DATE 10/03	3/2008	Colo	umbia C ust Be Promi	County Bu	uilding Per	mit ing Con	struction	_	PERMIT 00027401
APPLICANT	JOHN HA	RRINGTON			PH	ONE	352-316-5320		
ADDRESS	24113	NW OLD BELL	AMY RD		HIGH SPRING	iS		FL_	32643
OWNER	JEFF TYF	RE			PH	ONE	462-5323		
ADDRESS	5813	NW LAKE JEF	FERY RD	<u> </u>	LAKE CITY			FL	32055
CONTRACTO	R HO	USE CRAFT HON	ИES		PH	ONE	386-462-2401		
LOCATION OF	F PROPER	TY 90 E,	R LAKE JEF	FERY, GO LEF	T JUST PAST O	LD HU	NTSVILLE		
		STOR	E AT NEXT	DRIVE ON RIC	GHT TO THE EN	ND			
TYPE DEVELO	OPMENT	SFD,UTILIT	Y	EST	IMATED COST	OF CO	NSTRUCTION	131	850.00
HEATED FLO	OR AREA	2497.0	0	TOTAL ARE	A 2637.00		HEIGHT 1	8.00	STORIES 1
FOUNDATION	N CONC	CRETE V	VALLS FRA	MED R	OOF PITCH	5/12	FL	OOR	SLB
LAND USE &	ZONING	AG-3	-			MAX	. HEIGHT	35	
Minimum Set E	Back Requi	rments: STRI	EET-FRONT	30.00	RE	AR	25.00	SIDE	25.00
NO. EX.D.U.	0	FLOOD ZO	NE X		DEVELOPMEN	T PERN	MIT NO.		
PARCEL ID	09-38-16-	02045-104		SUBDIVISION	J.	5,010			
	1	2 TANDE TO 1 C T				тоть	I ACDEC 5	00	
LOT	BLOCK	PHAS	SE	UNIT		101A	L ACRES 5.	.00	Top I III TO THE STATE OF
Culvert Permit? EXISTING Driveway Conn COMMENTS:	nection	Culvert Waiver 08-0650 Septic Tank Nur FILE, FLOOR O	Contracto		g checked by	R	Applicant/Owner J Proved for Issuance		tor New Resident
***************************************				1			Check # or C	ash 1	150
		FOR	BUILDIN	IG & ZONIN	G DEPARTI	IENT	ONLY		(footer/Slab)
Temporary Pow	ver		Fou	ndation			Monolithic		N. 50 TO TO TO TO TO TO
		date/app. by			date/app. by			d	ate/app. by
Under slab roug	gh-in plumb	oing		Slab _			Sheathing/	/Nailing	
MARK DAVI TO THE PARTY OF		da	te/app. by		date/app. b	У			date/app. by
Framing	1/		Rough	-in plumbing ab	ove slab and belo	w wood	l floor		
	date/ap	pp. by						(date/app. by

Electrical rough-in Heat & Air Duct Peri. beam (Lintel) date/app. by date/app. by date/app. by Permanent power C.O. Final Culvert date/app. by date/app. by date/app. by M/H tie downs, blocking, electricity and plumbing Pool date/app. by date/app. by Reconnection Utility Pole Pump pole date/app. by date/app. by date/app. by M/H Pole Travel Trailer Re-roof date/app. by date/app. by date/app. by

13.19

FIRE FEE \$ 0.00

CULVERT FEE \$

SURCHARGE FEE \$

WASTE FEE \$

13.19

761.38

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

50.00

CERTIFICATION FEE \$

FLOOD ZONE FEE \$ 25.00

ZONING CERT. FEE \$

660.00

BUILDING PERMIT FEE \$

FLOOD DEVELOPMENT FEE \$

MISC. FEES \$

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

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 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

STATE & ZNO PAGE WILL BE SUBMITTED PRIOR to FOUNTAIN Columbia County Building Permit Application

For Office Use Only Application # 0809-59 Date Received 9/26 By W Permit # 2740/
Zoning Official Date 01.10.08 Flood Zone X Land Use A-3 Zoning A-3
FEMA Map # N/A Elevation N/A MFE MFE River N/A Plans Examiner Date 9/30/04
Comments / 100 Maria Ton
NOC EH 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 29.88 Fire 478.63 Corr 4909.16 Road/Code 1,046.00 /2/0
School = 1,500.00 = TOTAL = 3,063.67
Septic Permit No. 08 - 0650
Name Authorized Person Signing Permit John Harrington Phone 352-3/6-5320
27113 100 000 BELLAMY 100 1-11GH STATING FC 32643
Address 1250 US 1764 TH Alechon th 3-2615
Owners Name Jeff Tyre Phone 386-462-5323
911 Address 38/3 NW LAKE SEFFERY RD LAKE CITY 32055
Contractors Name House CRAFT Homes Phone 386-462-2401
Address 12501 US HWY 441 Alachus FL 32615
Fee Simple Owner Name & Address Jeff Tyre
Bonding Co. Name & Address
Architect/Engineer Name & Address Murk DISOSWAY PO POX 868 CAKE CITY
Mortgage Lenders Name & Address FIST FEDERAL SAVIWES LAILE CITY
Circle the correct power company - FL Power & Light - Clay Elec Suwannee Valley Elec Progress Energy
Property ID Number R02045- Estimated Cost of Construction 175,000
Subdivision Name Lot Block Unit Phase
Driving Directions EAST ON 90 TO LAKE JESTERY rd make left got old
Humanite Jeffy fore next drive on R to end.
Number of Existing Dwellings on Property O
Construction of 5 F 1) Total Acreage 5 Lot Size
Do you need a - <u>Culvert Permit</u> or <u>Culvert Waiver</u> or <u>Have an Existing Drive</u> Total Building Height/8 '
Actual Distance of Structure from Property Lines - Front Side 230 Side 257 Rear 450
Number of Stories Heated Floor Area 2497 Total Floor Area 2637 Roof Pitch 5/12
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.)
Page 1 of 2 (Both Pages must be submitted together.) JW CALLED JONE J. D. NATTINGER, Se. 10.1.08

Columbia County Building Permit Application

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 filing, 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.

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

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

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

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

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.

Comartor's Signature (Permitee)

Contractor's License Number CRC 058087 **Columbia County**

Competency Card Number

Affirmed under penalty of perjury to by the Contractor and subscribed before me this or Produced Identification PUL

State of Florida Notary Signature (For the Contractor)

Page 2 of 2 (Both Pages must be submitted together.)



Revised 1-10-08

House Craft Homes

Permitting Office: Columbia County

FORM 600A-2004R

Project Name:

Address:

TYRE RESIDENCE

5813 NW Lake Jeffery Rd

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Builder:

compliance with Section 553.908

BUILDING OFFICIAL:

Florida Statutes.

DATE:

City, State: Owner: Climate Zone:	Lake City, FI 3209 JEFF AND GIGI T North	55-	Jurisdiction Number.	740/
2. Single family 3. Number of ur 4. Number of ur 4. Number of Bo 5. Is this a wors 6. Conditioned of 7. Glass type of a. U-factor: (or Single or b. SHGC: (or Clear or 8. Floor types a. Stem Wall b. N/A c. N/A 9. Wall types a. Concrete, Int b. N/A c. N/A d. N/A e. N/A 10. Ceiling types a. Under Attic b. N/A c. N/A 11. Ducts	t case? floor area (ft²) nd area: (Label reqd. by 13-10 De Double DEFAULT) 7a. (Dbl Tint DEFAULT) 7b. Insul, Exterior	escription Area	12. Cooling systems a. Central Unit b. N/A c. N/A 13. Heating systems a. Electric Heat Pump/Package b. N/A c. N/A 14. Hot water systems a. Electric Resistance b. N/A c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) 15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	Cap: 48.0 kBtu/hr SEER: 13.00
I hereby certify	Glass/Floor Area: 0.07 that the plans and specificate in compliance with the	ations covered by	points: 29349 points: 32351 Review of the plans and specifications covered by this	S OF THE STATE
Code. PREPARED DATE:	1111 .		calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for	

I hereby certify that this building, as designed, is in compliance

with the Florida Energy Code.

OWNER/AGENT:

DATE:

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 5813 NW Lake Jeffery Rd, Lake City, FI, 32055-

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: 3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	V
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	1
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	V
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	/
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	1
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	NA
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK				
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.					
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	v				
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	/				
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	-				
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.					
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	1				

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: 5813 NW Lake Jeffery Rd, Lake City, Fl, 32055- PERMIT #:

BASE				AS-BUILT									
WATER HEA Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	х	Tank X Ratio	Multiplier		Credit Multiplier	
4		2635.00		10540.0	40.0	0.92	4		1.00	2635.00		1.00	10540.0
					As-Built To	otal:							10540.0

	CODE COMPLIANCE STATUS										
	BAS	E						AS	-BUILT		
Cooling + Points	Heating Points	+ Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
10084	11727	10540		32351	7051		11758		10540		29349

PASS



Code Compliance Checklist Residential Whole Building Performance Method A - Details

ADDRESS: 5813 NW Lake Jeffery Rd, Lake City, FI, 32055-

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: 3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	V
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	1
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	V
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	/
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	1
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	NA
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK				
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.					
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	V				
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	1				
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	-				
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	1				
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	V				

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 5813 NW Lake Jeffery Rd, Lake City, FI, 32055-

PERMIT #:

	BASE		AS-BUILT								
Summer Ba	se Points: 3	31026.8	Summer As-Built Points:	25092.5							
Total Summer Points	X System : Multiplier	= Cooling Points	Total X Cap X Duct X System X Cred Component Ratio Multiplier Multiplier Multip (System - Points) (DM x DSM x AHU)								
31026.8	0.3250	10083.7	(sys 1: Central Unit 48000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6 25092 1.00 (1.09 x 1.147 x 0.91) 0.260 0.95 25092.5 1.00 1.138 0.260 0.9 5	7051.3							

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 5813 NW Lake Jeffery Rd, Lake City, FI, 32055-

PERMIT #:

BASE		A SHIPP CHAIN	AS-	BUI	LT				
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area	Type/SC	Over Ornt		Hgt	Area X	W	PM X	woi	= Points
.18 2497.0 20.17 9066.0	1.Double, Clear	E	2.0	5.3	51.0		18.79	1.07	1029.0
	2.Double, Clear	W	2.0	5.3	34.0	2	20.73	1.05	742.0
	3.Double, Clear	W	2.0	5.3	130,600		20.73	1.05	1091.0
	4.Double, Clear	S	2.0	3.7			13.30	1.76	186.0
	5.Double, Clear	S	2.0	5.3			13.30	1.34	303.0
	6.Double, Clear	N	2.0	5.3	17.0	2	24.58	1.01	420.0
	As-Built Total:		almuseseets.		177.0				3771.0
WALL TYPES Area X BWPM = Points	Туре		R-	Value	Area	Х	WPN	1 =	Points
Adjacent 0.0 0.00 0.0 Exterior 1365.0 3.70 5050.5	1. Concrete, Int Insul, Exterior	or		5.0	1365.0		5.70		7780.5
Base Total: 1365.0 5050.5	As-Built Total:		Wheel and the		1365.0	en e		-	7780.5
DOOR TYPES Area X BWPM = Points	Туре				Area	х	WPM	1 =	Points
Adjacent 0.0 0.00 0.0	1.Exterior Insulated		,		23.0		8.40		193.2
Exterior 82.0 12.30 1008.6	2.Exterior Insulated				36.0		8.40		302.4
	3.Exterior Insulated				23.0		8.40		193.2
Base Total: 82.0 1008.6	As-Built Total:	Alamana Mark	eriottenie nue		82.0				688.8
CEILING TYPES Area X BWPM = Points	Туре	R-\	Value	Ar	ea X W	PM	x wc	:M =	Points
Under Attic 2497.0 2.05 5118.9	1. Under Attic		3	30.0	2497.0 2	2.05	X 1.00		5118.9
Base Total: 2497.0 5118.9	As-Built Total:				2497.0	Course		Michigan	5118.9
FLOOR TYPES Area X BWPM = Points	Туре		R-\	/alue	Area	Х	WPN	1 =	Points
Slab 0.0(p) 0.0 0.0	1. Stem Wall			0.0	2497.0		3.50		8739.5
Raised 2497.0 0.96 2397.1								124	
Base Total: 2397.1	As-Built Total:				2497.0				8739.5
INFILTRATION Area X BWPM = Points					Area	х	WPM	1 =	Points
2497.0 -0.59 -1473.2					2497.0)	-0.59		-1473.2

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

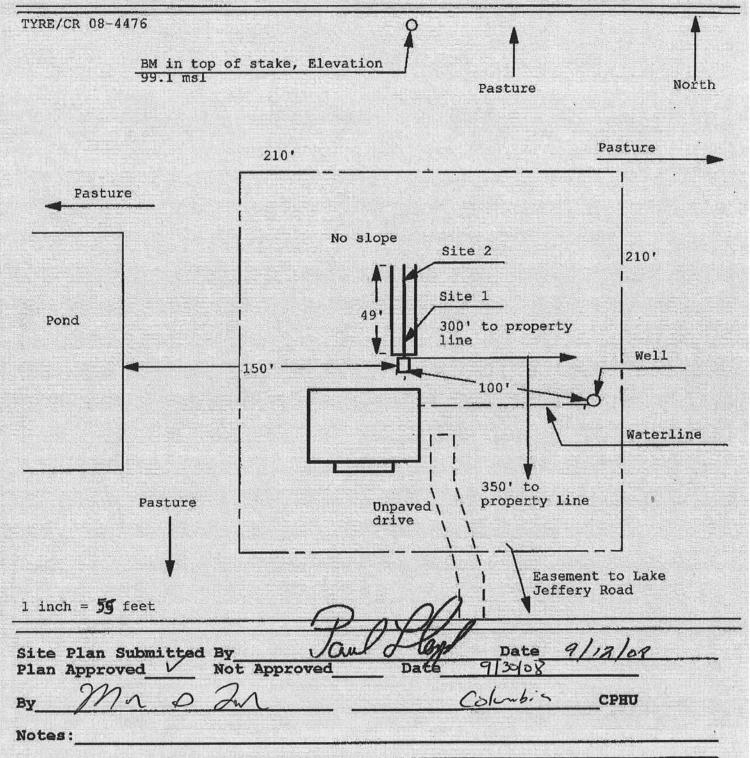
ADDRESS: 5813 NW Lake Jeffery Rd, Lake City, FI, 32055-

PERMIT#:

	BASE		AS-BUILT								
Winter Base	Points:	21167.8	Winter As-Built Points:	24625.4							
Total Winter X Points	System = Multiplier	Heating Points	Total X Cap X Duct X System X Credit = Component Ratio Multiplier Multiplier Multiplier Multiplier (System - Points) (DM x DSM x AHU)	Heating Points							
21167.8	0.5540	11727.0	(sys 1: Electric Heat Pump 48000 btuh ,EFF(8.3) Ducts:Unc(S),Unc(R),Int(Al 24625.4 1.000 (1.069 x 1.169 x 0.93) 0.411 1.000 24625.4 1.00 1.162 0.411 1.000	H),R6.0 11758.0 11758.0							

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan Permit Application Number: 08 0650

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID 02-455 POST OFFICE BOX 1328 LAKE CITY, FL 32056-1328

RETURN TO:

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

Property Appraiser's Identification Number Part of R02045-000

Inst:2002014888 Date:07/29/2002 Time:09:36:06 Doc Stamp-Deed: 343.70 _____DC,P.DeWitt Cason,Columbia County B:958 P:237.

WARRANTY DEED

THIS INDENTURE, made this 26th day of July, 2002, BETWEEN BRUCE D. MARKHAM and GLORIA J. MARKHAM, Husband and Wife whose post office address is Route 8, Box 384, Lake City, FL 32055, of the County of Columbia, State of Florida, grantor*, and JEFFREY R. TYRE and GIGI F. TYRE, Husband and Wife whose post office address is 403 Brady Circle, Lake City, FL 32055, of the County of Columbia, State of Florida, grantee*.

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

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

SUBJECT TO RESTRICTIONS AS DESCRIBED IN EXHIBIT "B" ATTACHED HERETO AND MADE A PART HEREOF.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

*"Grantor" and "grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

Inst:2002014888 Date:07. 2002 Time:09:36:06

Doc Stamp-Deed: 343.70

DC,P.DeWitt Cason, Columbia County B:958 P

Signed, sealed and delivered in our presence:

(Signature of First Witness)

Terry McDavid

(Typed Name of First Witness)

(Signature of Second Witness) Crystal L. Brunner

(Typed Name of Second Witness)

Dane D. Marthan (SEAL)

Grantor

BRUCE D. MARKHAM

Printed Name

Som Maily on (SEAL)

Grantor

GLORIA J. MARKHAM

Printed Name

STATE OF Florida COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 26th day of July, 2002, by BRUCE D. MARKHAM and GLORIA J. MARKHAM, Husband and Wife who are personally known to me or who have produced _____ as identification and who did not take an oath.

My Commission Expires:

Notary Public

Printed, typed, or stamped name:

Inst:2002014888 Date:07/25)2 Time:09:36:06
Doc Stamp-Deed: 343.70
DC,P.DeWitt Cason,Columbia County B:958 P

EXHIBIT "A"

TOWNSHIP 3 SOUTH - RANGE 16 EAST

Commence at the Northeast corner of the Southeast 1/4 of the Northeast 1/4 of Section 9, Township 3 South, Range 16 East, Columbia County, Florida and run South 88 deg. 40'07" West along the North line of the Southeast 1/4 of the Northeast 1/4 of Section 9 a distance of 571.03 feet to the Point of Beginning; thence South 19 deg. 38'48" West a distance of 738.68 feet; thence North 47 deg. 40'33" West a distance of 587.72 feet to a point on the West line of the Southeast 1/4 of the Northeast 1/4 of Section 9; thence continue North 47 deg. 40'33" West a distance of 118.13 feet to a rebar and cap stamped Occupation Corner on an existing fence line; thence North 00 deg. 45'20" West along said existing fence line a distance of 202.49 feet to a concrete monument stamped Occupation Corner; thence North 88 deg. 40'07" East along the Westerly extension of the North line of the Southeast 1/4 of the Northeast 1/4 a distance of 82.53 feet to the Northwest corner of the Southeast 1/4 of the Northeast 1/4; thence continue North 88 deg. 40'07" East along said North line of the Southeast 1/4 of the Northeast 1/4 of Section 9 a distance of 688.80 feet to the Point of Beginning. Columbia County, Florida.

TOGETHER WITH an Easement 30.00 feet in width, for utilities, ingress and egress, lying 30.00 feet West of and adjacent to the following described line:

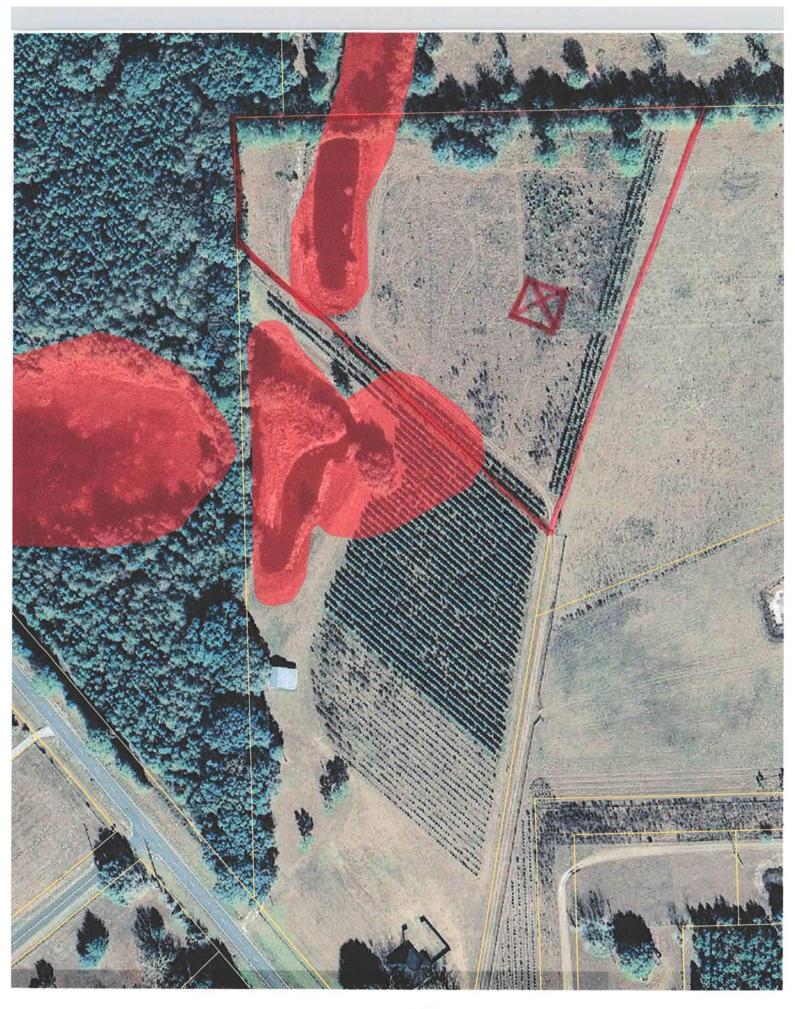
Commence at the Northeast corner of the Southeast 1/4 of the Northeast 1/4 of Section 9, Township 3 South, Range 16 East, Columbia County, Florida and run South 01 deg. 12'24" East along the East line of Section 9 a distance of 1192.48 feet; thence South 88 deg. 35'02" West a distance of 815.40 feet; thence South 01 deg. 32'45" East a distance of 759.91 feet to a point on the Northeasterly right-of-way line of County Road 250 (Lake Jeffery Road); thence North 39 deg. 28'06" West along said Northeasterly right-of-way line of County Road 250 (Lake Jeffery Road) a distance of 345.70 feet to the Point of Beginning; thence North 09 deg. 44'35" East a distance of 1011.75 feet to the Terminal Point of herein described line.

Inst:2002014888 Date:07/29/2002 Time:09:36:06
Doc Stamp-Deed: 343.70
DC,P.DeWitt Cason,Columbia County B:958 P:2374

EXHIBIT "B"

For the period of time ending 20 years from the date of the Warranty Deed the property described in Exhibit "A" shall be subject to the following restrictions:

- Only homes of not less than 1,500 sq feet of heated area my be built on the property.
- No Mobile Homes may be placed on the property.
- The property may not be used as a poultry farm.
- 4. No swine or goats may be kept on the property.
- 5. Horses and cattle may be kept on the property, but the total of both shall not exceed seven head plus their offspring until weaning age.
- 6. No junk vehicles or other abandoned personal property may be allowed on the property.
- 7. A travel trailer may be used as living quarters while a home is being constructed, but not after one (1) year.



0865-59

Columbia County Property Appraiser

DB Last Updated: 8/5/2008

2008 Proposed Values

Tax Record

Property Card

Interactive GIS Map

Print

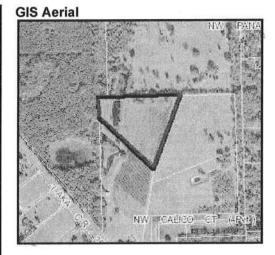
Parcel: 09-3S-16-02045-104

Owner & Property Info

Search Result: 1 of 2

Next >>

Owner's Name	TYRE JEFFRE	TYRE JEFFREY R & GIGI F				
Site Address						
Mailing Address	708 NW BRADY CIRCLE LAKE CITY, FL 32055					
Use Desc. (code)	NO AG ACRE (009900)					
Neighborhood	9316.00	Tax District	3			
UD Codes	MKTA01	Market Area	01			
Total Land Area	7.310 ACRES	3				
Description	COMM NE COR OF SE1/4 OF NE1/4, RUN W 571.03 FT FOR POB, RUN S 19 DEG W 738.68 FT, N 47 DEG W 587.72 FT TO W LINE OF SE1/4 OF NE1/4, CONT N 47 DEG W 118.13 FT TO A PT ON AN OCCUPATION LINE OF AN EXISTING FENCE, RUN N 202.49 FT, E 82.53 FT TO NW COR OF SE1/4 OF NE1/4, CONT E 688.80 FT TO POB. ORB 958-2371					



Property & Assessment Values

Mkt Land Value	cnt: (1)	\$58,333.00
Ag Land Value	cnt: (0)	\$0.00
Building Value	cnt: (0)	\$0.00
XFOB Value	cnt: (0)	\$0.00
Total Appraised Value		\$58,333.00

Just Value	\$58,333.00
Class Value	\$0.00
Assessed Value	\$58,333.00
Exempt Value	\$0.00
Total Taxable Value	\$58,333.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
7/26/2002	958/2371	WD	V	U	03	\$49,100.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
			NONE			3

Extra Features & Out Buildings

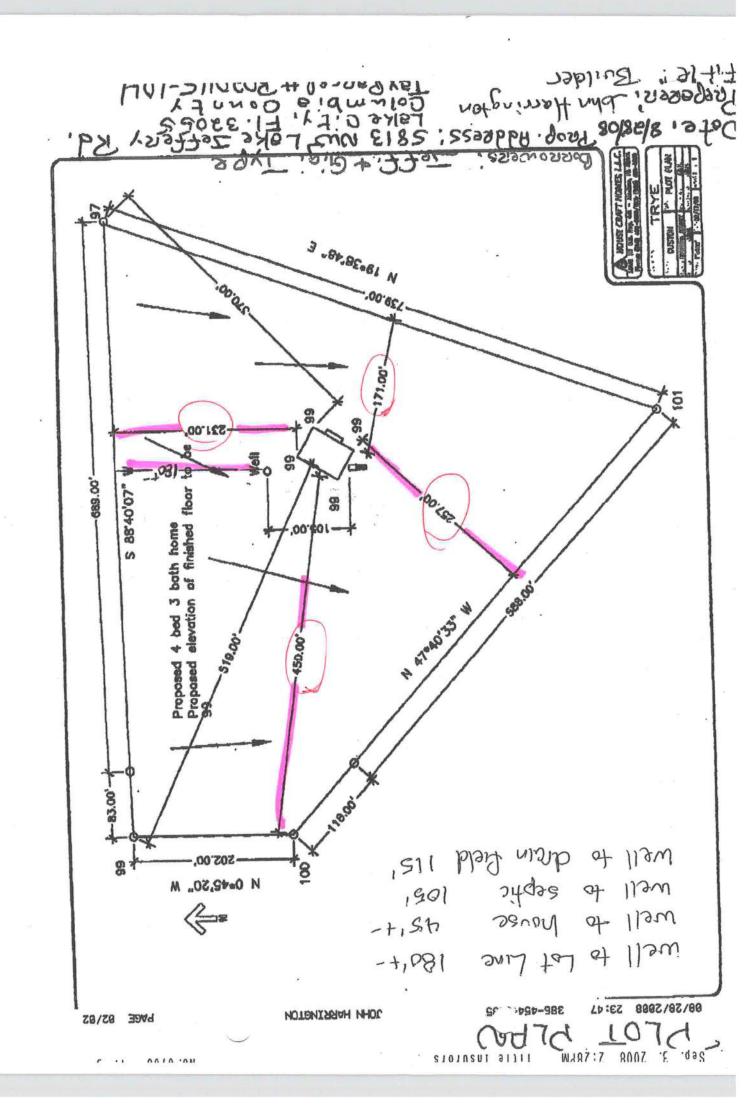
Code	Desc	Year Blt	Value	Units	Dims Condition (% Good)				
				NONE					

Land Breakdown

Lnd Code Desc Units		Units	Adjustments	Eff Rate	Lnd Value	
009900	AC NON-AG (MKT)	7.310 AC	1.00/1.00/1.00/1.00	\$7,980.00	\$58,333.00	

Columbia County Property Appraiser

DB Last Updated: 8/5/2008



Re: Letter of Authorization 6/30/08

Please allow my father John D. Harrington Sr. to apply and pick up permits for House Craft Homes.

Thank you

John D. Harrington Jr.

CRC 058087

VICKI SUMMERS

Notary Public - State of Florida My Commission Expires Jan 12, 2010 Commission # DD 506323 Bonded By National Notary Assn.

Standard System:

4" Well

1 HP Submersible Pump

60 Gallon Captive Air Tank with Cycle Stop Valve

OR

260 Gallon Tank with No Cycle Stop Valve

1 1/4" Schedule #80 PVC Drop Pipe

All Wiring to Electrical Code

1" Union (PVC)

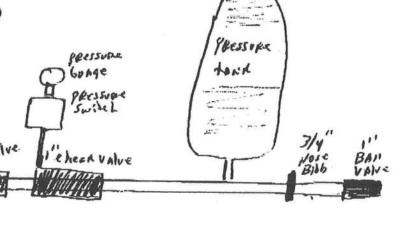
1" Check Valve (Brass)

3/4" Pressure Relief Valve (Brass)

3/4" Hose Bibb (Brass)

1" Ball Valve (PVC)

lyb -



ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

The higher the score, the more efficient the home.

JEFF AND GIGI TYRE, 5813 NW Lake Jeffery Rd, Lake City, Fl, 32055-

1.	New construction or existing	New		12. Cooling systems	
2.	Single family or multi-family	Single family	-	a. Central Unit	Cap: 48.0 kBtu/hr
3.	Number of units, if multi-family	1	520.00		SEER: 13.00
4.	Number of Bedrooms	4	100,000	b. N/A	4564
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	2497 ft²		c. N/A	
7.	Glass type ¹ and area: (Label reqd.	by 13-104.4.5 if not default)			-
a.	U-factor:	Description Area		13. Heating systems	_
	(or Single or Double DEFAULT)			a. Electric Heat Pump/Package	Cap: 48.0 kBtu/hr
b	SHGC:	(Dolo Dollary 177.0 1			HSPF: 8.30
	(or Clear or Tint DEFAULT)	7b. (Clear) 177.0 ft ²		b. N/A	, , , , , , , , , , , , , , , , , , ,
8.	Floor types	(0.000) 177.0 10			-
a.	Stem Wall	R=0.0, 2497.0ft2		c. N/A	_
b	N/A			31. THE	-
c.	N/A			14. Hot water systems	_
9.	Wall types		-	a. Electric Resistance	Cap: 40.0 gallons
a.	Concrete, Int Insul, Exterior	R=5.0, 1365.0 ft2			EF: 0.92
	N/A	2.5, 2.5, 2.5	_	b. N/A	20.70.72
	N/A		-		-
	N/A		-	c. Conservation credits	-
	N/A		_	(HR-Heat recovery, Solar	-
10.			-	DHP-Dedicated heat pump)	
02020	Under Attic	R=30.0, 2497.0 ft ²		15. HVAC credits	CF.
	N/A	1000,2171.01		(CF-Ceiling fan, CV-Cross ventilation,	C1,
	N/A			HF-Whole house fan,	
	Ducts			PT-Programmable Thermostat,	
	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 129.0 ft		MZ-C-Multizone cooling,	
	N/A	5up. 10-0.0, 127.0 1t		MZ-H-Multizone heating)	
U.	IVI		-	Mazar-Munizone nearing)	

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

Address of New Home: 58/3 No Lake Soffery RD City/FL Zip: Lake City

*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar Mesignation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCSB v4.5.2)



01209812017730 Outs:5/26/2008 To Time:2:54 PM is County Page 1 of 2 B:1159 P:288

This instrument Propored By: Michael H. Harrell Abstract & Title Services, Inc. 283 NW Cole Terrace Lake City, Florida 32055

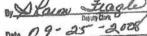
NOTICE OF COMMENCEMENT

TO WHOM IT MAY CONCERN:

The undersigned hereby give notice that improvements will be made to certain real property and in accordance with Chapter 713, Florida Statues, the following is provided in this Notice of Commencement:

- Description of Property; See Exhibit "A" attached hereto and by this reference made a part thereof
- General Description of improvement: Construction of Dwelling
- Owner information:
 - a. Name and Address: Jeffrey R. Tyre and Glgi F. Tyre, 708 NW Brady Circle, Lake City, FL 32055
 - b. Interest in properly: Fee Simple
 - c. Name and address of fee simple title holder (If other than Owner): NONE
- Contractor (name and address): House Craft Homes LLC, 12523 Highway 441, Alachua, FL 32615
- 5. Surety:
 - a. Name and Address: N/A
 - b. Amount of Bond: N/A
- LENDER: First Federal Savings Bank of Flotida 4705 West US Highway 90 PO Box 2029 Lake City, FL 32056

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





- Persons within the State of Florida designated by Owner upon whom notices of other documents may be served as provided in Section 713.13(1)(a)7., Florida Statutes: NONE
- in addition to himself, Owner designates PAULA HACKER, of FIRST FEDERAL SAVINGS BANK OF FLORIDA at 4705 WEST US HIGHWAY 90 / PO BOX 2029, LAKE CITY, FL 32056, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b) Florida Statutes.

Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

Unless a different date is specified).

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1 SECTION 713, 13, PLORIDA STATUTES AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU NEED TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

"Owner is used for singular or plural as contest requires.

Signed, Spled and delivered in the presence:

WITNESS

WITHESS Traci Landry

Glgl F. Tyre

STATE OF FLORIDA COUNTY OF COLUMBIA

Before me, personally appeared Jeffrey R. Tyre, and his wife, Gigi F. Tyre, to me known to be the person(s) described in and who executed the foregoing instrument, and they acknowledged to and before me that they executed sold instrument for the purpose therein expressed.

Witness my hand and afficial seal this 24th day of September, 3008

NOPARY PUBLIC

ISEAL

DONNA COX Wille, State o hate of Florida as Jan. 18, 2010

My Commission Expires:

Verification Pursuant to Section 92.525 Under Penalties of penuty. I declare that I have read that in the Floritio Statutes no and tool the facts stated in it are true to

the best of my knowledge and bellef.

Berson Signing Above

Sep. 26. 2008 8:32AM Abstract & Tille

Tyre HVAC Load Calculations

for

House Craft Homes 12523 N.W US HWY 441 Alachua Florida 32615





Chuck Fischer
North Central Florida Air Conditioning I
P. O. Box 700
High Springs Fl 32655-0700
(386) 454-4767
Saturday, September 13, 2008



Rhvac - Residential & Light Commercial HVAC Loads

North Central Florida A/C Inc High Springs, FL 32643



Elite Software Development, Inc. Tyre

Page 2

Project Report

General Project Information

Project Title:

Tyre

Designed By:

Project Date: Client Name:

August 19th 2008 House Craft Homes

Chuck Fischer

Client Address: Client City:

12523 N.W US HWY 441 Alachua Florida 32615

Client Phone: Client Fax:

386-465-5323 386-462-1509

Company Name:

North Central Florida Air Conditioning I

Company Representative: Company Address:

Chuck Fischer

Company City:

P. O. Box 700 High Springs FI 32655-0700

Company Phone:

(386) 454-4767

Company Fax:

(386) 454-4854

Company Comment:

heat load for addition

Design Data

Reference City:

Gainesville, Florida

Daily Temperature Range:

Medium 29 Degrees

Latitude:

152 ft.

Elevation:

0.995

Altitude Factor:

1.000

Elevation Sensible Adj. Factor:

1.000

Elevation Total Adj. Factor: Elevation Heating Adj. Factor:

1.000

Elevation Heating Adj. Factor:

1.000

Outdoor Outdoor Dry Bulb Wet Bulb

Indoor Indoor Rel. Hum Dry Bulb

Grains Difference

Winter: Summer:

31 93

0 77

50 50 72 75

38 50

Check Figures

Total Building Supply CFM:

1,845 2,497

25,350

CFM Per Square ft .: Square ft. Per Ton:

Air Turnover Rate (per hour):

0.739 572

4.4

Building Loads

Total Heating Required With Outside Air: Total Sensible Gain:

Square ft. of Room Area:

Volume (ft3) of Cond. Space:

54,559

Btuh Btuh

THE PROPERTY OF A STATE OF A STAT 54.559 MBH

40,369

85 %

Total Latent Gain:

7,332 Btuh 15 %

Total Cooling Required With Outside Air:

47,701 Btuh

3.98 Tons (Based On Sensible + Latent)

4.37 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads.



Elite Software Development, Inc. Tyre Page 3

Load Preview Report

Scope	Area	Sens Gain	Lat Gain	Net Gain	Sens Loss	Win CFM	Sum CFM	Sys CFM	Duct Size
Building: 3.98 Net Tons	4.37 Rec	ommended T	ons, 572 ft	.2/Ton, 54.5	6 MBH Hea	ting		ACTOR AND	
Building	2,497	40,369	7,332	47,701	54,559	712	1,845	1,845	ne not mil de ie pletra, militarilita
System 1: 3.98 Net Ton	s, 4.37 Re	commended	Tons, 572	ft.2/Ton, 54	.56 MBH He	ating		in the state of the state of	经制度 基本
System 1 AED Excursion	2,497	40,369 106	7,332	47,701 106	54,559	712	1,845	1,845	19x18
Zone 1	2,497	40,263	7,332	47,595	54,559	712	1,845	1,845	
1-Master Bedroom	270	4,495	1,329	5,824	8,131	106	206	206	2-6
2-His W.i.c	38	810	158	968	1,322	17	37	37	1-4
3-Her W.i.c	37	566	0	566	125	2	26	26	1-3
4-Master Bath	144	1,936	254	2,190	2,558	33	89	89	1-6
5-Laundry Room	150	2,447	660	3,107	5,664	74	112	112	1-6
6-Nook	86	2,540	254	2,794	2,959	39	116	116	1-6
7-Kitchen	159	3,352	230	3,582	318	4	154	154	1-7
8-Dining Room	186	2,300	288	2,588	3,112	41	105	105	1-6
9-Foyer	96	1,553	148	1,701	1,523	20	71	71	1-5
10-Great Room	484	5,044	601	5,645	6,053	79	231	231	2-6
11-Study	132	3,847	702	4,549	4,315	56	176	176	1-8
12-Bedroom 4	189	3,161	896	4,057	5,977	78	145	145	1-7
13-Bath 2	67	853	148	1,001	1,312	17	39	39	1-4
14-Bedroom 3	192	2,634	547	3,181	3,216	42	121	121	1-7
15-Bedroom 2	195	3,367	969	4,336	6,588	86	154	154	1-7
16-Bath 3	45	1,298	148	1,446	1,277	17	59	59	1-4
17-Hall	27	55	0	55	109	1	3	3	1-1

Rhvac - Residential & Light	Commercial HVAC Loads
North Central Florida A/C Inc	
High Springs, FL 32643	



Elite Software Development, Inc.
Tyre
Page 4

Total Building	Summary	Loads
----------------	---------	-------

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, external	105	2,800	0	2,942	2,942
shade screen coefficient of 0.45 and 50% coverage ID-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade screen coefficient of 0.45 and 50% coverage	11	293	0	253	253
1D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.32, outdoor insect screen with 50% coverage, external shade screen coefficient of 0.45 and 50% coverage	20	534	0	462	462
10B-b: Glazing-French door, double pane clear glass, metal frame with break, ground reflectance = 0.23	35.4	1,088	0	1,676	1,676
1D-cm-o: Glazing-Double pane, operable window, clear, metal frame no break, ground reflectance = 0.32, outdoor insect screen with 50% coverage, external shade screen coefficient of 0.45 and 50% coverage	22	784	0	586	586
11P: Door-Polyurethane Core	40.8	486	0	344	344
13A-5ocs: Wall-Block, board insulation only, R-5 board insulation, open core, siding finish	1498.8	7,682	0	3,429	3,429
16B-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, Dark Asphalt Shingles or Dark Metal, Tar and Gravel or Membrane, R-30 insulation	2497.3	3,276	0	4,235	4,235
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	206	11,469	0	0	0
Subtotals for structure:		28,412	0	13,927	13,927
People:	7		1,610	2,100	3,710
Equipment:			0	1,926	1,926
Lighting:	3600			12,276	12,276
Ductwork:		9,093	0	6,709	6,709
Infiltration: Winter CFM: 380, Summer CFM: 169		17,054	5,722	3,325	9,047
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0	0
AED Excursion:		0	0	106	106
Total Building Load Totals:		54,559	7,332	40,369	47,701

Check Figures			
Total Building Supply CFM:	1,845	CFM Per Square ft.:	0.739
Square ft. of Room Area:	2,497	Square ft. Per Ton:	572
Volume (ft³) of Cond. Space:	25,350	Air Turnover Rate (per hour):	4.4

Building Loads				
Total Heating Required With Outside Air:	54,559	Btuh	54.559	MBH
Total Sensible Gain:	40,369	Btuh	85	%
Total Latent Gain:	7,332	Btuh	15	%
Total Cooling Required With Outside Air:	47,701	Btuh	3.98	Tons (Based On Sensible + Latent)

4.37 Tons (Based On 77% Sensible Capacity)

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads.

Rhvac - Residential & Light Commercial HVAC Loads North Central Florida A/C Inc	Elite Software Development, Inc.
High Springs, FL 32643	Page 5
System 1 Main Floor Summary Loads	
Component	Area Sen Lat Sen Total

Component Description	Area Quan	Sen Loss	Lat Gain	Sen Gain	Total Gain
D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, external	105	2,800	0	2,942	2,942
shade screen coefficient of 0.45 and 50% coverage D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.23, outdoor insect screen with 50% coverage, light color blinds at 45° with 25% coverage, external shade	11	293	0	253	253
screen coefficient of 0.45 and 50% coverage D-cb-o: Glazing-Double pane, operable window, clear, metal frame with break, ground reflectance = 0.32, outdoor insect screen with 50% coverage, external shade screen coefficient of 0.45 and 50% coverage	20	534	0	462	462
I0B-b: Glazing-French door, double pane clear glass, metal frame with break, ground reflectance = 0.23	35.4	1,088	0	1,676	1,676
D-cm-o: Glazing-Double pane, operable window, clear, metal frame no break, ground reflectance = 0.32, outdoor insect screen with 50% coverage, external shade screen coefficient of 0.45 and 50% coverage	22	784	0	586	586
11P: Door-Polyurethane Core	40.8	486	0	344	344
I3A-5ocs: Wall-Block, board insulation only, R-5 board insulation, open core, siding finish	1498.8	7,682	Ō	3,429	3,429
I6B-30: Roof/Ceiling-Under attic or knee wall, Vented Attic, No Radiant Barrier, Dark Asphalt Shingles or Dark Metal, Tar and Gravel or Membrane, R-30 insulation	2497.3	3,276	0	4,235	4,235
22A-ph: Floor-Slab on grade, No edge insulation, no insulation below floor, any floor cover, passive, heavy moist soil	206	11,469	0	0	0
Subtotals for structure: People:	7	28,412	0 1,610	13,927 2,100	13,927 3,710
Equipment: Lighting: Ductwork:	3600	9,093	0	1,926 12,276 6,709	1,926 12,276 6,709
Infiltration: Winter CFM: 380, Summer CFM: 169		17,054	5,722	3,325	9,047
Ventilation: Winter CFM: 0, Summer CFM: 0		0	0	0,020	0,047
AED Excursion:		Ö	0	106	106
System 1 Main Floor Load Totals:		54,559	7,332	40,369	47,701
		01,000	1,002	40,000	41,101

Supply CFM:	1,845			CFM Pe	r Square ft.:	0.739
Square ft. of Room Area:	2,497			Square 1	ft. Per Ton:	572
Volume (ft³) of Cond. Space:	25,350			Air Turn	over Rate (per hour):	4.4
System Loads		Alle Mokes to Ja			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	asel and sold of the
Total Heating Required With Outs	side Air:	54,559	Btuh	54.559	MBH	STATE OF THE PARTY
Total Sensible Gain:		40,369	Btuh	85	%	
Total Latent Gain:		7,332	Btuh	15	%	
	ide Air:		Btuh	3.98	Tons (Based On Sensible	

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads.

4.37 Tons (Based On 77% Sensible Capacity)

High Springs, FL 32643

Elite Software Development, Inc. Tyre Page 6

System 1, Zone 1 Summary Loads (Average Load Procedure for Rooms)

Component		Area		Lat Gain	Sen Gain	Total Gain
Description		Quan	Loss	and the same of the same with the same of	2,942	2,942
D-cb-o: Glazing-Double pane, oper metal frame with break, ground	reflectance = 0.23,	105	2,800	0	2,942	2,942
outdoor insect screen with 50% shade screen coefficient of 0.45	coverage, external and 50% coverage					
D-cb-o: Glazing-Double pane, open metal frame with break, ground outdoor insect screen with 50% blinds at 45° with 25% coverage screen coefficient of 0.45 and 5	rable window, clear, reflectance = 0.23, coverage, light color e, external shade	11	293	0	253	253
ID-cb-o: Glazing-Double pane, ope metal frame with break, ground outdoor insect screen with 50% shade screen coefficient of 0.45	rable window, clear, reflectance = 0.32, coverage, external	20	534	0	462	462
10B-b: Glazing-French door, double metal frame with break, ground	pane clear glass,	35.4	1,088	0	1,676	1,676
1D-cm-o: Glazing-Double pane, ope metal frame no break, ground re outdoor insect screen with 50% shade screen coefficient of 0.45	erable window, clear, eflectance = 0.32, coverage, external	22	784	0	586	586
11P: Door-Polyurethane Core		40.8	486	0	344	344
13A-5ocs: Wall-Block, board insulation only, R-5 board insulation, open core, siding finish		1498.8	7,682	0	3,429	3,429
16B-30: Roof/Ceiling-Under attic or Attic, No Radiant Barrier, Dark Dark Metal, Tar and Gravel or I insulation	knee wall, Vented Asphalt Shingles or	2497.3	3,276	0	4,235	4,235
22A-ph: Floor-Slab on grade, No ed insulation below floor, any floor moist soil		206	11,469	0	0	0
Subtotals for structure:			28,412	0	13,927	13,927
People:		7		1,610	2,100	3,710
Equipment:				0	1,926	1,926
Lighting:		3600			12,276	12,276
Ductwork:			9,093	0	6,709	6,709
Infiltration: Winter CFM: 380, Sum	mer CFM: 169		17,054	5,722	3,325	9,047
System 1, Zone 1 Load Totals:			54,559	7,332	40,263	47,595
Check Figures						
Supply CFM:	1,845		A Per Square			739
Square ft. of Room Area:	2,497		are ft. Per To		1	573
Valuma (#3) of Cond Space:	25 350	Air 7	Turnover Rate	(per hour).		44

Check Figures Supply CFM: Square ft. of Room Area:	1,845 2.497		CFM Pe	r Square ft.: ft. Per Ton:	0.739 573
Volume (ft³) of Cond. Space:	25,350			over Rate (per hour):	4.4
Zone Loads				Supplies to the second of the second	Astronockie (4 dien
Total Heating Required:	54,559	Btuh	54.559	MBH	
Total Sensible Gain:	40,263	Btuh	85	%	
Total Latent Gain:	7,332	Btuh	15	%	
Total Cooling Required:	47,595	Btuh	3.97	Tons (Based On Sensible	+ Latent)
			4.36	Tons (Based On 77% Ser	

Notes

Calculations are based on 8th edition of ACCA Manual J.

All computed results are estimates as building use and weather may vary.

Be sure to select a unit that meets both sensible and latent loads.

Elite Software Development, Inc.
Tyre

System 1 Room Load Summary

	Room Name	Area SF	Htg Sens Btuh	Htg Nom CFM	Run Duct Size	Run Duct Vel	Clg Sens Btuh	Clg Lat Btuh	Clg Nom CFM	Sys CFM
	ne 1		0.404	406	2-6	525	4,495	1,329	206	206
1	Master Bedroom	270	8,131	106		425	810	158	37	37
2	His W.i.c	38	1,322	17	1-4	529	566	0	26	26
3	Her W.i.c	37	125	2	1-3		1,936	254	89	89
4	Master Bath	144	2,558	33	1-6	452	2,447	660	112	112
5	Laundry Room	150	5,664	74	1-6	571		254	116	116
6	Nook	86	2,959	39	1-6	593	2,540	230	154	154
7	Kitchen	159	318	4	1-7	575	3,352		105	105
8	Dining Room	186	3,112	41	1-6	537	2,300	288	71	71
9	Foyer	96	1,523	20	1-5	522	1,553	148		231
10	Great Room	484	6,053	79	2-6	589	5,044	601	231	
11	Study	132	4,315	56	1-8	505	3,847	702	176	176
12	Bedroom 4	189	5,977	78	1-7	542	3,161	896	145	145
13	Bath 2	67	1,312	17	1-4	448	853	148	39	39
	Bedroom 3	192	3,216	42	1-7	452	2,634	547	121	121
14		195	6,588	86	1-7	577	3,367	969	154	154
15	Bedroom 2	45	1,277	17	1-4	682	1,298	148	59	59
16	Bath 3	27	109	1	1-1	462	55	0	3	3
17		21	100				106			
	AED Excursion							7 000	1 045	1,845
	System 1 total	2,497	54,559	712			40,369	7,332	1,845	1,045
2200000			10v18 in							

System 1 Main Trunk Size:

Velocity: Loss per 100 ft.: 19x18 in.

846 ft./min

0.066 in.wg

Cooling System Summ	Cooling	Sensible/Latent Split	Sensible Btuh	Latent Btuh	Total Btuh
Net Required:	3.98	85% / 15%	40,369	7,332	47,701
Recommended:	4.37	77% / 23%	40,369	12,058	52,427
Actual:	4.63	72% / 28%	40,000	15,500	55,500

Equipment Data	Heating System	Cooling System
Type:	air source heat pump GSH130601+ARUF486016+HKR-10	Air Source Heat Pump GSH130601+ARUF486016
Model:	Goodman	Goodman
Brand: Efficiency:	8.5 HSPF	13 seer
Sound:	0	55.500
Capacity:	55.500 n/a	40,000 Btuh
Sensible Capacity: Latent Capacity:	n/a	15,500 Btuh



Jacksonville, Florida Main Office

480 Edgewood Avenue, South • Jacksonville, Florida 32205 • 904-355-5300 • 904-353-1488 (Facsimile)

St. Marys, Ga. - 912-576-1300 • Daytona Beach, Fla. - 386-788-8303 • Melbourne, Fla. - 321-951-3325 Ocala, Fla. 352-351-4386 • Port St. Lucie, Fla. - 772-621-7905 • Tampa, Fla. - 813-681-6381 Toll Free: 800-225-5305 • www.turnerpest.com

PRE-TREAT REQUEST (Soil Treatment)

Date: 10/20/08	Builder: House Craft Home	Price:		
Contact:	Nextel:	Cell:		
RESIDENTIAL	COMMERCIAL	Plan#		
Subdivision: Lake City	Project:			
Lot#	Building#			
	Le Teffery Rd	Permit # 2740 (
Address. 9010 MW. Eur	a seffery Rd	(Communication)		
		Date Ready:		
		Date Siding / Insulation		
		Type of		
		Construction:		
		Basement		
		Crawl		
		Slab		
		○ Mono		
		Floating		
		Other		
	ront Entry			
		Foundation Walls:		
		Block		
		Other		
		Date Completed:		
		Date Completed.		
TERMITICIDE USED: Premise	Pro			
SQUARE FOOTAGE: 2637	LINEAR FOOTAGE:/	84		
CONCENTRATION% (17)	VOLUME:			
TOTAL GALLONS OF SOLUTIONS APP	LIED: 188			
APPLICATION TYPE: Pre 5501	£ 5010 0			
TYPE OF TREATMENT:	reat	A		
Comments:	Technician Signatu	re: Whying of		
		a series of		
rder from Rush To Excellence Printing				



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-16-02045-104

Use Classification SFD,UTILITY

Permit Holder HOUSE CRAFT HOMES

Owner of Building JEFF TYRE

Location: 5813 NW LAKE JEFFERY RD., LAKE CITY, FL

Date: 02/20/2009

Building permit No. 000027401

Fire: 51.36

Waste: 134.00

185.36

Salar Ashire

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)

Permit#	
User ID	

DATE

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

		de approved products are listed onlin Product Description	Approval Number(s)	X
Category/Subcategory	Manufacturer	Product Description	Approval reunioci(s)	+-
1. EXTERIOR DOORS		F-4 B	FL. 4940.4	+
A. SWINGING	Masonite	Entry Door		-
B. SLIDING	HR Danvid	502 SGD	FI 6396.5	-
C. SECTIONAL/ROLL UP	Overhead Door	Garage door	FL 674	╀
D. OTHER				+
2. WINDOWS				
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	_
3. PANEL WALL	-			
A. SIDING				
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				7
C. ROOFING TILES	_			1
D. SINGLE PLY ROOF				
E. OTHER				1
L. OTTEN				
5. STRUCT COMPONENTS		1		_
A. WOOD CONNECTORS				_
B. WOOD ANCHORS	Simpson	Truss anchors	1901.17 1901.45	
C. TRUSS PLATES			1901.25 1901.21	
D. INSULATION FORMS				
E. LINTELS	Cenemt Precast	Concrete lintels	FL. 4569	
F. TRUSSES	Thomas E. Miller	engineer	PE 56877	
6. NEW EXTERIOR			LA BUILDING	1
ENVELOPE PRODUCTS		(3)	Received of	
A.		/=/	for E	1

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.

requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.				

APPLICANT SIGNATURE

WINDOWS, DOORS, AND MULL BARS INFORMATION

1808 300% SINBET WES BRADENTON, PL. 34207 PRONE: (941) 728-1691 BELLIZIONS DESCRIBLION EVELENEE SCHEDULE VAD INSLVITVLION DELVIT NOWVNDEX BIE BOVE HEE TORINON SINGER SEBIES: 434 434 SINCTE HING PSF) PASTENCE SCHEDULE AND Wo Kit. 26, 0.0 MAX UNIT UNDER NO. SE AND 45 SE ANCHORS 38-1/4" 8/9-09 MOTH (HEIGH ARROWS AND THE 26" 83 # 10 P.H. S.M.S.
W/1-1/2" MIN. EMBEDMENT
SEE ELEVATION FOR
ANCHOR SPACING. 1) SHIM AS REQUIRED, MAX. SHIM STACK 1/4.

2) ALL ALDMINUM EXTRUSIONS ARE ALLOY 6062-T5

0) USE HIGH QUALITY CAULK HEHIND WINDOW FLANCE. [WINDOW TRANSON OF AGES THICKNESS BASED ON TABLE ELSOO GLASS

4) GLASS THICKNESS BASED ON TABLE ELSOO GLASS

CHARTS, AND MAY VARY DEPENDING ON SIZE.

6) THE RESPONSIBLITY FOR SELECTION OF NOBANDEX 19PRODUCTS TO MEET ANY APPLICABLE LOCAL LAWS, 28BUILDING CODES, ORDINANCES OR OTHER SAFETY
REQUIREMENTS REST SOLELY WITH THE ARCHITECT, 53BUILDING OWNER OR CONTRACTOR.

6) A PRESSURE TREATED WOODEN BUCK OR MARBLE 19SULL SHALL BE ADDED UNDER THE PRODUCT TO
FULLY SUPPORT UNIT. THIS SUPPORT SHALL BE
FIRELY ATTACHED INTO MASONARY AND SUPPORT THE PRODUCT OVER ITS FULL LENGTH (SUPPLIED BY OTHERS).

7) CONNERTE COMPRESSIVE STRENGTH = 9,000 PSI 28AT 28 DAYS. 4 SECTION BY BUCK HEATH SEE CALL BY BUCK 3/16" TAPCON W/1-1/4" MIN. EMBEDMENT SEE ELEVATION FOR FOR ANCHOR SPACING. SECTION NIHS 1/4, NVX BUCK EMBEDMENT I/4 SHIR BY HEADER MIN. 1-1/2" MIN. EM SEE ELEVATION FOR ANCHOR SPACING. Q SEE NOTE TYP. VENT HIEGHT SILL SECTION 1.500 JUHS _+/T BUCK 3/16" TAPCON WITH A
MIN. 1-1/4" MIN. EMBEDMENT
SEE ELEVATION FOR
ANCHOR SPACING. 1.940 BY AND Q PAGE TEADER .750TYP 4 (CSH) 4 CVIT SIZE HEICHL

NORANDEX

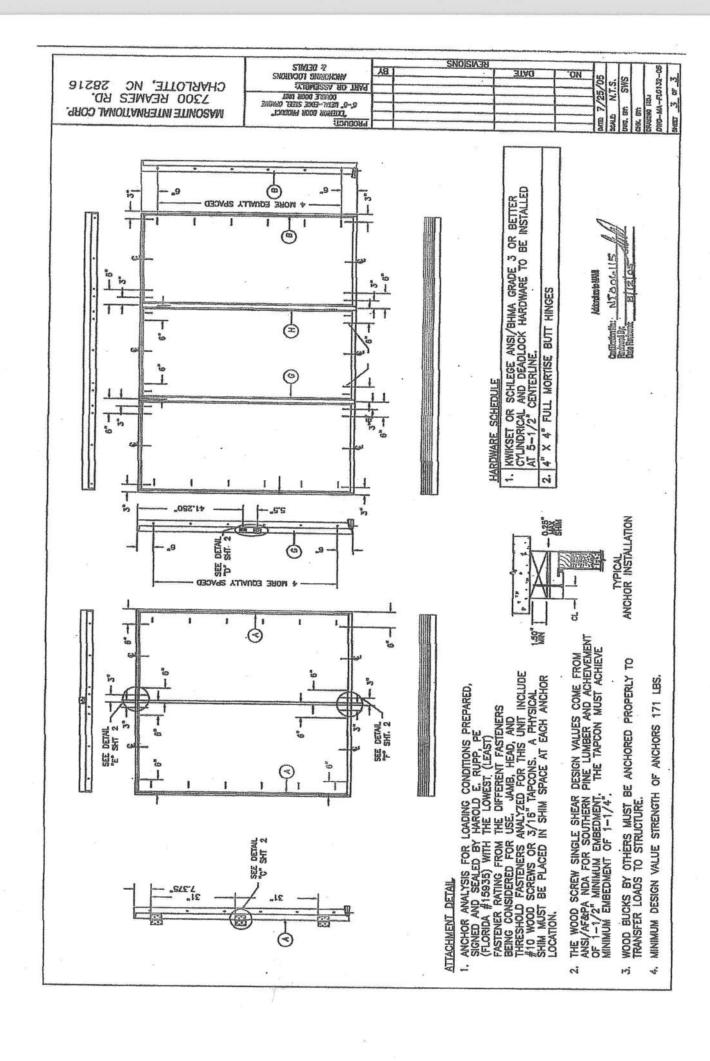
HEALTHOUS DESCRIPTION LVZLENEH SCHEDNTE VND 1091-224 (100) IZHORA A0298 "SA WOAHERVER NOBVNDEX INSTALLATION DETAIL NTH WE THO MW/ ite veeg 'ELL'H iETTOC 10/EE/E1 iELVE randa roderar 22 yes 404 434 BIXED MINDOM ELVETON PASTENER SCHEDULE The state of the s 30 00 BE NO. ANCHORS
HEAD/SILL
SEE NOTE 8
36
(PSF) (PSF) 0,9 હ્યું હૈયું હૈયું હૈયું 8 8 8 8 6 8 HAR COUR 02 04 00 76-3/4" 80-6/8 (NCHES) (NCHES) DIMENSIONS 88 g 19-1/8° 28-1/2° 37 NOTES:
1) SHIM AS REQUIRED, MAX SHIM STACK 1/4.
2) ALL ALIMONUA EXTRUSIONS ARE ALLOY 6063—TS
0 OF TO WITH TYPICAL WALL THICKNESS OF 0.63".
3) USE HIGH QUALITY CAULK BEEND WINDOW FLANCE
4) GLASS THICKNESS BASED ON TABLE E1300 GLASS
CHARRS, AND MAY VARY DESCRIBING ON STREE
5) THE RESPONSIBILITY FOR SELECTION OF NORANDEX PRODUCTS TO MEET ANY APPLICACLE LOCAL LANS REQUIREMENTS REST SOLLEY WITH THE ARCHITECT, 55
BUILLING OWNER OR CONTRACTOR WANGER SAFETY
REQUIREMENTS REST SOLLEY WITH THE ARCHITECT, 55
BUILLING OWNER OR CONTRACTOR WANGER SAFETY
FINALLY SUFFORT UNT. THIS SUFFORT STALL BE PRODUCT TO FULLY SUFFORT UNT. THIS SUFFORT TO FULLY SUFFORT UNT. THIS SUFFORT TO FULLY SUFFORT THE PRODUCT OVER HIS PULL LEASTH (SUPPLIED BY OTHER SHAFT) (SUP 4 2 BY BUCK TYP, JAMB, SECTION CALL SIZE WIDTH #/1-1/4" MDN. EMBEDMENT SEE ELEVATION FOR ANCHOR SPACING HEADER SECTION SHIM 1/4, NVX Π BY BUCK 1 BY BUCK (C # 10 F.H. S.M.S.
W/1-1/2" MIN. EMBEDMENT
SEE ELEVATION FOR
ANCHOR SPACING. W MAX (BOTH JAMES) SEE NOTE TYP. 2 W 3/16" TAPCON SILL SECTION TUHE .+/I BUCK 3/16" TAPCON WITH A MIN. 1-1/4" MIN. EMBEDMENT SEE ELEVATION FOR ANCHOR SPACING. — BY AND . TEADER (C.S.H.) (e) \bigcirc

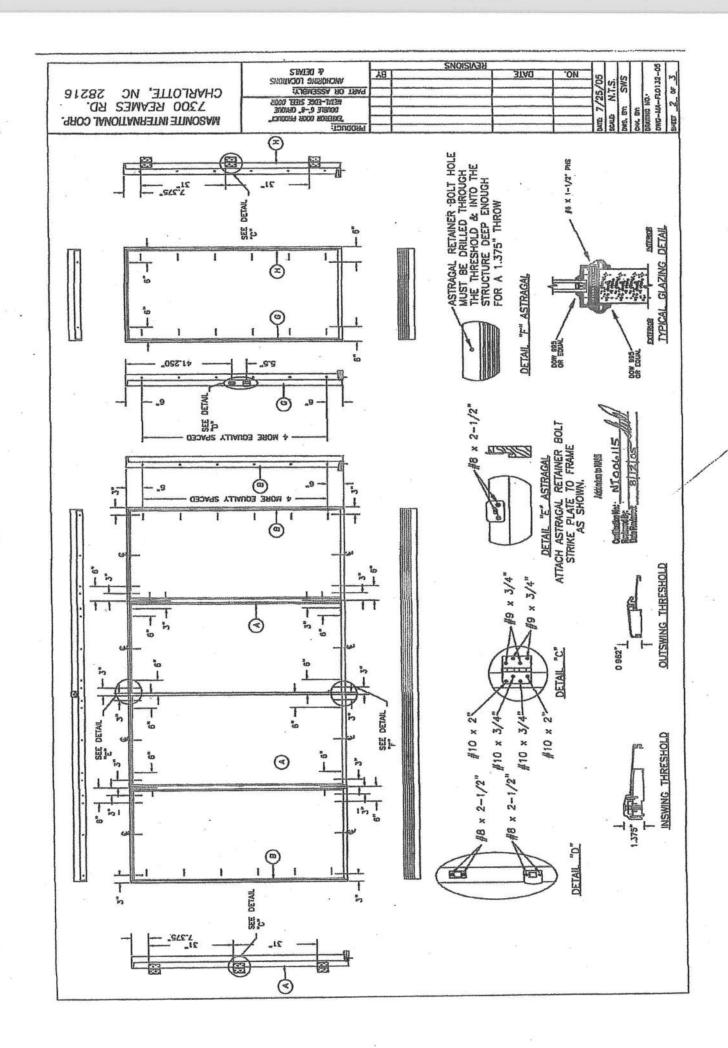
PAGE 21

BEALSIONS DESCRIBLION bbone: (941) leg-1691 Bbabenton, pl. 34807 Brabenton, pl. 34807 EVELENER SCHEDULE INSTALLATION DETAIL DRC BLI PRC BLI SCIEN W.L SO/11/8 RIN NOBVNDEX ETV-42 VACHOR CTIP VERTINAR SINGES BANG SEBIES: RATTION STAG ON ARBLICTYT MOTTION NUMBER AND TYPE OF FASTENERS 1) ALL ALUMINUM EXTRUSIONS ARE ALLOY 6063 T6, OR 6063 T5.
2) WHEN THERE IS ONE TAPCON (1/4s" X 1-1/2") ON EACH ANGLE LEG, THE TAPCON SHALL BE PLACED ON MULLION CLIP CENTERLINE.
3) CONCRETE COMPRESSIVE STRENGTH = 3,000 PSI AT 25 DAYS. VERTICAL MULLION SCHEDULE TYPE OF MULLION TYPE OF CLIP FLA-45 MINDOW DESIGN PRESSURE 010101010 818181818 818181818 0 0 0 0 0 8 8 8 8 8 8 8 8 8 8 PSF 35 CA. P. 38-1/4" 50-5/8" 38-1/4 50-5/8 78-374 26 38-1/4 50-5/8 78-3/4 26° 38-1/4° 50-5/8° 76-3/4 HEIGHT WIDTH 53-1/8 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 FASTENERS WINDOW 3/8"MM. -3/4"MAX WINDOW L3/8"MIN. 1-1/8" MULLION (XFLA-26-1) --MULLION (XFLA-39) -7/8"/ -7/8" Δ Δ Δ 5/8"斗 *****.8/9 Δ CAULK BOTTOM-OF MULL CAULK TOP-OF MULL #10 X 3/4" TEK SCREW -PRECASTED-SILL X X #10 x 3/4" TEX SCREW -MINDOW WINDOW

NORANDEX PAGE 29

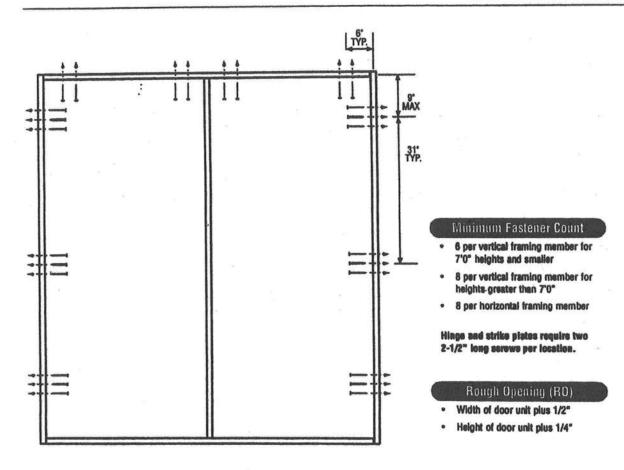
S S S S 1 6 S NAL CORP.	MASONITE INTERNATIO	CENERNT HOLEZ CENERAT ENCERTER FERCE ZHET DOOB ROTE ÇA, CANTOE ROTE DOOB LHODRICL	EDUGORY BIX3"	DATE	00	DATE 7/25/05 SOUR 7/25/05 SOUR N.7.5. DIVE. BY DEPARTMENT DEPARTME
	. HEIGHI 79.250°	BRV4 'XWI	***	1		
TRIME WIDTH 37.5" MAX.			Address Mandan b B.M. Control of the		. DOUBLE DOOR UNIT W/SIDEUTES	PRESSURE HING - 45.0 - 45.0 - 55.0 - 55.0 - 55.0
21" MAX 35.375" MAX D.L.O PANEL WIDTH WASTRAGAL.			DOUBLE AISWING UNIT W/SIDELITES		SINGLE DOOR UNIT W/SIDELITES	HIGH REPERTER HIPTRATION PERFORMANCE TO DESIGN HIGH AND A 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0
	AME HEIGHT 81.875"————————————————————————————————————	H4 7007 LH			SINGLE DOOR UNIT	MAX WOTH HISMING OUTSING 37.5 +78.0 1 -78.0 +78.0 7 7 7 7 4 78.0 1 -28.0 +88.0 7 7 7 7 4 78.0 1 -28.0 1 48.0 1 12.5 +48.0 1 -38.0 1 48.0 1 12.5 +48.0 1 -38.0 1 48.0 1 14.9 14.9 14.9 14.9 14.9 14.9 14.9 14
DOOR UNIT	NG TD PRESSURE , MINIMUM , MINIMUM STRUCTURES, S LISTED, IS NOT REQUIRED ON ZED SIDELITES OF 50 ASTA E84,	RESULT 880 'F 1.10 BY MAIN 16.10 BY MAIN 16.50 BY WEATHERING			SINGLE DOOR LINIT	CONFIG X X X XX CX er XO CXC CXC
SIDE-HINGED METAL-EDGE STEEL DOOR UNIT 6'-8" DOUBLE DOOR WITH WITHOUT SIDELITES	GENERAL MOTES 1 ENALMATED FOR USE IN LOCATIONS ADHERING TO THE ROTED SUILDING CODE AND WHERE PRESSURE RECUREMENTS AS DITEMBLED BY ASCE, 7, MINIMAIN BESING LANDS FOR BUILDINGS AND OTHER STRUCTURES, DOES NOT EXCEED THE DESIGN PRESSURES LISTED. 2 HURSHCANE PROTECTIVE SYSTEM (SAUTTERS) IS NOT REQUIRED ON COLVARETAME CORE FLAME SPREAD INDEX OF SO AND SHOKE DEVELOPED INDEX OF 80 4 PLASTICS TESTING OF LIE FRAME MATEMAL.	TEST DESCRIPTION DESCRIMATION RESULT SELF INDICATION TEMP ASTA D1929 860 °F > 66 FEATE OF BURNING ASTA D639 69.69 FEATE D19343 69.69 ITM IDMINISTREMENTH* ASTA D639 7.10 IN/AIM STREMENTH* ASTA D639 7.468 DIFF COMPARATIVE TENSILE STREMGTH AFTER WEATHERING 4500 HOURS XENDIN ARC METHOD 1			SINGLE DOOR UNIT DOUBLE DOOR UNIT	SHEEF # TABLE OF CONTEXTS SHEEF # DESCRIPTION 1 TYPICAL ELEVATIONS 2 ANCHORNO LOCATIONS & DETAILS 3 ANCHORNO LOCATIONS & DETAILS







DOUBLE DOOR





Text Data Review Cartificate #3028447A; #3028447B; #3028447C and COP/Text Report Validation Matrix #3028447A-001, 002, 003, 004; #3028447A-001, 002, 003, 004; gravides additional backmanner - realizate from the ITE/MH vestalts (www.elsentio.com), first Mascritte website (concurrence).com) or the Mascritte technical carrier;

Latching Hardware:

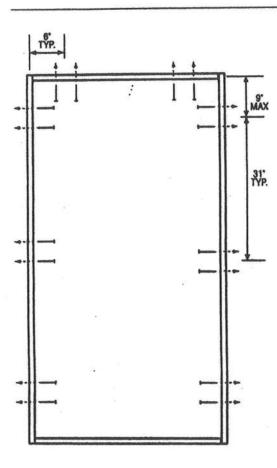
- Compliance requires that GRADE 3 or better (ANSI/BHMA A158.2) cylindrical and deadlock hardware be installed.
- UNITS COVERED BY COP DOCUMENT 8247*, 8267*, 3242*, 3247, 3262* or 3267
 Compliance requires that 8" GRADE 1 (ANSI/BHMA A156.16) surface bolts be installed on latch side of active door panel (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).
- 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.



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"



Text Data Review Contilicate #3028447A; #3028447B; #3028447C and COP/Test Report Validation Matrix #3028447A-001, 032, 003, 004; #3028447B-001, 002, 003, 004; #3028447C-001, 002, 003, 004 provide additional information - available from the [13/WH website (www.eduemto.com), the Mascrate website

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°, 8256°, 3241°, 3246, 3251° er 3256
 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.
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Notes:

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- 3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

Masonite.

NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO:

NI006592

DATE:

06/16/2006

CERTIFICATION PROGRAM:

Structural

COMPANY:

Atriam

CODE:

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 seel represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The product described below is approved for Hoting in the Directory of Cartified 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 & Deors-Florida 3600 Port Jacksonville Parkway Jacksonville, FL 32226	"Mark 40/50 Premium" Aluminum Single Hung Standard Flunge 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/LS.2-97/ AAMA 1302.5-76 Slass Compiles 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 Suite 202 Newport News, VA 23606 TEL: (757) 594-8658 FAX: (757) 594-8659

GARAGE DOORS INFORMATION

COMMERCIAL & ISSISSIBLES CARREST CHOR SIVINGS TECHNICAL DATA SHEET #1550

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

Mean Rouf Height	Door Size	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPTI	150 MPH
Les than	Single	1				-30.2	-35.1	-40.2
	9'x7'	-14.5	-17.9	-21.6	-25.8	-30.2		344
	Double /	-13.7	-16.9	-20.4	-24.3	-28.5	-33.1	-38.0

Decisio pressures above are his Pes

Taking, if required by local authority, may be performed to ASTM E-330, or professity DASMA 108.

.nuser . od cyclic wind pressure testing on glazed doors may be performed to ASTM E-1886, or professity 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)
- foral test duration for each test direction shall be as follows:

 - A. Total of 3600/V spounds, 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 is 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 saide is provided for reference purposes only. In all cases the local building authority is the sole and final determinor of the struct: ral and safety requirements, and suitability of the garage door.

sales

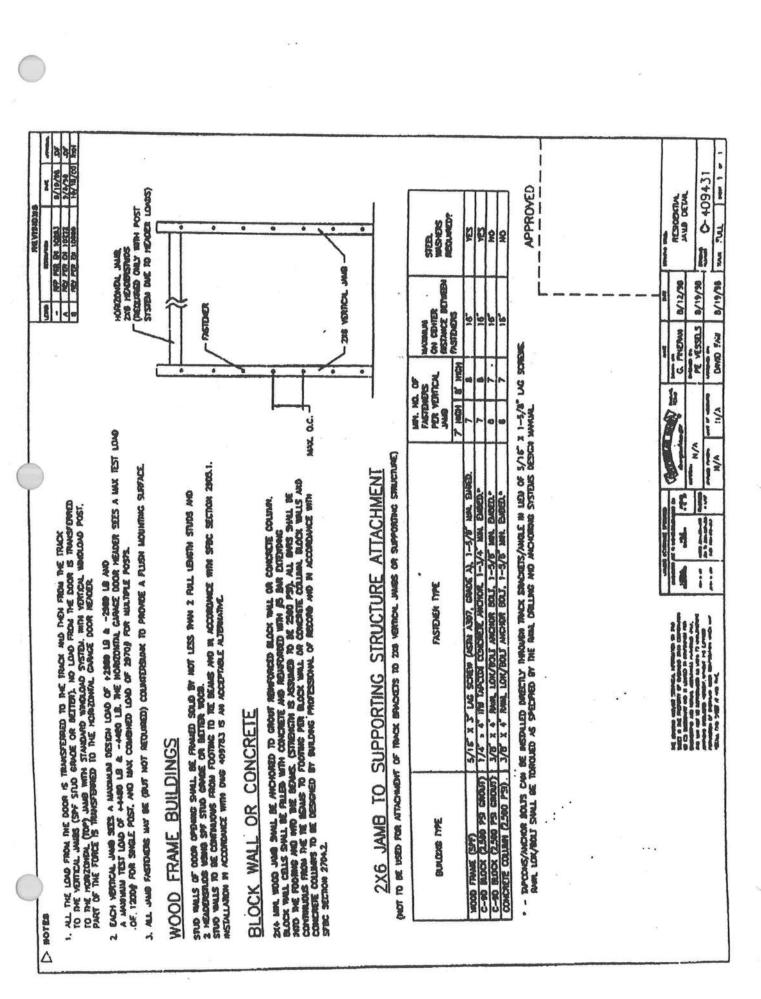
- Juliu Wind I reeds above are three personal peals-gust values
- regainer pros tures assume door has 2 fost of width in building's and upne. wares cours evaluated as attached to makead buildings with a Use Paster
- Doors larger than 100 square feet should use the 16×7 tends. Doors tess than 100 square for may be interpolated.
- Gerage deers evaluated se Composents and Cladding
- Installation details very. Countle munufacturer's instructions.

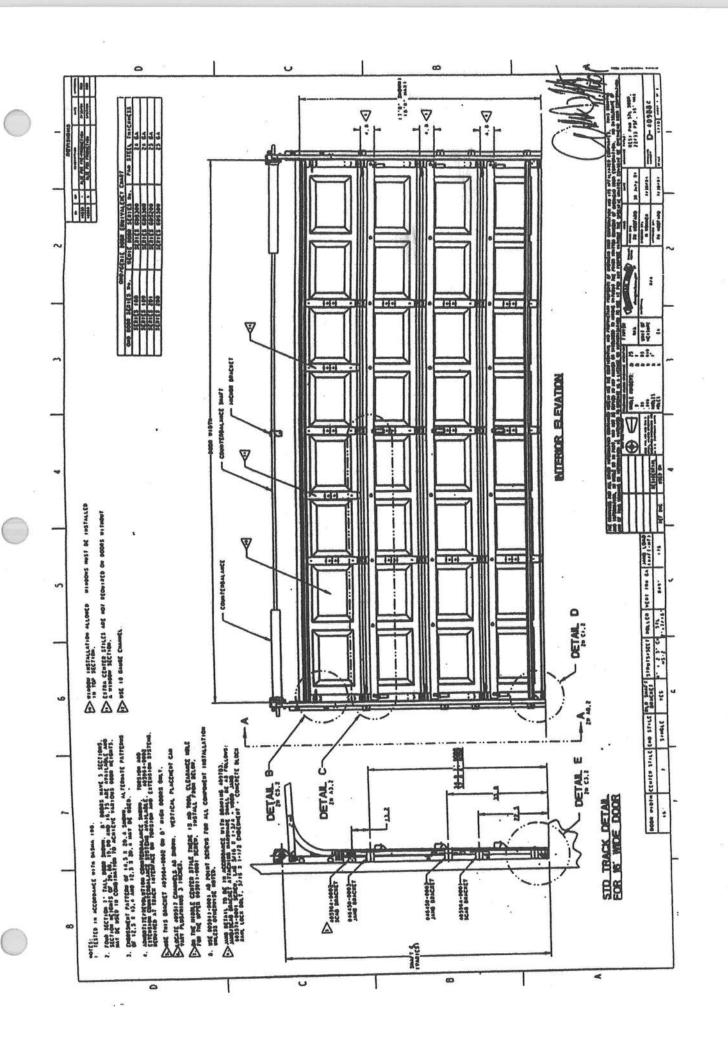
For more information, contact DASMA, 1300 Sumper Aveste, Cleveland OH 44115-2851 Phone (216) 241-7333 E-mail: dasma@dasma.com Fax (216) 241-8105 URL: www.dasma.com

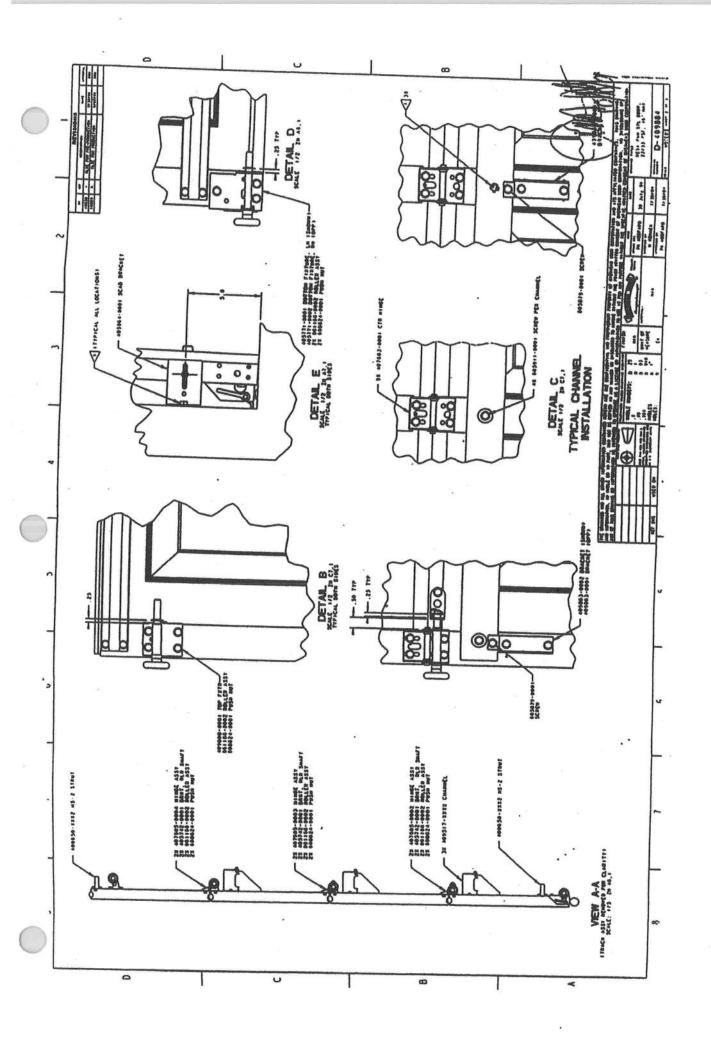
Total Test mices Outs Sheets are information tools only and about not be used as anisotheras for instructions from individual manufacturers. Abonya consult with in the land manufacturers for specific recommendations for their products and check the applicable local regulations.

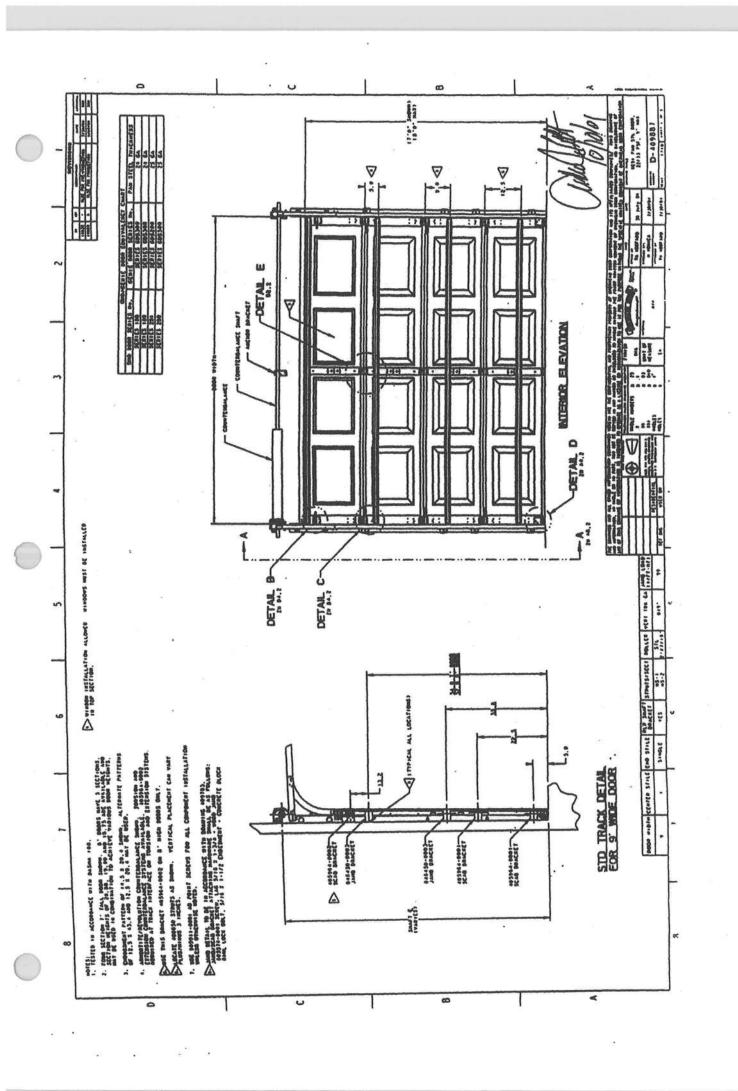
This Techn is Date Sheet was prepared by the members of DASMA's Commercial & Residential Garage Door Obtains Technical Committee. DASMA is a trade association religious for manufacturers of rolling doors, live doors, giftee, counter shutters, sheet doors, and religious products; apmard-noting residential and commercial garage doors; process for garage doors and gales, seasing davious, and electronic remote controls for garage doors and gale operators; as well as composite that manufacture and installation of the Active Members' products.

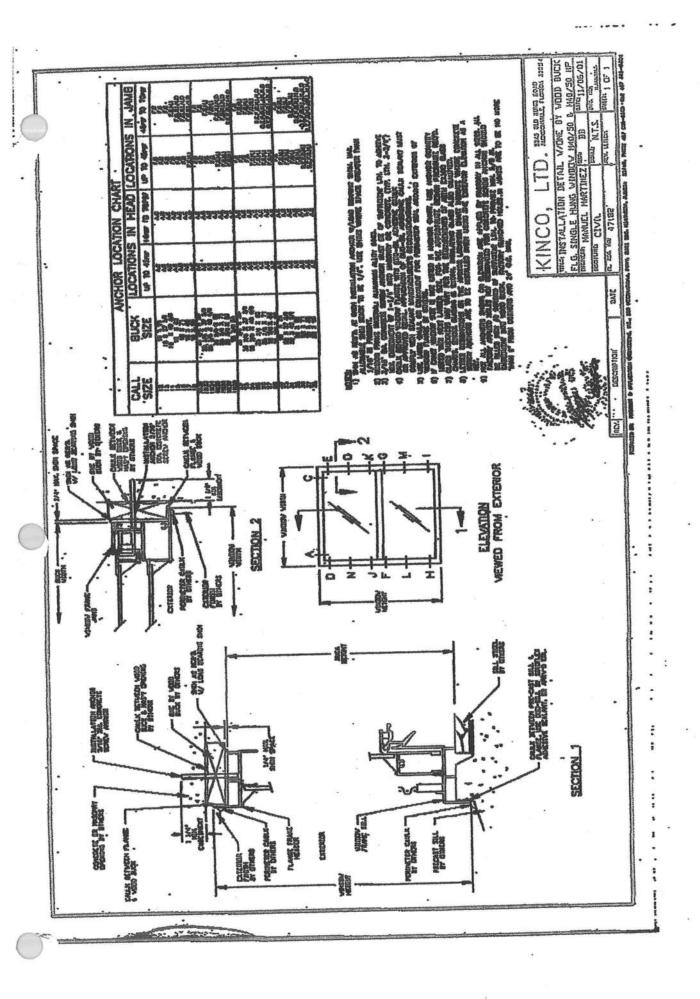
... Page 2 319

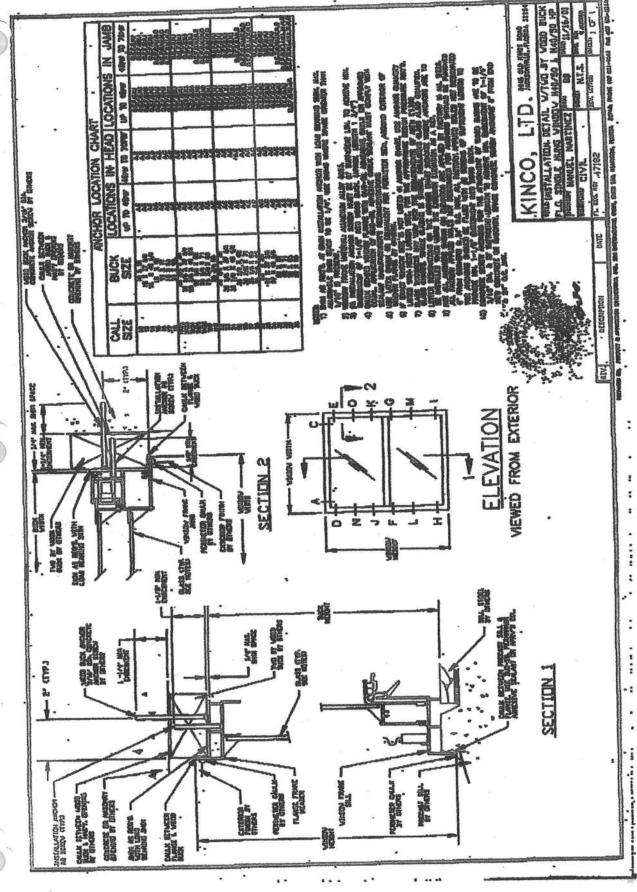






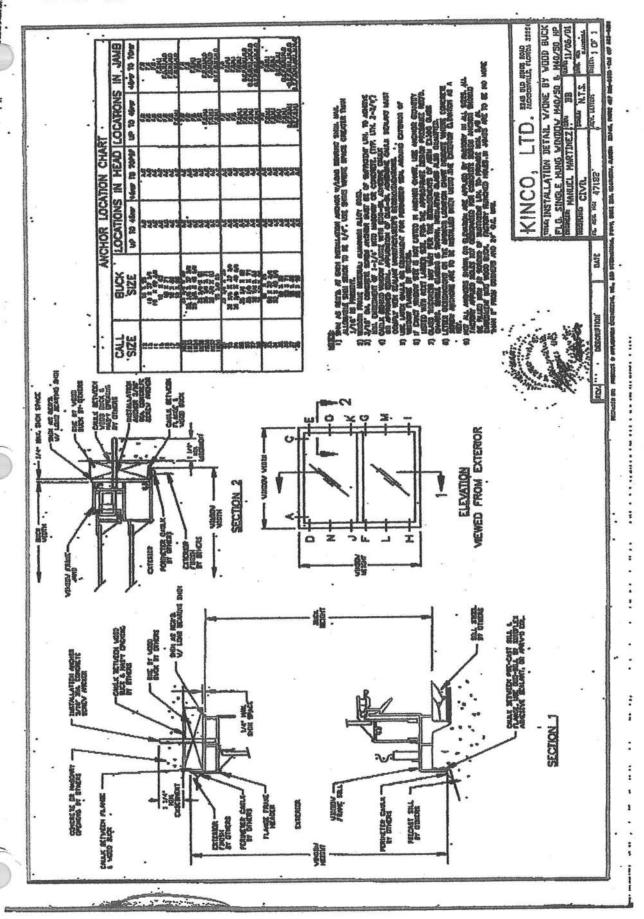






NOLLATEDSHE SA EVELENEE SCHEDOTE INSTALLATION DETAIL AND NOWWNDEX FLA-46 ANCHOR CLIP HORIZONTAL MULLION enne stant minum Noltzom :Silies SH HEAD DW SILL TEK SCREW NUMBER AND TYPE OF FASTENERS 来ざ (XFLA-26-1) 1x5 MULLION (XFLA-39) 1x4 MULLION HORIZONTAL MULLION SCHEDULE 1-15/16" FASTENERS . SEE CHART FOR WINDOW DESIGN PRESSURE TYPE OF CLIP S CAPACITY LB. MAX MOLLIUM FASTENERS
4 SHOWN 1x3 MULLION (XFLA-26-1) 1x4 MULLION (XFLA-39) 800 SINGLE MINDOW WIDTH MICH 1-16/18" S, 平1/4" MENUN EXTRUSIONS ARE ALLOY 6063 TG, CLIP CENTERLINE. SIVE STRENGTH = 3,000 PSI TAPCON (1/40" X 1-1/2")
THE TAPCON SHALL BE
CLIP CENTENLINE. #10 × 3/4"-TEK SCREW PAGE 30 SH HEAD DIE SILL **a** ଚ

NORANDEX



BELIZIONS DESCRIBLION EVELENEE SCHEDATE ATH AND THE STATE OF THE THE STATE OF INSTALLATION DETAIL NOBVIDEX PLA-45 ANCHOR CLIP ABBLICTYT MATTION NUMBER AND TYPE OF FASTENERS 1) ALL ALMINIUM EXTRUSIONS ARE ALLOY 606S T6, OR 606S T6. CENTYE STRENOTH = 2,000 PSI MULLION SCHEDULE CLIP FLA-45 UNIT TYPE OF MULLON TYPE OF WINDOW DESIGN PRESSURE WHEN THESE ON EACH AN PLACED ON I CONCRETE OF AT 28 DATE. VERTICAL 이 이 이 이 이 이 하 보 보 보 보 이 이 이 이 이 이 PSF 38 HEIGHT WIDTH 19-1/8 53-1/8 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 WINDOW -3/4"MAX 3/8"MIN - WINDOW HEAD B'MIN FASTENERS 1-3/8"MIN. 1-1/8" MULLION (XFLA-26-1) MULLION (XFLA-39) 7/8" 0 Δ Δ 下,8/9 CAULK BOTTOM-OF MULL CAULK TOP -OF MULL #10 X 3/4" TEK SCREW -PAGE 29 PRECASTED-SILL KE #10 x 3/4" TEX SCREW WINDOW-MANDOW

NORANDEX



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, LST149, LST173, MST126, MST136, MST148, MST160, MST172, 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



Ammification instructions for

Phillipsburg, KS E STATE OF THE STA

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.

l reof deed

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

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

PLYWOOD: All plywood shall be exterior grade as defined by the American 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.

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.
- 3. Potting 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.

D PECTE ES

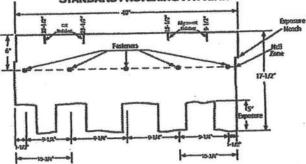
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the advertises this 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 fasieners. (See standard fastening pattern illustrated below).

STANDARD FASTENING PATTERN



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

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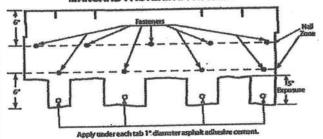


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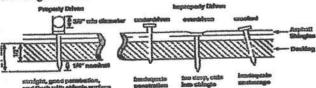
Phillipsburg, KS

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. UNDELLAYER

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:

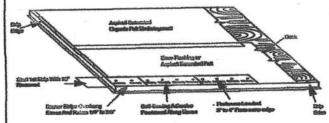
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphali saturated organic felt
- TANKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Pluse (additional ventilation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

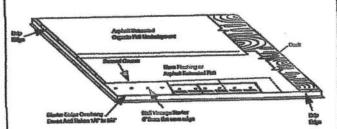
In areas where ice builds up along the eaves or a back-up of water from frozen or clogged guiters is a potential problem, TAMKO's Moisture rozen or ciogged guiters is a posinial problem, LAMKO's Mosture Guard Plus⁹ waterproofing underlayment (or any specially eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or domers to help prevent water demage. Contact TAMKO's Technical Services Department for more information.

TAMKO does not recommend the use of any substitute products as chingle underlayment.

S. APPLICATION LIP TRUCTIONS
STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles.
The first starter course may consist of Talkko Shingle Starter, three

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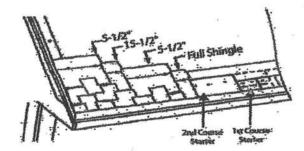
220 West 4th St., Joplin, MO 64801 4500 Tamko Dr., Frederick, MD 21701 2300 35th St., Tuscaloosa, AL 35401 7910 S. Central Exp., Dallas, TX 75216 5300 East 43rd Ave., Denver, CO 80216 800-641-4691 800-368-2055 800-228-2656 800-443-1834 800-530-8868



(CONTINUED from Pg. 2)

• HER TACK WILLIAM 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 3/6 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 3/6". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake has a 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.



v. Low Slove 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 ship along the caves 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 if. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from caves 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 camented feits.

7. TELLEY EPPLICETION

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 matal (26 gauge galvanized matal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

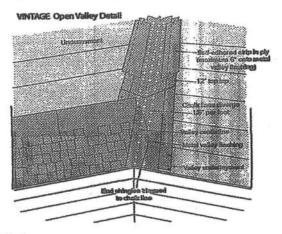
Following valley metal application; a 9° to 12° wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley tlashing (max. 6° onto metal valley flashing) and on top of the valley underlayment. The valley will be completed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

SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)

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

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

- Clip 1" from the upper corner of each shingle on a 45" angle to direct water into the valley and prevent it from penetrating between the courses.
- Form a tight seal by comenting the shingle to the valley lining with a 3" width of asphalt plastic coment (conforming to ASTM D 4566).



- CAUTION:

Adhesive must be applied in smooth, thin, even layers.

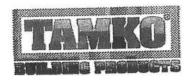
Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

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(CONTINUED from Pg. 3)

ERITAGE VINTAGETM AR-Phillipsburg, KS HAM WATER OF THE SHIP WATER

8. HIP AND RIDGE PASTICLES 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 tastener on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

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

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

Direction of prevailing wind



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

TAMKO®, Moisture Guard Plus®, Nail Fast® and Heritage® are registered trademarks and VintageTM is a trademark of TANIKO Building Products, Inc.

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INTERIOR WALL INSULATION INFORMATION





R-Matte® Plus-3

Sheathing Insulation

07212/RMRP

40 00 at 00 a

MANUFACTURER

Rmax, Inc. 13524 Welch-Road; Dellas, Texas 75244-5291

Phone - 972-387-4500

800-827-0890 (Central)

800-762-6482 (Western)

800-848-4455 (Eastern) 800-7 Ernall: rmex@rmexide.com Web Site: http://www.rmexide.com

PRODUCT DESCRIPTION

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

R-Matte® Plus-3 utilizes a new and environmentally triendly 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 (0) 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: As Rmax products must be tarped, placed on sidds, and kept dry before and throughout construction.

Technical Data

Property	Test Method	Resulte
Density, Overall, Nominal	ASTM D1622	2.0 pol
Compressive Strength	ASTM DIEZI	30 pel (Avg.)
Flame Spreed, Core	ASTM ESA	35 or less
Smake Developed	ASTN EN	40-110
Weler Vapor Transmission	ASTM ESI	< 1 parm
Weter Absorption	ASTM C209	< 1% Vol.
Dimensional Stability	ASTM 02136 7 days, 158°F, 8816 m	Linear Change
Service Temperatures		-40°F to +250°F

ota: Physical Properties shown are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances. Plante agreed numbers are shown for comparison purposes only and are not intended to represent the performance of R-Matle® Plus-3 and related components under actual line conditions. APPLICABLE STANDARDS

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

R-Milita® Plus-3 is eccepted as a nonetructural insulative sheathing board by the following major model building codes: National Building Code (BOCA), Section 2503; Standard Building Code (SBCCI), Section 2503; Uniform Building Code (ICSO), Section 2502.

APPLICATION / INSTALLATION
Applications - This product is designed to be covered with siding materials of wood, wood-based products, hardboard, sluminum, vinyl, brick or stucco venestre. The willto-metile finished (non-glare) side 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 vinyl sidings. The reflective sluminum side of the cheathing panel is installed to the outside of the wall when the exterior linish will be either brick or etucco.

Stud Wall Construction - R-Matte® Plus-3 is applied to the exterior face of wood or metal studs to applied to the extenor race or wood or make successor cover all stude, sitis, plates and header constructions in order to provide insulation over details not normally covered by insulation products. R-Mattee Plus-13 may be secured to the stude with bugle-head screws, galvanized roofing nails, or common neils drivers through cap washers. The interior of the stud wall system should be protected with a suitable vapor retarder.

R-Marin® Plus-3 may be applied to the Interior face of stude, metal or wood, to cover the interior face of these framing members. R-Metis® Plus-3 may be sequed with bugle-head screws, galvanized rooting nails, or construction adheaves: The interior of the stud wall system should be protected with a suitable vapor rotarder and thermal barrier.

Cavity Wall Construction - R-Matte Plus-3 is secured to the dry face of the mesonry block wall with a high grade adhesive. R-Matte-Plus-3 can be cut by simple methods to fit between mesonsy joint reinforcements placed to tie the brick veneer to the concrete block back-up. R-Matte® Plus-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-Mette® Plus-3 is applied to either the exterior face or interior face of concrete or concrete mesonry walls to provide an insulation layer over the entire striade. R-Mette® Plus-3 may be encured to the inside face of a concrete or concrete mesonry well, either over or concrete or concrete mesonry was, easer over or under the furing members, and covered with a minimum 1/2 inch gypeum wallboard interior finish. Adheeves may be used to hold the R-Matte® Plus-3 in place against the wall temporarily. However, permanent attachment of the R-Matte® Plus-3, furring, or gypeum wallboard with adheeves is not acceptable. The gypeum wallboard must be secured with suitable recentle or neith. with sulfable screws or nails,

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

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

WARRANTY

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

AVAILABILITY

Rmsite@ Plue-3 is available through an extensive distribution network. Contact Rmax Sales for product availability, pricing information, and the nearest

WARNING

DO NOT leave R-Matte Plus-3 exposed. Polyleocyanurate foam is an organic material which Polyleocyanurate foam is an organic material which will burn when exposed to an ignition source of sufficient heat and intensity, and may contribute to flames epreading. Installations utilizing Rmax Relation Plue-3 must be fully protected on the interior side of we is and roofs by a nivinum of 1/2 inch gypeum board or equivalent. Mesonry or concrete that is a minimum of one-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 onder Local Building Official for specific governing codes and require menta.

LIMITATIONS R-Mattes Plus R-Maite® Plue-S is not recommended, nor warrenied, for use as a commercial roofing insulation for use directly under mambrane systems. See Rines, inc. for suitable commercial roofing insulation products.

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

Noralnat	Thormal ¹	Bu	ndie Data	Toronto	dood Date			
Thickness	R-Value		8" x 90"]		Truckload Data (48" x 86")			
		Please	Sci. Ft.	Places	8q. P			
0.5	3.2	96	0 3,072	2,304	73,72			
0.625	4.9	76	2,432	1,824	58,36			
0.76	5.0	60	1,920	1,440	48,080			
1.0"	6.4	48	1,536	1,152	36,88			

method at 75°F mean temperature on material conditioned according to PIMA Technical Bulletin No. 101.

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, 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_{yb}:

Nail Pennyweight	Nail Shank Diameter (inch)	F _{yb} (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.

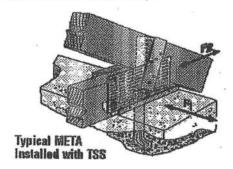
Simpson Strong-Tie

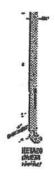
Page 5 of 15

	Y	7	·	IAE	BLE 9 ALLO	WARLE	LOADS					
	1					Fasteners	and Uplift				Latera	al Loads
Model No.	Ga	Н	160	Load Dur	ation Increase	6	133	Load Dura	tion Increase		133/160	
Model No.	Ga	н	1 Ply So. Pi	ne Truss	2 or 3 So. Pine		1 Ply So. Pin	ne Truss	2 or 3 Ply So. Pine Truss		F ₁	F ₂
			Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load	to waii)	lo wzli)
META12		8	7-10d×1%	1450	6-16d	1450	7-10d×11/2	1240	7-16d	1450	280	725
META14		10	7-10d×1½	1450	6-16d	1450	9-10d×11/4	1450	7-16d	1450	280	725
META16		12	7-10d×11/2	1450	6-16d	1450	9-10d×11/2	1450	7-16d	1450	280	725
META18	-		7-10d×11/2	1450	6-16d	1450	9-10d×11/2	1450	7-16d	1450	280	725
META20	18	16	6-10d×11/2	1270	5-16d	1245	8-10d×1%	1415	6-16d	1250	280	725
			7-10d×1%	1450	8-18d	1450	9-10d×1%	1450	7-16d	1450	280	725
META22		18	7-10d×1%	1450	6-16d	1450	9-10d×1%	1450	7-16d	1450	280	725
META24	2	20	7-10d×1%	1450	6-16d	1450	9-10d×1%	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×1%	1520	7-16d	1780	7-10d×1%	1265	7-16d	1475	280	725
HETA16		12	9-10d×11/4	1810	8-16d	1810	10-10d×11/2	1810	9-16d	1810	280	725
HETA20	16	16	8-10d×11/4	1735	7-16d	1780	9-10d×1%	1630	8-16d	1690	280	725
			9-10d×11/4	1810	8-16d	1810	10-10d×1%	1810	9-16d	1810	280	725
HETA24		20	9-10d×11/4	1810	8-16d	1810	10-10d×1%	1810	9-16d	1810	280	725
HETA40		38	9-10d×11/4	1810	8-16d	1810	10-10d×1%	1810	9-16d	1810	280	725
HHETA12		8	7-10d×1½	1565	7-16d	1820	7-10d×1%	1305	7-16d	1520	435	815
HHETA16		12	10-10d×1%	2235	9-16d	2235	12-10d×1%	2235	11-16d	2235	435	815
HHETA20	14	16	9-10d×11/4	2010	8-16d	2080	11-10d×1%	2050	10-16d	2170	435	815
			10-10d×1%	2235	9-16d	2235	12-10d×1%	2235	11-16d	2235	435	815
HHETA24		20	10-10d×11/4	2235	9-16d	2235	12-10d×114	2235	11-16d	2235	435	815
HHETA40		36	10-10d×1%	2235	9-16d	2235	12-10d×1%	2235	11-16d	2235	435	815
HETAL12		7	10-10d×1%	1085	10-16d	1270	10-10d×1%	905	10-16d	1055	415	1100
HETAL16	16	11	14-10d×1%	1810	13-16d	1810	15-10d×1%	1810	14-16d	1810	415	1100
HETAL20		15	14-10d×1%	1810	13-16d	1810	15-10d×1%	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
- 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
- 5. 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.





Page 13 of 15

Simpson Strong-Tie

					DOUBLE EM					
	Do	ouble En	nbedded Ancl	nor Instal	lation Into Gro	uted CM	U Bond Bean	1		
	Uplift - 16	Duration Incre	Uplift - 13	3 Load	Duration Incre		Lateral Loads 133/160			
Model No.	1 Ply Sout	2 or 3 Ply S		1 Ply South	hem	2 or 3 Ply S				
	Pine Tru		Pine Tr		Pine Tru	68	Pine Tr	JSS	F ₁ F ₂ (perpen to	
	Fasteners	Load	Fasteners	Load	Fasteners	Load	Fasteners	Load	veril)	woll)
META	10-10d×11/2	1985	14-16d	1900	12-10d×11/2	1985	14-16d	1900	1210	1160
HETA	10-10d×11/2		12-16d	2500	12-10d×11/2	2035	14-16d	2500	1225	1520
HHETA	10-10d×11/2	-	12-16d	2500	12-10d×11/2	2035	14-16d	2500	1225	1520

Notes:

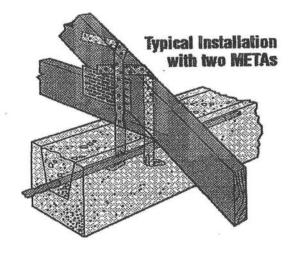
Minimum fc is 2,500psi.

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

5. 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 Masonry Chapter 22 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. Ameson, 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

The embedded truss anchor series provides an engineered method to properly attach roof trusses to concrete and massonry walls. The products are designed with staggard wall patterns for greater uplift resistance. New to this year's catalog is information regarding the use of two anchors on single- and multi-ply trusses.

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.

NATEMAL: HHETA-14 gauge; HETA-16 ga; HETAL strap 16 gauge, truss seat 18 gauge;
META-18 gauge; TSS-22 gauge.

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

INSTRULATION: • Use all specified factoners. See Germal Notes.

• The META, HETA and HHETA are embedded 4" into a concrete beam or grouted block wall; HETAL is embedded 5½s".

• Do not drive nois through the truss plate on the conposite side of the truss.

- Do not drive nells through the trues plate on the opposite side of the trues, which could force the plate off the trues.
- The TSS moisture berrier may be prestincted to the truss using 6d commons.
 CODES: See page 10 for Gode Listing Key Chart.

	1	T		-15	
will	META A TSS		HETAL		No.
194					Shape
3%			. •		J

100	5A#	CITATION A			Pasteners	and Uplifi	White					Lends	\$10.77	
Model	7100	133 L	oad Dui	ation increase			Load Dur	ation increase						Cede
No.		1 Ply So. Pine	Truss	2 or 3 Ply So:	Pine Tress	A FOREST	The St	and the					#	Bal
		Fasteners :					31	W. T.		2.78	2.5	Fa	Fz ·	
META12	8	7-10dx13/2	1240	7-16d	1450	7-10dx11½	1450	6-16d	1450	335	635	270	546	
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	i i
META18	14	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	635	270	545	
		8-10dx11/2	1415	6-160	1250	6-10dx11/4	1270	5-16d	1245	335	635	270	545	160
META20 ×	W201 7.1 Jee 1	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	336	635	270	545	1
META22 2	18	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	335	635	270	545	1
META24	20	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450	385	635	270	545	1
META40	28.	9-10dx11/2	1450	7-16d	1450	7-10dx11/2	1450	6-16d	1450		-	-		
HETA12	The state of the s	7-10dx1%	Commission of the local division in which the local division in th	Name and Address of the Owner, where the Owner, which is the Owner,	1475	7-10dx136	1520	7:18d	1200	335	780	270	625	
In the second second second second	Section 1981	- Control of the Cont	-	THE RESERVE OF THE PARTY OF THE	1810	9-10dx1%	1810	8-166	31010 %	F	7.0	270	625	
	200	9-100x1%		Section of the last of the las	1690	8-10dx145	1795	7-18d	1780	1.000	730	270	:625-	8,62
HETA20	16				1810	The state of the s	9680	8-16d	1010	0.00	7/00	200	825	1
		or other parties out the same of the same of	Same and the same of	9-160	1810	Carrie and the second s	1810		102		Terror Control	270	825	-
HETA24	All as	# (0.5) (0.5) (2.5)	1810	200 (100 pg	1810	会会のようななないないできないできないできない。					10 S		1000-14	170
HETATO		The state of the s	1305	7-16d	1520	7-10dx1%	1565	7-16d	1820	335	730	270	625	
HHETA12	-	12-10dx11/2	2235	11-16d	2235	10-10dx11/2	-	9-16d	2235	335	730	270	625	1
INCIAIO	12	11-10dx11/2	2050	10-16d	2170	9-10dx11/2	2010	8-16d	2080	335	730	270	625	1
HHETA20	18	12-100x172	2235	11-16d	2235	10-10dx11/2	THE RESERVE AND PERSONS NAMED IN	9-16d	2235	335	780	270	625	160
HHETA24	20	12-100x172	2235	11-16d	2235	10-10dx1%	2235	9-164	2235	335	730	270	625	1 100
HHETA40	90	12-100x1%	2235	11-16d	2235	10-10dx136	2235	9-16d	2235	-	-		-	1
LUCTALIS	2.7	10-1002192	San Street Street Street	And in concession of the Party	-	10-10dx136	1086	10-16d	1270	2015	1100	355	945	
HETAL B	44	15-100x1367	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN	14-160	-	44-10/6/19	1810	13468	(a) (b) (4)	200	1400	355	945	8,62
是 国人主义		15-100x132		And the second leading to the second	1810		- anan	1 40 40 50	SCHOOL	as ne		d'idealin'	t- OAR.	

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 naise must be impalled into the truss seat of the HETAL.

3. Parallel to plate load towards face of HETAL to 1975 be.

4. Lateral loads are la used on a minimum installation of 12 nails and the strap excepted over the heat.

4. Lateral loads are cased on a numerical installment of the lateral load capacity. The load part and lead to a specific and load capacity. The load part and can be approximated by dividing the allowable food by the number of fasioners. This concept applies to all member sizes.

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

TSS2

TSS2-2 TSS4

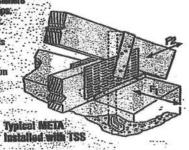
		Double	Entredded An	ichur Installa	Mon Inte Growle	d sthu B	ond Beam	1. 1.4		Lateral	10.00		24
					100 1190 So. 190								
	Fasteners	Lond	Fasiences	Load					起源			1	
	12-10dx11/2	-	The same of the sa	1900	10-10dx11/2	Acres de la contraction de la					1040		
HETA	12-10dx11/2	2035	14-16d	2500	10-10dx11/2	2035	12-16d	2500	1225	1520	1055	1305	<u></u>

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

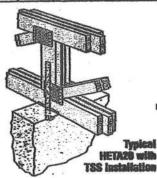
2. Divide total member of histor equally hotocoin both strips. 3. Although To Is 2,500 pel. 4. See Justiculou to the

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

DOS SIMPSON STRONG-TIE GO...

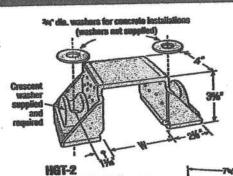
MGT/HGT HEAVY GIRDER

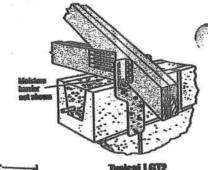
AT provide lighter load elternatives for the HGT-4 is steel for 4-2x widths. This serie oplift resistance for wood frame and concrete block in. The HGT can be installed on trusses and beams chard slopes from 3:12 to 8:12. Available in 2-ply, and 4-ply willins.

ATERNAL: 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 $f_6=2500$ psi maximum aggregate %. CODES: See page 10 for Code Listing Key Chart.





Sirmelly,

1411/10"

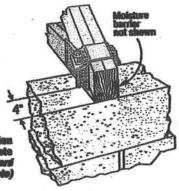
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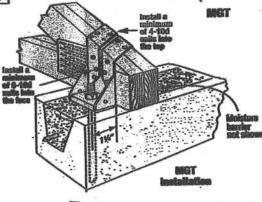
i i wij	SDE	151.251 200.251
kinders (Allowable	
3985	3330	160
	0.000	

(HGT-3 and HGT-4 similar)

1.00	F F W	0.6.	Facility	ners	W 1994		SPF	
Model No.	W			202				
MGT	3%		1-96	22-10d	13005	3985	3330	160
HGT-2	39/sa	594	2-%	16-104	35400	10980	8485	638
HGT-3	415/16	7%	2-1/4	16-100	35580	2000	9035	62
HOT-4	69%s	9	2-44 2-44	16-104	28805	9250	9250	

LGT2 334		7-Wor21/4 Titlen	7-4x144 Titen	16-16d Sinter	6553	2150	1600	1 600
	COMMISSION OF		4 1. · · · · · · ·	F	1500	and a decided a	4050	400
	Bedwoods		Concrete		1			
Model	Dim	HALL SERVICE STATE OF THE SERV			P	and the same	in goal was	
	0.C.		Fastaners		Batta	1	WATE .	Code
	of 1972 1 1 2 2	The state of the state of	Treample of the Co.				- poe	





LGT2

re barrier

MTSM/HTSM TWIST STRAPS

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

MATERIAL: MTSM-16 gauge; HTSM-14 gauge
FMISH: Galvanized. Some products available in stainless steel and
Z-MAX; see Corrosion-Resistance, page 5.

MSTALLATION: * Use all specified fasteners. See General Notes.

* Attach to ground concrete block with a minimum one #5 repart horizontal.

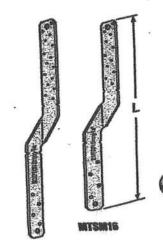
* Minimum 25 - 2500 and province approach 347

- Minimum $P_0 = 2500$ psi madmum approgate %".

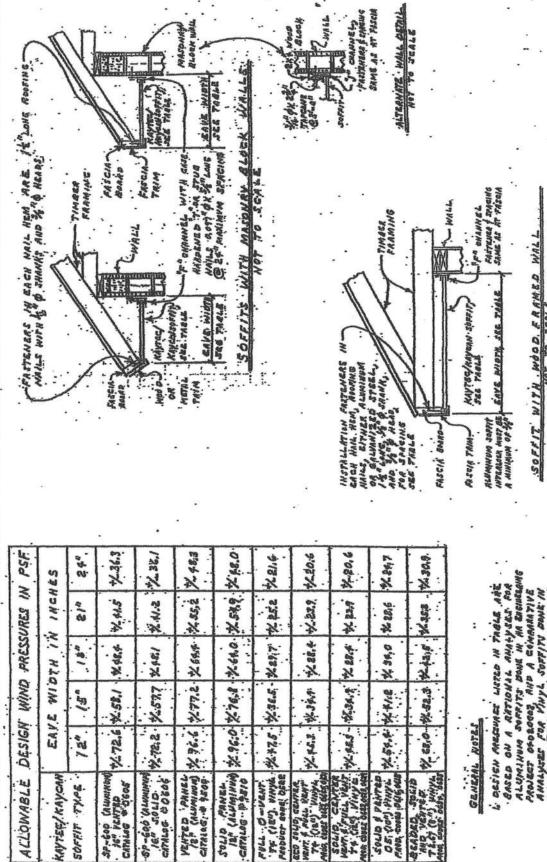
ODES: See	page '	10 for Cod	e Listing Key Char	L				time seem			-
			Fasteners ²				AS N	Spruce Alloysouth	-Pine-l Opiitt		
Model	L	Tress	CMAU	Concrete.	L.			194 (133/188)			
BATCHARA	16			4-1/21% Titen	860	SEASON CONTRACTOR OF THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN COLUMN TO THE PARTY NAMED	8eo		730		
MTSM20	20	7-10d	4-Yor21/4 Titon	4-34x134 Titen	860		860	750		750	160
HTSMAIG	16	8-10d	4-Vor21/4 Titen	4-Wart Titen	1175	1045	1175	1020	-	1020	1
HTSM20	20	10-10d	4-1/x21/4 Titen	4-7-x1% Titen	1175	1045	1175	1020	1020	1020	

- 1.Loads have been increased 33% and 60% for earthquake or wind loading; no further increase allowed; reduced where other loads govern.
 2.Twist straps do not have to be wrapped over the truss to achieve the allowable load.
 3.Minimum edge distance for Titens is 1½°.





MTSM20



GRNESSI NOTES

Xx5.2 - 23.00

ACO SOLID, CENTRA, TR. (184) - VINYA, TR. (184) - VINYA, TR. (184) - VINYA,

Solds & Private The St. A. Fire 14. 36,0 16 28,6

1, 60,0 16.50 1 14.50 1 1. 35,50

GASED ON A RATIONAL ANALYSE, FOR ALUMINOS SOFFITS BONE IN AR ENGINEERING PROVEST OF FINAL SOFFITS BONE IN OF BOOGH THAT ARE, IN EMPROHANCE WITH FLORIDM SOFFITS BOOK SECTION (609 "WIND LOADS") L' DESIGN PRESENCE LISTED IN TRALE ARE

E.FLORIDA GUILDING GOOD SOOK DOES NOT ONE CITY HANDATE WIND LOAD DESIGN PRESSURES ON SOFFIES,

PROJECT NAME. KAYTEC TRAYCAN SOFFITS PROJECTING, DE 0.7 0005. SHEET / OF / DATE IF URLY BOOS BY A. REEVES HR Engineering, inc. CLIEM KAYZEC INC.

allen M. Pleaner

THHOS

38" PENTED 72.6 72.6 7.58.1 . 7.48.4 7.44.5 CARAGE * 56.5

SP-600 GLUMINING PTREE YSTY YEST

1

18.

124

KAYTEE/KAYCAN SOFFIT TYPE

ALLOWABLE

Concrete Anchors uildex fator454-3622 Ruiden, Tapcon, & Cinnesed are registured tradoments of ITW. PULLOUT IN CONCRETE (3148 PS), cured 40 days 514 1537 lbs. 1136 lbs. 521 Ds. *"ULLOUT IN HOLLOW BLOCK* 1-140 .M. 341 lbs. Tin ibe. 200 lbs. 408 Be. 1-14" to 1-34" SHEAR STRENGTH 3/4" to 1-1/4" 34 to 2.34° W. to 3/4. 2-17-103 JA 01.0 37.6 **Technical**

II'N BRANDS

6383582713

13:89

2002/6T/6R

ccessories



ANCHOR BOLT WITH NUT & 1" WASHER

Deelgn Features:

· Bolt only with code minimum embedment with 3000 PSI

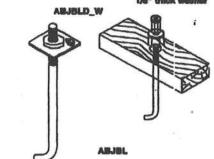
concrete will resist 4,800 lbs, see washer capacity below.

Materiale: Black and galvanized steel

Postnotes: Other sizes svallable on request. All references
to bolts or MB's are structural quality through bolts equal
to or better than ASTM Standard ASO7.

1011		Description	
1/2 3/8	ABJBLEC	Black	.50
STOR.	7 Y 7	Blinck	80
1/2 X10	AMML10C	Black	60
Quality.		(Bistch.	80
1/2 X14	ABJBL14C-	Black	60
91336	AR BLIC	- Black	50
1/2 X18	ABJELIEC	Black	50
1個個	ABIQAG	Gody.	- 50
1/2 1/8	ABUBAB	Galv.	50
6/8 X10	ANDLIED:	Machine	. 80
6/8 X12	ABJBLISD	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. Materiale: Black steel

Postnote: "Supplied with a 2" round/washer 1/6" thick.
Wind uplift loads are based on the shear capacity of No. 2 Southern
Pine. Compression perpendicular to grain 565 (pel).

		DESCRIPTION.	
1/248	ABJBLOW	Black	80
		Black	en:
1/20:10	ABJBL10W	Black	50
TIE	DESIGNATION OF THE PARTY OF THE	- 開始	80
8/8/12	ABJBL12DW	Black	60

ANCHOR BOLT WASHER/PLATE

Design Features:

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

an pase anchor bot.

Materials: 10 Gauge Galvanized & 1/8 & 1/4 Black steel

Postnote: "Also available in 50% of 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.

(G)			>
		ABJWZ	
		<i>></i>	NO STATE OF THE PARTY OF
ABPWS &			
	<		
	BPW358	/X//	0000000

44.7			857457	KLLOWAR	LE LOADS	
(1.	(DIAMETER)	WHEN/ ISA	The Part	60
2/2	1/0	ABJWE	1/2°	1035	1635	50
30 N	10	ABPG12	1/2°	3675	1470k:	40
	1/4	ABPW3	1度	4800	\$676 4800	40
Dec Thirt	1 10			-4ecio	4800	40

LINTEL INFORMATION

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.
- 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

- Placing lintel Length of bearing of lintels on their support shall be a minimum of 4 inches for filled lintels and 6 ½ 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.
- 2. 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:
 - 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 3.5.
- c) Maintain clear distance between reinforcing bars and any face of masonry unit or formed surface, but not less than 1/2 inches for fine grout or 1/2 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 embedded 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, I'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@danscuengineering.com CA25948

Cement Precast Products, Inc.

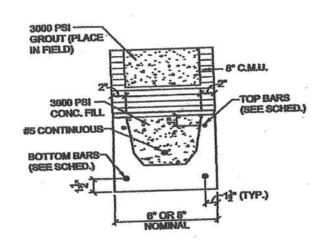
Precast concrete lintels 6", 8" and 12" wide have been reviewed by our office for compliance with the following codes:

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

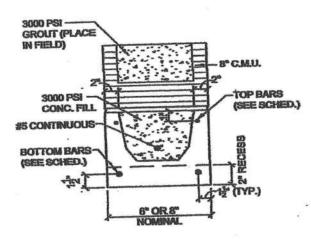
Our review is limited to the precast concrete lintels together with verification that they are accurate and appropriate for use according to the requirements of the above-referenced codes. Only Cement Precast Products, Inc. lintels may be used for the work depicted herein.



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AL LINTEL SECTION



RECESS LINTEL SECTION

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. 3.) SAFE LOADS LISTED ON ALL TABLES ARE IN UNITS OF

POUND PER LINEAR FOOT.

GENERAL NOTES: 1.) CODES:

phectics/CEMENT PRECAST PRODUCTS/2445478.5x11\SK01.dwg, 5/31/2005 9:09:12 AM, KJoynet

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. 3/6" AGGERATE, 8" TO 11" SLUMP.

2.2 REINFORCING BARS:

- 2.2.1 STEEL IN LINTEL AND KNOCKOUT BLOCK (PLACED IN FIELD) ASTM A616 (GRADE 46). 2.3 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI
- 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: PM 1500 PSI.
- 3.3 MORTAR SHALL BE TYPES.

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.



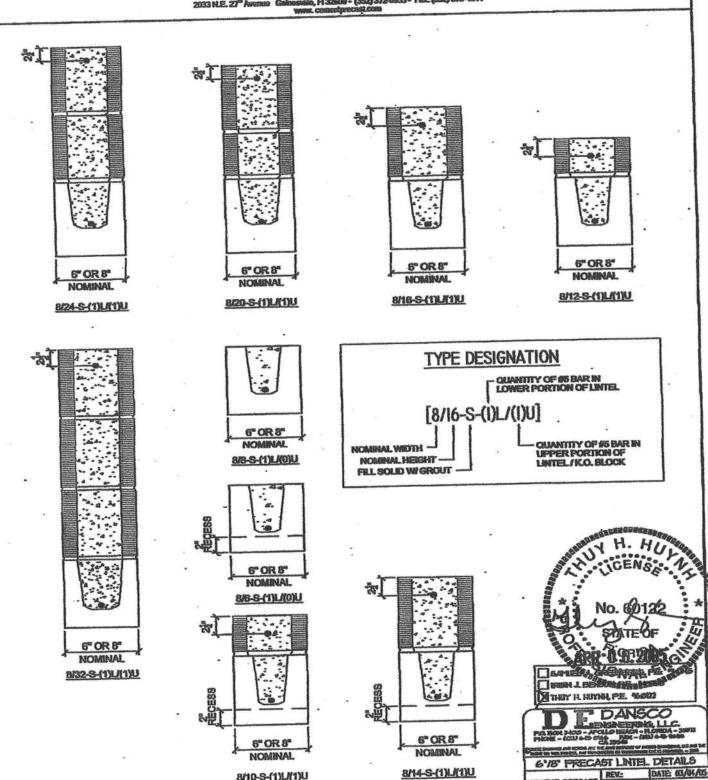
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DANSCO

GENERAL NOTES 4 DETAILS

DATE: 03/64/08 CEMENT PRECAST PRODUCTS INC. SCALE M.T.S.





8/10-S-(1)L/(1)U

REV.

E.M. SCALE: N.T.S. SKZ

G:Matulenginearing/CEMENT PRECAST PRODUCTS/244547/8.5x11/SK02.dwg, 3/16/2005 2;54:18 PM, EMontanez

Precast Products, Inc. hessile, F132699 - (352) 372-6659 - Fax: (352) 376-4611 www.consulprecast.com

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6°-4°	5-0"	(2)#2	(2)#4	1178	2258	3513	5083	6245	8570 210000
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~~~		maa	#W.#. #	1098	2084	3196	. 4554	5595	7680
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			10,00	<b>建加纳斯</b>	1690	2511	3376	4150	5699
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				632	1125	1597	2141	2800	4669
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11-4"	10'-0"	(2)#3	(2)#5	563	995	1399	1854	2391	3837
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	-		-	132	484	656	835	1027	1463
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OSÁTRIL A GREBNIERG, PE.

ORIN J. BENSON, PE. 4956

8° LINTEL SAFE GRAVITY LOADS

REV: DATE: 03/04/05 CEMENT PRECAST PRODUCTS INC. E.M.

Coment Precast Products, Inc. 2033 N.E. 27" Avenue Guintonile, F132600 - (922) 572-0053 - Fac: (922) 578-4611 www.commispeciaticom

agino fa.r	LATIBIALLO			OADS (P						rel.	LIM
8/0-5	SIB-P	8/32-S-(1)U	8/24-S-(1)U	8/20-5-(1)1)	8/16-5-(1)U	8/12-5-{1]U	818-S-(1)U	BOTTON	TOP	CLEAR	TOTAL
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		9448	6803	5481	4162	2401	1334				
594	230	10000	and the second second	NAME OF TAXABLE PARTY.	7-58630 510		Company of the Compan	(2)#3	None	4º-0°	5-4°
491	190	7808	5622	4530	3439	2350	1182	-	**		
		10000	THE RESERVE AND PERSONS ASSESSED.	6101	The second secon		CARDINATE.	(2)#3	None	418"	5-10°
894	333	6561 0440000093	4724	3906	2890	1975	1110	(2)#4	(2)#2	5-0"	6-4"
		6211	4472	3603	2736	1869	1083	-	-		
847	316	5,570000		The same of the sa	-	(Pri-2035 (15)	The state of the s	(2)#4	(2)#2	5-2"	6-6"
803	299	5888	4240	3416	2594	1772	1048	-			
	200				1: 25038×24		nadou:	(2)#4	(2)#2	5-4°	6-6
627	233	4598	3311	2683	2025	1384	802	(2)#4	(2)#2	6-2"	7-6*
		4392	3162	2548	1934	1322	A CONTRACTOR OF THE PARTY OF TH	147	44		
742	273			3490		The second secon	916 #XXXXXX	(2)#4	(2)#3	6'-4"	7-8-
679	249	4018	2893	2331	1770	1209	823				
	2.0	1983		36.5				(2)84	(2)#3	6-8"	8-0"
575	205	3410	2449	1973	1498	1023	746	(2)84	(2)#3	7-4ª	8-8"
		2916	2099	1694	1294	877	721	144.	69.00		
653	175			Z480				(2)#5	(2)#3	8r0.	9-4"
529	125	2362	1700	1370	1040	711	639	-			
				72.01			EXC. 027.9	(2)#5	(2)#3	840.	10°-4°
437	92	1952	1405	1132	859	587	573	(2)#5	(2)#3	10°-0"	115-6
		1735	1249	1006	784	522	538	ļ.,	-		
389	N.R	The same of the sa		S 111091112			330 330 330 330 330	(2)#5	(2)#3	1048°	12'-0°
-348	NR	1552	1118	900	684	467	479	1		-	
				15009		<b>建设成为19</b> 2	100 Hall (2015	(2)#5	(2)#3	111-47	12-8*
313	NR	1397	1006	810	615	420	431	(2)#5	(2)#3	12:0	13°-4°
-		1264	910	733	557	380	388		14		
283	NR	Illerance S	And in case of the last of the	15 T S 7 O S 7		F671791.531		(2)#5	(2)#3	12:-8"	14'-0"
447	MR	1149	827	667	506	346	432	623.88	-	13'-4"	
							BE CHANGE	4000	(2)#4	18-4	14'-8°
357	MR	1004	723	582	442	302	353	(2)#5	(2)#4	14-4"	15-6"
251	N.R	817	588	474	360	246	258	+	-		
231	PALICE.	1076	(A) 180 SE	903	Line Marie	The same of the sa	TANKS OF THE PARTY	(2)#6	(2)84	160-0	17-40
169	NR	654	471	379	288	195	169	(2)#6	(2)#4	1850°	474.49
			# 200 = C	7/03/14				Mad	(2)#4	10-0	19-4"
168	N.R	610	439	354	269	183	181	(2)#6	(2)#5	18'-8"	20'-0"
1	1	535	385	310	235	161	141	-	-	-	
131	N.R	10000000	The same of the sa	PARAMETER	-	200	Consumer of the last of the la	(2)#6	(2)#5	20'-0"	21-4
110	NR	503	362	291	221	151	126	1	1	1	
		100000		127274	SERVICE.		Sand and the sand statement of the sand stat	(3) #8	(2)#5	20'-8"	22'-8"
80	NR	448	321	259 509 6	195	134	101	(2)#6	mes	22'-8"	24'-0"
		机能加坡		200 E	<b>用物理的</b>	PROPERTY.	1623100000	(4) 11-0	(2)#5	2-0	1 -

N.R. = NOTRECOMMENDED

No. 60122

STAYR OF

CORIOR CONSTRUCTION

APROPRIATE APPORT APPORT

□smiel a greederg pe. 944 □red leesco, pe. 4558 When hensel pe. 4602

DE DANSCO
BIENGAMEERNA, LLC.
PO. BOY SAND - APOLD BEACH - ALPEON - 300
PHONE - 1900 645 dies, PASSE - 600165 649

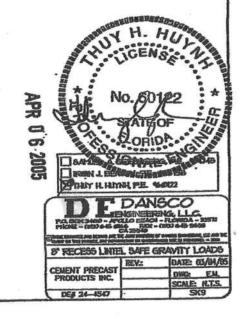
8" LINTEL SAFE UPLIFT LOADS

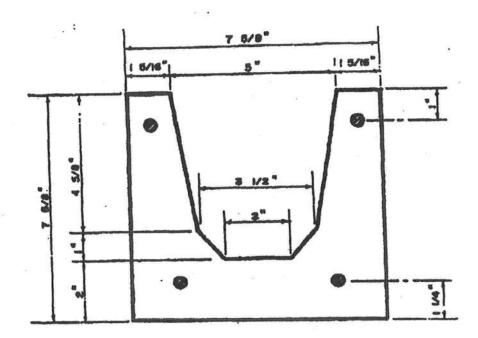
DWG: ELL
SCALE: M.T.S.
SKB

Cement Precast Products, Inc.
2033 N.E. 27* Avenue Gainesville, F132509 - (352) 372-0953 - Fax: (352) 378-4611
www.cementprecast.com

LIN	TEL.	8" R	RAVITY			
TOTAL	CLEAR	TOP	BOTTOM	8/6-S-(0)L	8/10-S-(0)L	8/14-S-(0)L
LENGTH	SPAN	REINF.	REINF.	865 OL	tion of	97.6 - (1)
			(2)#3	1530	4400	6931
3-6	2-2	None		22 51530	14400	10000
			(2)#3	1250	3351	5155
4-0"	2'-8"	None		111258	<b>医型温度</b> 面线	是 5/5图号
			400.410	1113	2851	4322
4-4"	3:-0"	None	(2)#3		15/200075	<b>6</b> 483
			m.40	1005	2624	3979
4-6"	3'-2"	None	(2)#3	量:到005元	2/03	HE 95010
			m.#0	1003	2422	3674
41-8"	3'-4"	None	(2)#3	<b>2</b> 4003		<b>建模的2</b> 指
		<b>i</b>	-	764	1584	2406
5'-8"	4:4"	None	(2)#3	10	# 1856 als	15000
		1	(2)#4	652	1491	2401
6-8"	5-4"	(2)#2		E 1525 219	10 10 10	(de 52/(0.35)
		1 400.00		546	1225	1919
7'-8"	6'-4"	(2)#3	(2)#4	#### 546° ##	Con 1225	120

Ghdatalungineering/CEMENT PRECAST PRODUCTSV245478.5x11\SK09.dwg; 3/15/2005 1:28:20 PM, EMontunez





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

TYPE	TOP BARS	BOTTOM BARS
A	NONE	2 - #3
3	2 - 42	2 - #4
С	2 - 43	2 - #4
D	2 - #3	2 - #5
E	2 - #4	2 - #6

Nar 28 02 04:17p Cement Prenest 372 5308 382 378 4611 p.1

Cement Precast Products, Inc.
2033 N.E. 27th Avenue Galacsville, Fl 32600 - (352) 372-4953 - Fac. (352) 378-4611
www.comentprecast.com

LIN	TEL	8" RECESS LINTEL SAFE UPLIFT LOADS (PLF)					
TOTAL	CLEAR	TOP REINF.	BOTTOM REINF.	8/6-5-(1)U 8/6-5-(2)U	8/10-5-(1)U		
3-6"	2-2"	None	(2)#3	2571 2571	3966 3986	. 8716 9281	
4º-0ª	2'-8"	None	(2)#3	2063 H = 2063	3063	6237	
4-4"	3'-0"	None	(2)#3	1823	2660 PH-2660	5122	
4.6"	3-2"	None	(2)#3	1723 1723	2496	4701	
4-8"	3'-4"	None	(2)#3	1633	2350	4345	
5'-8"	41.44	None	(2)#3	1244	1742	2986	
	5-4"	(2)#2	-	1005	1358	2179	
6'-8"		-	<del> </del>	708	1013	1625	
7'-8"	6.4"	(2)#3	(2)#4		创造证明的	STATE OF THE PARTY	

Gidalakengineering/CEMENT PRECAST PRODUCTS/244547/8.5x11/SK10.dwg, 3/15/2005 2:09:35 PM, EMontanez

