CK# 6099

### **Columbia County Building Permit Application**

2/ 1/ 0-50/
For Office Use Only Application # 0903-40 Date Received 3/24 By JW Permit # 2772/
Zoning Official Date 30.03.01 Flood Zone Land Use A-3 Zoning A-3
FEMA Map # NA Elevation NA MFE and River NA Plans Examiner Date 3/24/09
ONOC OEH & Deed or PA Site Plan - State Road Info - Parent Parcel #
© Dev Permit # □ In Floodway □ Letter of Auth. from Contractor □ F W Comp. letter
IMPACT FEES: EMS Fire Corr Road/Code
School = TOTAL NA - See attacked both of memo
Septic Permit No. 08 - 5700 Fax 386-462-1509
Name Authorized Person Signing Permit John D HARRINGTON Phone 352-316-5320
Address _ 12 501 US HNY 441, AUCHUA, IL 32615
Owners Name Keith Adams! Phone 386-462.5323
911 Address 5881 NW LAKE JEFFERY RD LAKE CHY 32055
Contractors Name John Harrington House Craft Homes Phone 386-462-5323
Address 12501 US HWY 441 ALACHUA FL 32615
Fee Simple Owner Name & Address 54mt
Bonding Co. Name & Address
Architect/Engineer Name & Address MARK DISOSWAY PO 868, Lake City 32056  Mortgage Lenders Name & Address CASH
Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec. – Progress Energy
Property ID Number 09-35-16-02045-007 Estimated Cost of Construction 195,000.00
Subdivision NameLotBlockUnitPhase
Driving Directions 90 W to Lake Jeffery rd make right go
5.5 miles to drive on rite go to end of grass road
property on right. Number of Existing Dwellings on Property
Construction of SFD Total Acreage 10 Lot Size
Do you need a - <u>Culvert Permit</u> or <u>Culvert Walver</u> or <u>Have an Existing Drive</u> Total Building Height 191
Actual Distance of Structure from Property Lines - Front Side Side Side Side Rear
Number of Stories 1 Heated Floor Area 2877 Total Floor Area 3024 Roof Pitch 6/12
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.
Page 1 of 2 (Both Pages must be submitted together.)  Revised 1-10-08

00167 6007/17/00

remines remits ensuit seim wheelers

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filling, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 160 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

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 eldewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sed, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

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

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

**Owners Signature** 

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

Contractor's License Number CRC058087 Columbia County Competency Card Number

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

day of March

Personally known or Produced Identification - FLDL

H652-464-49-249-0

State of Florida Notary Signature (For the Contractor)

DEBORAH MORRISON Notary Public - State of Florida My Commission Expires Sep 17, 2011 Commission # DD 715174

Page 2 of 2 (Both

Revised 1-10-08



### STATE OF FLORIDA DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number

- PART II - SITE PLAN - -Scale: Each block represents 5 feet and 1 inch = 50 feet. Notes: KeitH Adtmg 10:010 ACRS 09-35-16-02045-007 Site Plan submitted by: Palet w Jud Plan Approved \_\_\_\_\_ Not Approved Date 10-28-08 3/24/09 County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



STATE OF FLORIDA

DEPARTMENT OF HEALTH

ON-SITE SEWAGE DISPOSAL SYSTEM

APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO.	100205
DATE PAID:	10/22/08
FEE PAID:	3/0,30
RECEIPT #:	1014392

AFFIICATION	FOR CONSTRUCTION PERMIT	110140216
APPLICATION FOR:		* E
	kisting System [ ] Holding Tar bandonment [ ] Temporary	ak [ ] Innovative
APPLICANT: Keith Adams	j	
AGENT: Robert Ford HI	FST INC.	ELEPHONE: 755-6572
	Guerdon Rd Lake City Fla	
TO BE COMPLETED BY APPLICANT OF BY A PERSON LICENSED PURSUANT	OR APPLICANT'S AUTHORIZED AGENT. SYS TO 489.105(3)(m) OR 489.552, FLORIDA	STEMS MUST BE CONSTRUCTED STATUTES.
PROPERTY INFORMATION		
LOT: SI	BDIVISION: mosts of Bounds	PLATTED:
PROPERTY ID #: 09-35-16-020	045-007 ZONING: Pasniclard I/M	OR EQUIVALENT: ( Y / N )
PROPERTY SIZE: 10,010 ACRES W	ATER SUPPLY: [> ] PRIVATE PUBLIC [	]<=2000GPD [ ]>2000GPD
IS SEWER AVAILABLE AS PER 381.0	0065, FS? [Y 🔊] DIS	TANCE TO SEWER: MA FT
PROPERTY ADDRESS: (alle )	effery Rd	e e e e e e e e e e e e e e e e e e e
DIRECTIONS TO PROPERTY: Huy	90 West to Lake Jeffer	ey TR GO
To 2 No Eamement	to Right Past Closed	STORE AT ENd
ON RISHT LAIGHT GATE	e and)	
BUILDING INFORMATION	[  ☐ RESIDENTIAL [ ] COMMER	CIAL
BUILDING INFORMATION Unit Type of No Establishment	2002 05 4004 05 000 05	itutional System Design
Unit Type of	No. of Building Commercial/Inst	itutional System Design
Unit Type of No Establishment	No. of Building Commercial/Inst Bedrooms Area Sq Ft Table 1, Chapte	itutional System Design
Unit Type of No Establishment  1 MTH House	No. of Building Commercial/Inst Bedrooms Area Sq Ft Table 1, Chapte	itutional System Design
Unit Type of No Establishment  1 M/H House 2	No. of Building Commercial/Inst Bedrooms Area Sq Ft Table 1, Chapte	itutional System Design
Unit Type of No Establishment  1 MTH House 2 3	No. of Building Commercial/Inst Bedrooms Area Sq Ft Table 1, Chapte	itutional System Design
Unit Type of No Establishment  1 MIH House 2 3	No. of Building Commercial/Institute Bedrooms Area Sq Ft Table 1, Chapter 3/24/09  [ ] Other (Specify)	itutional System Design



0903-40

### **Columbia County Property** Appraiser DB Last Updated: 3/5/2009

### 2009 Preliminary Values

Tax Record

**Property Card** 

Interactive GIS Map

Search Result: 1 of 1

Print

Parcel: 09-3S-16-02045-007

Owner	8	Prope	ertv	In	fo
-------	---	-------	------	----	----

Owner's Name	ADAMS KEITH				
Site Address	LAKE JEFFER	Υ			
Mailing Address	101 COQUINA WAY ST AUGUSTINE, FL 32080				
Use Desc. (code)	VACANT (000000)				
Neighborhood	9316.00 Tax District 3				
UD Codes	MKTA01	Market Area	01		
Total Land Area	10.010 ACRES				
Description	COMM AT NE COR OF SE1/4 OF NE 1/4, RUN W 60 FT FOR POB, THENCE S 530.97 FT, S 67 DG W 860.74 FT, N 9 DG E 152.46 FT, N 19 DG E 738.68 FT TO PT ON N LINE OF SE1/4 OF NE1/4, THENCE W 511.03 FT TO POB. WD 1048-2732, WD 1146-218				

**GIS Aerial** 



### Property & Assessment Values

Mkt Land Value	cnt: (1)	\$74,174.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (0)	\$0.00
XFOB Value	cnt: (0)	\$0.00
Total Appraised Value		\$74,174.00

Just Value	\$74,174.00
Class Value	\$0.00
Assessed Value	\$74,174.00
Exempt Value	\$0.00
Total Taxable Value	\$74,174.00

### Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
3/21/2008	1146/218	WD	V	U	03	\$110,000.00
6/2/2005	1048/2732	WD	V	Q		\$84,500.00

### **Building Characteristics**

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

### **Extra Features & Out Buildings**

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
				NONE		

### Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	10.010 AC	1.00/1.00/1.00/1.00	\$7,410.00	\$74,174.00

Columbia County Property Appraiser

DB Last Updated: 3/5/2009

Inst. Number: 200812005630 Book: 1146 Page: 218 Date: 3/24/2008 Time: 10:01:00 AM Page 1 of 2

Prepared by and return to: Kathryn Lilly/Employee Haile Title Company, LLC 219 SE Baya Dr. Lake City, FL 32025 386-754-6600 File Number: LC08-024

Inst:200812005630 Date:3/24/2008 Time:10:01 AM

Doc Stamp-Deed:770.00

\_\_\_\_\_\_DC,P.DeWitt Cason,Columbia County Page 1 of 2 B:1146 P:218

[Space Above This Line For Recording Data]

### **Warranty Deed**

This Warranty Deed made this 21st day of March, 2008 between Randell Burnham and Marsha M. Burnham, husband and wife whose post office address is 155 NW Orbison Dr., Lake City, FL 32055, grantor, and Keith Adams whose post office address is 101 Coquina Way, Saint Augustine, FL 32080, grantee:

(Whenever used herein the terms "grantor" and "granter" 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 AND NO/100 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:

Commence at the Northeast corner of the SE 1/4 of the NE 1/4 of Section 9, Township 3 South, Range 16 East, Columbia County, Florida, and run S.88°40'07"W., along the North line of the SE 1/4 of the NE 1/4, a distance of 60.00 feet to the POINT OF BEGINNING; thence S.01°12'24"E. a distance of 530.97 feet; thence S.67°40'31"W. a distance of 860.74 feet; thence N.09°44'35"E, a distance of 152.46 feet; thence N.19°38'48"E. a distance of 738.68 feet to a point on the North line of the SE 1/4 of the NE 1/4 of Section 9; thence N.88°40'07"E., along said North line of the SE 1/4 of the NE 1/4 of Section 9, a distance of 511.03 feet to the POINT OF BEGINNING. TOGETHER WITH an easement 30.00 feet in width, for ingress, egress, and utilities, more particularly described as follows: Commence at the Northeast corner of the SE 1/4 of the NE 1/4 of Section 9, Township 3 South, Range 16 East, Columbia County, Florida, and run S.01°12'24"E., along the East line of Section 9, a distance of 1192.48 feet; thence S.88°35'02"W. a distance of 815.40 feet; thence S.01°32'45"E. a distance of 759.91 feet to a point on the Northeasterly right of way line of County Road 250 (Lake Jeffery Road); thence N.40°45'33"W., along said Northeasterly right of way line of County Road 250 (Lake Jeffery Road), a distance of 67.15 feet; thence N.39°28'06"W., still along said Northeasterly right of way line of County Road 250 (Lake Jeffery Road), a distance of 238.93 feet to the POINT OF BEGINNING; thence continue N.39°28'06"W., still along said Northeasterly right of way line of County Road 250 (Lake Jeffery Road), a distance of 39.62 feet; thence N.09°44'35"E. a distance of 859.29 feet; thence N.67°40'31"E. a distance of 35.40 feet; thence S.09°44'35"W. a distance of 903.97 feet to the POINT OF BEGINNING.

Parcel Identification Number: 09-3S-16-02045-007

Subject to taxes for 2008 and subsequent years; covenants, conditions, restrictions, easements, reservations and limitations of record, if any.

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.

Inst: Number: 200812005630 Book: 1146 Page: 219 Date: 3/24/2008 Time: 10:01:00 AM Page 2 of 2

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2007.

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:

Witness Nather Mc/a

Witness Name: Erre Sizusie

MMhu Bun (Sea

Marsha M. Burnham

State of Florida County of Columbia

The foregoing instrument was acknowledged before me this 21st day of March, 2008 by Randell Burnham and Marsha M. Burnham, who [] are personally known or [X] have produced a driver's license as identification.

[Notary Seal]

Notary Public

NOTARY PUBLIC-STATE OF FLORIDA
Eric Struble

Printed Name:

Commission #DD685132 Expires: JUNE 13, 2011

BONDED THRU ATLANTIC BONDING CO., INC.

My Commission Expires:

District No. 1 - Ronald Williams

District No. 2 - Dewey Weaver

District No. 3 - Jody DuPree

District No. 4 - Stephen E. Bailey

District No. 5 - Scarlet P. Frisina



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

March 6, 2009

MEMO

TO: John Kerce, Chief Building Official

**Brian Kepner, County Planner** 

FR: Dale Williams, County Manager

RE: Impact Fees - FOR IMMEDIATE ATTENTION

Effective immediately you are to suspend the collection of impact fees. This suspension was approved by the Board of County Commissioners in their regular meeting of March 5, 2009. The suspension includes those fees levied by both ordinances, general government and schools. The approved suspension is in anticipation of a moratorium to be approved March 19, 2009.

You are also requested to provide a list of all impact fees collected since January 1, 2009. This list should include the following information:

- the name of the person/business who initially paid the impact fee and the date paid
- 2.) the name of the owner on whose project the impact fee was paid
- 3.) a "breakdown" on the impact collected by category (i.e. corrections, transportation, EMS, fire, school)

For those fees recently collected but not yet deposited, I suggest you hold the checks (I assume no cash was collected) until after the March 19, 2009 Public Hearing to impose a moratorium. You should notify the check issuer of the reason you are holding the check.

DW/pds

XC: Impact Fees File Board of County Commissioners Outgoing Correspondence

BOARD MEETS FIRST THURSDAY AT 7:00 P.M.
AND THIRD THURSDAY AT 7:00 P.M.

### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

### Florida Department of Community Affairs Residential Performance Method A

Project Name: Adams Residence Street: 5881 NW Lake Jeff City, State, Zip: Lake City, FI, Owner: Keith Adams Design Location: FL, Gainesville	ery Rd	Builder Name: House Craft Homes, LLC Permit Office: Columbia Permit Number: Z772/ Jurisdiction: Z21000	
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area (ft²) 7. Windows Description a. U-Factor: Dbl, U=0.55 SHGC: SHGC=0.70 b. U-Factor: Dbl, U=0.55 SHGC: SHGC=0.60 c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: e. U-Factor: N/A SHGC: 8. Floor Types a. Slab-On-Grade Edge Insulation b. N/A c. N/A	New (From Plans) Single-family 1 3 No 2877  Area 121.36 ft² 117.78 ft² ft² ft² ft² ft² ft² R= ft² R= ft²	9. Wall Types a. Concrete Block - Int Insul, Exterior b. N/A c. N/A d. N/A 10. Ceiling Types a. Under Attic (Vented) b. Knee Wall (Vented) c. N/A 11. Ducts a. Sup: Attic Ret: Attic AH: Attic Sup 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Electric b. Conservation features None 15. Credits	Insulation Area R=6.5 1813.30 ft² R= ft² R= ft² R= ft² Insulation Area R=30.0 2877.00 ft² R=19.0 304.00 ft² R= ft²  Cap: 54 kBtu/hr SEER: 13  Cap: 54 kBtu/hr HSPF: 8.5  Cap: 50 gallons EF: 0.92
Glass/Floor Area: 0.083	Total As-Built Modified Total Baselind		PASS
I hereby certify that the plans and spetthis calculation are in compliance with Code.  PREPARED BY: DATE: 3/36/199  I hereby certify that this building, as dwith the Florida Energy Gode.	the Florida Energy	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.	COD WE TRUS

BUILDING OFFICIAL:

DATE:

### **Code Compliance Cheklist**

### Residential Whole Building Performance Method A - Details

ADDRESS: 5881 NW Lake Jeffery Rd

Lake City, FI,

PERMIT #:

### INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	N1106.AB.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	N1106.AB.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.	1
Ceilings	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to 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	N1106.AB.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 with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	4
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

### OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	N1112.AB.2.3	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%.  Heat pump pool heaters shall have a minimum COP of 4.0.	
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB.  Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

,	Contract of the Contract of th					PROJE					-			
Owner: # of Un	nits: Name: Office: ction:	Keith Adar	ns oft Homes, LLC	E ( 7 V F	Bedrooms: Bathrooms: Conditioned Total Stories Vorst Case: Rotate Angle Cross Ventil Whole Hous	s: : e: ation:	3 2 2877 1 No 0			Adress Lot # SubDivide PlatBoo Street: County: City, Sta	sion: k:	5881 Colu		ss ke Jeffery
New/Ex Comme	xisting:	New (Fron												
						CLIMA	TE							
$\checkmark$	Des	sign Location	1	TMY Site	IECC Zone		esign T '.5 %	emp 2.5 %	Int Design Winter S		Heatir Degree [	V-30	Design Moisture	
	FL	, Gainesville	FL_GAIN	IESVILLE_RE	GI 2		32	92	75	70	1305.	5	51	Mediu
						FL00	RS							
$\sqrt{}$	#	Floor Type		Peri	meter	F	R-Value	10	Area			Tile	e Wo	od Carpet
	1	Slab-On-Gra	ide Edge Insula	tio 23	14 ft		0	28	877 ft²			0.4	2 0	0.58
						ROO	F							
✓	#	Туре	Ma	terials	Roof Area	Gabl Area		Roof Color	Solar Absor.	Tested	Deck Insul.	Pit	ch	
	1	Hip	Composi	tion shingles	3218 ft²	0 ft²	N	/ledium	0.96	No	0	26.6	deg	
						ATTI	C							
$\checkmark$	#	Туре		Ventilation	,	Vent Rat	io (1 in)	Ar	rea	RBS	IRCC			
	1	Partial cat	hedral cei	Vented		30	0	287	7 ft²	N	N			
						CEILI	NG							
$\sqrt{}$	#	Ceiling Ty	ое		R-	Value		Area		Framin	g Frac		Truss	Туре
	1	Under Atti	c (Vented)			30		2877 ft <sup>2</sup>		0.	11		Woo	bd
	2	Knee Wall	(Vented)			19	- Industrial	304 ft²		0.	11		Woo	od
						WAL	LS		J- 0800 -					
$\checkmark$	#	Ornt	Adjacent To	Wall Type				Cavity R-Value	e Area	She R-\	athing /alue	Fram Fract	ing ion	Solar Absor.
	1	NW	Exterior	Concrete B	lock - Int In	sul		6.5	386.67	ft²		0		0.75
	2	sw	Exterior	Concrete B	lock - Int In	sul		6.5	520 ft <sup>2</sup>			0		0.75
	3	SE	Exterior	Concrete B	lock - Int In	sul		6.5	386.67	ft²		0		0.75
	4	NE	Exterior	Concrete B	lock - Int In	sul		6.5	520 ft <sup>2</sup>	1	2	0		0.5

	¥	-					D	oors			100000000000000000000000000000000000000			
	$\sqrt{}$	#	(	Ornt	Door Type				Storm	าร	U-	Value	Area	
		1		NW	Insulated				None	е		0.4	19.5 ft²	
_		2		NE	Insulated				None	е		0.4	17.33 ft²	
I_		3		NE	Wood				None	е	(	0.46	17.33 ft²	
l –		4	13	SW	Insulated				None	е		0.4	10.83 ft <sup>2</sup>	
	WINDOWS  Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.													
	,	and the second liveral					e construit de la construit de		NAME OF TAXABLE PARTY.		AND REAL PROPERTY.	rhang		
	$\checkmark$	#	Ornt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area		Separation	Int Shade	Screening
		1	NW	Vinyl	Low-E Double	Yes	0.55	0.6	N	11.11 ft²	2 ft 0 in	0 ft 4 in	HERS 2006	None
_		2	SW	Vinyl	Low-E Double	Yes	0.55	0.6	N	106.67 ft <sup>2</sup>	2 ft 0 in	0 ft 4 in	HERS 2006	None
_		3	SE	Vinyl	Low-E Double	Yes	0.55	0.7	N	35.56 ft <sup>2</sup>	2 ft 0 in	0 ft 4 in	HERS 2006	None
_		4	SE	Vinyl	Double (Clear)	Yes	0.55	0.7	N	7.25 ft <sup>2</sup>	2 ft 0 in	0 ft 4 in	HERS 2006	None
_		5	NE	Vinyl	Double (Clear)	Yes	0.55	0.7	N	10 ft²	6 ft 0 in	0 ft 4 in	HERS 2006	None
_		6	NE	Vinyl	Low-E Double	Yes	0.55	0.7	N	35.56 ft <sup>2</sup>	2 ft 0 in	0 ft 4 in	HERS 2006	None
		7	SW	Wood	Double (Clear)	Yes	0.55	0.7	N	11 ft²	6 ft 0 in	0 ft 4 in	HERS 2006	None
-		8	NE	Metal	Double (Clear)	Yes	0.55	0.7	N	22 ft²	6 ft 0 in	0 ft 4 in	HERS 2006	None
	INFILTRATION & VENTING													
	$\checkmark$	Metho	od		SLA	CFM 50	ACH 50	ELA	EqLA			Ventilation — Exhaust CFM		Fan Watts
		Defau	lt		0.00036	2717	7.08	149.1	280.5	0	cfm	0 cfm	0	0
	turner true						COOLIN	IG SYS	TEM	W-61/	nd.College.com			
	V	#	Syste	m Type		Subtype	Seminar describing		Efficiency		Capacity	Air Flow	SHR	Ductless
_		1	Centr	al Unit		None			SEER: 13	54	kBtu/hr	1620 cfn	n 0.75	False
		- Company	Section 19				HEATIN	IG SYS	TEM					
	V	#	Syste	m Type		Subtype			Efficiency		Capacity	Ductless		
_		1	Elect	ric Heat	Pump	None			HSPF: 8.5	5 54	kBtu/hr	False		
				net tracket			HOT WAT	TER SY	STEM					
	V	#	Sys	stem Typ	е		EF	Ca	p	Use	SetPr	nt	Conservation	
_		1	Ele	ctric			0.92	50 g	al	60 gal	120 de	g	None	
			e de la constante			so	LAR HOT	WATER	SYSTE	M	Victoria de Caracteria de Cara			
	V	FSE											Storage	
		Cert	# C	ompany	Name		System Mo	odel#	Co	llector Mo	del#		Volume	FEF
_		Nor	ne N	lone								ft²		
COURS TO SERVICE	Control of the last	A 2000	A CONTRACTOR OF THE PARTY OF TH								-			

							DUCTS						
<b>/</b>	#	S Location	upply R-Value	Area	R	eturn n Area	Leaka	де Туре	Air Handler	CFM 25	Percent Leakage		RLF
	1	Attic	6 5	575.4 ft	Attic	143.85	Default	Leakage	Attic				
						TEM	PERATU	RES					V == 1 = 2 = = 1
Program	able Thern	nostat: Y		Person to a		Ceiling Fans	s: N						
Cooling Heating Venting	X Jan X Jan X Jan	X Fe X Fe X Fe	eb [X]	Mar D Mar D Mar D	X] Apr X] Apr X] Apr	[X] May [X] May [X] May	X Jun X Jun X Jun	X Jul X Jul X Jul	[X] Aug [X] Aug [X] Aug	X Sep X Sep X Sep	X Oct X Oct X Oct	X Nov X Nov X Nov	X Dec X Dec X Dec
Thermosta	t Schedule	: HERS	2006 Refe	rence				Ног	ırs				
Schedule 7	Гуре		1	2	3	4	5	6	7	8 9	10	11	12
Cooling (W	/D)	AN PN	78 1 80	78 80	78 78	78 78	78 78	78 78	78 78	78 8 78 7	0 80 8 78	80 78	80 78
Cooling (W	/EH)	AN PN	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 7 78 7	8 78 8 78	78 78	78 78
Heating (W	/D)	AN PN	M 66	66 68	66 68	66 68	66 68	68 68	68 68	68 6 68 6	8 68 8 68	68 66	68 66
Heating (W	/EH)	AN	M 66	66 68	66 68	66 68	66 68	68 68	68 68	68 6 68 6	8 68 8 68	68 66	68 66

### NOTICE OF COMMENCEMENT

Inst:200912005263 Date:3/31/2009 Time:1:45 PM \_DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1170 P:690 PERMIT NUMBER: \_\_\_\_\_0903-40 COUNTY OF: ALACHUA CITYOF:\_\_\_Alachua STATE OF: FLORIDA THE UNDERSIGNED HEREBY gives notice that improvement(s) will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement. DESCRIPTION OF PROPERTY " TOWNSHIP: 35 LOT:\_\_\_\_\_BLOCK:\_\_\_\_\_SECTION:\_\_ TAX PARCEL NUMBER: 02045-007 SUBDIVISION PLATBOOK:\_\_ STREET ADDRESS: \_\_5881 NW Lake Jeffery Rd, \_ Lake City, FI\_\_ **GENERAL DESCRIPTION OF IMPROVEMENTS** TO CONSTRUCT: Single Family Residence OWNER INFORMATION OWNER NAME: Keith Adams PHONE NUMBER: \_\_(904) 392-6112\_ ADDRESS:\_\_101 Coquina Ave. \_ CITY:\_\_\_St. Augustine ZIP CODE: 32080 INTEREST IN PROPERTY: Fee Simple FEE SIMPLE TITLEHOLDER NAME: FEE SIMPLE TITLEHOLDER ADDRESS: (if other than owner) House Craft Homes, LLC CONTRACTOR NAME\_ ADDRESS: 12501 US HWY 441 PHONE NUMBER: (386) 462-5323 CITY:\_\_\_High Springs STATE: FI ZIP CODE: \_\_32615\_ BONDING COMPANY: ADDRESS: PHONE NUMBER: ZIP CODE: STATE: CITY:\_ LENDER NAME: ADDRESS: PHONE NUMBER: CITY: STATE: ZIP CODE: Persons withing the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a) 7., Florida Statutes: NAME: Keith Adams \_ADDRESS.\_\_101 Coquina Ave. St. Augustine, FI\_\_\_32080\_ . In addition to himself, Owner designates to receive a copy of Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes. Expiration date is one (1) year from of date of recording unless a different date is specified. SIGNATURE OF OWNER: SWORN to and subsodbed before me this Notary Public: SEAL NOTARY PUBLIC-STATE OF FLORIDA Jessica R. Harrington My commission Exp Commission # DD607877
Expires: NOV. 14, 2010
BONDED THRU ATLANTIC BONDING CO., INC.



FAXed 3-25-04 TO 386-462-1509 3:13 PM

From: The Columbia County Building & Zoning Department

135 NE Hernando Av.

P.O. Box 1529

Lake City Florida 32056-1529

Reference to a building permit application Number: 0903-40

Applicant: House Craft Homes /owner Keith Adams: Property Identification number: 09-3s-16-02045-007

On the date of March 25, 2009 application 0903-40 and plans were submitted and reviewed for compliance of the 2007 Florida Building Code Residential. The documents and plans submitted are for construction of a Group R-3 Single Family Dwelling structure.

Reviewed the following listed information so this building permit application may proceed toward issuance.

The Florida Energy Efficiency Code for Building Construction (form 600-A-2004R) is no longer an acceptable evaluation method, due to the adoption of the Florida Building Code Residential 2007 which became effective March 1, 2009. Please consult with EnergyGauge® to obtain the correct Florida Energy Efficiency Code for Building Construction form to be utilized.

Windload Engineering Sheet S-1 of 1 sheet details the foundations design to be employed for the structure. The foundation plan (sheet 1 of 3) drawn by J.D.H. has conflicting design specification with Windload Engineering Sheet S-1 of 1. Please have Windload Engineering review sheet 1 of 3 and show a foundation schedule and location for all the shear wall segments and supporting columns. If the foundation plan (sheet 1 of 3) designed by J.D.H. is to be used as the foundation plan, have Mr. Mark Disosway P.E. for Windload Engineering affixes his embossed seal to the drawing.

The electrical plans indicates the location of the electrical service entrance (meter can) point and the interior location of the electrical circuit panel. At the electrical service entrance point an overcurrent protection device shall be installed on the exterior of structure, which will provide overcurrent protection for the service entry cable to the electrical panels. This overcurrent protection device shall also serves as a means of disconnecting electrical power from the utility company. Conductors used from the exterior overcurrent protection disconnect device to the panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Please provide the amperage ratings for the electrical service entrance and any additional sub panel.

The removal of the design loads and the code compliance statement shown on sheet 2 of 3 are to be removed from this drawing unless Mr. Mark Disosway P.E. for Windload Engineering affixes his embossed seal to the drawing.

If you should have any question please contact the above address, or call phone number (386) 758-1163.

Please include application number 0903-40 and when making reference to this application.

This is a plan review for compliance with the Florida Building Code 2007 only and doesn't make any consideration toward the land use and zoning requirements.

Thank You:

Joe Haltiwanger

Columbia County Building

Department



# OCCUPANCY

# COLUMBIA COUNTY, FLORIDA

# partment of Building and Zoning inspection

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

Parcel Number 09-3S-16-02045-007

Use Classification SFD, UTILITY

Permit Holder HOUSECRAFT HOMES

Owner of Building KEITH ADAMS

Location: 5881 NW LAKE JEFFREY ROAD, LAKE CITY, FL 32055

Date: 09/10/2009

Waste: 16.75

Total:

28.97

Fire:

12.22

Building permit No. 000027721

E CONTRACTOR OF THE PARTY OF TH

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)



### RIGHT-J LOAD AND EQUIPMENT SUMMARY Entire House

Scott Ray

FL Phone: (352)745-0473

### Project Information

For:

House Craft Homes

12523 U.S. Highway 441, Alachua, FL 32615 Phone: (904)462-5323 Fax: (904)462-1509

Notes:

### Design Information

Weather: Gainesville, FL, US

### Winter Design Conditions

### **Summer Design Conditions**

Outside db Inside db Design TD	33 °F 70 °F 37 °F	Outside db Inside db Design TD Daily range Relative humidity Moisture difference	92 °F 75 °F 17 °F M 50 % 52 gr/lb
		Moisture difference	52 gr/lb

### **Heating Summary**

### Sensible Cooling Equipment Load Sizing

Building heat loss Ventilation air	84493	Btuh cfm	Structure Ventilation	38534 0	Btuh Btuh
Ventilation air loss	ŏ	Btuh	Design temperature swing	3.0	°F
Design heat load	84493	Btuh	Use mfg. data	n	
			Rate/swing multiplier	0.97	
Infiltrat	ion		Total sens, equip, load	37378	Btuh

### Intiltration

Method Construction quality	Simplifi Avera		Latent Cooling Equipment Load Sizi				
Fireplaces	Ayera	0	Internal gains Ventilation	690 Btuh 0 Btuh			
Area (ft²)	Heating 2819	Cooling 2819	Infiltration Total latent equip. load	8482 Btuh 9172 Btuh			

Total equipment load

	Heating	Cooling
Area (ft²)	2819	2819
Volume (ft³)	36222	36222
Air changes/hour	0.70	0.40
Equiv. AVF (cfm)	423	242

**Heating Equipment Summary** 

### **Cooling Equipment Summary**

46550 Btuh

Make Trade	Make Trade

Efficiency Heating input Heating output Heating temp rise Actual heating fan Heating air flow factor	0 1844	Btuh @ 47°F °F cfm cfm/Btuh	Efficiency Sensible cooling Latent cooling Total cooling Actual cooling fan Cooling air flow factor	0 0 1844	Btuh Btuh Btuh cfm cfm/Btuh
Space thermostat			Load sensible heat ratio	81	%

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.



## RIGHT-J CALCULATION PROCEDURES A, B, C, D Entire House

### **Scott Ray**

FL Phone: (352)745-0473

Procedure A - Winter Infil	tration HTM	Calculation*
----------------------------	-------------	--------------

1.	Winter infiltration AVF					
	0.70 ach x 36222 ft <sup>3</sup>		x 0.0167	=	423	cfm
2	Winter infiltration load					
	1.1 x423 cfm x 37	°F	Winter TD =		17234	Btuh
3.	Winter infiltration HTM					Tamon on a company
	17234 Btuh / 281 ft <sup>2</sup>		Total window = and door area		61.3	Btuh/ft²

### **Procedure B - Summer Infiltration HTM Calculation**

1.	Summ	ner infiltra	ation A	VF						
	0.40	ach	X	36222	ft³	X	0.0167	=	242	cfm
2	Summ	ner infiltra	ation lo	ad						
۷.	Summ	ici mmin		LICH .						
۷.	1.1	x 242	cf	m x	17 °I	Summ	ner TD =		4525	Btuh
2. 3.	1.1		cf	m x	17 °I ft²	- Callin	ner TD = window =			Btuh Btuh/ft²

### Procedure C - Latent Infiltration Gain

0.68	x 52	ar/lh	moist.diff.	~	242 cfm	-	8482 Btuh	
0.00	V 05	ginis	moist.um.	^	272 UIII	E 3770	OTOL DIGIT	

### Procedure D - Equipment Sizing Loads

1.	Sensible sizing load			
	Sensible ventilation load			Di I
	1.1 x 0 cfm vent. x 17 °F Summer TD	=	0	Btuh
	Sensible load for structure (Line 19)	+	38534	Btuh
	Sum of ventilation and structure loads	=	38534	Btuh
	Rating and temperature swing multiplier	X	0.97	
	Equipment sizing load - sensible	=	37378	Btuh
2.	Latent sizing load			
	Latent ventilation load			
	0.68 x 0 cfm vent. x 52 gr/lb moist.diff.	=	0	Btuh
	Internal loads = 230 Btuh x 3 people	+	690	Btuh
	Infiltration load from Procedure C	+	8482	Btuh
	Equipment sizing load - latent		9172	Btuh

<sup>\*</sup>Construction Quality is:

a

No. of Fireplaces is:

0



### RIGHT-J WORKSHEET Entire House **Scott Ray**

FL Phone: (352)745-0473

1 2 3 4	MANUAL J: Name of room Length of expos Room dimensio Ceilngs	sed wa	I dit. Opti	on	Entire	House 226.0	ft d	1.0	ning/lvng 64.0 x 890.0 heat/coo	ft		9.0 9.0 x 280.0 heat/coo	ft	9.0 10.0 ft	0.0	ft
	TYPE OF EXPOSURE	CS		ITM   Clg	Area (ft²)	Load (E Htg	Stuh) Clg	Area (ft²)	Load (E Htg	ituh) Clg	Area (ft²)	Load (E Htg	Stuh)   Clg	Area (ft²)	Load (E Htg	Stuh) Clg
5	Gross Exposed walls and partitions	a 14 b c d e f	A 18.9 0.0 0.0 0.0 0.0	0.0 0.0 0.0	2876 0 0 0 0 0	****	****	896 0 0 0 0	****	****	126 0 0 0 0	****	****	0 0 0 0	****	****
6	Windows and glass doors Heating	a 3E b 5E c d e f	22.5 13.3 0.0 0.0 0.0 0.0	=======================================	140 15 0 0 0	3155 200 0 0 0	****	36 0 0 0 0	811 0 0 0 0	****	8 0 0 0	180 0 0 0 0	****	0 0 0	0 0 0 0	****
7	Windows and glass doors Cooling	Nor NE/ E/W SE/ Sou Hor	NW SW th	20.9 0.0 69.7 0.0 36.8 0.0	33 0 42 0 80	****	689 0 2929 0 2944 0	24 0 12 0 0	****	523 0 850 0 0	0 0 0 8 0	****	0 0 0 0 294 0	0 0 0 0	****	0 0 0 0
8	Other doors	a 11 b	21.8 0.0 0.0		126 0 0	2751 0 0	1531 0 0	63 0 0	1375 0 0	766 0 0	21 0 0	458 0 0	255 0 0	0 0 0	0	0
9	Net exposed walls and partitions	a 14 b c d e f	A 18.9 0.0 0.0 0.0 0.0	0.0 0.0 0.0	2595 0 0 0 0	48968 0 0 0 0	17602 0 0 0 0	797 0 0 0 0	15039 0 0 0 0	5406 0 0 0 0	97 0 0 0 0	1830 0 0 0 0	658 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0
10	Cellings	a 16 b c d e f	3 1.2 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	2819 0 0 0 0	3442 0 0 0 0	3814 0 0 0 0	890 0 0 0 0	1087 0 0 0 0	1204 0 0 0 0	280 0 0 0 0	342 0 0 0 0	379 0 0 0 0	54 0 0 0 0	66 0 0 0 0	73 0 0 0 0
11	Floors (Note: room perimeter is displ. for slab floors)	a 22 b c d e f	30.0 0.0 0.0 0.0 0.0 0.0	0.0	226 0 0 0 0	6773 0 0 0 0	000000000000000000000000000000000000000	64 0 0 0 0	1918 0 0 0 0	00000	9 0 0 0 0	270 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0
12	Infiltration	а	61.3	16.1	281	17234	4525	99	6072	1594	29	1779	467	0	0	0
13 14 15	Subtotal loss=6- Less external he Less transfer Duct loss Total loss = 13+	eating	+12		****	82522 0 0 0 82522	****	****	26302 0 0 0 26302	****	****	4859 0 0 0 4859	****	**** **** 0%	66 0 0 0 0 66	****
16 17 18 19 20	Int. gains: Subtot RSH gai Less external co Less transfer Duct gain Total RSH gain: Air required	ooling	@ .+12+16	300 1200	3 3 **** **** 0% 1.00	**** **** **** **** 1844	900 3600 38534 0 0 0 38534 1844	3 2 **** **** 0% 1.00	****	900 2400 13643 0 0 0 13643 653	0 0 **** **** 0% 1.00	**** **** **** **** 109	0 0 2053 0 0 0 2053 98	0 0 **** **** 0% 1.00	****	0 73 0 0 0 73 3



### RIGHT-J WORKSHEET Entire House **Scott Ray**

FL Phone: (352)745-0473

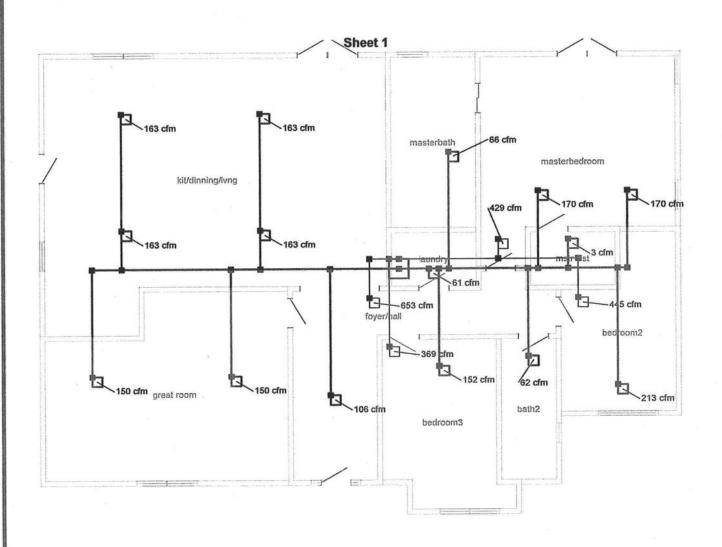
1 2 3 4	MANUAL J: Name of room Length of expos Room dimension Ceilngs	sed wa		on		9.0 1 x 18.0 heat/coo	ft	9.0 10.0 ft	0.0	ft	1.0	rbedroom 42.0 x 434.0 heat/coo	ft ft		om2 31.0 f x 192.0 heat/cool	ft
	TYPE OF EXPOSURE	C		HTM   Clg	Area (ft²)	Load (E Htg	Stuh)   Clg	Area (ft²)	Load (E Htg	ituh) Clg	Area (ft²)	Load (E Htg	Stuh) Clg	Area (ft²)	Load (B Htg	tuh) Clg
5	Gross Exposed walls and partitions	a 14 b c d e f	A 18.9 0. 0. 0. 0.	0.0 0.0 0.0 0.0 0.0	108 0 0 0 0	****	****	0 0 0 0 0	****	****	504 0 0 0 0	****	****	372 0 0 0 0	****	****
6	Windows and glass doors Heating	a 3E b 5E c d e f		**	0 9 0 0	0 120 0 0 0	****	0 0 0 0	0 0 0 0 0	****	24 0 0 0 0	541 0 0 0 0	****	24 0 0 0 0	541 0 0 0 0	****
7	Windows and glass doors Cooling	Nor NE/ E/W SE/ Sou Hor	NW SW th	20.9 0.0 69.7 0.0 36.8 0.0	9 0 0 0	****	166 0 0 0 0	0 0 0 0 0	****	0 0 0 0	0 0 24 0 0	****	0 0 1699 0 0	0 0 0 0 24 0	****	0 0 0 0 883
8	Other doors	a 11 b	A 21.0	0.0	0	0	0	0 0 0	0	0 0 0	42 0 0	917 0 0	510 0 0	0 0 0	0	0
9	Net exposed walls and partitions	a 14 b c d e f	A 18.9 0.0 0.0 0.0	0.0 0.0 0.0 0.0	99 0 0 0	1868 0 0 0 0	672 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	438 0 0 0 0	8265 0 0 0 0	2971 0 0 0 0	348 0 0 0 0	6567 0 0 0 0	2360 0 0 0 0
10	Ceilings	a 16 b c d e f	G 1 0 0 0 0	0.0 0.0 0.0 0.0 0.0	162 0 0 0 0	198 0 0 0 0	219 0 0 0 0	54 0 0 0 0	66 0 0 0	73 0 0 0 0	434 0 0 0 0	530 0 0 0 0	587 0 0 0 0	192 0 0 0 0	234 0 0 0 0 0	260 0 0 0 0
11	Floors (Note: room perimeter is displ. for slab floors)	a 22 b c d e f	A 30.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	90000	270 0 0 0 0	0 0 0 0	0 0 0 0 0	00000	00000	42 0 0 0 0	1259 0 0 0 0	00000	31 0 0 0 0	929 0 0 0 0	0 0 0 0 0
12	Infiltration	а	61.3	16.1	9	552	145	0	0	0	66	4048	1063	24	1472	386
13 14 15	Subtotal loss=6 Less external hi Less transfer Duct loss Total loss = 134	eating	l+12		****	3008 0 0 0 3008	****	****	66 0 0 0 66	****	****	15559 0 0 0 15559	****	****	9743 0 0 0 9743	****
16 17 18 19 20	Int. gains: Subtot RSH gai Less external co Less transfer Duct gain Total RSH gain Air required	ooling	@ .+12+1	300 1200 3	0 0 **** **** 0% 1.00 ****	**** **** **** **** 67	0 0 1201 0 0 0 1201 57	0 1 **** **** 0% 1.00	****	0 1200 1273 0 0 0 1273 61	0 0 **** **** 0% 1.00	**** **** **** **** 348	0 0 6831 0 0 0 6831 327	0 0 **** **** 0% 1.00	**** **** **** 218	0 0 3890 0 0 0 3890 186



### RIGHT-J WORKSHEET Entire House **Scott Ray**

FL Phone: (352)745-0473

1 2 3 4	Name of room Length of expos Room dimensio Ceilngs	sed	wall	t. Optio	n		11.0 f x 15.0 heat/cool	Total 1		om3 20.0 f x 213.0 heat/cool			oom 40.0 f x 450.0 heat/cool	ft	,		
	TYPE OF EXPOSURE		CST NO.	Htg	TM Clg	Area (ft²)	Load (B Htg	tuh) Clg	Area (ft²)	Load (B Htg	tuh) Clg	Area (ft²)	Load (B Htg	tuh) Clg	Area	Htg	Clg
5	Gross Exposed walls and partitions	abcdef	14A	18.9 0.0 0.0 0.0 0.0 0.0	6.8 0.0 0.0 0.0 0.0 0.0	110 0 0 0 0	****	****	240 0 0 0 0	****	****	520 0 0 0 0	****	****		****	****
6	Windows and glass doors Heating	a b c d e f	3B 5E	22.5 13.3 0.0 0.0 0.0 0.0	:::::	0 6 0 0	0 80 0 0 0	****	24 0 0 0 0	541 0 0 0 0 0	****	24 0 0 0 0	541 0 0 0 0 0	****			****
7	Windows and glass doors Cooling	1	North NE/N' E/W SE/S' South Horz	w	20.9 0.0 69.7 0.0 36.8 0.0	0 0 6 0 0 0	****	0 0 380 0 0	0 0 0 0 24 0	****	0 0 0 0 883	0 0 0 0 24 0	****	0 0 0 0 883		****	
8	Other doors	a b c		21.8 0.0 0.0	12.2 0.0 0.0	0 0 0	0 0 0	0	0 0 0	0	0	0	0	000	## ## ## ## ## ## ## ## ## ## ## ## ##		
9	Net exposed walls and partitions	a b c d e f		18.9 0.0 0.0 0.0 0.0 0.0	6.8 0.0 0.0 0.0 0.0 0.0	104 0 0 0 0	1962 0 0 0 0	705 0 0 0 0	216 0 0 0 0	4076 0 0 0 0	1465 0 0 0 0 0	0 0	9360 0 0 0 0	3364 0 0 0 0 0			
10	Ceilings	a b c d e f		1.2 0.0 0.0 0.0 0.0 0.0	1.4 0.0 0.0 0.0 0.0 0.0	90 0 0 0	110 0 0 0 0	122 0 0 0 0	0	260 0 0 0 0	288 0 0 0 0	0	549 0 0 0 0	609 0 0 0 0			
11	Floors (Note: room perimeter is displ. for slab floors)	a b c d e f		30.0 0.0 0.0 0.0 0.0 0.0	0.0	11 0 0 0 0	330 0 0 0 0	0 0 0 0	0 0 0	599 0 0 0 0	0 0 0 0 0	0 0 0	1199 0 0 0 0 0	0 0 0 0 0			
12	Infiltration		а	61.3	16.1	6	368	97	24	1472	386	24	1472	386			
13 14 15	Subtotal loss=6 Less external h Less transfer Duct loss Total loss = 13	neat	ing	+12		**** **** ****	2850 0 0 0 2850	****	**** **** 0%	6948 0 0 0 6948	****	**** **** **** 0%	13120 0 0 0 13120	****	****	2	****
16 17 18 19 20	Int. gains: Subtot RSH ga Less external of Less transfer Duct gain Total RSH gair Air required	A ain= cool	ing	@ +12+16	300 1200		**** **** **** **** **** 64	0 0 1304 0 0 1304 62	0 **** **** 0% 1.00	****	0 0 3023 0 0 0 3023 145	0 **** **** 0% 1.00	****	0 0 5243 0 0 0 5243 251	****	****	



### Job #: Performed by S.E.R. for:

House Craft Homes 12523 U.S. Highway 441 Alachua, FL 32615 Phone: (904)462-5323 Fax: (904)462-1509

### **Scott Ray**

FL Phone: (352)745-0473 Scale: 1:117

Page 1 Right-Suite Residential (tm) 5.0.66 RSR24126 2009-Mar-23 00:45:00 ıments\Wrightsoft HVAC\house craf

Permit #	
User ID	

### PRODUCT APPROVAL SPECIFICATION SHEET

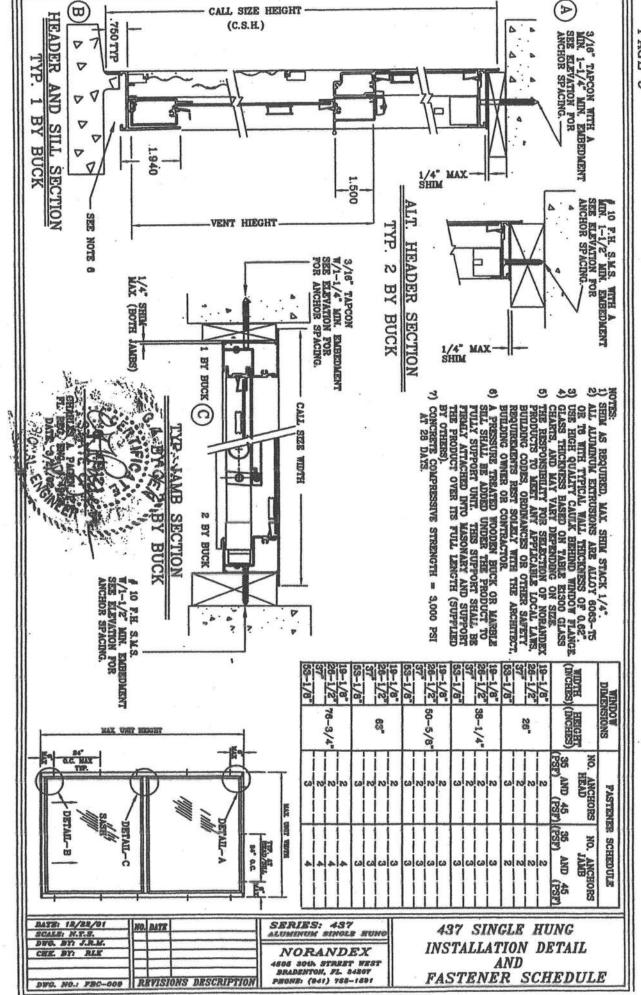
As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your 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

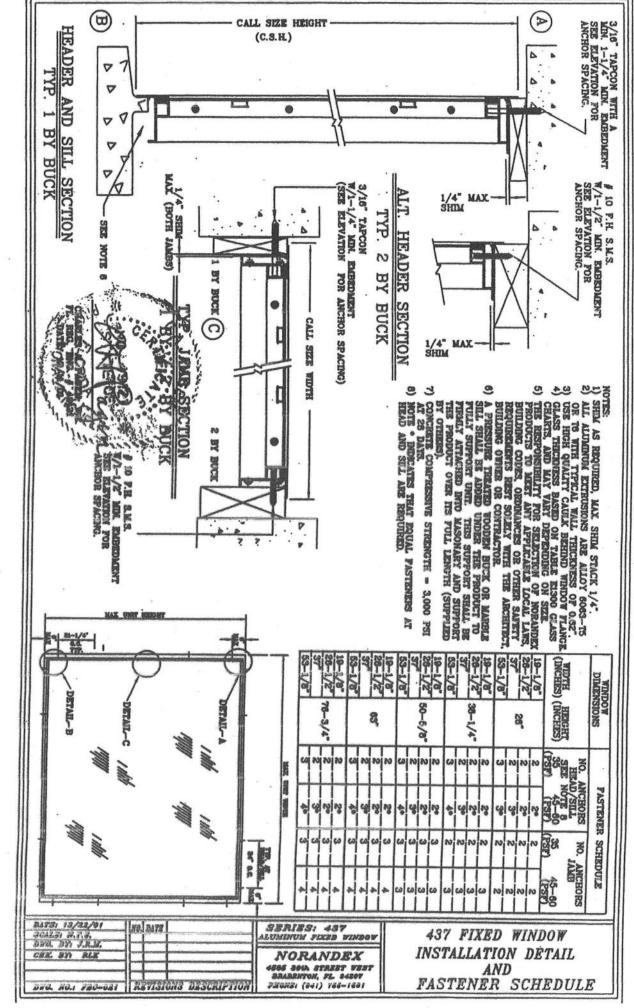
Category/Subcategory	Manufacturer	Product Description	Approval Number(s)	Х
1. EXTERIOR DOORS				
A. SWINGING	Masonite	Entry Door	FL. 4940.4	_
B. SLIDING	HR Danvid	502 SGD	FI 6396.5	
C. SECTIONAL/ROLL UP	Overhead Door	Garage door	FL 674	_
D. OTHER				-
2. WINDOWS			EL 100	-
A. SINGLE/DOUBLE HUNG	Kinco	M50 SH Alum. Window	Fl. 123	+-
B. HORIZONTAL SLIDER				-
C. CASEMENT				+-
D. FIXED	Kinco	M50 PC Window	FI. 125	+-
E. MULLION	HR	340	FL 5872	+-
F. SKYLIGHTS				+-
G. OTHER / GLASS BLOCK	Hy-Lite	Glass Block window	FL 1956.3	$\perp$
3. PANEL WALL				╀-
A. SIDING			FI 4448 F	+-
B. SOFFITS	Kaycan	Aluminum soffits	FL 1146.5	-
C. STOREFRONTS				+-
D. GLASS BLOCK				+
F. OTHER				
4. ROOFING PRODUCTS				-
A. ASPHALT SHINGLES	Tamko	Heritage 38-R	FL. 7154	+
B. NON-STRUCT METAL				-
C. ROOFING TILES				+-
D. SINGLE PLY ROOF				+-
E. OTHER				$\perp$
5. STRUCT COMPONENTS				1
A. WOOD CONNECTORS			1001 17 1001 17	+-
B. WOOD ANCHORS	Simpson	Truss anchors	1901.17 1901.45	+-
C. TRUSS PLATES			1901.25 1901.21	+
D. INSULATION FORMS			- 1500	-
E. LINTELS	Cenemt Precast	Concrete lintels	FL. 4569	+-
F. TRUSSES	Thomas E. Miller	engineer	PE 56877	_
6. NEW EXTERIOR				1
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.

 	 -
DATE	

## WINDOWS, DOORS, AND MULL BARS INFORMATION

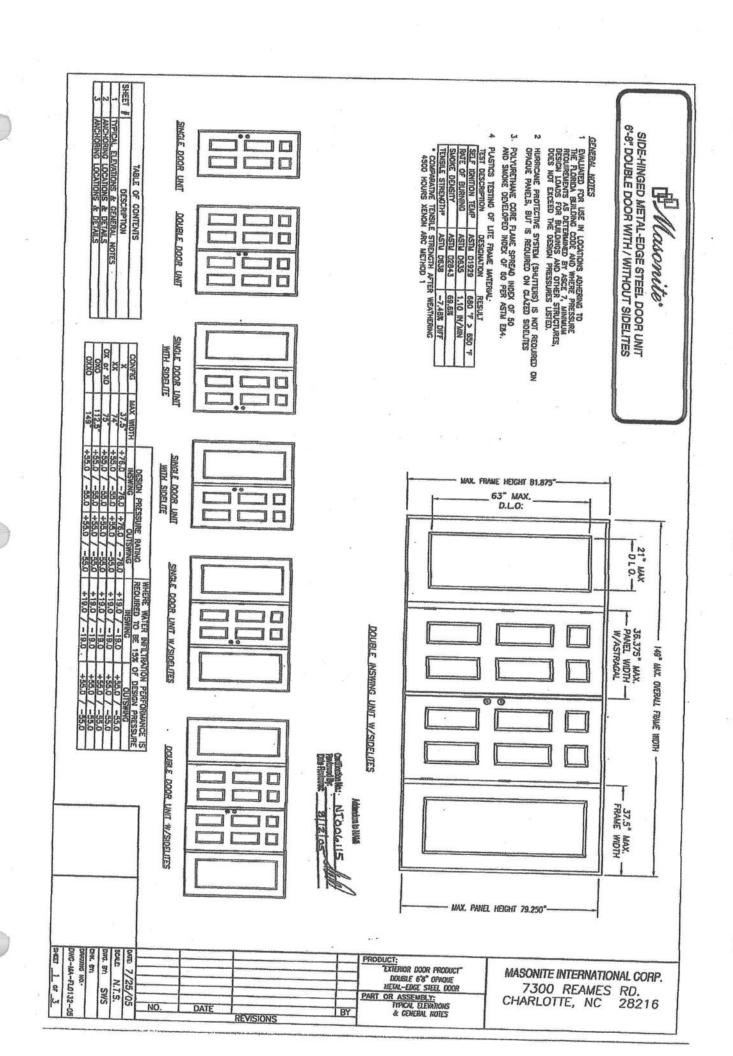


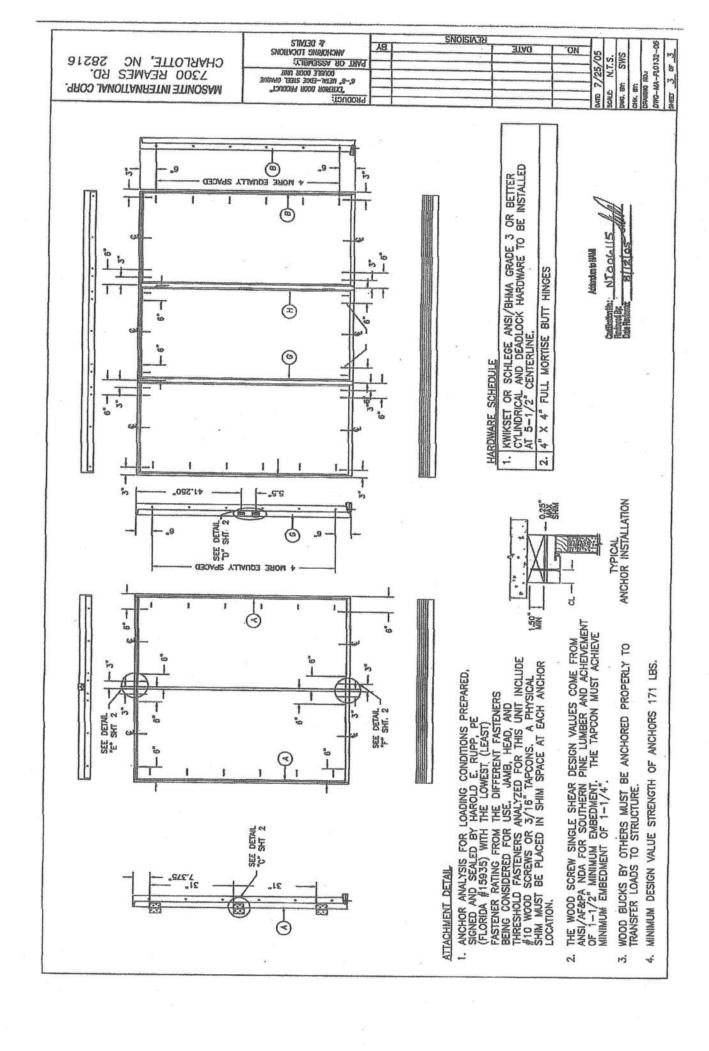


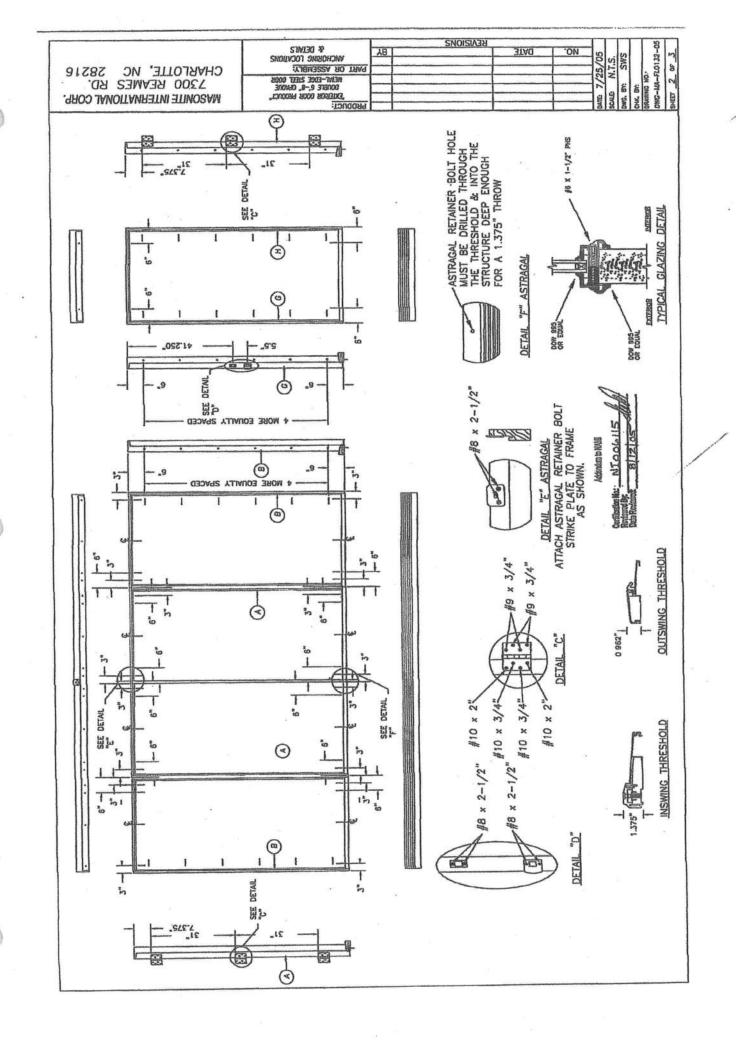
DAG' NO" 18C-088 REVISIONS DESCRIPTION EVELENER SCHEDULE 2008 306h Street wes Prone: (941) 765-1691 INSTALLATION DETAIL AND CHE BL: BTE BAC' BL: BYB SCYTE: N'L'S' NOKANDEX FLA-45 ANCHOR CLIP TARINAR SINGTS BANG SEBIES: RATTION VERTICLAL MULLION NUMBER AND TYPE OF FASTENERS 1) ALL ALUMINUM EXTRUSIONS ARE ALLOY 6063 T6, OR 6063 T5.

2) WHEN THERE IS ONE TAPCON (1/40" X 1-1/2") ON EACH ANGLE LEG, THE TAPCON SALL BE PLACED ON MULLION CLP CENTERLINE.

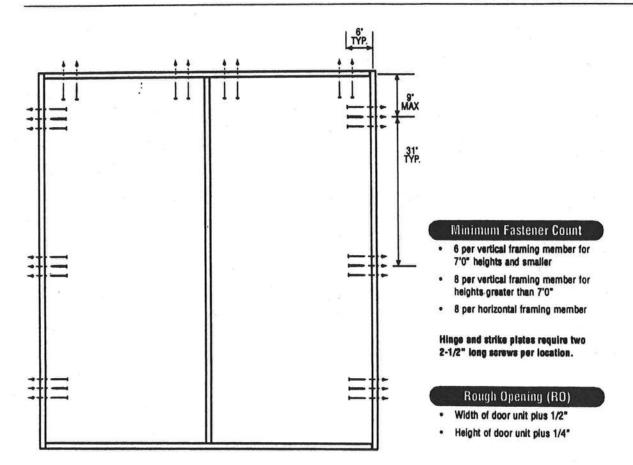
3) CONCRETE COMPRESSIVE STRENGTH = 3,000 PSI AT 28 DAYS. (4) 3/16% x 1 (4) 3/16ø" x 1 (4) 3/16ø x 1 (4) 3/16ø x 1 (4) 3/16ø x 1 (4) 3/16ø x 1 (4) 1/4ø x 1 MULLION SCHEDULE OF MULLION TYPE OF CLIP NOTES DESIGN PRESSURE VERTICAL 0 0 0 8 8 8 9 0 0 0 PSF 35 6.A. P. A. TYPE 14 10 26" 38-1/4" 50-5/8" 76-3/4" 38-1/4" 50-5/8" 78-3/4" 26" 38-1/4" 50-5/8" 26.7 50-5/8 76-3/4  $\frac{63}{76-3/4}$ WINDOW HEIGHT LINS SINGLE WINDOW 19-1/8" 28-1/2 37, MULLION ANCHOR CLIP 16 GA. GALV. SHEET METAL 800 LB. MAX CAPACITY 1x3 MULLION (XFLA-26-1) 1x4 MULLION (XFLA-39) SEE CHART FOR FASTENERS SEE CHART FOR -3/8"MIN. WINDOW -3/4"MAX FASTENERS WINDOW L3/8"MIN. 8"MIN. 1-1/8" Δ 1x3 MULLION (XFLA-26-1) 1x4 MULLION (XFLA-39) 7/8" 0 -7/8" D, Δ Δ Δ Δ 4 2/8,\* 2/8"4 Δ NORANDEX CAULK BOTTOM OF MULL CAULK TOP OF MULL PAGE 29 #10 X 3/4" TEK SCREW -PRECASTED-SILL #10 x 3/4" WINDOW-JAM WINDOW







### **DOUBLE DOOR**





Test Data Review Cartificate #3026447A; #3026447B; #3026447C and COP/Test Report Validation Matrix #3026447A-001, 002, 003, 004; #3026447B-001, 002, 003, 004; #3026447C-001, 002, 003, 004 provide additional Information - available from the ITS/WH website (www.etsemko.com), the Masonite website hyww.masonite.com) or the Masonite technical center.

### **Latching Hardware:**

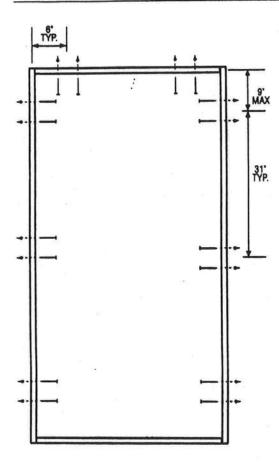
- Compliance requires that GRADE 3 or better (ANSI/BHMA A158.2) cylindrical and deadlock hardware be installed.
- UNITS COVERED BY COP DOCUMENT 6247°, 9267°, 3242°, 3247, 3262° or 3267
   Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel (1) at top and (1) at bottom.
- \*Based on required Design Pressure see COP sheet for details.

### Notes:

- Anchor calculations have been carried out with the fastener rating from the different fasteners being considered for use. Jamb and head
  fasteners analyzed for this unit include #8 wood screws and 10d common nails. Threshold fasteners analyzed for this unit include Liquid Nails
  Builders Choice 490 (or equal structural adhesive).
- 2. The wood screw and common nall single shear design values come from ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment of 1-1/4".
- 3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

Masonite.

### SINGLE DOOR



### Minimum Fastener Count

- 6 per vertical framing member for 7'0" height and smaller
- 8 per vertical framing member for heights greater than 7'0"
- 4 per horizontal framing member

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

### Rough Opening (RO)

- Width of door unit plus 1/2\*
- Height of door unit plus 1/4"



Test Data Review Cartificate #30284478; #30284478; #3028447C and COP/Test Report Validation Matrix #30284476-001, 002, 003, 004; #30284478-001, 002, 003, 004; #3028447C-001, 002, 003, 004 provide additional information - evallable from the ITS/MH website (www.etisemico.com), the Masonite website (www.masonite.com) or the Masonite technical center.

### **Latching Hardware:**

- Compliance requires that GRADE 3 or better (ANSI/BHMA A156.2) cylindrical and deadlock hardware be installed.
- UNITS COVERED BY COP DOCUMENT 6245°, 8266°, 3241°, 3246, 3261° or 3266
   Compliance requires that 8° GRADE 1 (ANSI/BHMA A156.16) surface boits be installed on latch side of active door panel (1) at top and (1) at bottom.
- \*Based on required Design Pressure see COP sheet for details.

### Notes:

- Anchor calculations have been carried out with the fastener rating from the different fasteners being considered for use. Jamb and head fasteners analyzed for this unit include 10d common nails. Threshold fasteners analyzed for this unit include Liquid Nails Builders Choice 490 (or equal structural adhesive).
- The common nall single shear design values come from ANSVAF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment of 1-1/4".
- 3. Wood bucks by others, must be anchored properly to transfer loads to the structure.



### NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO: NI006592

DATE:

06/16/2006

CERTIFICATION PROGRAM: Structural

COMPANY: CODE:

Atrium A-447-1

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

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

COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
Atrium Windows & Doors-Florida 3600 Port Jacksonville Parkway Jacksonville, FL 32226	"Mark 40/50 Premium" Aluminum Single Hung Standard Flange Frame Window Configuration: OX Glazing: O-3/16"Annealed Glass/X-5/32" Annealed Glass
	Frame: W-4'5" Sash; W-4'2" Pos+60.0 H-8'1" H-3'3" Neg-67.5

SPECIFICATION	PRODUCT RATING
AAMA/NWWDA 101/I.S.2-97/ AAMA 1302.5-76 Glass Complies to ASTM E1300-02	H-LC35 FER-Passed

Product Tested By:

Certified Testing Laboratories

Report No:

CTLA-1049W (Structural/FER)

Expiration Date:

March 31, 2007

Administrator's Signature:

NATIONAL ACCREDITATION AND MANAGEMENT INSTITUTE, INC.

11870 Merchants Walk Saite 202 Newport News, VA 23606 TEL: (757) 594-8658 FAX: (757) 594-8659

# GARAGE DOORS INFORMATION

COMPRESSED & INCHESIONALLA CURADE UNION BILINGO: CAL DATA SHEET

**#1550** 

#### GARAGE DOOR WIND LOAD GUIDE BASED ON THE 2001 FLORIDA BUILDING CODE (ASCE 7-98) EXPOSURE B

Mean	Door	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPR
Les than	Single 9'x 7'	-14.5	-17.9	-21.6	-25.8	-26.7 -30.2	-35.1	35.6 -40.2
	Double	-13.7	-16.9	-20.4	-24.3	25.6 -28.5	-33.1	-38.0

Design pressures above are in Pounds per Square Foot (PSF)

Toxing, if required by local authority, may be performed to ASTM E-330, or proferably DASMA 108. .nusct . ad cyclic wind pressure testing on glazed doors may be performed to ASTM E-1886, or proforably DASMA 115.

- Garage doors shall be tosted to both negative and positive pressures. Doors shall be installed simulating normal conditions (i.e., top roller in track radius, other rollers in tracks, all hinges in place, reinforcing hardware in place)
- Total test duration for each test direction shall be as follows:
  - A. Total of 3600/V seconds, at design pressure; where V is fastest-mile design wind speed.
  - B. Pressure equal to 1.5 times the design pressure shall be included for 10 seconds during each test.

The door successfully passes the test if it remains safely operable through the full travel up and down, and recovers at least 75% of .ts ma cumum deflection. Standard engineering principles may be used to interpolate or extrapolate test results to door sizes not specifically tested. Doors shall include a manufacturer's label certifying compliance to specific load.

This juide is provided for reference purposes only. In all cases the local building authority is the sole and final determinor of the struct: cal and safety requirements, and suitability of the garage door.

#### \*DIE!

Juliu Wind I reeds above are three seemed peak-gust values

Seguive pres ourse assume door has 2 foot of width in building's and zone. ware doors evaluated as atmohed to melaced buildings with a Use Pastor

- Doors larger than 100 square feet should use the 16 x 7 loads. Doors less than 100 square feet may be interpolated.
- Garage doors evaluated set Components and Cladding
- Installation details very. Consult munufacturer's instructions.

For more information, contact DASMA, 1300 Sumper Avenue, Cleveland OH 44115-2851 Phone (216) 241-7333 E-mail: dasma@dusma.com Fax (216) 241-0105 URL: www.dasma.com

Tec. Tec mices that Sheets are information tools only and should not be used as autoritates for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Testion and Onte Sheet was prepared by the members of DASMA's Commercial & Residential Garage Door Division Technical Committee. DASMA is a trade association C. DESIGNATION OF THE PROPERTY Carating I svices for gatage doors and gates, sensing devices, and electrosic remote controls for gazage doors and gate operators; as well as compenies that munufanthis of 245 M sithet tam transmiss or significant components used in the manufacture and installation of the Active Members, broands

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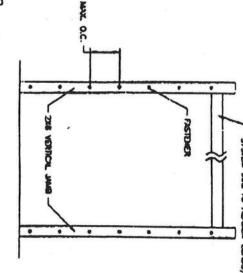
# WOOD FRAME BUILDINGS

STUD WALLS OF DOOR OPDING SMALL BE FRAMED SOLID BY MOT LESS THAN 2 RALL LENGTH STUDS AND 2 HEADENSTUDS WENG STY STUD GRANE ON BETTER WOCD.

STUD WALLS TO BE CONTINUOUS FROM FOOTING TO THE BEAMS AND IN ACCORDINGE WITH STRC SECTION 2905.1. MISTALLARON IN ACCORDINGE WITH DING 409783 IS AN ACCEPTABLE ALTERNATIVE.

# BLOCK WALL OR CONCRETE

CONCIDENCE COLLIANS TO BE DESCRIED BY BULLONG PROFESSIONAL OF RECORD AND IN ACCORDANCE WITH SECURITY OF CONCIDENC AND RELICENTAL COLLIANA, BLOCK WALL COLLIANA, BECAUSE TO FROMING AND AND DIE REDAKS, (STRENGTH IS ASSUMED TO BE ZERO PS), ALL BAYS SHALL BE CONFIDENCIAS FROM THE BECAUS TO FROMING PER BLOCK WALL ON CONCIDENE COLLIANA, BLOCK WALLS AND CONCIDENCE WITH SFBC SECTION 2704.2



# 2X6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

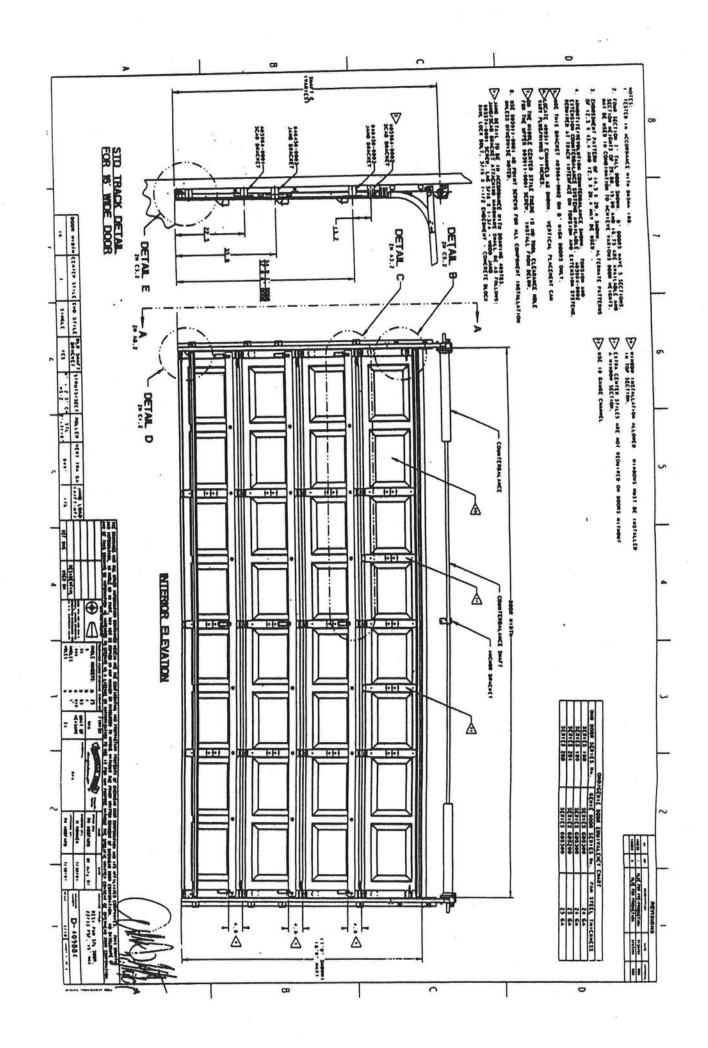
(NOT TO BE USED FOR ATTACHMENT OF TRACK BRACKETS TO 208 VERTICAL JAMES OR SUPPORTING STRUCTURE)

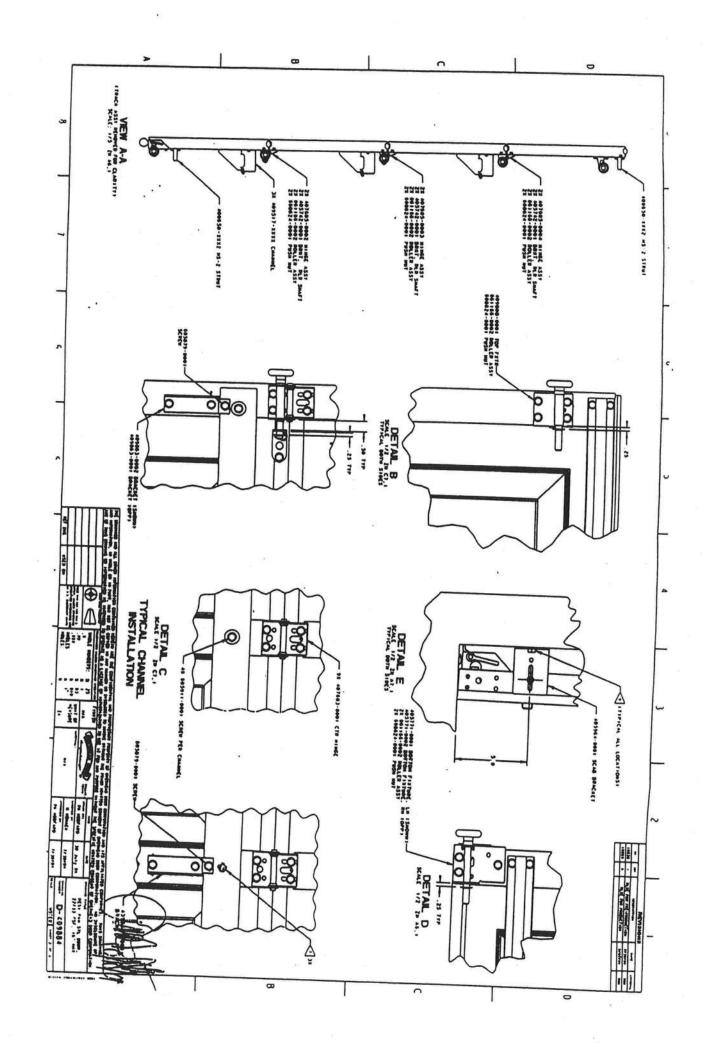
CONTRETE COLUMN (2500 PSI)	C-00 BDOX (2:500 PSI GBOWT)	C-90 BLOCK (3.500 PSI CROW)	MODE FRANK (SPF)		BUNUTURE TYPE
3/8" X 4" RUM, LON/BOLU ANCHON BOLU, 1-5/8" MIN. EMBED."	3/8" x 4" PAWIL LOK/BOLT ANCHOR BOLT, 1-3/8" MAY BABED."	1/4" > 4" ITH TAPCON CONDICTE ANCHOR 1-1/4" NAM BINGED."	5/16" X 3" LAG SCOREN (ASDA A307, GRADE A), 1-5/8" HAM. EMBED.		PASIDLEN TIPE
6	0	7	7	Y MCH	FASTENETS POR YORN JAME
7	7 .		89	S, NICH	MAN, NO. OF FASTEMENS PER YEMTICAL JAMES
16"	٦٩	16"	16"	PASIDIOS	HANDALIN ON CENTER INSTANCE BUTHERN
96	\$	đ	NZ.		SIGN-SIGN MICHAELS MICHAELS

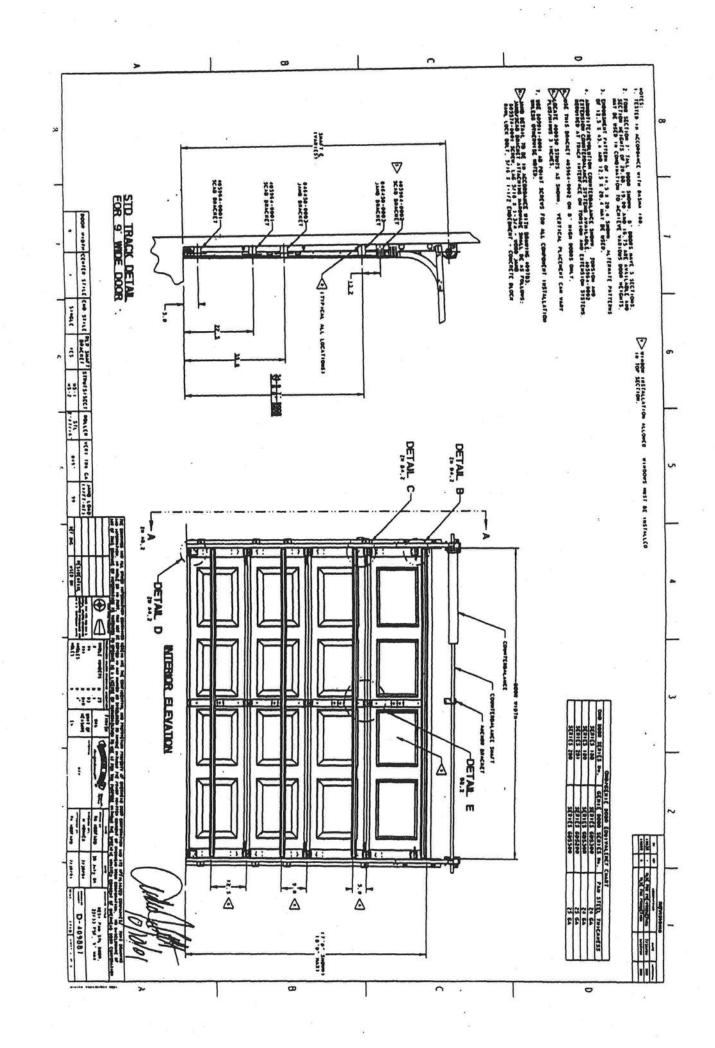
THYCONS/MUCHOR BIOLUS CAN BE INSTITLED DRECTLY THROUGH THACK SHACKETS/AWQLE IN LIGU OF 5/16" X 1-5/8" LAG SCHEME, RAWL LON/BOLU SANLE BE TOROUGE AS SPECIFIED BY THE RAWL DRILLING AND ANCHOROUG SYSTEMS DESICA WARMAL

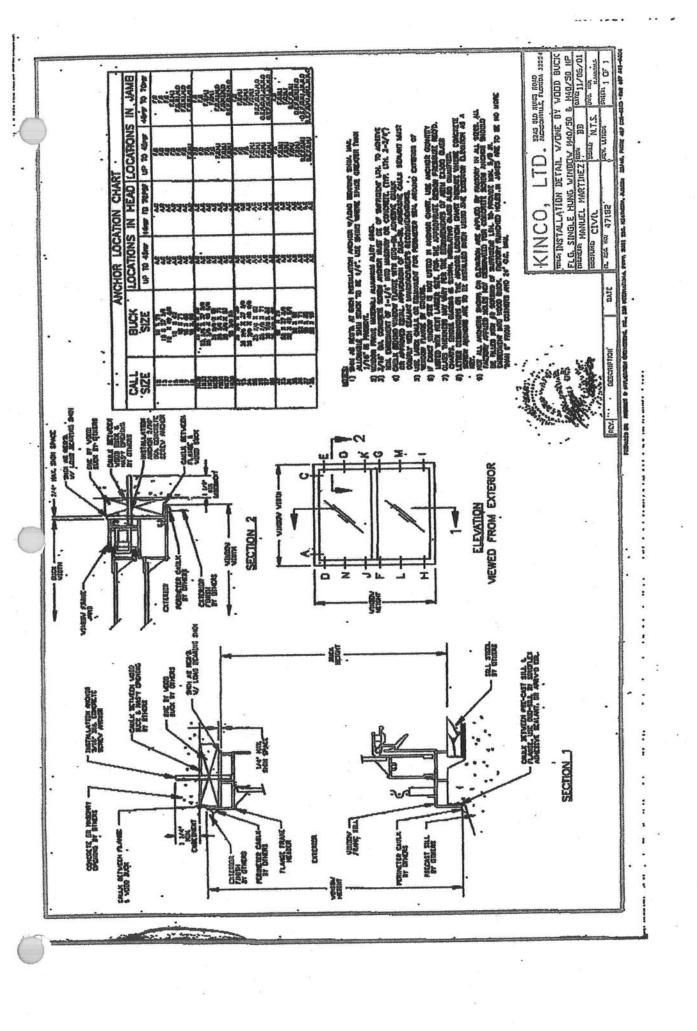
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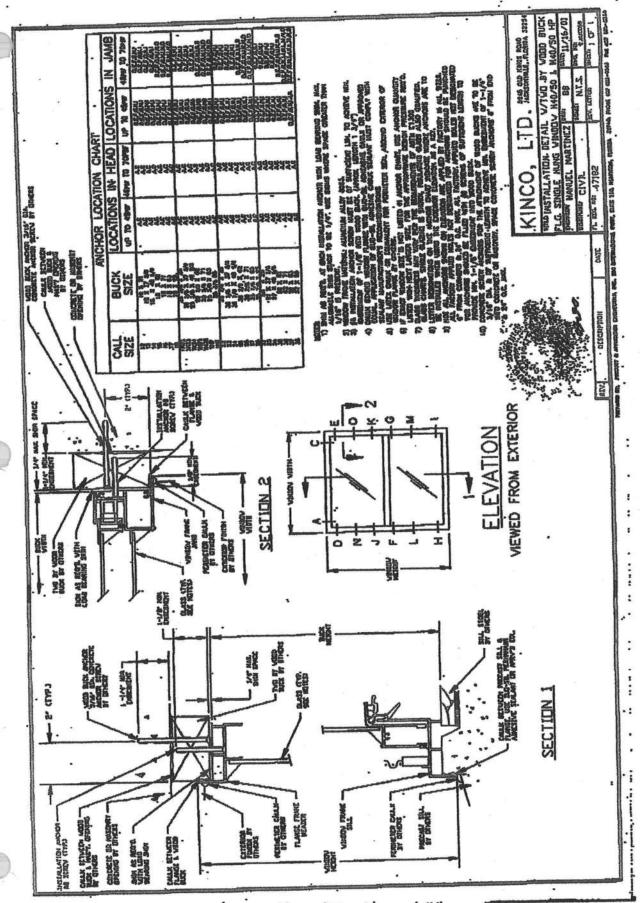
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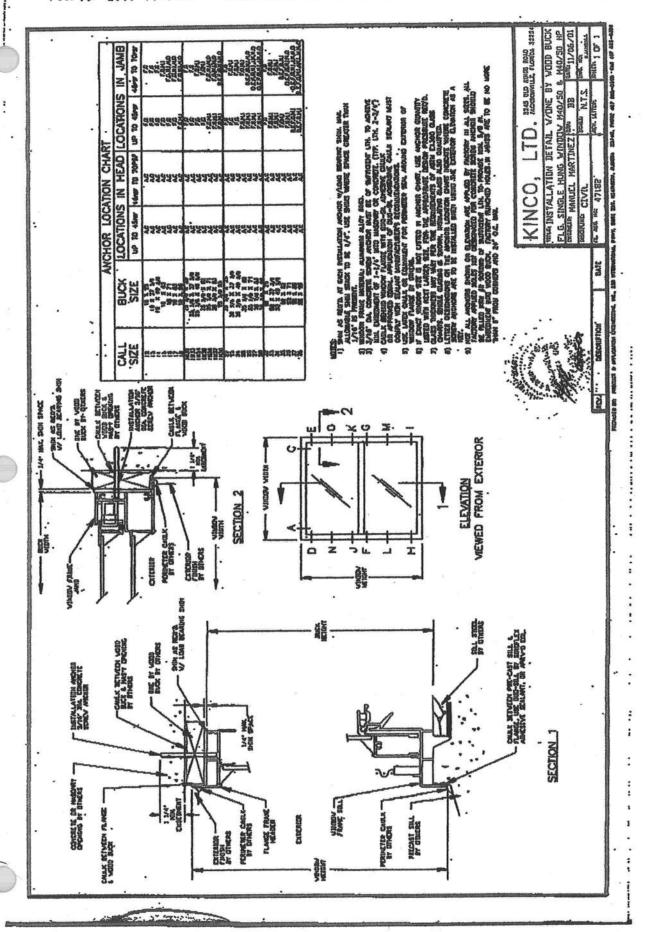




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HEAIZIONS DESCRIBLION EVELENER SCHEDULE -994 (100) LEHOMA INSTALLATION DETAIL AND CHE BU HTE BAC BU HTE SCHE! HTE S\11\08 NOBVNDEX FLA-45 ANCHOR CLIP VERTIES: MATTION HOKIZONLYT MATTION SH HEAD DW SILL -#10 x 3/4" NUMBER AND TYPE OF FASTENERS (XFLA-26-1) 1x3 MULLION (XFLA-39) 1x4 MULLION SCHEDULE 1-15/18" FASTENERS 4 SEE CHART FOR OF CLIP MULTION 16 GA. GALV. SHEET METAL. LB. MAX CAPACITY OF MULLION HORIZONTAL DESIGN PRESSUR FLA-45 MULLION ANCHOR PSF FASTENERS
4 SHOWN 800 MULLION (XFLA-26-1) MULLION (XFLA-39) SINGLE MEDTH 1-15/18" 37 3/4 ALTHINUM EXTRUSIONS ARE ALLOY 6083 T6, 9083 T5. #10 x 3/4"-EK SCREW E SH HEAD DW SILL PAGE SE C

NORANDEX



BEG-DES FOR BEG-DES BEALSIONS DESCRIBLION EVELENER SCHEDULE INSTALLATION DETAIL AND CHE BA: WER BAC' BA: WER BOTTE! WE'S' S\11\03 NOBVIDEX ETV-42 VACHOR CLIP VICKURAR SURGES BANG SEBIES: MATTION LIVE ARBLICTYT MOTTION NUMBER AND TYPE OF FASTENERS MUNIMUM EXTRUSIONS ARE ALLOY 6063 T6, = 3,000 PSI WHEN THERE IS ONE TAPCON (1/46" X 1-1/2")
ON EACH ANGLE LEG. THE TAPCON SHALL BE
PLACED ON MULLION CLIP CENTERLINE.
CONCRETE COMPRESSIVE STRENGTH = 3,000 PS
AT 25 DAYS. (4) 3/186" x 1 SCHEDULE CLIP MULTION TYPE OF TYPE OF MULLION DESIGN PRESSURE VERTICAL 0,00000 \* \* \* \* \* \* 0,00000 \* \* \* \* \* \* 010101010 81818181818 910101010 PSF 38-1/4 50-5/8 WINDOW HEIGHT 19-1/8" 53-1/8 TINDOM 28-1/ 37, FLA-45
MULLION ANCHOR CLIP
16 GA GALV.
SHEET METAL
800 LB. MAX CAPACITY MULLION (XFLA-26-1) MULLION (XFLA-39) SEE CHART FOR FASTENERS SEE CHART FOR WINDOW -3/4"MAX - WINDOW HEAD S MIN FASTENERS -3/8"MIN. 1-1/8" 800 IX3 1x3 MULLION (XFLA-26-1) 1x4 MULLION (XFLA-39) 7/8" -7/8" 4 Δ Δ ۵۵ Δ 大男/9 CAULK BOTTOM-OF MULL CAULK TOP OF MULL #10 X 3/4" TEK SCREW-PRECASTED PAGE 29 #10 x 3/4" TEX SCREW MINDOW WINDOW-JAM

NORANDEX PAGE 29



Jax Apex Technology, Inc. 4745 Sutton Park Court, Suite 402 Jacksonville, FL 32224

All products listed in this report are currently approved for state use under the provisions of Florida Product Approval Rule 9B-72 and/or 61G15-36. Reference product approval number FL1901. All substantiating data submitted for the original application has been reviewed for compliance with the 2004 Florida Building and Residential Codes.

Evaluation reports are the opinion of the engineer who prepared the report, based on the findings, and in no way constitute or imply approval by a local building authority. The engineer, in review of the data submitted, finds that, in his opinion, the product, material, system, or method of construction specifically identified in this report conforms with or is a suitable alternate to that specified in the Florida Building Code, SUBJECT TO THE LIMITATIONS IN THIS REPORT

Jeffrey P. Arneson, P.E., a licensed Florida professional engineer and employee of Jax Apex Technology, Inc. (Apex Technology) has reviewed the data submitted for compliance with the Florida Building Code. Neither Jeffrey P. Arneson, nor Apex Technology, are responsible for any errors or omissions to any documents, calculations, drawings, specifications, tests, or summaries prepared and submitted by the design professional or preparer of record who are listed in the Substantiating Data section of this report.

REPORT NO: SIM200401-R2

EXPIRES: October 1st, 2008

**CATEGORY: Metal Connectors** 

SUBMITTED BY:

SIMPSON STRONG-TIE COMPANY, INC. 4120 DUBLIN BLVD., SUITE 400 DUBLIN, CA 94568

#### 1. PRODUCT NAME

Strap Ties

LSTA9, LSTA12, LSTA15, LSTA18, LSTA21, LSTA24, LSTA30, LSTA36, MSTA9, MSTA12, MSTA15, MSTA18, MSTA21, MSTA24, MSTA30, MSTA36, MSTC28, MSTC40, MSTC52, MSTC66, MSTC78, MST27, MST37, MST48, MST60, MST72, LSTI49, LSTI73, MSTI26, MSTI36, MSTI48, MSTI60, MSTI72, RPS18, RPS22, RPS28, ST2115, ST292, ST2122, ST2215, ST6215, ST6224, ST6236, ST9, ST12, ST18, ST22, FHA6, FHA9, FHA12, FHA18, FHA24, FHA30.

Coiled Strap Ties

CMST12, CMST14, CMSTC16, CS16, CS18, CS20, CS22

Wood to Masonry Strap Ties MSTAM24, MSTAM36, MSTCM40

Pre-bent Strap Ties MSTC48B3, MSTC66B3

Heavy Straps HRS6, HRS8, HRS12

Page 1 of 15

Simpson Strong-Tie

# ROOFING INFORMATION



#### Application Instructions for

## • HERITAGE VINTAGETM AR - Phillipsburg, KS

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILD-ING 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.

#### I POOF DECE

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 Stope 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.

<u>PLYWOOD</u>: All plywood shall be exterior grade as defined by the American Phywood 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-andgroove 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:

- Vapor Condensation
- 2. Buckling of shingles due to deck movement.
- 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 VEN-TILATION.

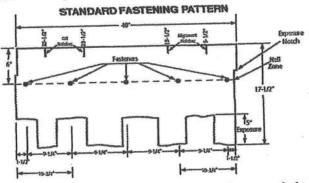
#### 3. FRSTELLERS

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:

 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).



2) Waneard or Steep Stope 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)

Visit Our Web Site at www.tamko.com Central District Northeast District Southeast District Southwest District Western District 220 West 4th St., Joplin, MO 64801 4500 Tamko Dr., Frederick, MD 21701 2300 35th St., Tuscaloosa, AL 35401 7910 S. Central Exp., Dallas, TX 75216 5300 East 43rd Ave., Denver, CO 80216 800-641-4691 800-368-2055 800-228-2656 800-443-1834 800-530-8868

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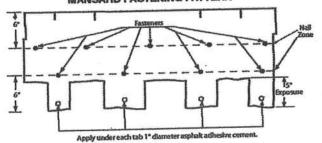


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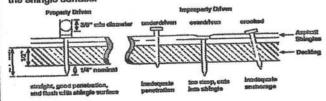
#### CE VINTAGETM AR - Phillipsburg, KS HEATED ASPEALT SEINGLES

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



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. Underly Lychery

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:

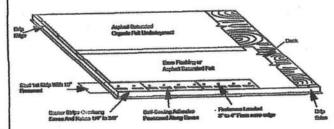
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TANKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Pluse (additional ventilation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

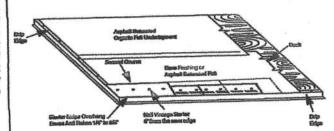
In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus<sup>b</sup> waterproofing underlayment (or any specially eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights 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.

#### S. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AFI 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 rooting. 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 tabe. 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)

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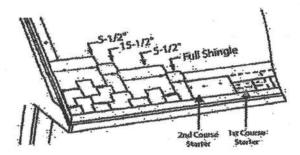
220 West 4th St., Joplin, MO 64801 4500 Tamko Dr., Frederick, MD 21701 2300 35th St., Tuscaloosa, AL 35401 7910 S. Central Exp., Dallas, TX 75216 5300 East 43rd Ave., Denver, CO 80216 800-641-4691 800-368-2055 800-228-2656 800-443-1834 800-530-8868



(CONTINUED from Pg. 2)

### • FRITAGE VINTAGETM AR - Phillipsburg, KS

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 white 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 pleces 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.



#### s. 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 cernent 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 comented.

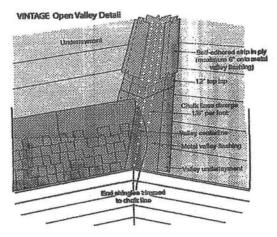
Following valley metal application; a 9° to 12° wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6° onto metal valley flashing) and on top of the valley underlayment. The valley will be completed 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 fines 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 comenting the shingle to the valley lining with a 3" width of asphalt plastic cement (conforming to ASTM D 4586).



#### - 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)

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(CONTINUED from Pg. 3)

## TAGETM AR - Phillipsburg, KS

#### 8. HIP AND RIDGE PASTELLING 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/Z 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.

Direction of prevailing wind



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

TAMKO®, Moisture Guard Plus®, Nail Fast® and Heritage® are registered trademarks and Vintage<sup>TM</sup> is a trademark of TAMIKO Building Products, Inc.

# INTERIOR WALL INSULATION INFORMATION

---- I LI 1100M

#### MANUFACTURER

Rmax, Inc.

13524 Welch Road, Dallas, Texas 75244-5291

Phone - 972-387-4500

800-527-0890 (Central)

800-845-4455 (Eastern)

800-762-9482 (Western)

Email: mex@mexinc.com
Web Site: http://www.rmexinc.com

#### PRODUCT DESCRIPTION

R-Matte® Plus-3 is a rigid foam plastic thermal insulation board composed of polytocyanurate foam bonded to a durable white-matte non-giare aluminum tacer and a reflective reinforced aluminum facer.

R-Matte® Pius-3 utilizes a new and environmentally friendly blowing agent. This sheething insulation is suitable for use in wall applications in new residential, commercial, agricultural and industrial buildings and in thermal retrofit construction within existing buildings.

R-Matte® Plue-3 is available in standard four (4) foot wide panels. Standard panel lengths are eight (8) and nine (6) feet. Custom length panels are available for special orders. See "Thermal Properties" for standard thicknesses and thermal resistance values of R-Matte® Plus-3.

R-Matte® Plus-3 is shipped in bundles that are approximately 48 inches high and wrapped in plastic for easy handling.

NOTE: All Rmsx products must be tarped, placed on skids, and kept dry before and throughout construction.

#### **Technical** Data

Property	Yest Method	Results
Density, Overall, Nominal	ASTM 01,622	2.0 pol
Compressive Strength	ASTM DIEZI	30 psi (Avg.)
Plame Spread, Core	ASTM ESA	35 or less
Smoke Developed	ASTM ENA	40-110
Weter Vapor Transmission	ASTM EM	<1 perm
Weter Absorption	ASTM C209	< 1% Vol.
Dimensional Stability	ASTM D2126 7 days, 158°F, 88% rh	<2% Lineer Change
Service Temperatures		-40°F to +250°

Note: Physical Properties shown are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances. Flame apread numbers are shown for comparison purposes only and are not intended to represent the performance of R-Madde® Plus-3 and related components under sotus) fire conditions.

APPLICABLE STANDARDS

R-Mutte® Plus-3 is manufactured to meet the physical property requirements of Product Specification ASTM C1289, Type I.

R-Mittle® Plus-3 is accepted as a nonstructural insulative sheething board by the following major model building codes: National Building Code (BOCA), Section 2603; Standard Building Code (SBCCI), Section 2603; Uniform Building Code (ICSI), Section 2602.

#### APPLICATION / INSTALLATION

Applications - This product is designed to be covered with siding materials of wood, wood-based products, hardboard, aluminum, vinyt, brick or stucco veneurs. The white-matte finished (non-giare) aide of this sheathing panel is installed facing to the outside of the well structure when the exterior siding will be either wood, wood-based products, hardboard, aluminum or vinyt sidings. The reflective aluminum side of the sheathing panel is installed to the outside of the well when the exterior finish will be either brick or stucco.

Stud Wall Construction - R-Matte® Plue-3 is applied to the exterior face of wood or metal studs to cover all studs, sills, pletas and header constructions in order to provide insulation over details not normally covered by insulation products. R-Matte® Plus-3 may be secured to the stude with bugle-head sorewe, galvanized roofing rails, or common nails driver through cap washers. The interior of the stud wall system should be protected with a suitable vapor retarder.

R-Missie® Plus-3 may be applied to the interior face of stude, metal or wood, to cover the interior face of these framing members. R-Mistie® Plus-3 may be secured with bugie-head screws, galvanized roofing nails, or construction adhealves: The interior of the stud wall system should be protected with a suitable vapor retarder and thermal barrier.

Cavity Wall Construction - R-Matte® Plue-3 is secured to the dry face of the masonry block wall with a high grade adhesive, R-Matte® Plue-3 can be cut by simple methods to fit between mesonry joint reinforcements placed to tie the brick veneer to the conceste block back-up. R-Matte® Plue-3 is an excellent cavity insulation product fitting between the masonry block and finished brick veneer of any residential or commercial product.

Masonry Wall Construction - R-Matte® Plus-3 is applied to either the exterior face or interior face of concrete or concrete mesonry wells to provide an insulation layer over the entire surface. R-Matte® Plue-3 may be secured to the inside face of a concrete or concrete mesonry well, either over or under the furting members, and covered with a minimum 1/2 inch gypsum wallboard interior finish. Adhesives may be used to hold the R-Maite® Plus-3 in place against the wall temporarily. However, permanent attachment of the R-Matte® Plus-3, furring, or gypsum wallboard with adhesives is not acceptable. The gypsuin wallboard must be secured with suitable screws or nails.

Re-Siding Construction - R-Matte Plus-3 is applied over existing sound and solid siding. It is then covered with a suitable new siding of eluminum. vinyl, wood or wood fiber based products. The R-Plue-3 is secured with galvanized nails of sufficient length to penetrate the old skilings and speathings below by at least one inch into the existing well stude.

Exterior Stucco Construction - R-Matte® Plus-3 may be used as the insulative sheathing under hard cost stucco finishes. First, cover the R-Matte® Plus-3 with a suitable separation layer such as an organic or inorganic felt. Then, attach conventional metal wire lath and expansion joints with appropriate fasteners as dictated by the local building code. R-Matter Plus-3 may be secured to the stude with bugle-head screws, galvanized roofing naile, or common-nails driven through cap washers. The interior of the stud well system should be protected with a suitable vapor retarder. Rmsx does not recommend the direct attachment of stucco, portland coment or polymer-modified types, directly to the fecer of the insulation product. Consult stucco manufacturers for details.

#### WARRANTY

Bee "Sales Policy" for warranty conditions. Rmax does not assume any responsibility or liability for the performance of any products other than those manufactured by Rmex.

#### AVAILABILITY

Rmatte® Plue-S is available through an extensive distribution network. Contact Rmax Sales for product availability, pricing information, and the nearest distribution center.

#### WARNING

DO NOT leave R-Matter Plus-3 exposed. Polyleocyanurate foam is an organic material which will burn when exposed to an ignition source of eufficient heet and intensity, and may contribute to fames epreading, installations utilizing Rmex R-Matte® Plus-3 must be fully protected on the interior side of wells and roofs by a minimum of 1/2 inch gypsum board or equivalent. Masonry or concrete that is a minimum of one-inch thick or plywood that is a minimum of 1/2 inch thick or wood that is a minimum of one-inch nominal thickness is recognized as a suitable thermal barrier. Consult the Local Building Official for specific governing codes and require ments.

LIMITATIONS
R-Matter Plus is not recommended, nor warranted, for use as a commercial roofing insulation for use directly under membrane systems. See Rmax, Inc. for suitable commercial roofing insulation

R-Matte® Plus-3 is not a structural panel. Stud walls insulated with R-Matter Plus-3 must be properly braced to lateral loads according to the requirements of the local building codes.

Nominal Thickness	Thermal <sup>1</sup> R-Value		dle Datu " x 96")	Truckload Data (48" x 96")		
		Please	SCL Ft.	Places	8q. Pt	
0.5	3.2	96	3,072	2,304	73,72	
0.825"	4.9	76	2,432	1,824	58,36	
0.76	6.0	60	1,920	1,440	46,086	
1.0"	e determined by using	48	1.836	1 152	96 00	

**Embedded Truss Anchors** 

META12, META14, META16, META18, META20, META22, META24, META40, HETA12, HETA16, HETA20, HETA24, HETA40, HETAL12, HETAL16, HETAL20, HHETA12, HHETA16, HHETA20, HHETA24, HHETA40

#### 2. SCOPE OF EVALUATION

Load Evaluation as a Structural Component using the requirements of the Florida Building and Residential Codes

- 3.11 MSTCB3 Pre-bent Strap Tie. The MSTC48B3 and MSTC66B3 Pre-bent Strap Ties are designed to transfer a heavy tension load from framing on an upper story wall to a beam or header on the story below. For example, this could be from shearwall overturning or a large girder truss uplift load. They are installed with 10d common nails, with a minimum of four nails in the bottom of the beam or header. Allowable loads are shown in Table 8. The straps are manufactured from 14 ga. steel meeting ASTM A-653 SS Grade 50, Class 1. They are coated with a G90 galvanized finish.
- 3.12 META, HETA, HETAL, HHETA Embedded Truss Anchors. Embedded Truss Anchors are used to anchor a wood member (usually a truss) to a masonry or concrete wall. Embedded truss anchors fasten to a single-ply wood truss with 10d×1½ nails or to a multiple-ply truss with 16d common nails. They are embedded in the masonry or concrete wall to a depth indicated on the side of the anchor (4" for META, HETA, and HETAL, and 5¹/16" for HETAL). The strap portion of the anchor is 1½" wide. Allowable loads are shown in Table 9 for single installations and Table 10 for double installations. The anchors are manufactured from steel meeting ASTM A-653 SS Grade 50, Class 1, with the exception of the truss seat of the HETAL which is manufactured from steel meeting ASTM A-653 SS Grade 33. Steel thickness is as specified in Table 9. The Embedded Truss Anchors are coated with a G90 galvanized finish.

#### 4. MATERIALS

- 4.1 Steel. Steel specifications for each product listed in this evaluation report shall be as Indicated in the previous section. In addition to the standard G90 finish, some products are available with a G185 finish, indicated as Z-Max. Allowable loads published in this report will apply to G185 products as well as G90 products.
- 4.2 Wood. Wood members to which these connectors are fastened shall be solid sawn lumber, glued-laminated lumber, or structural composite lumber having dimensions consistent with the connector dimensions shown in Tables1 through 4. Unless otherwise noted, lumber shall be Southern Pine or Douglas Fir-Larch having a minimum specific gravity of 0.50. Where indicated by SPF, lumber shall be Spruce-Pine-Fir having a minimum specific gravity of 0.42.
- 4.3 Nails and Bolts. Unless noted otherwise, nails shall be common nails. Nails shall comply with ASTM F 1667 and shall have the minimum bending yield strengths F<sub>yb</sub>:

Nail Pennyweight	Nail Shank Diameter (inch)	F <sub>yb</sub> (psi)
10d Common	0.148	90,000
16d Sinker	0.148	90,000
16d Common	0.162	90,000

Fasteners for galvanized connectors in pressure-preservative treated wood shall be hot-dipped zinc coated galvanized steel, except where otherwise permitted by the treatment manufacturer. Fasteners for stainless steel connectors shall be stainless steel.

4.4 Concrete/Masonry. Concrete and Masonry design specifications shall be the stricter of the specifications by the engineer of record, the Florida Building Code minimum standards, or the following:

Material	Specification	Minimum Compressive Strength
Concrete, fc	-	2500 psi
Masonry, f'm	ASTM E447	1500 psi
Masonry Unit	ASTM C90	1900 psi
Mortar	ASTM C270 Type S	1800 psi (or by proportions)
Grout	ASTM C476	2000 psi (or by proportions)

#### 5. INSTALLATION

Installation shall be in accordance with this report and the most recent edition of the Simpson Strong-Tie Wood Construction Connectors catalog. Information in this report supersedes any conflicting information between information provided in this report and the catalogue, the information in this report supersedes the catalogue.

#### 6. SUBSTANTIATING DATA

Test data submitted by Testing Engineers Inc. and Product Testing, Inc., and signed and sealed calculations performed by Jeremy Gilstrap, P.E. in accordance with the 2004 Florida Building and Residential Codes.

#### 7. FINDINGS

Upon review of the data submitted by Simpson Strong-Tie, it is my opinion that the connectors as described in this report conform with or are a suitable alternative to the standards and sections in the 2004 Florida Building and Residential Code editions listed in section 10 of this report. Connectors shall be installed in accordance with this report. Maximum allowable loads shall not exceed the allowable loads listed in this report.

#### 8. LIMITATIONS

- Maximum allowable loads shall not exceed the allowable loads listed in this report.
   Allowable loads listed in this report are based on allowable stress design. The loads in this report are not applicable to Load and Resistance Factor Design.
- Capacity of wood members is not covered by this report. Capacity of wood members must be checked by the building designer.
- Allowable loads for more than one direction for a single connection cannot be added together. A design load which can be divided into components in the directions given must be evaluated as follows:

(Design Uplift/Allowable Uplift) + (Design Lateral Parallel to Plate/Allowable Lateral Parallel to Plate) + (Design Lateral Perp. to Plate/Allowable Lateral Perp. to Plate) < 1.0

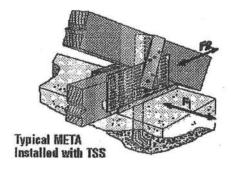
#### 9. ALLOWABLE LOADS

The tables that follow provide the allowable loads for the aforementioned products.

				TAE	BLE 9 ALLO	WABLE	LOADS					
						asteners	and Uplift				Latera	I Loads
		١	160	Load Dur	ation Increase		133	Load Dura	tion Increase		133	3/160
Model No.	Ga	Н	1 Ply So. Pir	ne Truss 2 or 3 Ply So. Pine Truss			1 Ply So. Pir	ne Truss	2 or 3 Ply So. Pine Truss		F <sub>1</sub>	F <sub>2</sub>
			Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load	to wall)	to wall)
META12		8	7-10d×11/2	1450	6-16d	1450	7-10d×1%	1240	7-16d	1450	280	725
META14		10	7-10d×11/4	1450	6-16d	1450	9-10d×11/4	1450	7-16d	1450	280	725
META16		12	7-10d×114	1450	6-16d	1450	9-10d×11/2	1450	7-16d	1450	280	725
META18		14	7-10d×11/2	1450	6-16d	1450	9-10d×1%	1450	7-16d	1450	280	725
META20	18	16	6-10d×11/2	1270	5-16d	1245	8-10d×11/2	1415	6-16d	1250	280	725
IVICITIES.		,,,	7-10d×1%	1450	8-16d	1450	9-10d×1%	1450	7-16d	1450	280	725
META22		18	7-10d×1%	1450	6-16d	1450	9-10d×11/2	1450	7-16d	1450	280	725
META24		20	7-10d×11/2	1450	6-16d	1450	9-10d×11/2	1450	7-16d	1450	280	725
META40		36	7-10d×1%	1450	6-16d	1450	9-10d×11/2	1450	7-16d	1450	280	725
HETA12		8	7-10d×11/4	1520	7-16d	1780	7-10d×11/2	1265	7-16d	1475	280	725
HETA16		12	9-10d×11/2	1810	8-16d	1810	10-10d×11/2	1810	9-16d	1810	280	725
HETA20	16	16	8-10d×11/2	1735	7-16d	1780	9-10d×1%	1630	8-16d	1690	280	725
111.1720			9-10d×11/2	1810	8-16d	1810	10-10d×1½	1810	9-16d	1810	280	725
HETA24		20	9-10d×11/2	1810	8-16d	1810	10-10d×11/2	1810	9-16d	1810	280	725
HETA40		36	9-10d×11/2	1810	8-16d	1810	10-10d×11/2	1810	9-16d	1810	280	725
HHETA12		8	7-10d×1½	1565	7-16d	1820	7-10d×11/2	1305	7-16d	1520	435	815
HHETA16		12	10-10d×11/2	2235	9-16d	2235	12-10d×11/4	2235	11-16d	2235	435	815
HHETA20	14	16	9-10d×11/2	2010	8-16d	2080	11-10d×1%	2050	10-16d	2170	435	815
IIILIAZO	14	10	10-10d×1%	2235	9-16d	2235	12-10d×11/2	2235	11-16d	2235	435	815
HHETA24		20	10-10d×11/2	2235	9-16d	2235	12-10d×11/2	2235	11-16d	2235	435	815
HHETA40		36	10-10d×11/2	2235	9-16d	2235	12-10d×11/2	2235	11-16d	2235	435	815
HETAL12		7	10-10d×11/4	1085	10-16d	1270	10-10d×11/4	905	10-16d	1055	415	1100
HETAL16	16	11	14-10d×1½	1810	13-16d	1810	15-10d×11/2	1810	14-16d	1810	415	1100
HETAL20		15	14-10d×1%	1810	13-16d	1810	15-10d×11/4	1810	14-16d	1810	415	1100

#### Notes:

- Loads do not include a stress increase on the strength of the steel. No further increases are permitted. Reduce loads where other loads govern.
- Five nails must be installed into the truss seat of the HETAL
- 3. Parallel-to-plate load towards face of HETAL is 1975 lbs.
- Except for HETAL straps, lateral loads are based on a minimum installation of 12 nails and the strap wrapped over the heel
- Minimum fc is 2,000psi
- 6. It is acceptable to use a reduced number of fasteners in a product provided that there is a reduction in load capacity. The load per nail can be approximated by dividing the allowable load by the number of fasteners. This concept applies to all member sizes. There should be a minimum of 4 nails installed in the strap.



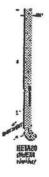


	TABLE 1	0 ALLO	WABLE LOA	DS FOR	DOUBLE EM	SEDDE!	I Pond Rean	CHORO	NAME AND POST OF THE OWNER, WHEN	
					ation Into Grou	2 Lead	Duration Incre	200	Lateral	Loads
*	Uplift - 16	0 Load	Duration Incre	ease			Durauoir incre	adborn	Andrew Comments	/160
Model No.	1 Ply Sout Pine Tru		2 or 3 Ply Southern Pine Truss		1 Ply Southern Pine Truss		2 or 3 Ply S Pine Tr	F <sub>1</sub> (parallel to	F <sub>2</sub> (perpert to	
	Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load	wall)	well)
META	10-10d×1½	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	14-16d	1900	12-10d×11/2	1985	14-16d	1900	1210	1160
META	The second named in column 2 is not a se		12-16d	2500	12-10d×11/2	2035	14-16d	2500	1225	1520
HETA	10-10d×1½ 10-10d×1½		12-16d	2500	12-10d×1½		14-16d	2500	1225	1520

#### Notes:

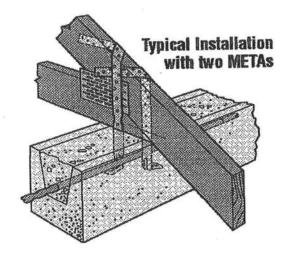
Minimum fc is 2,500psi.

2. Install with spoons facing outward and spaced no more than 1/8" wider than the truss width.

Install half of the required number of fasteners in each strap.

 For uplift loads for poured concrete tie beam applications with 2 or 3 ply trusses, increase the META load by 35%, the HETA load by 8%, and the HHETA load by 34%. Listed lateral loads apply to concrete applications.

Lateral loads apply only to anchors spaced a minimum of 3° apart.



#### 10. CODE REFERENCES:

#### Florida Building Code 2004 Edition

Section 104.11

**Alternate Materials and Methods** 

Chapter 1714.2

Load Test Procedure Specified

Chapter 21 Chapter 22 Masonry Steel

Chapter 23

Wood

#### Florida Residential Code 2004 Edition

R101.2.1

Scope

R4407

HVHZ Masonry

R4408

**HVHZ Steel** 

R4409

**HVHZ Wood** 

#### 11, IDENTIFICATION:

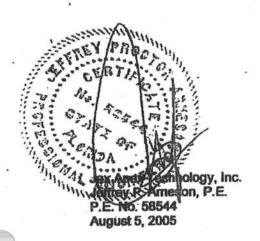
Each connector covered by this report shall be stamped with the manufacturer's name and/or trademark and the product name.

#### 12. PERIOD OF ISSUANCE:

The content of this report expires on October 1st, 2008. For information on this report, contact Apex Technology. (904) 821-5200

#### 13. CERTIFICATION OF INDEPENDENCE:

Jeffrey P. Arneson, the Florida engineer who prepared this report, and Apex Technology have no financial interest in the manufacturing, sales, or distribution of the products included in this report. Jeffrey P. Arneson and Apex Technology comply with all criteria as stated in Florida Administrative Code Chapter 9B-72.110.



Page 15 of 15

Model

Ne.

TSS2-2

TSS4

TSS2

W

134

3%

3%

The TSS, a companion product of the META, provides a moisture barrier between the concrete and truss. The preassembled unit is riveted with no height adjustment. MATERIAL: HHETA-14 gauge; HETA-16 ga; HETAL strap 16 gauge, truss seat 18 gauge; META-18 gauge; TSS-22 gauge.

FINISH: Gaivantzed. Some products available in Z-MAX; see Corrosion Resistance, page 5. INSTALLATION: • Use all specified fasteners. See General Notes.

- The META, HETA and HHETA are embedded 4" into a concrete beam or grouted block wall; HETAL is embedded 51/16".
- Do not drive nails through the truss plate on the opposite side of the truss, which could force the plate off the truss.
- The TSS moisture barrier may be preattached to the truss using 6d commons. CODES: See page 10 for Code Listing Key Chart.

	-11k* 	-	-116-
META with TSS	l l	HETAL	
			- Control of the Cont

:::>:4:34:3				er ar i sa	Fasteners	The state of the s					Lateral (133 a	Loads		
Model	H	133 L	ozd Du	ration Increase		Action to the second second second		ration increase	The state of the s		1901, 9531	-		Code
Model No.	11	1 Ply So. Pine	Truss	2 or 3 Ply So.	Pine Truss	1 Ply So. Pin	Truss			OF		SPF		Ref.
		Fasteners	MARKET WHEN THE	Fasteners:	Load	Fasteners	Load	Fasteners	Load	H	1.2	F <sub>1</sub>	F <sub>2</sub>	
META12	8	7-10dx11/2	1240	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	635	270	545	1
META14	10	9-10dx11/2	1450	7-16d	1450	7-10dx11½	1450	6-16d	1450	335	635	270	545	
META16	12	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	635	270	545	
META18	14	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	635	270	545	
		8-10dx11/2	1415	6-16d	1250	6-10dx11/2	1270	5-16d	1245	335	635	270	545	160
META20 X	16	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	635	270	545	
META22 /	18	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	635	270	545	
META24	20	9-100x1½	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	635	270	545	1
META40	36	9-100x11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	-	-	-	Arries	
The state of the s	8	7-10dx1%	1265	7-16d	1475	7-10dx11/2	1520	7-16d	1780	335	730	270	625	
HETA12	4146-55-55	10-100x11/2	1810	9-16d	1810	9-10dx11/2	1810	8-16d	1810	335	730	270	625	
HETA16	12		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	The state of the s	1690	8-10dx135	1735	7-16d	1780	335	730	270	625	8,62
HETA20	16	9-100011/2	1630			9-100x11/2	Annual Control of the	8-16d	1810	335	730	270	625	
TANK DE V	14.50	10-10dx11/2	1810	9-16d	1810	9=100x122	1810	8-16d	1810	335	730	270	625	
HETA24	20	10-100x1%	1810	9-16d	1810	95106841/2	S CONTRACTOR OF THE	8-16d	1810			7000		170
HETA40	36	10-10dx1½	1810	Name and Address of the Owner, where the Party of the Owner, where the Owner, which is the Owner, where the Owner, which is th	1810	7-10dx1%	1565	7-16d	1820	335	730	270	625	1
HHETA12	8	7-10dx11/2	1305	7-16d	1520	10-10dx1%		9-16d	2235	335	730	270	625	1
HHETA16	12	12-10dx11/4	2235	11-16d	2235	9-10dx11/2	_	-	2080	335	730	270	625	1
HHETA20	18	11-10dx1½	2050	THE OWNER WHEN PERSON NAMED IN	2170	10-10dx13	-	9-16d	2235	335	730	270	625	1
		12-10dx11/2	2235	11-16d	2235	A STATE OF THE PARTY OF THE PAR		9-160	2235	335	730	270	625	160
HHETA24	20	12-10dx1½	2235	THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER.	2235	10-10dx1%	-	_	2235		-	1=	-	1
HHETA40	36	12-10dx11/2	2235	11-16d	2235	10-10dx1½	- Contraction of the local		1270	415	1100	355	945	1
HETAL12	-	10-10dx11/2	905	10-16d	1055	C NOTE AND DESCRIPTION OF THE PARTY AND ADDRESS OF THE PARTY AND ADDRES		The second secon	1810	445	1100	355	945	8,62
HETALI6	11	15-10dx11/2	1810	THE REAL PROPERTY AND ADDRESS OF THE PARTY ADD	1810	14-10dx17	1810	44.11.20.000.0000.0000.000	1810	200	1100	-	945	1 ","
HETAL20	15	15-10dx11/2	1810	14-16d	1810	14-10dx13	1810	13-16d	1 2 1010		1.100	1:000	1.010	

- 1.Loads include a 33% or 60% load duration increase on the fasteners for seismic or wind loading, but do not include a 33% stress increase on the steel capacity. Refer to page 12 for further explanation.
- 2. Five nails must be installed into the truss seat of the HETAL. 3. Parallel-to-plate load towards face of HETAL is 1975 lbs.
- Lateral loads are based on a minimum lostallation of 12 nails and the strap errapped over the heel.
- mum t'e is 2,000psi.

6.It is acceptable to use a reduced number of fasteners in a product provided that there is a reduction in load capacity. The load per nati can be approximated by dividing the allowable load by the number of fasteners. This concept applies to all member sizes.

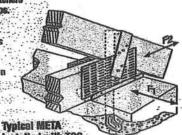
There should be a minimum of 4 nails installed in the strap.

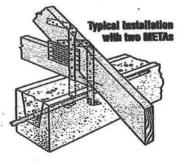
	Street Street Street	The Property of the	ALTERNATION OF THE PARTY OF THE	m 48 mm a. 1 4 2	ilon late Growle						Loads		
Madel	133	Load Dur	allon Increase		160	Load Di	ration increas	<b>0</b> 3 €			160)		Code
No.	1 Ply So. Plm	Truss	2 or 3 Ply So	Pine Truss	1 Ply So. Pine	Truss	2 or 3 Ply So.	Pine truss	DF	ART TO STREET STREET	SPI	A Comment	Ref.
	Fasteners	Load	Fasteners	Load	Factoners	Load	Fasteners	Load	F	+ 12	Ft	F2	419257
META	12-10dx11/2	1985	14-16d	1900	10-10dx11/2	1985	14-16d	1900	1210			1000	\$ 100
HETA	12-10dx11/2	2035	14-16d	2500	10-10dx11/2	2035	12-16d	2500	1225	1520	1055	1305	

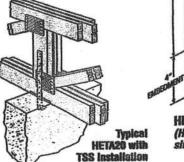
1. For concrete tie beam applications for 2 or 3 ply trusses, increase the META load 35% and the HETA load 8%.

Divide total number of fasteners equally between both straps.
 Minimum Tc is 2,500 pst.

- 4. See Instruction to the Designer page 9 for loads
- in multiple directions. 5.Lateral loads are based on a minimum installation of 12 nails and the strap wrapped over the heel.







HETA20 (HHETA similar)

C-2004 © Copyright 2003 SIMPSON STRONG-TIE CO.,

lasonry Connectors

#### MGT/HGT HEAVY GIRDER TIEDOWNS

A productive of the second section of the second sec

AGT provide lighter load alternatives for The HGT-4 is sized for 4-2x widths. This series uplift resistance for wood frame and concrete block n. The HGT can be installed on trusses and beams chord slopes from 3:12 to 8:12. Available in 2-ply, and 4-ply widths.

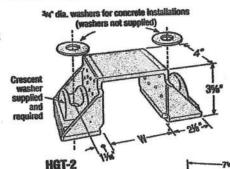
STERIAL: LGT-14 ga; MGT-12 ga; HGT-7 ga.

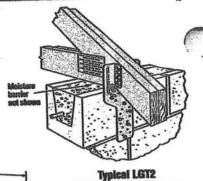
FINISH: HGT-Simpson gray paint;

LGT, MGT-galvanized INSTALLATION: • When the HGT-3 is used with a 2-ply girder

- or beam, shimming is required. Fasten to act as one unit.
- Attach to grouted concrete block with a minimum one #5 rebar horizontal in the top lintel block.
- Minimum f<sup>o</sup><sub>C</sub> = 2500 psi maximum aggregate %°.

CODES: See page 10 for Code Listing Key Chart.





HGT-2	1.10
(HGT-3 and HGT-4 s	imilar)

Installation into Masonry

Statement Bit

Γ	10.00		0.6.	Faste	nars		OFI/SP	SPF	
	Model No.	w	Dim Between Anchors	Ancher Dia.	Girter	Avg UR		Loads (133/160)	Ref.
ŀ	MGT	3%	- LitrimitAssi	1-%	22-10d	13005	3965	3330	160
	HGT-2		59/4	2-3/4	16-10d			6485	6,38,
۱	HGT-3	A15/40	73/6		16-100			9035	62
	HGT-4			2-3/4	16-10d			9250	

#### onry Amelication

LGT2	33%		7-1/x21/4 Titen	7-1/4x1% Titen	16-16d Singer	0033	2100	1000	100
No.		Between Anchers	CMU	Concrete		0500	(133/160)	(133/160) 1850	160
Model	***	O.C. Dim	CONT	Fasteners		Avg.		Allowable	Code Raf.

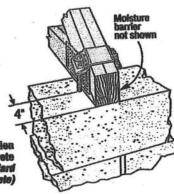
1. Attached members must be designed to

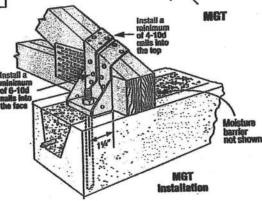
sist applied loads.
achieve the loads listed, anchorage into a

y the building designer.

3. To achieve the loads listed for the HGT, anchorage into a 8" wide concrete the beam can be made using Streposy with a 34" diameter anchor and a minimum embedment depth of 12".

Allowable loads have been increased 33% and 60% for earthquake or wind loading; no further increase allowed; reduce where other loads govern.





LGT2

Typical HGT-2 Installation **Into Concrete** (%" diameter standard washers required for concrete)

#### MTSM/HTSM TWIST STRAPS

The MTSM and HTSM offer high strength truss to masonry connections.

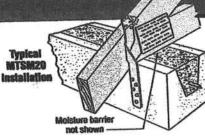
MATERIAL: MTSM-16 gauge; HTSM-14 gauge

FINISH: Galvanized. Some products available in stainless steel and Z-MAX; see Corrosion-Resistance, page 5.

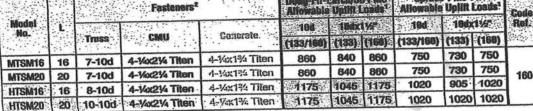
INSTALLATION: • Use all specified fasteners. See General Notes.

- Attach to grouted concrete block with a minimum one #5 rebar horizontal.
- Minimum  $f_C = 2500$  psi maximum aggregate %".

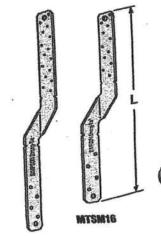
CODES: See page 10 for Code Listing Key Chart.



1	1		not show			
Code	ir .oaus¹	-Pine-li Uplift I	Spruce Allowable	i dec	erek/Si Upilit I	ing Irel
Ref.	11/2"	19dx	194	14 <del>2</del>	10dx1	108
(May 14)	(160)	(133)	(133/160)	(168)	(133)	33/160)
	750	730	750	860	840	860
160	750	730	750	860	840	860
	1020	905	1020	1175	1045	1175
1 I				PROPERTY.	College Server	-



- 1. Loads have been increased 33% and 60% for earthquake or wind loading; no further increase allowed; reduced where other loads govern.
- Twist straps do not have to be wrapped over the truss to achieve the allowable load.
- 3. Minimum edge distance for Titens is 11/2".



g

2003

C-2004 @ Copyright

THE COLUMN THE			The state of the s			
KAYTEE/KAYCAN	EAVE	100000	WIDTH IN	VINCHES	4£5	7.
SOFFIT TYPE	12"	(3,	18"	18	'A-	
SP-600 (AWARNA) 16" YENTED CATALOG * 0605	1.72.6	1.88.1	N. 48.4	4.445	14.36.3	
SP-600 (ALUMINUM) 16" 50410 CATALOG #0606	7.72.2	1.57.7	1.98.1	2.4.2	1,32,1	
VENTED PANEL (2" (ALPMINON) CATAROS: # 9509.	7,96.6	7,77.2	* 77.2 * 84.4 14.55,2	7, 55,2	1.48.3	
SOLID PRINEL.	_	1,76.8	1796.0 176.8 7.64.0 168.9 17.88.0	1.54.9	7.88.0	
FULL O VENT TF (18") VINYA		7.36.5	1,475 1x36.5 1x29.7	1/2 25.2	721.6	
ACO SOLID, CENTAR.  THE (120) VINYA.  AND, CORE DEST DEST		1. 46.3 14.34.9	7, 28.4	4.23.9	1/20.6	
SOLID, CENTER VENT & PULL VENT 7 ¢ CEN VINY E.	4/ 42.3	7/ AES - 1/34.9	1, 28.4	44 23.9	1.20.6	INSTALLA ENCH HIII NAILS, EI
THE THING STORES TONE	314 74 418	***	1,38.0	12.28.6	1.84.7	24450 AO
AND VENTER TALED TALED	0.83.7	1, 68,0 1, 52.3	* 42,5 1.30,8	1,35.8	14.30.9	SEE 7.884

# GRNEARL NOTES

- L DESIGN PRESENCE LISTED IN THREE ARE GASED ON A RATIONAL ANALYSES FOR ALLYGING PROSECT DONE IN HA ENGINEERING PROSECT FOR VIVILY BONG IN HARMANIYE WARNEST FOR VIVILAL BONG ONNE IN ENFORMANI E WITH FLORIDE ROUTEDING CODE 2004 SECTION (609 CODE 2004)
- R.FLORIDA BUILDING GODE, 3004 DOSS NOT OPRECTLY MANDATE WIND LOAD DESIGN PRESSURES ON SOFFITS,

allen Mr. Resura

PROJECT NAME. KRYTEC/KRYCAN SOFFITS

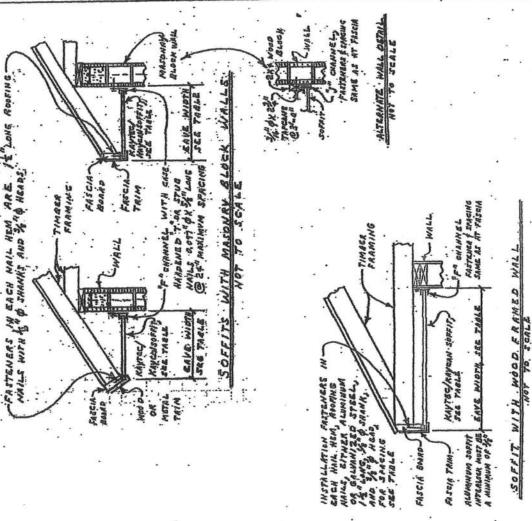
PROJECTIVO, DS 0.7 0005 SHEET / OF /

DATE: 15 JULY 2005

HR Engineering, Inc.

CUBM KAYTEC INC.

W. A. REEVES



11450\$ \$ 4015451

WMTH

Concrete Anchors

Buildex

FAZSO 454-3622
PULLOUT IN CONCRETE 13145 PSI, cured 40 days!

Stanter.		1. 1.1/4 1.1/2 1.3/4	11/2	7.5.
.91%	341 lbs.	581 bs.	883 lbs.	1059 151
1/4"	718 lbs.	1138 lbs.	1537 lbs.	1850 Ib

CININATUL		-/1-1	Manuette 1 1-1/2 1-1/2	97
.91Æ	341 lbs.	581 lbs.	883 lbs.	1859 Us.
1/4.	7 IR Ibs.	1138 lbs.	1537 lbs.	1860 lbs.
oet Numbe	CH3932/P	Jeet Number CH3922/Pittsburgh Teching Laboratories	nething Labor	ratories

100000000000000000000000000000000000000	Depth of E	Dapid of Empression in Sal distributions of	1 551 0 14111	1,1111
סויישרונים סויישרונים	-	1.1/4	1-1/4 1-1/12"	1.2/4
3/16	209 lbs.	367 lbs.	209 lbs 367 lbs 462 lbs. SO Bx	405
.W.	406 lbs.	615 lbs.	615 lbs. 851 lbs. 884 lbs.	4198

Anctor Diam ter	Anchar Embedinent	27/00/2015	212 FST Life Light A Library Links
3/16	1-1/6	952 be.	TOT lbe.
1/4"	1-14.	1604 Ibs.	1058 lbs.

Fixture	R commercial	Deringth Length
or to Us	1.24	3.47
W. to 3/4"	1-3/K-1	3.16
3/4" to 1-1/4"	2.W.	472
1-1/4 to 1-3/4"	23/6	.2114
1-3/F to 2-74"	3-1/4"	5.17
2-3/6- 20 2-3/4-2	3.7.6	5-10.
2.17 10 3"		5.17

2000000	7.17

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or call us toll free at. E03 727,5633 vocavitabrands.com

Technical

ccessories

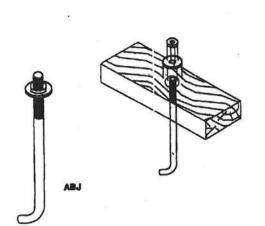
ITH BRANDS

6303502713

88:ET Z88Z/6T/6R



Technical Support (800) SE SPECS - (800) 737-7327



#### ANCHOR BOLT WITH NUT & 1" WASHER

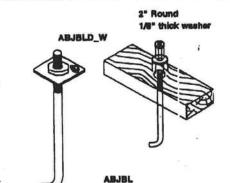
Design Features:

 Bolt only with code minimum embedment with 3000 PSI concrete will resist 4,800 lbs, see washer capacity below.

Materials: Black and galvanized steel

Footnote: Other sizes available on request. All references to boits or MB's are structural quality through boits equal to or batter than ASTM Standard ASO7.

12	CODE	DESCRIPTION	PER
1/2 X8	ABJBLEC	Black	.50
"他就	ABJELEC	Black	50
1/2 X10	ABJEL10C	Black	50
1/2/12	ABJRI12C	Black	50
1/2 X14	ABJBL14C	Black	50
JEX (6)	ABJBLIBC	Bleick	50
1/2 X18	ABJBL18C	Black	50
4/2003	ABJGAR	Gnlv.	50
1/2 1/8	ABJGAB	Galv.	50
5/8 X10	ANIBLIDO:	Back	50
5/8 X12	ABJBL12D	Black	50



#### ANCHOR BOLT (WITH NUT & 2"X2"X1/8" WASHER)

Design Features:

· 6" minimum embedment with 3000 PSI concrete will resist 1,635 lbs.

Materials: Black steel

Footnote: "Supplied with a 2" round washer 1/8" thick.

Wind uplift loads are based on the shear capacity of No. 2 Southern

Pine. Compression perpendicular to grain 565 (psi).

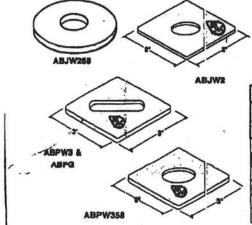
	PRODUCT	DESCRIPTION	PER CON
1/2008	ABJBL6W	Black	50
1/2/5	ABJBLAW	Black	60
1/2010	ABJBL10W	Black	50
\$440	ABJELT ODW	Ellapa	50
5/8:12	ABJBL12DW	Black	50

#### **ANCHOR BOLT WASHER/PLATE**

Design Features:

· The washer/plate adds increased resistance to wind uplift for bottom alli plate anohor bolt.

Materials: 10 Gauge Galvanized & 1/8 & 1/4 Black steel Footnote: "Also available in 50# ctn:approximately 345 pcs.
Wind uplift loads are based on the shear capacity of No. 2 Southern Pine. Compression perpendicular to grain 565 (psl). +Round hole in washer.



1000	De Start	<b>澳大型头</b> 壳	AND MAINTINE	ALLOWAR	PER	
Blzze	2.2 ph	PRODUCT	HODIET ANCHOR BOLT	WIND/EA		
WCH (BE)		CODA	(DIAMETER)	UPLIFT 183%	LIPLIPT (00%	CTN
202	1/8	ABJW2°	1/2*	1635	1635	50
I Product !	18	ABJW256	5/0°	1470	1470	-50
3-3	10	ABPG12	1/2°	3675	3675	40
10	政治法	ABPOSE A	SIR!	3875	3876	40
24	1/4	ABPW3	1/2*	4800	4800	40
的形式的	141/4	ALPYSSSY.	5/0"	48CO	4800	40

# Cement Precast Products, Inc.

# INSTALLATION INSTRUCTIONS

Version 1.0

February 28, 2005

#### Cement Precast Products, Inc.

#### PRECAST LINTELS (6", 8" AND 12" WIDE)

In order for proper installation of precast and prestressed lintels, DANSCO Engineering, LLC, has prepared this installation instructions to be used in conjunction with quality control methods of the contractor and good construction practices.

#### Preparation

- 1. All reinforcements shall be cleaned by removing mud, oil, or other materials that will adversely affect or reduce bond at the time mortar or grout is placed. Reinforcement with rust, mill scale, or a combination of both will be accepted as being satisfactory without cleaning or brushing provided the dimensions and weights, including heights of deformations, of a cleaned sample are not less than required by the ASTM specification covering this reinforcement in this Specification.
- 2. Prior to placing masonry, remove laitance, loose aggregate, and anything else that would prevent mortar from bonding to the lintel.
- Debris Construct grout spaces free of mortar dropping, debris, loose aggregates, and any material deleterious to masonry grout.

#### Lintel / masonry erection

- 1. Placing lintel Length of bearing of lintels on their support shall be a minimum of 4 inches for filled lintels and 6 1/2 inches for unfilled lintels in the direction of span. Provide a temporary support for lintels that are greater than 14' - 0"; the temporary support shall not be removed until 2 days after the grout placement.
- Placing mortar and units (for composite lintels only)
  - Bed and head joints Unless otherwise required, construct 3/8 inches thick bed and head joints. Construct joints that also conform to the following:
  - a) Unless otherwise required, tool joint with a round jointer when the mortar is thumbprint hard.
  - b) Remove masonry protrusions extending ½ inches or more into cells or cavities to be grouted.
  - Place hollow units so:
  - a) Face shells of bed joints are fully mortared.
  - b) Head joints are mortared, a minimum distance from each face equal to the face shell thickness of the unit.

INSTALLATION INSTRUCTIONS

- c) Vertical cells to be grouted are aligned and unobstructed openings for grout are provided in accordance with the Project Drawings.
- Place clean units while the mortar is soft and plastic. Remove and relay in fresh mortar any unit disturbed to the extend that initial bond is broken after initial positioning.

#### Reinforcement installation

- Support and fasten reinforcement together to prevent displacement beyond the tolerances allowed by construction loads or by placement of grout or mortar.
- b) Completely embed reinforcing bars in grout in accordance with ACI530-02 Article
- c) Maintain clear distance between reinforcing bars and any face of masonry unit or formed surface, but not less than ¼ inches for fine grout or ½ inches for coarse grout.
- d) Splice only where indicated on the Project Drawings, unless otherwise acceptable.
- e) Unless accepted by the Architect/ Engineer, do not bend reinforcement after it is embeded in grout or mortar.
- f) Place joint reinforcement so that longitudinal wires are embeded in mortar with a minimum cover of ½ inches when not exposed to weather or earth and 5/8 inches when exposed to weather or earth.

#### **Grout placement**

- a) Placing time Place grout within 1½ hours from introducing water in the mixture and prior to initial set.
- b) Confinement Confine grout to the areas indicated on the Project Drawings. Use material to confine grout that permits bond between masonry units and mortar.
- c) Grout pour height Do not exceed the maximum grout pour height given in the ACI530-02 Table 7.
- d) Grout lift height Place grout in lifts not exceeding 5 feet.
- e) Consolidation Consolidate grout at the time of placement.
  - Consolidate grout pours 12 inches or less in height by mechanical vibration or by puddling.
  - Consolidate pours exceeding 12 inches in height by mechanical vibration and reconsolidate by mechanical vibration after initial water loss and settlement has occurred.

#### Field quality control

- a) Verify masonry unit strength, f'm in accordance with the ACI530-02 Article 1.6.
- b) Sample and test grout as required by the ACI530-02 Articles 1.4B and 1.6.

#### DE DANSCO ENGINEERING, LLC

P.O. Box 3400 Apollo Beach, FL 33572

Telephone (813) 645-0166 Facsimile (813) 645-9698 E-mail: dengine1@danscoengineering.com CA25948

#### Cement Precast Products, Inc.

Precast concrete lintels 6", 8" and 12" wide have been reviewed by our office for compliance with the following codes:

- Florida Building Code 2004 Residential, sections R402.2 and R606.
- Florida Building Code 2004 Building, sections 1901.2 and 2107.

Our review is limited to the precast concrete lintels together with verification that they are accurate and appropriate for use according to the requirements of the above-referenced codes. Only Cement Precast Products, Inc. lintels may be used for the work depicted herein.



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# LINTEL INFORMATION

3000 PSI -

IN FIELD)

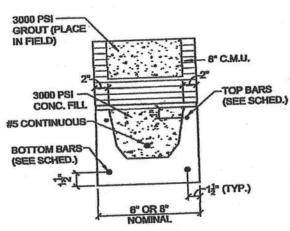
GROUT (PLACE

3000 PSI

#5 CONTINUOUS

**BOTTOM BARS** (SEE SCHED.)

CONC. FILL



TYPICAL RECESS LINTEL SECTION
(6' OR 8'x6' LINTEL IS SHOUN) SECTION

TYPICAL

(6' OR B'XIG' LINTEL IS SHOUN)

ENGINEERING SPECIFICATIONS:

1.) SAFE LOADS ARE TOTAL SUPERIMPOSED ALLOWABLE

2.) DESIGNER MAY EVALUATE CONCENTRATED LOADS FROM THE SAFE LOAD TABLES BY CALCULATING MAX. RESISTING SHEAR AND MOMENT FOR THE LISTED LINTELS.

LINTE

3.) SAFE LOADS LISTED ON ALL TABLES ARE IN UNITS OF POUND PER LINEAR FOOT.

GENERAL NOTES:

1.) CODES:

5/31/2005 9:09:12 AM, KJoyner

PRECAST PRODUCTS244547/8,5x11/5K01.dwg,

engineering\CEMENT

G:\data\

- 1.1 FLORIDA BUILDING CODE 2004 RESIDENTIAL, SECTIONS R402.2, & R606.
- 1.2 FLORIDA BUILDING CODE 2004 BUILDING, SECTIONS 1901.2 & 2107.
- 1.3 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-02).
- 1.4 AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES(ASCE 7-98).

2.) CONCRETE:

- 2.1 CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
  - 2.1.1 CONCRETE FILL (PLACE IN FIELD) 3000 PSI 2.1.2 PRECAST W/ STANDARD REINFORCEMENT - 5000
  - 2.1.3 GROUT PER ASTM C476 3000 PSI W/ MAX. 3/8" AGGERATE, 8" TO 11" SLUMP.

2.2 REINFORCING BARS:

- 2.2.1 STEEL IN LINTEL AND KNOCKOUT BLOCK (PLACED
- IN FIELD) ASTM A616 (GRADE 40). 2.3 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315.
- 2.4 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

3) MASONRY:

- 3.1 DESIGN AND CONSTRUCTION SHALL CONFORM TO THE SPECIFICATION OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND ACI 530-02.
- 3.2 MINIMUM MASONRY UNIT STRENGTH: FM 1500 PSI. 3.3 MORTAR SHALL BE TYPE S.

4) STRUCTURAL:

- 4.1 SAFE LOAD VALUES ARE BASED ON LINTELS HAVING A BEARING OF 4".
- 4.2 FOR LINTELS THAT ARE GREATER THAN 14'-0" CLEAR SPAN THEY SHALL BE PROVIDED A TEMPORARY SUPPORT, AND THE TEMPORARY SUPPORT SHALL NOT BE REMOVED UNTIL 2 DAYS AFTER GROUT PLACEMENT.

B" C.M.U.

传 (TYP.)

TOP BARS

(SEE SCHED.)

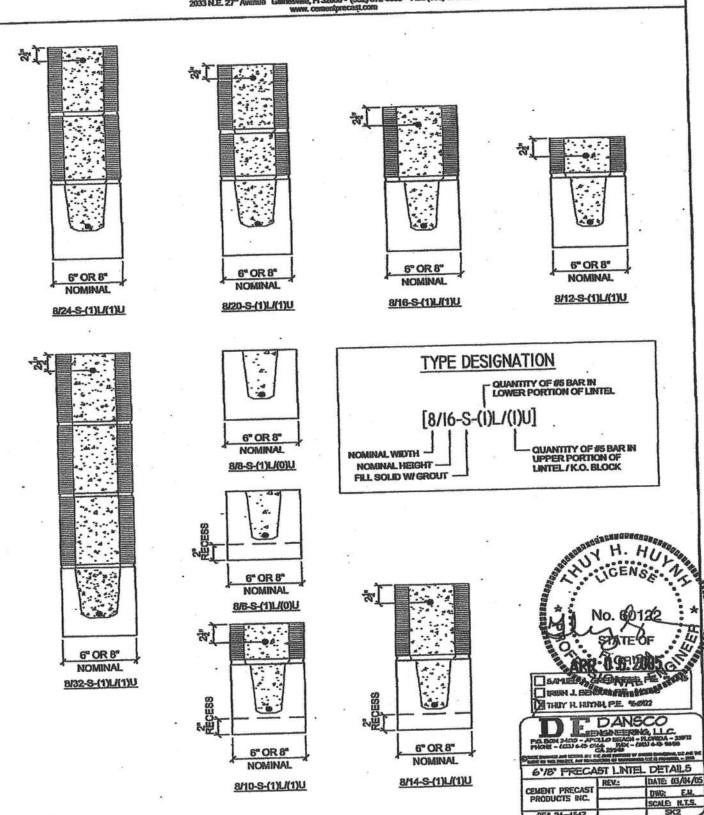


BAMUEL A GREENBERG, P.E. 94248 DIRENT BENSON, PE. 49158 THIN H HIMNH, PE 16000

GENERAL NOTES 4 DETAILS

DATE: 03/04/0 CEMENT PRECAST PRODUCTS INC. EM. DING SCALE: DE# 24-4547

Cement Precast Products, Inc.
2033 N.E. 27<sup>th</sup> Avanua Gainesviile, F132608 - (352) 372-0953 - Fax: (352) 378-4611
www.cementprecast.com



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Cement Precast Products, Inc. 2003 N.E. 27 Avenue Gainesville, F132609 - (352) 372-4953 - Fexc (352) 378-4611 www.cementprecast.com

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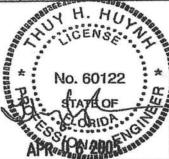
☐ SÁTRIEL A GREENBERG, PE. '94245 ☐ RRIEN J. BENSON, PE. '49756 MIRLIT H. HIMBU, PE. '66012

	REV.:	DATE: 03/04/05
PRODUCTS INC.		DWG: E.M.
PRODUCTS INC.		SCALE: N.T.S.
DE# 24-4547	SK7	

Cement Precast Products, Inc. 2033 N.E. 27<sup>th</sup> Avenue Galnesville, Fl 32609 - (\$52) 372-0953 - Fex: (352) 378-4611 www.cementprecast.com

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N.R. = NOT RECOMMENDED



☐ SAMUEL A GREENSERG, P.E. 34345 ☐ RUEN J. BENSCN, P.E. 49158 ☑ TRUY H, HUYNH, P.E. 46002

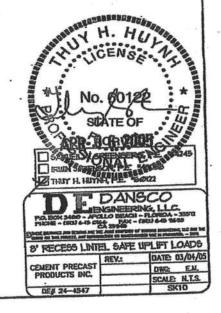
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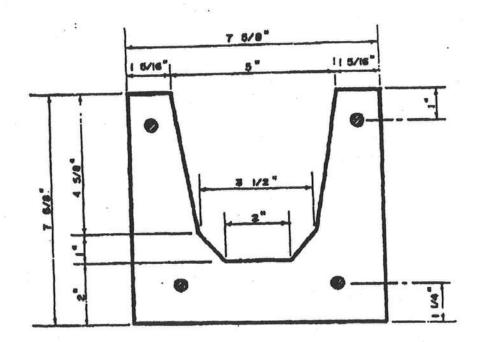
	REV.:	DATE: 03/04/05
PRODUCTS INC.		DWG: E.M.
PRODUCTS INC.		SCALE: N.T.S.
DE# 24-4547		SKB

Cement Precast Products, Inc.
2033 N.E. 27° Avenue Galesville, Fl 32609 - (352) 372-0953 - Fax: (352) 378-4611
www.camentprecast.com

LIN	TEL.	8" RECESS LINTEL SAFE UPLIFT LOADS (PLF)							
TOTAL	CLEAR SPAN	TOP REINF.	BOTTOM REINF.	8/6-5-(1)U 8/8-5-(2)U	8/10-S-(1)U	8/14-S-(1)U 8/14-S-(2)U			
LENGTH 3'6"	2-2°	None	(2) #3	2571 2571	3966 - 3986	. 8716 9281			
4'-0"	2'-8"	None	(2)#3	2063	3063 8085	6237			
	3'-0"	None	(2)#3	1823	2660	5122 5122			
4'-4"		-	-	1723	2496	4701			
4-6"	3-2	None	(2)#3	1633	2350	4701 4345			
4'-8"	3'-4"	None	(2)#3	1244	1742	2986			
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7'-8"	6°-4°	(2)#3	(2)#4	708	1013	1625			

Gildatalengineering/CEMENT PRECAST PRODUCTS/244547/8.5x11/SK10.4wg, 3/15/2005 2:09:35 PM, EMontanez





Lintel Concrete Strength = 4000 pei Fill Concrete Strength = 3000 pei Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

TYPE	TOP BARS	BOTTOM BARS
<b>A</b>	NONE	2 - 03
В	2 - 42	2 - #4
C	2 - #3	2 - #4
D	2 - #3	2 - #5
R	2 - #4	2 . #6

What's Bugging You? M Pest Control

> Toll Free: (800) 225-5305 Fax: (904) 353-1488 Phone: (904) 355-5300 Main Office: 480 Edgewood Ave. S. Jacksonville, FI 32205-3775

www.turnerpest.com Treasure/Space Coast, Florida

**St. Marys, Georgia** (912) 576-1300 Tampa, Florida (813) 681-6381 (772) 621-7905

Daytona, Florida (386) 788-8303

Time:

Work Date:

04/14/09

Tuesday

3301411

Tech: Route: Map:

RRODRIGUEZ

Last Service Target Pest:

Terms

Lake City, FL 32055-4785 5884-Nw Lake Jeffery Rd Mr Farrmond

SERVICE

Location: [182615]

Bill-To: [135812]

27721

PRE-RES/SOIL SOIL TREATMENT - SINGLE FAMILY - CYPER

DESCRIPTION

3024 sq ft--Larry 386-623-6374--concrete co.--Dan--