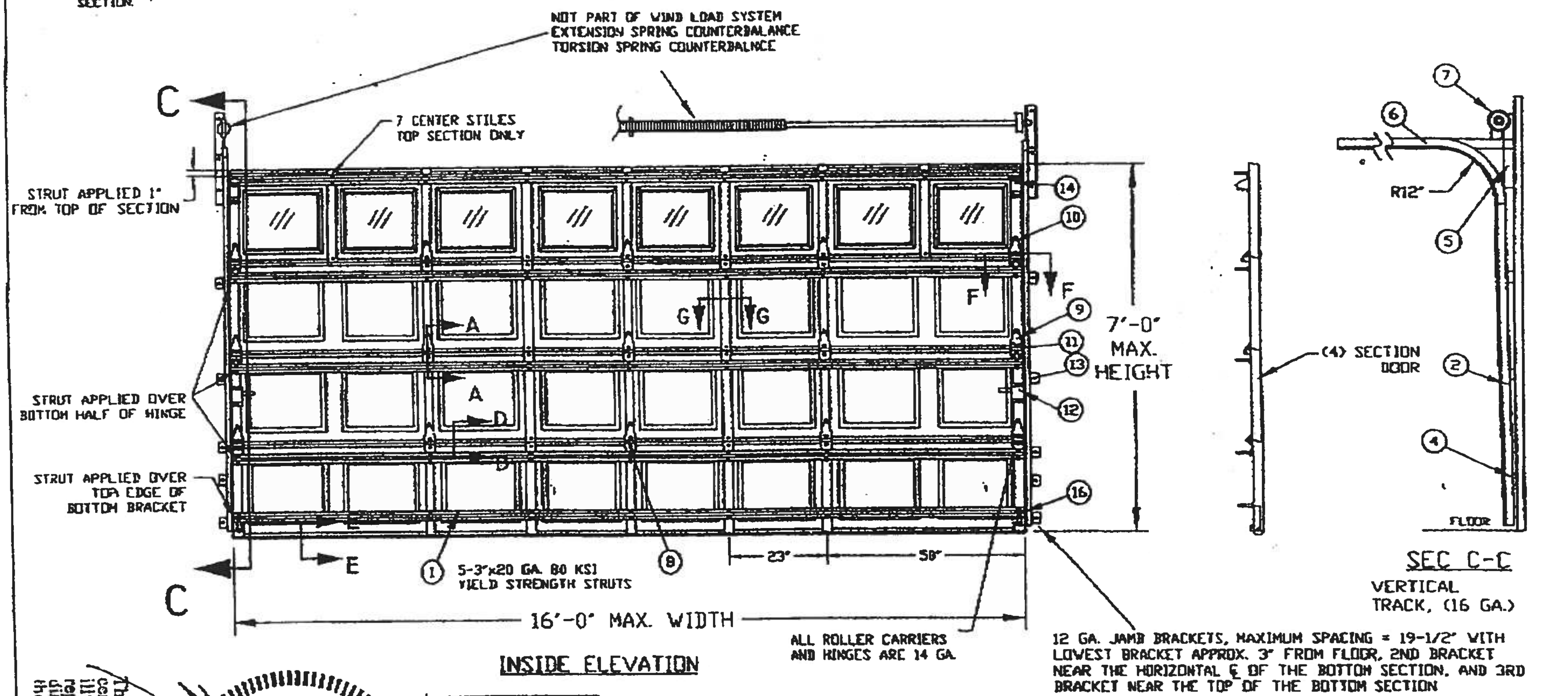
Name	City	Contact	Phone	Type	Expire	Status
General American Door	Montgomery	James Campbell	6308593000	Product Manufacturer	01/01/2099	Approved
Org Code: PDM System ID: 3585			Site Link: www.gadco.com			

Displaying 1-1 of 1

REV.	DATE	BY	DESCRIPTION
A - A	11-10-00	DW	SEE E.C.N. 831

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5¼" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. (A) DROP IN TYPE OF INSULATION IS OPTIONAL



INSIDE ELEVATION

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

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL PE No. 024280 NASER R. [illegible]

LISTED SBCCI PST & ESI REPORT No. 2202

TEST REPORTS ON FILE VIDEO 10/19/00 (00293)

DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

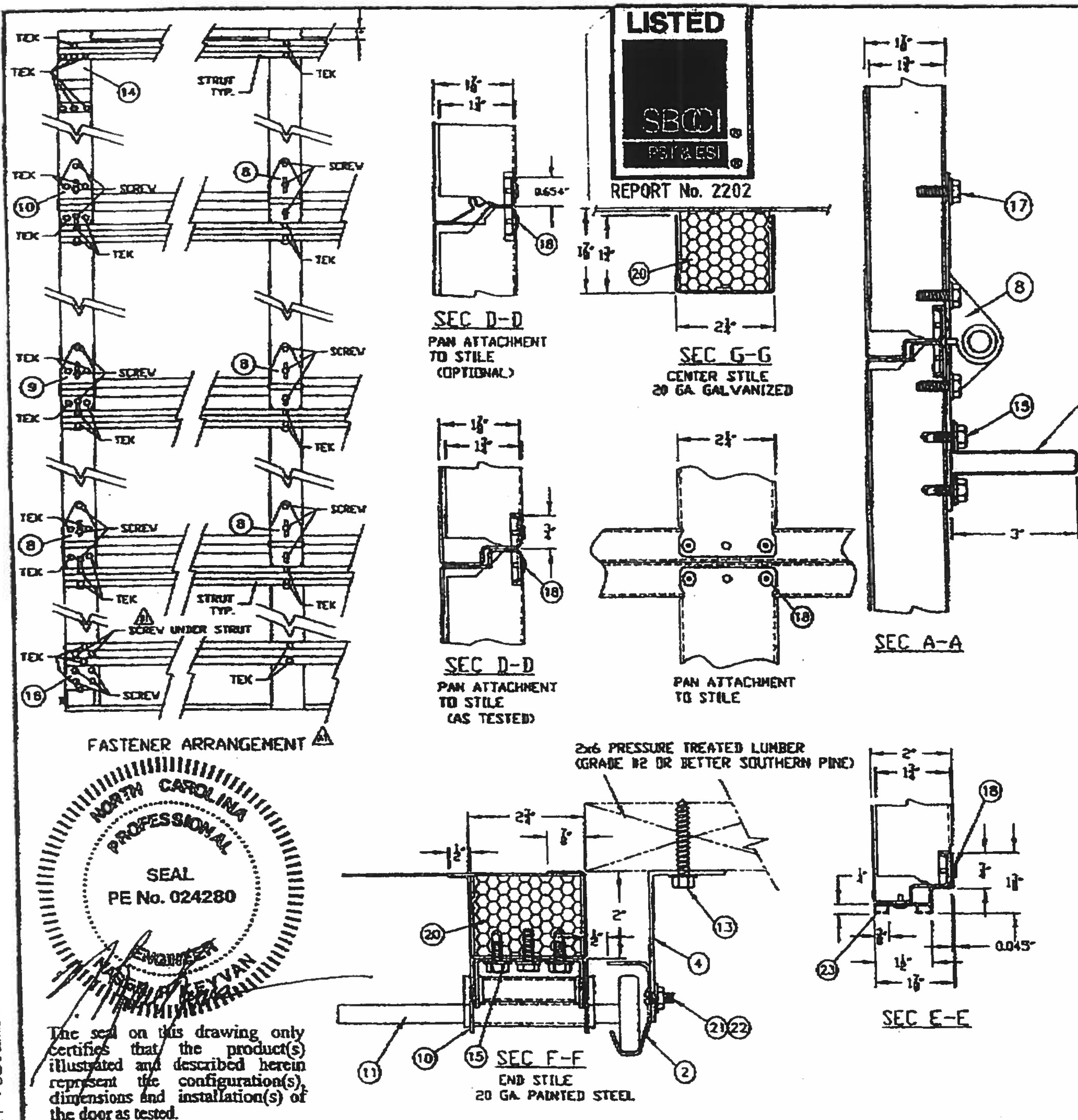
GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN (A)
SERIES 7524, EXTERIOR STEEL =.024" MIN (A)
(TESTED WITH WINDOWS

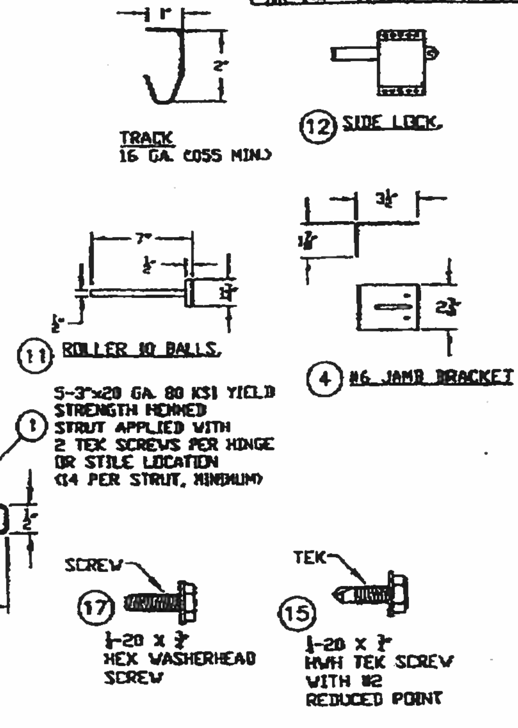
MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

GADCO GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: 1/25 | APPROVED BY: | DRAWN BY: D. VICKMAN
DATE: 10-20-00 | REVISED: (A) 11-10-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF
PART NUMBER: | PAGE 1 OF 2 | DRAWING NUMBER: W13220-1

REV.	DATE	BY	DESCRIPTION
A	11-27-00	DW	SEE ECN 834
B	12-1-00	DW	SEE ECN 836





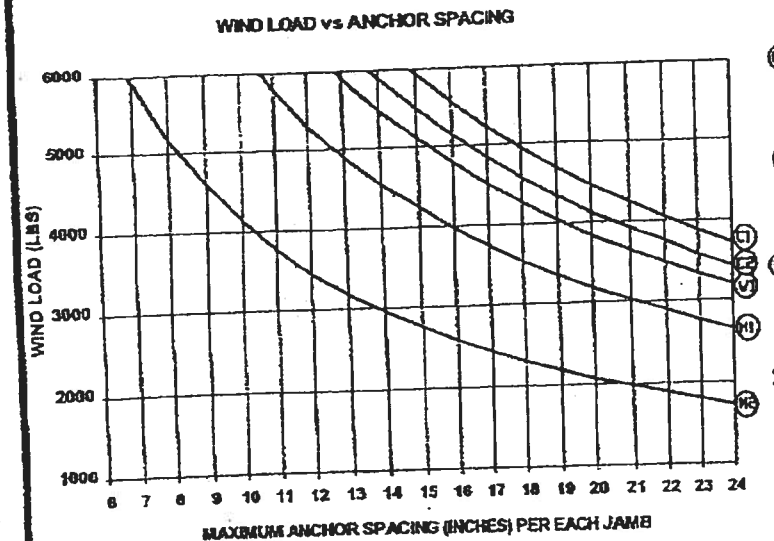
ITEM	PART NO.	DESCRIPTION
23	3485	BOTTOM RAIL, 6063 T6 ALUM EXT.
22	1391	1/4"-20 X 5/8" RIBBED NECK SCREW
21	4044	1/4"-20 SERRATED FLANGE NUT
20		1 LB DENSITY FILLER BLOCK EPS
19		
18	4385	POP RIVET, 5/32" STEEL
17	4229	HEX WASHERHEAD SCREW 1/4"-20 X 3/4"
16	1399L/R	BOTTOM ROLLER BRACKET
15	0138	HWH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
14	3875	TOP SUPPORT BRACKET
13	4043	5/16" X 1-5/8" LAG SCREW
12	4710	SIDE LOCK
11	4306	LONG STEM ROLLER 2"
10	4203	ROLLER CARRIER HINGE #3 (14 GA)
9	4202	ROLLER CARRIER HINGE #2 (14 GA)
8	4201	ROLLER CARRIER HINGE #1 (14 GA)
7		COUNTER BALANCE (TORSION BAR & SPRINGS)
6		HORIZONTAL TRACK & ANGLE (16 GA)
5		VERTICAL FLAG ANGLE
4	4585-6	TRACK BRACKET #6 (12 GA)
3		
2		VERTICAL TRACK (16 GA)
1		3" HEMMED STRUT (20 GA) MIN. YIELD STR. 80KSI

GADCO®
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE | APPROVED BY: | DRAWN BY: D. VIEDMAN
DATE: 11-7-00 | REVISED: (B) 12-1-00

DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR-WINDLOAD ±20 PSF

PAGE 2 OF 2 | DRAWING NUMBER: W13220-2



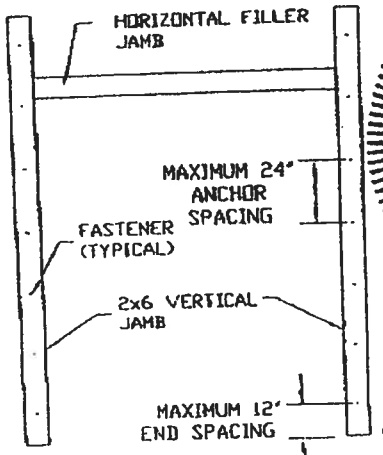
DESIGN LOAD (LBS) / FT² X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

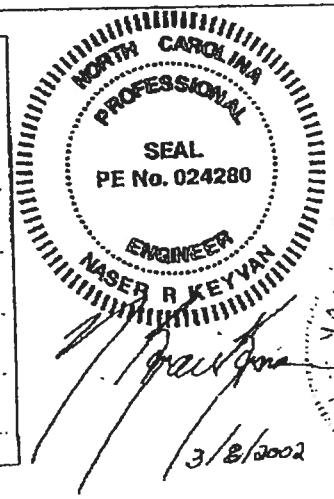
EXAMPLE

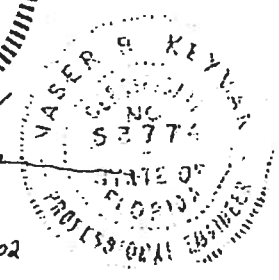
30 LBS / FT² X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

- C1 USE 22" SPACING
- C2 USE 21" SPACING
- W1 USE 19" SPACING
- M1 USE 16" SPACING
- M2 USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS







2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER 'HURRICANE' POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI 'STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION' SSTD 10,' CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI. GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI; REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4"

8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

GADCO ®
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE NONE	APPROVED BY	DRAWN BY DV
DATE 8-30-99		REVISED
DESCRIPTION JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS		
	MASTER DRAWING NUMBER A10560	DRAWING NUMBER

FLORIDA DEPARTMENT OF Community Affairs

Product Approval
USER: Public User

FL #	FL1956-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	

Product Manufacturer Address/Phone/Email	TAMKO Building Products, Inc. PO Box 1404 Joplin, MO 64802 (800) 641-4691 ext 2394 fred_oconnor@tamko.com
Authorized Signature	Frederick O'Connor fred_oconnor@tamko.com
Technical Representative Address/Phone/Email	Frederick J. O'Connor PO Box 1404 Joplin, MO 64802 (800) 641-4691 fred_oconnor@tamko.com

Quality Assurance Representative Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Certification Mark or Listing
Certification Agency	Underwriters Laboratories Inc.

Referenced Standard and Year (of Standard)	**Standard**	**Year**
	ASTM D 3462	2001

Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A
Date Submitted	06/09/2005
Date Validated	06/20/2005
Date Pending FBC Approval	06/25/2005
Date Approved	06/29/2005

Summary of Products

FL #	Model, Number or Name	Description

slopes of 2:12 or greater. Not approved for use in HVHZ.

Back Next

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

Product Approval Accepts:

Underwriters Laboratories Inc.®

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel 1 847 272 8800

June 17, 2005

Tamko Roofing Products
Ms. Kerri Eden
P.O. Box 1404
220 W. 4th Street
Joplin, MO 64802-1404

Our Reference: R2919

This is to confirm that "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage 50 AR", "Glass-Seal AR" manufactured at Tuscaloosa, AL and "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage XL AR", "Heritage 50 AR" manufactured at Frederick, MD and "Heritage 30 AR", "Heritage XL AR", and "Heritage 50 AR" manufactured in Dallas, TX are UL Listed asphalt glass mat shingles and have been evaluated in accordance with ANSI/UL 790, Class A (ASTM E108), ASTM D3462, ASTM D3161 or UL 997 modified to 110 mph when secured with four nails.

Let me know if you have any further questions.

Very truly yours,

Alpesh Patel (Ext. 42522)
Engineer Project
Fire Protection Division

Reviewed by,

Randall K. Laymon (Ext. 42687)
Engineer Sr Staff
Fire Protection Division

TAMKO BUILDING PRODUCTS

Application Instructions for

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

TAMKO does not recommend re-roofing over existing roof.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents. FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENERS

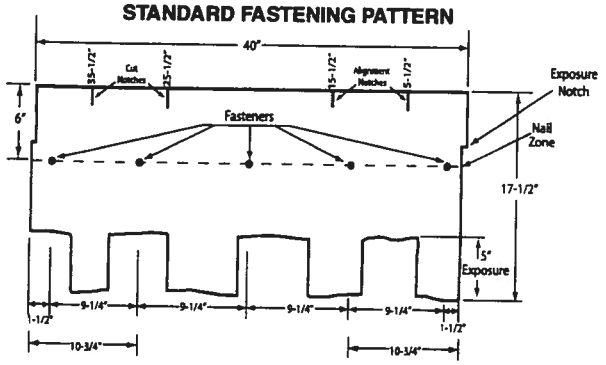
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).

STANDARD FASTENING PATTERN



2) Mansard or Steep Slope Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.

(Continued)

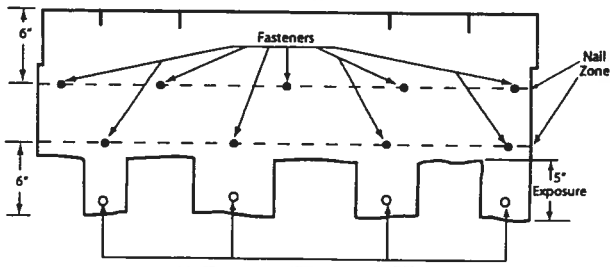
TAMKO BUILDING PRODUCTS

(CONTINUED from Pg. 1)

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

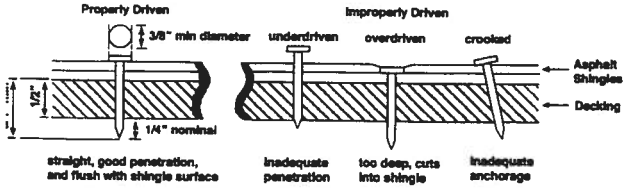
Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.

MANSARD FASTENING PATTERN



Apply under each tab 1" diameter asphalt adhesive cement.

NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12 gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

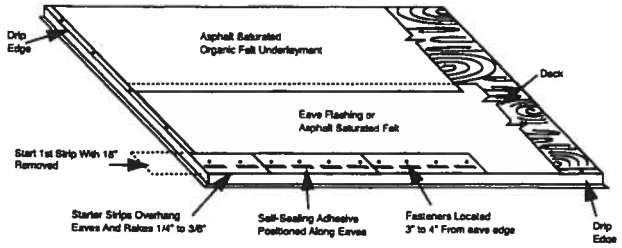
Products which are acceptable for use as underlayment are:

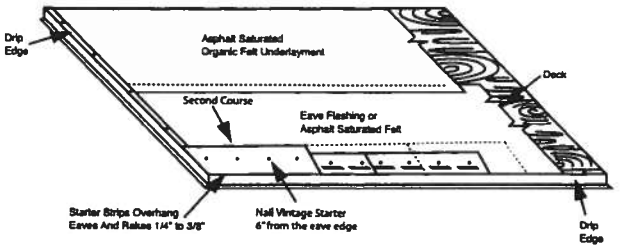
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation maybe required. Contact TAMKO's technical services department for more information)

In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information.
TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles.
The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.





Note: Do not allow Vintage Starter AR joints to be visible between shingle tabs. Cutting of the starter may be required.

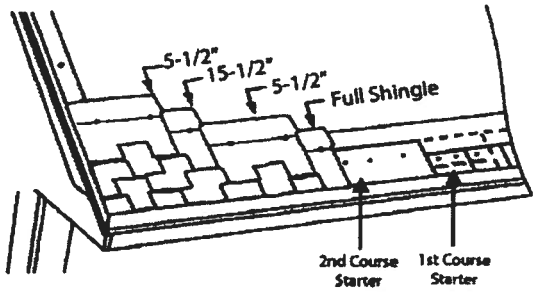
HERITAGE VINTAGE STARTER AR
12 1/2" x 36" 20 PIECES PER BUNDLE
60 LINEAL FT. PER BUNDLE

(Continued)

TAMKO BUILDING PRODUCTS

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the shingle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



6. LOW SLOPE APPLICATION

On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION

TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

Following valley metal application; a 9" to 12" wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6" onto metal valley flashing) and on top of the valley underlayment. The valley will be completed with shingle application.

SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)

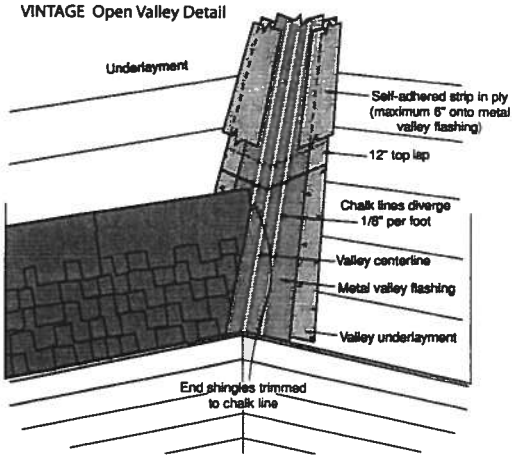
- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1/8" per foot. Thus, for an 8' long valley, the chalk lines should be 7" either side of the centerline at the eaves and for a 16' valley 8".

As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12" in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a longer portion to be used.

- Clip 1" from the upper corner of each shingle on a 45° angle to direct water into the valley and prevent it from penetrating between the courses.

- Form a tight seal by cementing the shingle to the valley lining with a 3" width of asphalt plastic cement (conforming to ASTM D 4586).

VINTAGE Open Valley Detail



• **CAUTION:**
Adhesive must be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

TAMKO BUILDING PRODUCTS

(CONTINUED from Pg. 3)

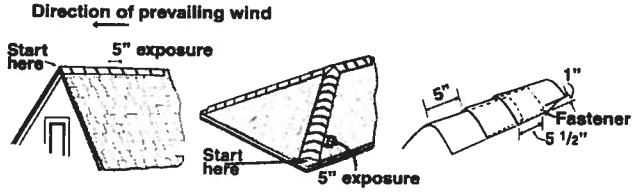
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

8. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

Fasteners should be 1/4 in. longer than the ones used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLE IN COLD WEATHER.



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FLORIDA DEPARTMENT OF Community Affairs

Community Affairs

Product Approval
USER: Public User

FL #	FL5108
Application Type	New
Code Version	2004
Application Status	Approved
Comments	
Archived	
Product Manufacturer	MI Windows and Doors
Address/Phone/Email	650 W Market St Gratz, PA 17030 (717) 365-3300 ext 2101 surich@miwd.com
Authorized Signature	Steven Urich surich@miwd.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	

W) window

A·L·I
(Validator / Operations Administrator)

AAMA
CERTIFICATION PROGRAM

AUTHORIZATION FOR PRODUCT CERTIFICATION

MI Windows & Doors, Inc.
P.O. Box 370
Gratz, PA 17030-0370

Attn: Bill Emley

The product described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. The approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, accompanied by related drawings, by an AAMA Accredited Laboratory.

1. The listing below will be added to the next published AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED				LABEL ORDER NO.
AAMA/NWWDA 101/I.S. 2-97 H-R55-36x62					
COMPANY AND PLANT LOCATION	CODE NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED		
			FRAME	SASH	
MI Windows & Doors, Inc. (Oldsmar, FL) MI Windows & Doors, Inc. (Smyrna, TN)	MTL-8 MTL-9	165/3165 SH (Fin) (AL)(O/O)(OG) (ASTM)	3'0" x 5'2"	2'10" x 2'7"	By Request

2. This Certification will expire May 14, 2008 and requires validation until then by continued listing in the current AAMA Certified Products Directory.

3. Product Tested and Reported by: Architectural Testing, Inc.

   Report No.: 01-50360.02

   Date of Report: June 14, 2004

NOTE: PLEASE REVIEW, AND ADVISE ALI IMMEDIATELY IF DATA, AS SHOWN, NEEDS CORRECTION.

Date: August 1, 2005

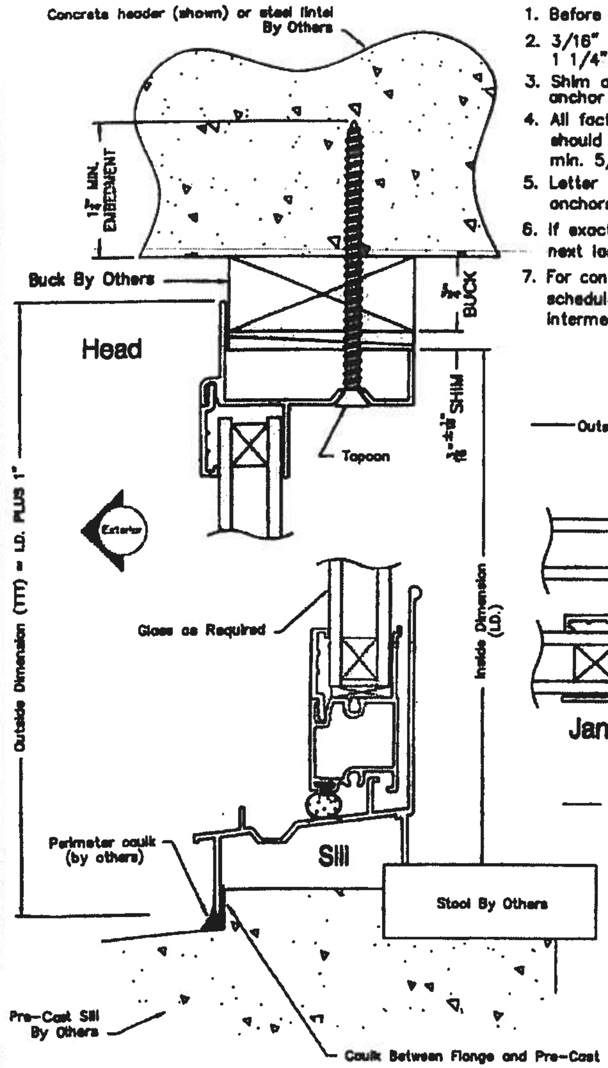
Validated for Certification:

Associated Laboratories, Inc.

Authorized for Certification:

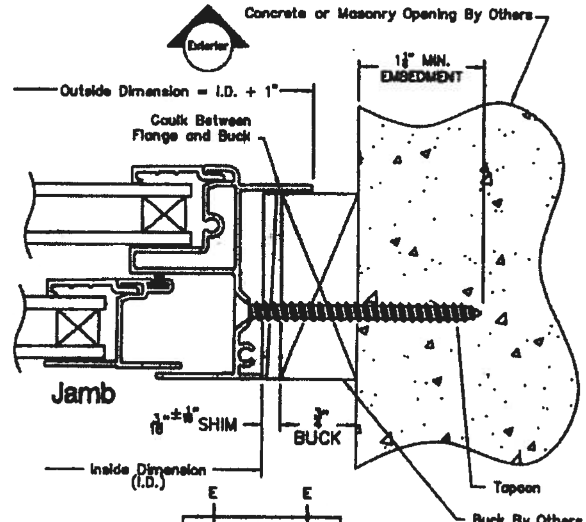
American Architectural Manufacturers Association

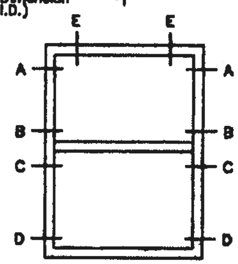
cc: AAMA
JGS/df
ACP-04 (Rev. 5/03)



"ONE BY" (3/4") BUCKS (SHOWN)

1. Before installation, caulk back of flange, or face of buck.
2. 3/16" dia. masonry Tapcon must be of a length to have 1 1/4" embedment into masonry or concrete.
3. Shim as required with load bearing shims at each installation anchor as shown.
4. All factory applied holes not designated for Tapcon anchor should be filled with #10 screws of sufficient length to provide min. 5/8" embedment into wood buck.
5. Letter designations on the Tapcon location chart indicate where anchors are to be installed using the elevation as a key.
6. If exact window size is not given, use anchor quantity for next larger window in chart.
7. For continuous head and sill twins & triples, use the same fastener schedule for each unit in the main frame except ignore the intermediate jamb.





"TWO BY" (1 1/2") BUCKS

"TWO BY" bucks are engineered and fastened to the masonry opening BY OTHERS.

Follow the same instructions and fastener requirements for "one by" bucks except use #10 screws of sufficient length for 1 1/4" minimum embedment into buck.

MI HOME PRODUCTS
BetterBilt / Capitol

* TAPCON LOCATION CHART				
CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS		
		UP TO DP35	DP35.1 TO DP55	DP55.1 TO DP69.3
12	18 1/8 x 25	A, D & E	A, D & E	A, D & E
13	18 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
14	18 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
15	18 1/8 x 62	A, D & E	A, D & E	A, D & E
16	18 1/8 x 71	A, D & E	A, D & E	A, D & E
17	18 1/8 x 83	A, D & E	A, D & E	A, D & E
1/2 32	25 1/2 x 25	A, D & E	A, D & E	A, D & E
1/2 33	25 1/2 x 37 3/8	A, D & E	A, D & E	A, D & E
1/2 34	25 1/2 x 49 5/8	A, D & E	A, D & E	A, D & E
1/2 35	25 1/2 x 62	A, D & E	A, D & E	A, D & E
1/2 36	25 1/2 x 71	A, D & E	A, D & E	A, D & E
1/2 37	25 1/2 x 83	A, D & E	A, D & E	A, C, D & E
22	36 x 25	A, D & E	A, D & E	A, D & E
23	36 x 37 3/8	A, D & E	A, D & E	A, D & E
24	36 x 49 5/8	A, D & E	A, D & E	A, D & E
25	36 x 62	A, D & E	A, D & E	A, D & E
26	36 x 71	A, D & E	A, D & E	A, C, D & E
27	36 x 83	A, D & E	A, C, D & E	A, C, D & E
32	52 1/8 x 25	A, D & E	A, D & E	A, D & E
33	52 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
34	52 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
35	52 1/8 x 62	A, D & E	A, C, D & E	A, C, D & E
36	52 1/8 x 71	A, D & E	A, C, D & E	A, B, C, D & E
37	52 1/8 x 83	A, D & E	A, C, D & E	A, B, C, D & E
2040	23 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
2050	23 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
2060	23 3/8 x 71 5/8	A, D & E	A, D & E	A, D & E
2070	23 3/8 x 83 5/8	A, D & E	A, D & E	A, D & E
3040	35 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
3050	35 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
3060	35 3/8 x 71 5/8	A, D & E	A, D & E	A, C, D & E
3070	35 3/8 x 83 5/8	A, D & E	A, C, D & E	A, C, D & E
4040	47 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
4050	47 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4060	47 3/8 x 71 5/8	A, D & E	A, C, D & E	A, C, D & E
4070	47 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4450	51 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4460	51. 3/8 x 71 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4470	51 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E

*"TAPCON" TYPE HARDENED MASONRY SCREWS INCLUDE TAPCON, RAWL, & SIMPSON

SYM	REVISION	DATE	BY
A	REMOVED SILL INSTALLATION ANCHOR SCREWS	7/16/04	[illegible]

STATE OF FLORIDA
Product Technology Corporation
1750 [illegible] Ave., Suite 6
Winter Park, Florida 32789

MI HOME PRODUCTS
GRATZ, PA

TITLE: 185/3185 SINGLE HUNG FLANGE FRAME INSTALLATION DETAILS & FASTENER SCHEDULE

PREPARED BY: PTC Product Technology Corporation
Phone 407.822.6334 Fax 407.822.6336

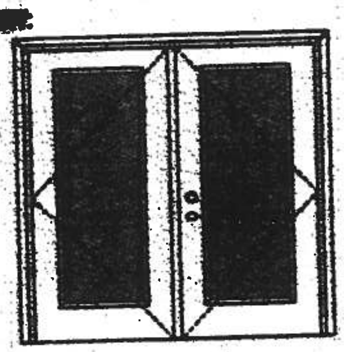
DRAWN: DRL	DATE: 08/15/04
SCALE: N.T.S.	DWG. NO: MIHP0059
REV. LETTER: A	SHEET: 1 OF 1

XX
Glazed C[illegible]tswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVE[illegible] ARRANGEMENT:



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

Double Door
Maximum unit size = 6'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water unless special threshold design is used.

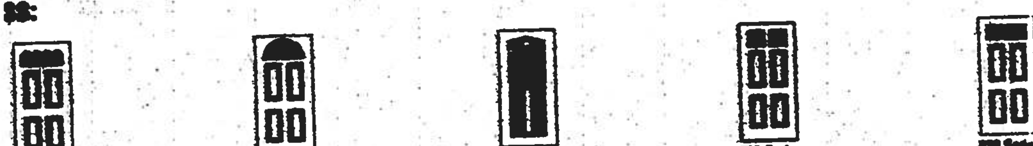
Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

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.

MINIMU[illegible] ASSEMBLY DETAIL:
Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

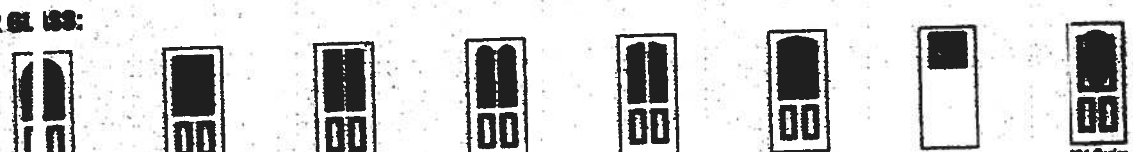
MINIMU[illegible] INSTALLATION DETAIL:
Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPRO[illegible]ED DOOR STYLES:
1/4 GL[illegible]SS:



[illegible] Series · 133, 135 Series · 136 Series · [illegible] Series · 322 Series

1/2 GL[illegible]SS:



[illegible] Series* · 158, 160 Series* · 129 Series* · 260 Series* · 12 R/L, 23 R/L, 34 R/L Series* · 107 Series* · 108 Series · 384 Series

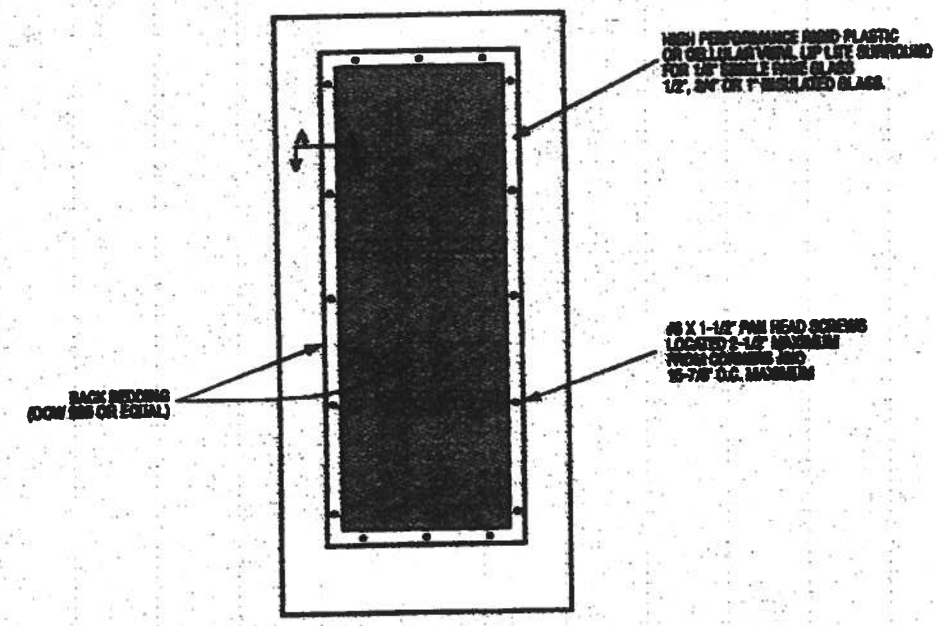
*This gla[illegible] kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

J[illegible]hnson [illegible]ry Systems

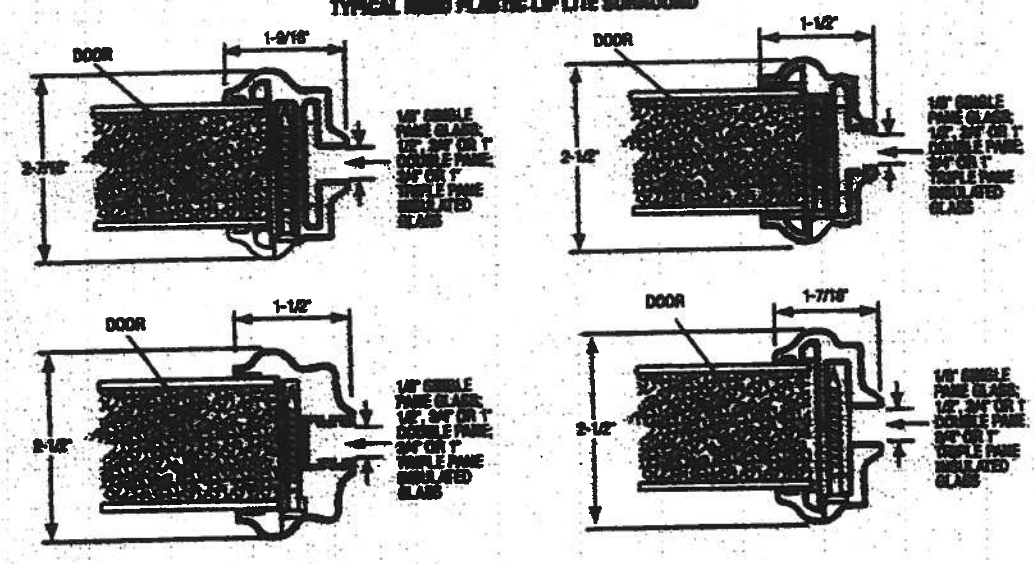
PREMDOR Collection · Exclusively from Masonite · Masonite International Corporation

March 2[illegible] 2002
[illegible] [illegible] program of product improvement makes specifications, design and product [illegible] [illegible] to change without notice.

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX
Glazed (utswing Unit

WOOD-EDGE STEEL DOORS

APPROVE D DOOR STYLES:

3/4 GLAS :

FULL GLASS:

CERTIFI D TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1884-5, 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 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 bumper threshold.

PRODU T 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 (signature)

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

Johnson

FRENDOR — Premium Quality Doors

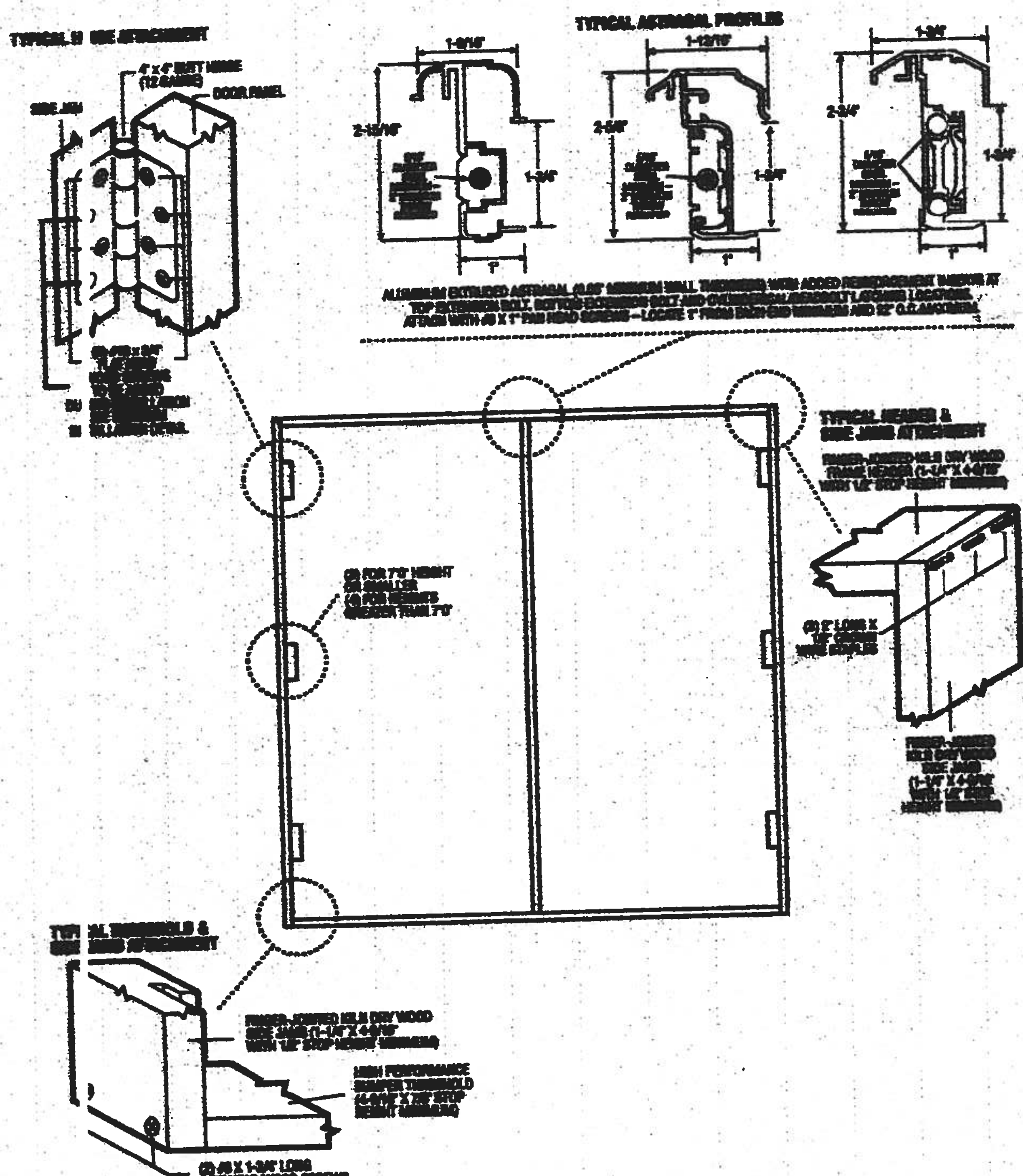
Exclusively from Masonite® — Masonite International Corporation

March 2 2002

XX
Unit

[redacted]

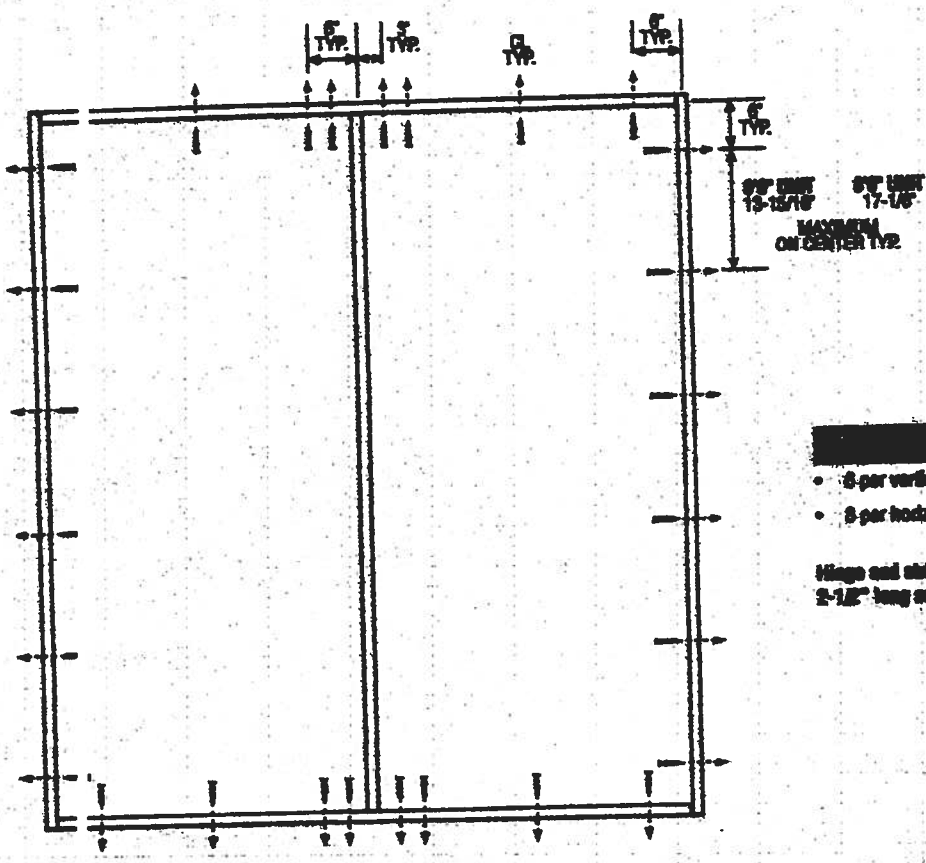
OUTSWING UNITS WITH DOUBLE DOOR



XX
Unit

[redacted]

DOUBLE DOOR



[redacted]

- 8 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Latc ing Hardware:

- Co pliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylinderical and deadlock hardware be installed.

Note s:

1. An hor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners an lyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. Th wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1- /4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country ap rovals respectively, each with minimum 1-1/4" embedment.
3. W od bucks by others, must be anchored properly to transfer loads to the structure.

FREMDORF Collection Premium Quality Doors

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March [illegible], 2002
Our con inual program of product improvement makes specifications, design a d product detail subject to change without notice.

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 22-3S-16-02267-108 **Building permit No.** 000026304

Use Classification SFD,UTILITY **Fire:** 25.68

Permit Holder BLAKE LUNDE **Waste:** 67.00

Owner of Building RUBY & NAN MCNEILL **Total:** 92.68

Location: 813 NW COUNTRY LAKE DR LAKE CITY FL

Date: 06/09/2008

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)