DATE 02/05/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026713

APPLICANT LINDA RODER PHONE 752-2281

ADDRESS 389 SW KEMP CT LAKE CITY FL 32024

OWNER LINDA RODER PHONE 752-2281

ADDRESS 389 SW KEMP CT LAKE CITY FL 32024

CONTRACTOR SAME AS APPLICANT PHONE

LOCATION OF PROPERTY 47S,TL ON CATES,TL ON KEMP CT, 4TH LOT ON RIGHT, TR AT TAN HOUSE, DRIVE BETWEEN TWO HOUSES, LOT IN BACK OF TAN HOUSE

TYPE DEVELOPMENT MOTHER-IN-LAW SUITE ESTIMATED COST OF CONSTRUCTION 50200.00

HEATED FLOOR AREA 900.00 TOTAL AREA 1004.00 HEIGHT STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 15

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 14-5S-16-03612-000 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 3.23

Culvert Permit No. | Culvert Waiver | Contractor's License Number | Applicant/Owner/Contractor

EXISTING | 08-0018 | BK | JH | Driveway Connection | Septic Tank Number | LU & Zoning checked by | Approved for Issuance | New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, ACCESSORY USE, NO KITCHEN IN MOTHER IN LAW SUITE PER RJ, NOC ON FILE

Check # or Cash 1812

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by | Foundation date/app. by | Monolithic date/app. by

Under slab rough-in plumbing date/app. by | Slab date/app. by | Sheathing/Nailing date/app. by

Framing date/app. by | Rough-in plumbing above slab and below wood floor date/app. by

Electrical rough-in date/app. by | Heat & Air Duct date/app. by | Peri. beam (Lintel) date/app. by

Permanent power date/app. by | C.O. Finall date/app. by | Culvert date/app. by

M/H tie downs, blocking, electricity and plumbing date/app. by | Pool date/app. by

Reconnection date/app. by | Pump pole date/app. by | Utility Pole date/app. by

M/H Pole date/app. by | Travel Trailer date/app. by | Re-roof date/app. by

BUILDING PERMIT FEE $ 255.00 CERTIFICATION FEE $ 5.02 SURCHARGE FEE $ 5.02

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ **TOTAL FEE** 340.04

INSPECTORS OFFICE CLERKS OFFICE CH

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.

"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.

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1TD68228Z0210090807

Truss Fabricator:	Anderson Truss Company
Job Identification:	7-368--OWNER BUILDER Linda Roder/Mother-In-Law -- S.W. Kemp Ct Lake City, **
Truss Count:	5
Model Code:	Florida Building Code 2004 and 2006 Supplement
Truss Criteria:	ANSI/TPI-2002(STD)/FBC
Engineering Software:	Alpine Software,Version 7.36.
Structural Engineer of Record:	The identity of the structural EOR did not exist as of
Address:	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads:	Roof - 40.0 PSF @ 1.25 Duration Floor - N/A Wind - 110 MPH ASCE 7-02 -Closed

Seal Date: 12/10/2007

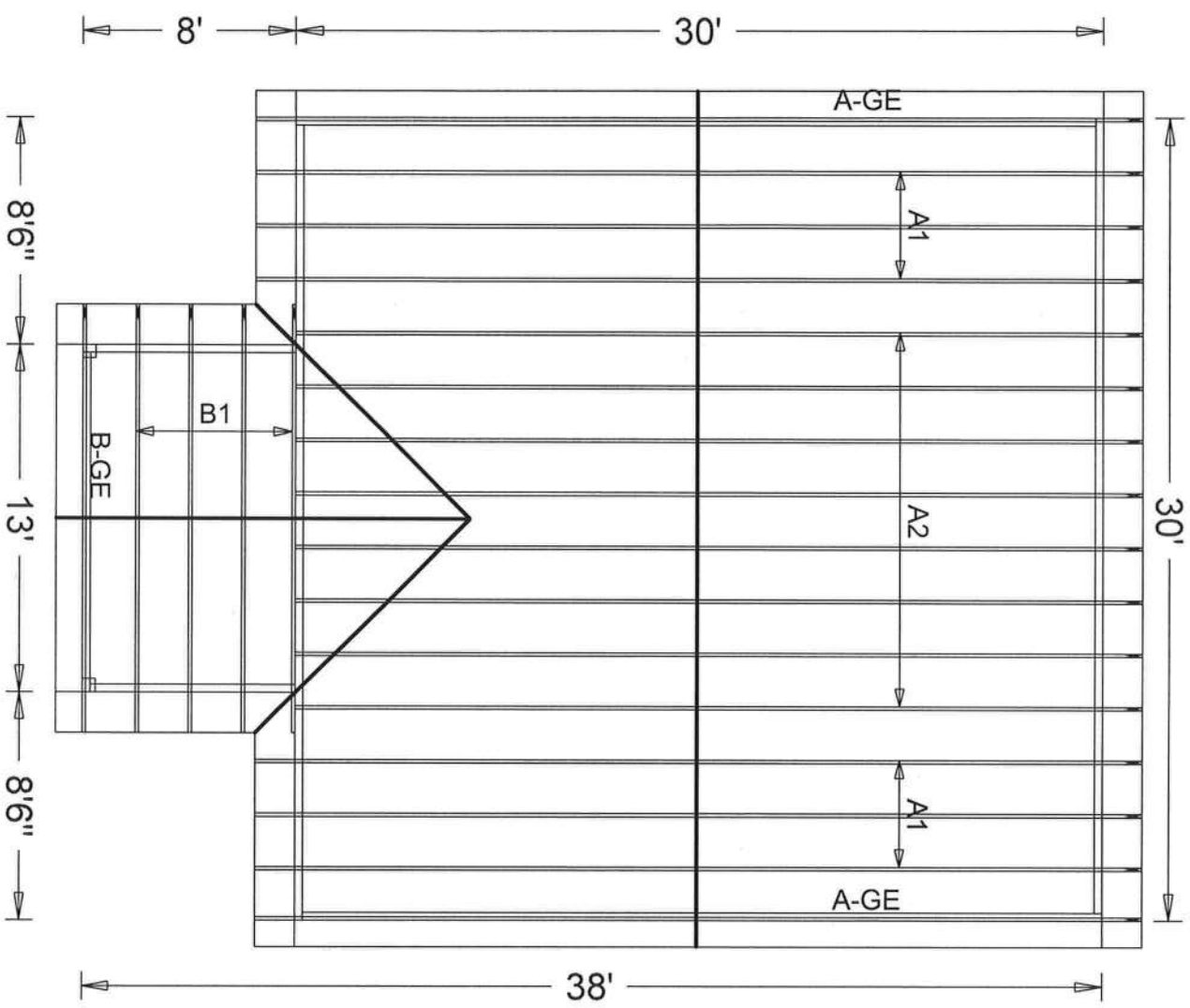
-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228.

Details: BRCLBSUB-A11015EE-GBLLETIN-

#	Ref	Description	Drawing#	Date
1	54612--A1		07344001	12/10/07
2	54613--A2		07344002	12/10/07
3	54614--A-GE		07344004	12/10/07
4	54615--B-GE		07344005	12/10/07
5	54616--B1		07344003	12/10/07



#7-368
LINDA RODER
MOTHER-IN-LAW SUITE

Roof Plane Sheathing Area = 1315 sq. ft
Gable Sheathing Area = 271 sq. ft
Total Sheathing Area = 1586 sq. ft
Fascia Material = 155 linear ft
Valley Flashing Material = 24 linear ft
Ridge Cap Material = 48 linear ft
Hip Ridge Material = 0 linear ft

JOB DESCRIPTION:: OWNER BUILDER
/: Linda Roder/Mother-In-Law

JOB NO:
7-368

PAGE NO:
1 OF 1

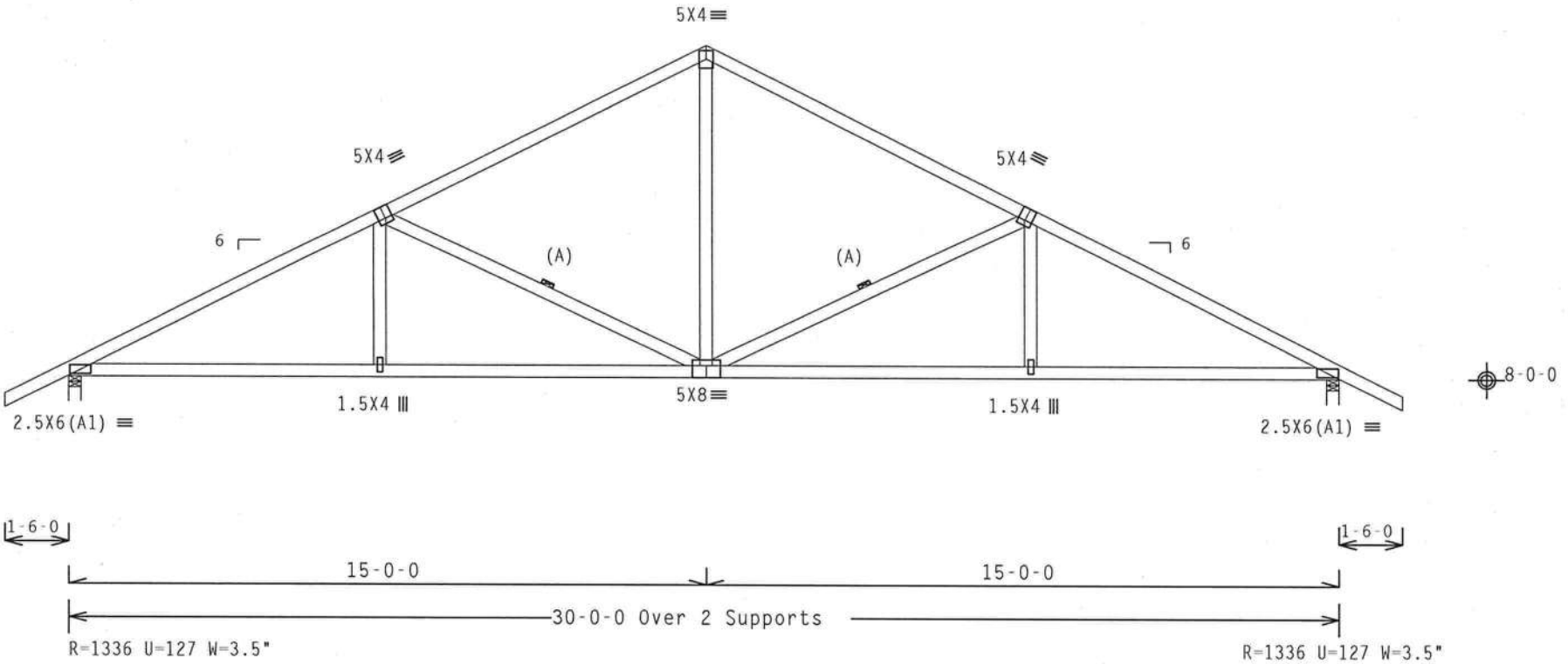
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.0424

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI1-2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

JAMES F. COLLINS JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 10 07

TC LL	20.0 PSF	REF R8228- 54612
TC DL	10.0 PSF	DATE 12/10/07
BC DL	10.0 PSF	DRW HCUSR8228 07344001
BC LL	0.0 PSF	HC-ENG JB/AP *
TOT.LD.	40.0 PSF	SEQN- 65492
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TD68228Z02

(7-368--OWNER BUILDER Linda Roder/Mother-In-Law -- S.W. Kemp Ct Lake City, ** - A2)

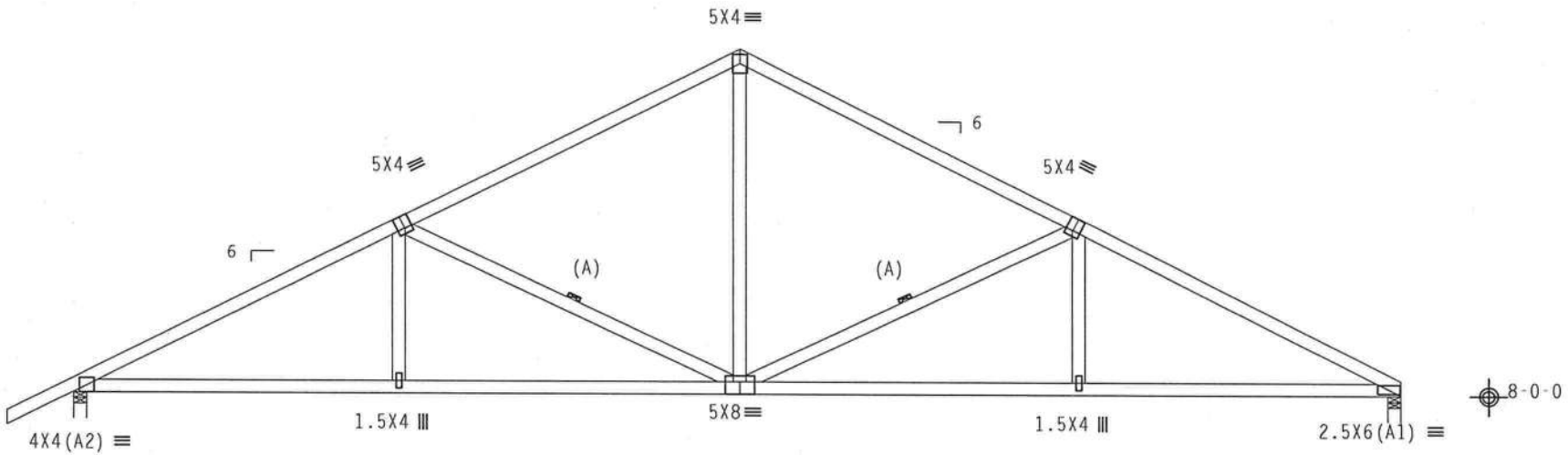
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

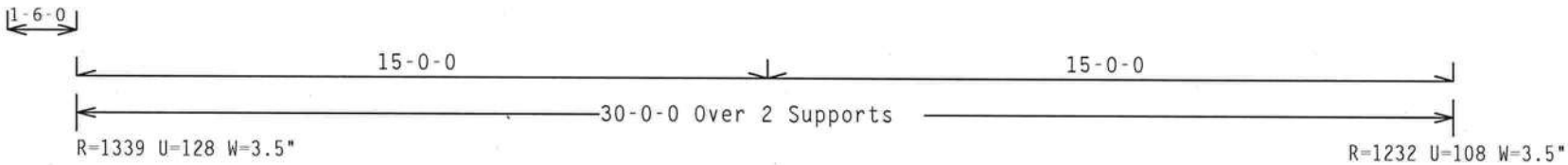
(A) Continuous lateral bracing equally spaced on member.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.





Design Crit: TPI-2002(STD)/FBC
PLT TYP. Wave
Cq/RT=1.00(1.25)/0(0) 7.36.0424.11 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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Dec 10

TC LL	20.0 PSF	REF R8228- 54613
TC DL	10.0 PSF	DATE 12/10/07
BC DL	10.0 PSF	DRW HCUSR8228 07344002
BC LL	0.0 PSF	HC-ENG JB/AP *
TOT.LD.	40.0 PSF	SEQN- 65498
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TD68228Z02

(7-368--OWNER BUILDER Linda Roder/Mother-In-Law -- S.W. Kemp Ct Lake City, ** - A-GE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

In lieu of structural panels use purlins to brace TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

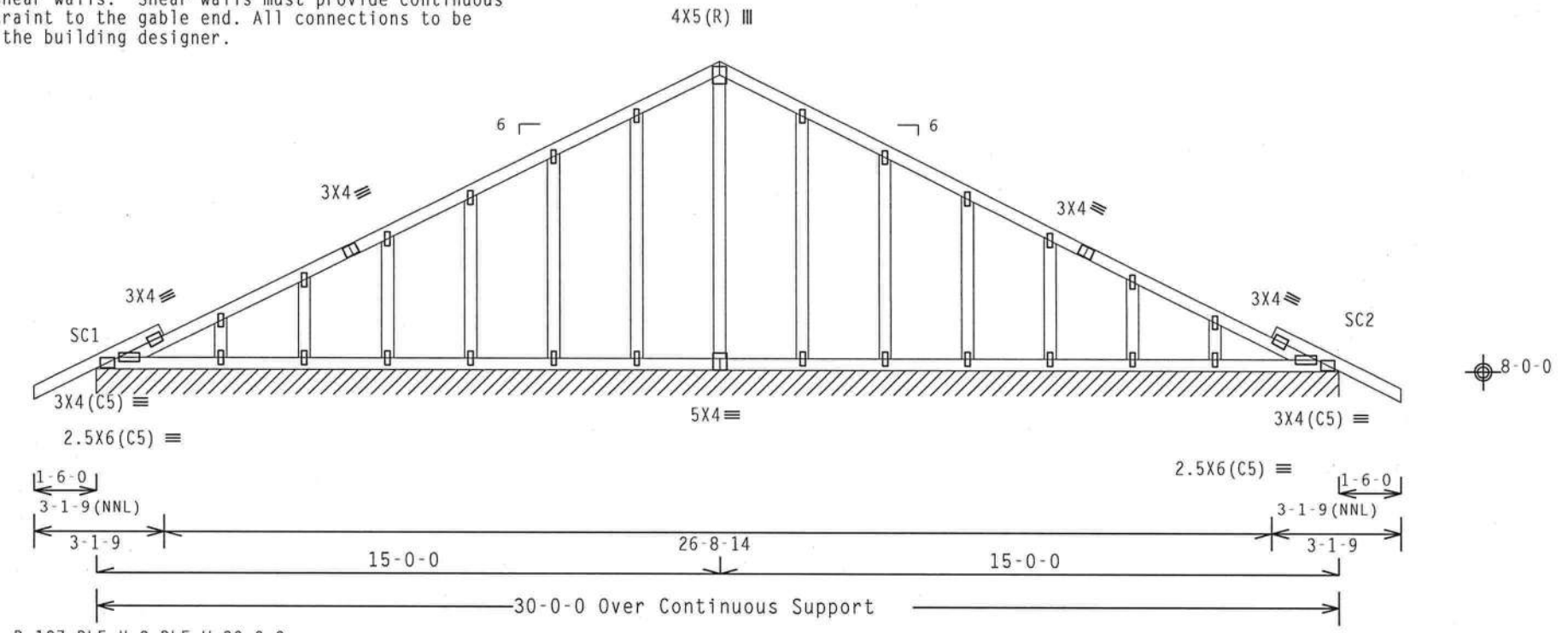
The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.36.0424 11 QTY:1 FL/-/4/-/-/R/- Scale =.25"/Ft.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS JR LICENSE No 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 10,2007

TC LL	20.0 PSF	REF R8228- 54614
TC DL	10.0 PSF	DATE 12/10/07
BC DL	10.0 PSF	DRW HCUSR8228 07344004
BC LL	0.0 PSF	HC-ENG JB/AP
TOT.LD.	40.0 PSF	SEQN- 65504
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TD68228Z02

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3
:Stack Chord SC1 2x4 SP #2 Dense:
:Stack Chord SC2 2x4 SP #2 Dense:

Truss spaced at 24.0" OC designed to support 1-0-0 top chord outlookers. Cladding load shall not exceed 10.00 PSF. Top chord must not be cut or notched.

In lieu of structural panels use purlins to brace TC @ 24" OC.

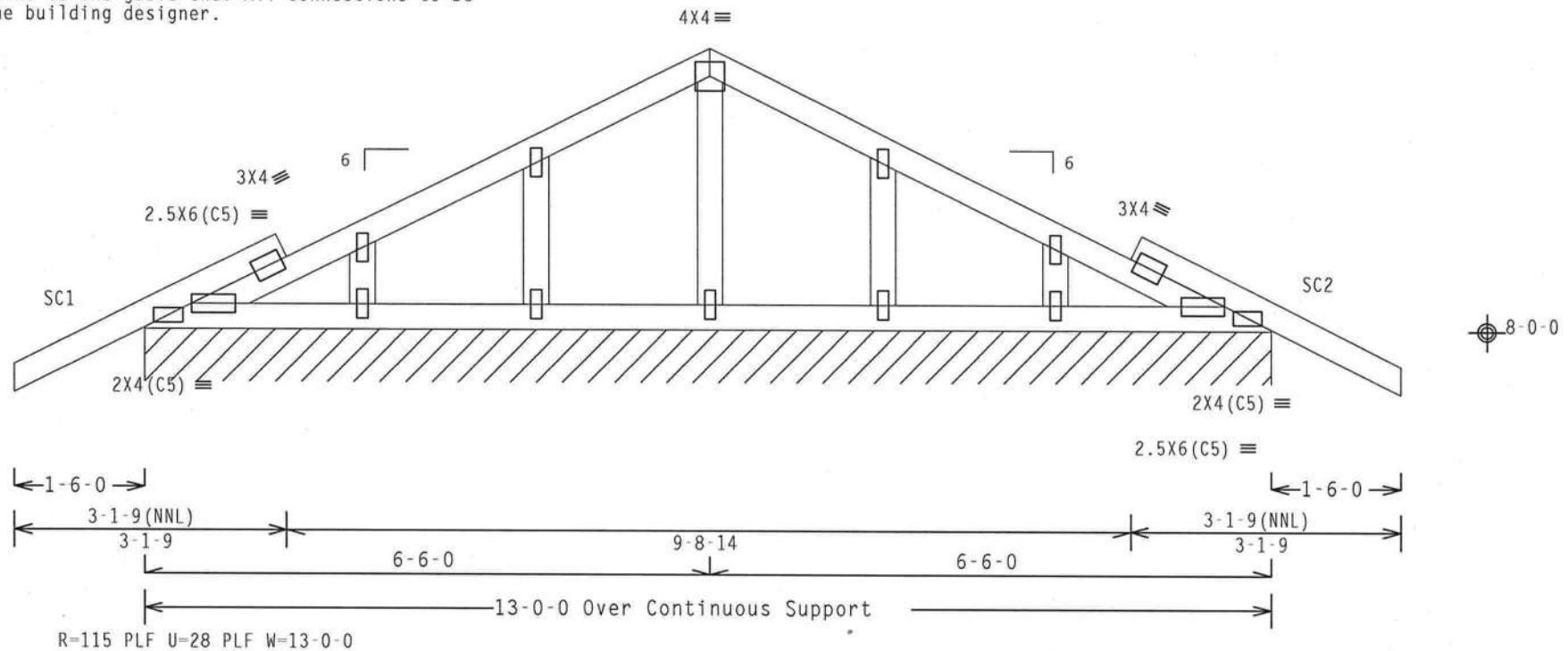
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, PART. ENC. bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)=0.55

Wind reactions based on MWFRS pressures.

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



Note: All Plates Are 1.5X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

PLT TYP. Wave Cq/RT=1.00(1.25)/0(0) 7.36.0424 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

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JAMES F. COLLINS, JR. LICENSE No. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 10 07

TC LL	20.0 PSF	REF	R8228- 54615
TC DL	10.0 PSF	DATE	12/10/07
BC DL	10.0 PSF	DRW	HCUSR8228 07344005
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	65482
DUR.FAC.	1.25	FROM	AH
SPACING	24.0"	JREF-	1TD68228Z02

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

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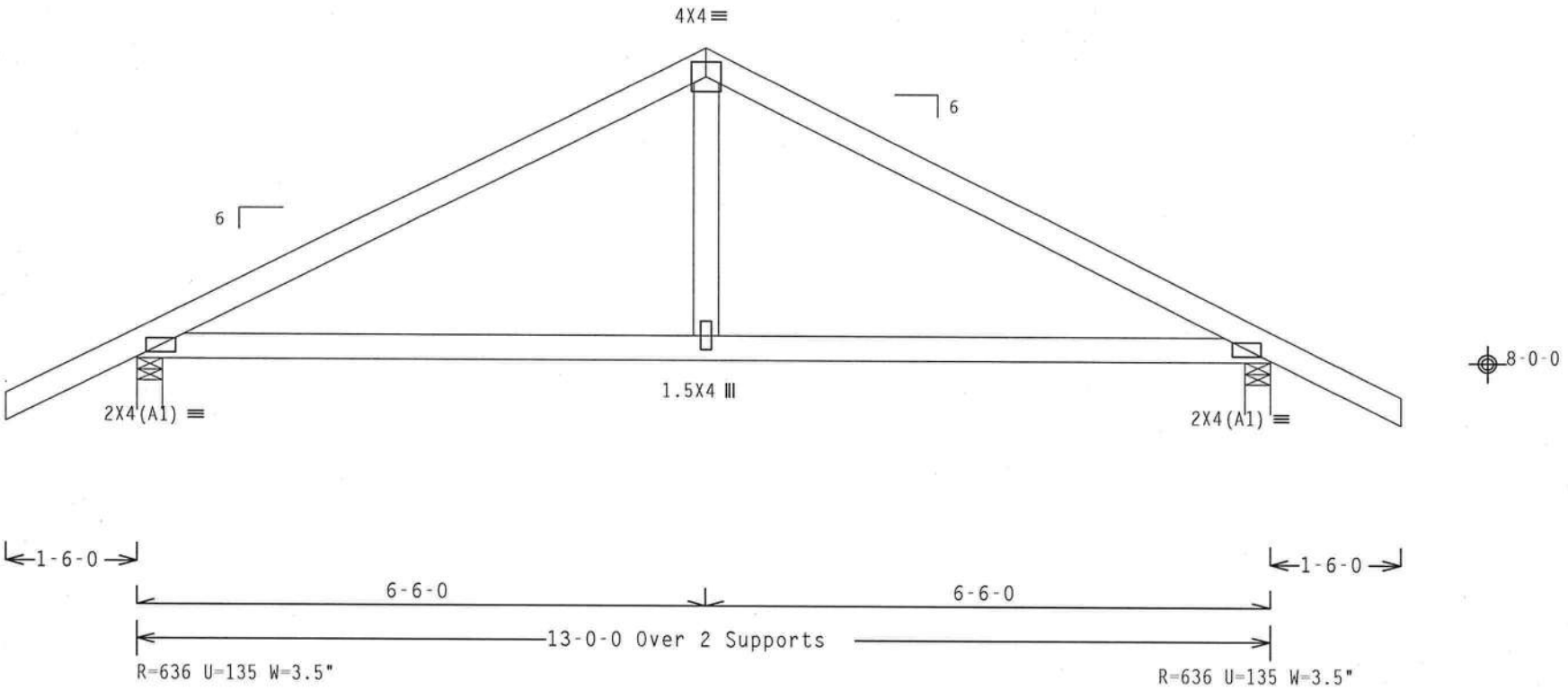
Wind reactions based on MWFRS pressures.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.36.0424.11

PLT TYP. Wave

QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

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JAMES F. COLLINS, JR. LICENSE NO. 52212 STATE OF FLORIDA PROFESSIONAL ENGINEER

Dec 1

TC LL	20.0 PSF	REF R8228- 54616
TC DL	10.0 PSF	DATE 12/10/07
BC DL	10.0 PSF	DRW HCUSR8228 07344003
BC LL	0.0 PSF	HC-ENG JB/AP *
TOT.LD.	40.0 PSF	SEQN- 65486
DUR.FAC.	1.25	FROM AH
SPACING	24.0"	JREF- 1TD68228Z02

CLB WEB BRACE SUBSTITUTION

THIS DETAIL IS TO BE USED WHEN CONTINUOUS LATERAL BRACING (CLB) IS SPECIFIED ON AN ALPINE TRUSS DESIGN BUT AN ALTERNATIVE WEB BRACING METHOD IS DESIRED.

NOTES:

THIS DETAIL IS ONLY APPLICABLE FOR CHANGING THE SPECIFIED CLB SHOWN ON SINGLE PLY SEALED DESIGNS TO T-BRACING OR SCAB BRACING.

ALTERNATIVE BRACING SPECIFIED IN CHART BELOW MAY BE CONSERVATIVE. FOR MINIMUM ALTERNATIVE BRACING, RE-RUN DESIGN WITH APPROPRIATE BRACING.

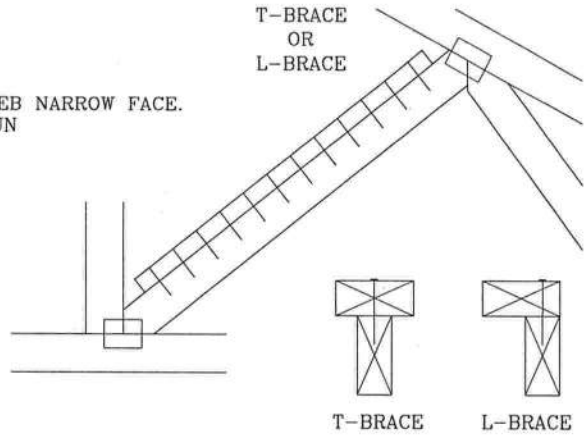
WEB MEMBER SIZE	SPECIFIED CLB BRACING	ALTERNATIVE BRACING T OR L-BRACE	ALTERNATIVE BRACING SCAB BRACE
2X3 OR 2X4	1 ROW	2X4	1-2X4
2X3 OR 2X4	2 ROWS	2X6	2-2X4
2X6	1 ROW	2X4	1-2X6
2X6	2 ROWS	2X6	2-2X4(*)
2X8	1 ROW	2X6	1-2X8
2X8	2 ROWS	2X6	2-2X6(*)

T-BRACE, L-BRACE AND SCAB BRACE TO BE SAME SPECIES AND GRADE OR BETTER THAN WEB MEMBER UNLESS SPECIFIED OTHERWISE ON ENGINEER'S SEALED DESIGN.

(*) CENTER SCAB ON WIDE FACE OF WEB. APPLY (1) SCAB TO EACH FACE OF WEB.

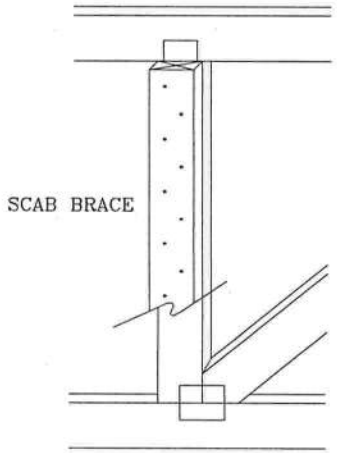
T-BRACING OR L-BRACING:

APPLY TO EITHER SIDE OF WEB NARROW FACE. ATTACH WITH 10d BOX OR GUN (0.128"x 3.",MIN) NAILS. AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



SCAB BRACING:

APPLY SCAB(S) TO WIDE FACE OF WEB. NO MORE THAN (1) SCAB PER FACE. ATTACH WITH 10d BOX OR GUN (0.128"x 3.",MIN) NAILS. AT 6" O.C. BRACE IS A MINIMUM 80% OF WEB MEMBER LENGTH



THIS DRAWING REPLACES DRAWING 579,640

ALPINE

ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND THE ITW, BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W,H/SS/K) ASTM A653 GRADE 40/60 (W,K/H,SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z. ANY INSPECTION OF PLATES FOLLOWED BY (I) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

JAMES F. COLLINS JR. LICENSE No. 52212 DEC 10 '07 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	PSF	REF CLB SUBST.
TC DL	PSF	DATE 2/23/07
BC DL	PSF	DRWG BRCLBSUB0207
BC LL	PSF	-ENG MLH/KAR
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

ASCE 7-02: 110 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
16" O.C.	SPF HF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
	SP DFL	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

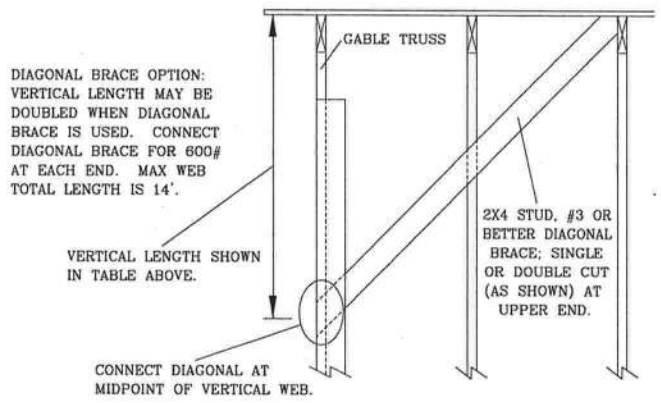
SOUTHERN PINE
#3
STUD
STANDARD

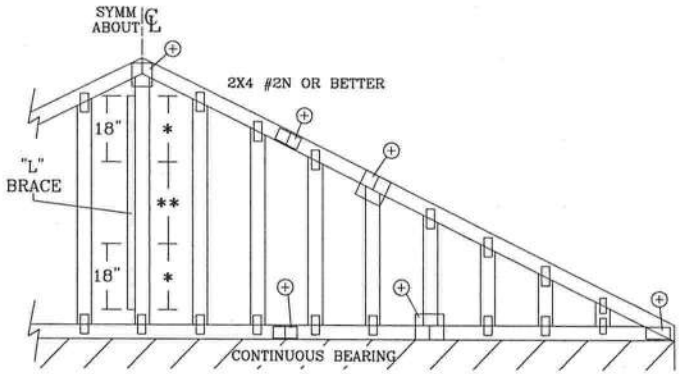
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#1
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4
GREATER THAN 11' 6"	2.5X4

+ REFER TO COMMON TRUSS DESIGN FOR PEAK, SPLICE, AND HEEL PLATES.

ALPINE

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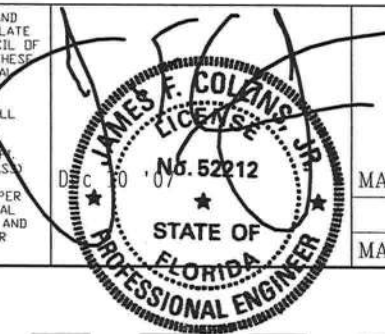


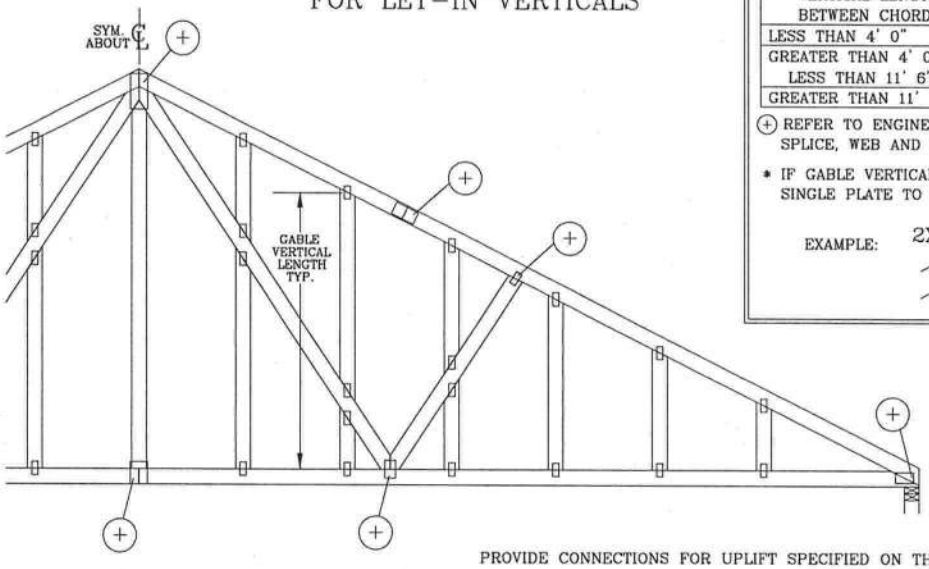
DEC 20 '07

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF	ASCE7-02-GAB11015
DATE	2/23/07
DRWG	A11015EE0207
-ENG	

GABLE DETAIL
FOR LET-IN VERTICALS

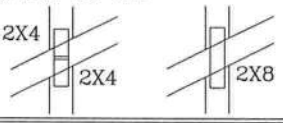


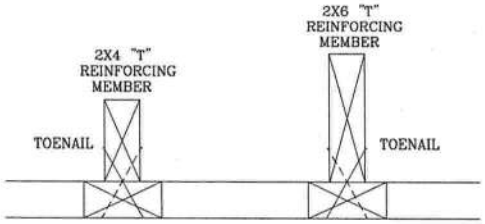
GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X8
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X8
GREATER THAN 11' 6"	2.5X4	2.5X8

(+) REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:





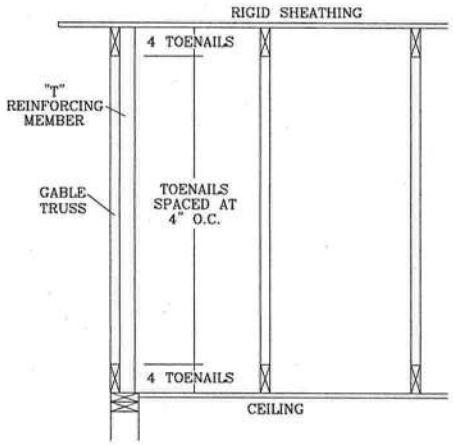
TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "L" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148"X 3.",MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5",MIN) TOENAILS IN TOP AND BOTTOM CHORD.
GUN DRIVEN NAILS:
8d COMMON (0.131"X 2.5",MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.
ASCE 7-93 GABLE DETAIL DRAWINGS
A11015EN0207, A10015EN0207, A09015EN0207, A08015EN0207, A07015EN0207, A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A08515EC0207, A13030EC0207, A12030EC0207, A11030EC0207, A10030EC0207, A08530EC0207
ASCE 7-02 GABLE DETAIL DRAWINGS
A13015EE0207, A12015EE0207, A11015EE0207, A10015EE0207, A08515EE0207, A13030EE0207, A12030EE0207, A11030EE0207, A10030EE0207, A08530EE0207
ASCE 7-05 GABLE DETAIL DRAWINGS
A13015E50207, A12015E50207, A11015E50207, A10015E50207, A08515E50207, A13030E50207, A12030E50207, A11030E50207, A10030E50207, A08530E50207

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

ALPINE
ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

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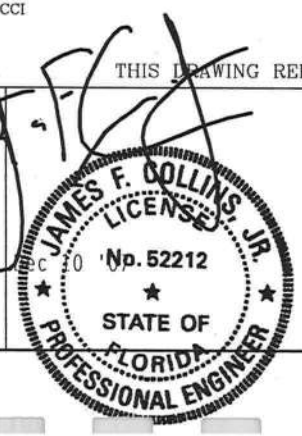


MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

REF	LET-IN VERT
DATE	2/23/07
DRWG	GBLLETIN0207
-ENG	DLJ/KAR

FLORIDA DEPARTMENT OF Community Affairs

Product Approval
USER: Public User

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

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

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

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

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

Summary of Products

FL #	Model, Number or Name	Description

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

Back Next

DCA Administration

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

Product Approval Accepts:

Underwriters Laboratories Inc.®

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

June 17, 2005

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

Our Reference: R2919

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

Let me know if you have any further questions.

Very truly yours,

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

Reviewed by,

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

TAMKO BUILDING PRODUCTS

Application Instructions for

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS

LAMINATED ASPHALT SHINGLES

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

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

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

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

I. ROOF DECK

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

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

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

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

TAMKO does not recommend re-roofing over existing roof.

2. VENTILATION

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

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

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

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

3. FASTENERS

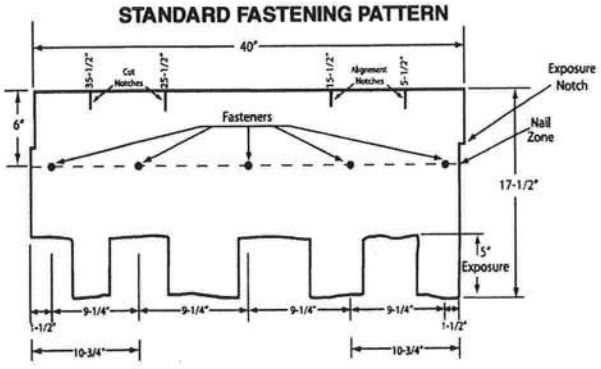
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede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

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

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

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

STANDARD FASTENING PATTERN



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

(Continued)

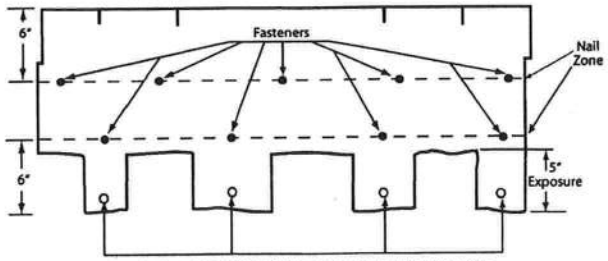
TAMKO® BUILDING PRODUCTS

(CONTINUED from Pg. 1)

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

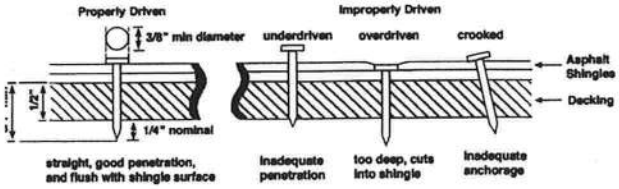
Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.

MANSARD FASTENING PATTERN



Apply under each tab 1" diameter asphalt adhesive cement.

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



4. UNDERLAYMENT

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

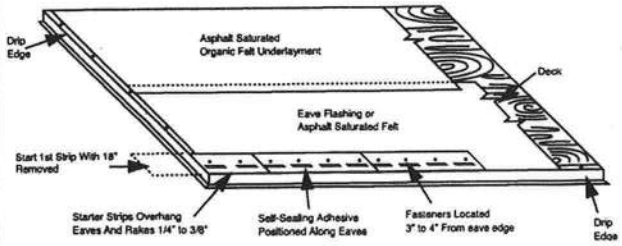
Products which are acceptable for use as underlayment are:

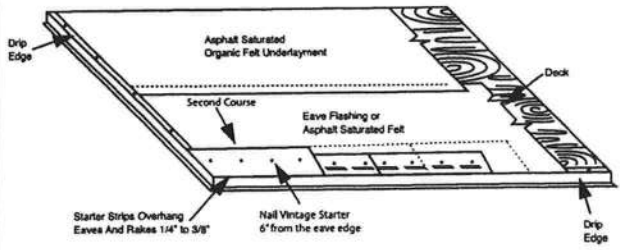
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation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

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

5. APPLICATION INSTRUCTIONS

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





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

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

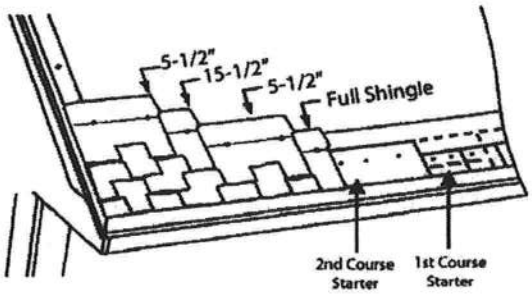
(Continued)

(CONTINUED from Pg. 2)

TAMKO BUILDING PRODUCTS

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

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



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

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

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

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

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

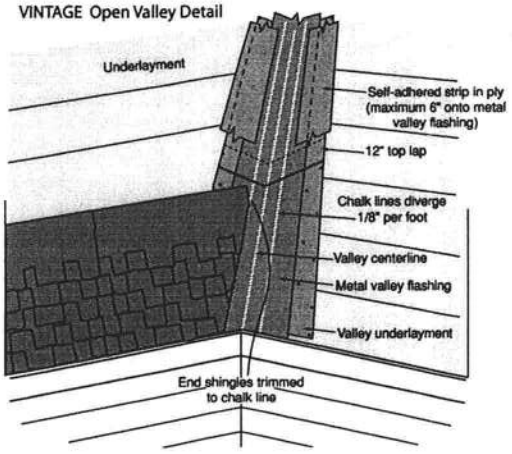
SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)
- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1/8" per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

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

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

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

VINTAGE Open Valley Detail



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

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.

(Continued)

(CONTINUED from Pg. 3)

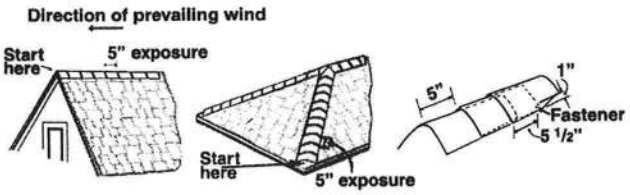
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

8. HIP AND RIDGE FASTENING DETAIL

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

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

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



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The Florida Department of Community Affairs
Building Code Information System

SITE NAVIGATION

Home
Florida Building Code
Manufact. Buildings
Prototype Building
Surcharges
Training
Product Approval
License Search
Mailing List
Florida Building Commission

PRODUCT APPROVAL

Product Type Detail

Overview | Product Search | Organization Search | Product Application

User: Public User - Not Associated with Organization -

Need Help ?

Application #:	FL1369
Date Submitted:	12/18/2003
Product Manufacturer:	Danvid Window Company
Address/Phone/email:	1813 Kelly Blvd. Carrollton, TX 75006
Technical Representative:	Anthony Jobb
Technical Representative Address/Phone/email:	1813 Kelly Blvd Carrollton, TX 75006 (972) 416-8140 tjobb@danvid.com
Category:	Windows
Subcategory:	Single Hung
Evaluation Method:	Certification Mark or Listing

Referenced Standards from the Florida Building Code:

Section	Standard	Year
	AAMA/NWWDA 101/I.S.2	1997
	ASTM E-330	1997

Certification Agency:	American Architectural Manufacturers Association
Quality Assurance Entity:	
Validation Entity:	
Authorized Signature:	Anthony Jobb tjobb@danvid.com
Evaluation/Test Reports Uploaded:	
Installation Documents Uploaded:	

Product Approval Method: Method 1 Option A

Application Status: Approved
Date Validated: 12/18/2003

Page: Page 1 / 1

Go

App/Seq #	Product Model # or Name	Model Description	Limits of Use
1369.3	180	Fin Frame Vinyl 44" x 60", H-R50, DP +50/-50	Per manufacturers installation instructions
1369.2	180	Fin Frame Vinyl 48" x 72", H-R35, DP +35/-35	Per manufacturers installation instructions
1369.1	180	Fin Frame Vinyl, 36" x 72", H-R50, DP +50/-50	Per manufacturers installation instructions
1369.4	2880	Fin Frame 44" x 60", H-R 35, DP +35/-35	Per manufacturers installation instructions
1369.7	300/2300	Fin Frame 48" x 72" Mulled Twin, DP +35/-38	Per manufacturers installation instructions
1369.5	300/2300	Fin Frame 44" x 84" Mulled w/89" x 44" Stacked, H-R35, DP +45/-45	Per manufacturers installation instructions
1369.6	300/2300	Fin Frame 44" X 60", H-R40, DP +40/-40	Per manufacturers installation instructions
1369.8	300/2300	Fin Frame 48" x 72" H-R35, DP +35/-35	Per manufacturers installation instructions
1369.9	500/2500	Fin Frame 44" x 84" H-R40, DP +40/-40	Per manufacturers installation instructions
1369.10	700/2700	Fin Frame Thermal Break 48" x 72", H-R30, DP +30/-30	Per manufacturers installation instructions
1369.11	800/2800	Fin Frame Thermal Break 44" x 84", H-R40, DP +40/-40	Per manufacturers installation instructions
		Fin Fram,e	

1369.12	96	Vinyl 48" x 72", H-R30, DP +30/-30	Per manufacturers installation instructions

Next

DANVID
Windows | Doors

A Division of Atrium

1813 Kelly Blvd.
Carrollton, TX 75006
Ph.: 972 416 8140 (Ext. 272/279)
972 416 0844 (Fax)

To: Amanda Company:

Fax: 850-575-0626

From: Tony Jobb Date: 7/1/04

Re: 500/2500 Fl # & Test Reports Pages: 7 Including cover

CC:

☐ Urgent ☐ For Review ☐ Please Comment

☐ Please Reply ☐ Please Recycle

Comments:
The Test report is of our thermally broken tilt window. We received waivers allowing us to qualify our 500/2500 under the same test report. The gold AAMA label shows this where it has 500/2500/800/2800 listed for series name. The FL# is 1369 for this product. Please call with any questions.

MavrickLABS

[redacted]

TEST REPORT

Submitted by: **Danvid Window Company** **1813 Kelly Boulevard** **Carrollton, Texas 75006**	
Lab Control Number: 08-30016.01	**Revised Report Date: April 17, 2003**
Customer Identification: Danvid	**Customer Contact:** Ken Novak 972-416-8140
Test Start Date: August 15, 2002	**Test Finish Date:** August 23, 2002
Description of Product Type:	**Partially Thermally Broken Tilt Aluminum Single Hung**
Designation:	**H-R40 44 x 84**
Specification:	**AAMA/NWWDA 101-I.S.2-97**
Series/Model:	**800 HP / 2800 HP**
Frame size:	**44 3/16" x 84 ¼"**
Sash size:	**42 5/8" x 30 3/8"**
Configuration of Test Item:	**O/X**
Location Where Tests Were Performed:	Mavrick Laboratories in Fort Worth, TX

PRODUCT DESCRIPTION

Weatherstripping: Two rows of pile with fin .210" high at each sash stile. One row of pile with fin .210" high at the sash top rail. One row of vinyl bulb ⅜" diameter at the sash bottom rail full width of the sash.

Hardware: One sweep lock located 6" on center from each end of the sash top rail. The locks engage a slot in the fixed meeting rail. The locks are secured by two #8 x ¾" metal screws. An aluminum sash stop is located at the top of each jamb. A spiral balance is located in each jamb and secured to the frame and sash stop with one #8 x ¾" hex head screw. One plastic sash guide at the top and bottom of each sash stile. One metal tilt pin at each end of the sash bottom rail. One plastic tilt latch at each end of the sash top rail.

Glass: Sealed insulated glass with two pieces of double strength annealed and 3/8" aluminum spacer. 5/8" overall thickness.

Glazing: Exterior glazed with bedding compound and a snap-in vinyl glazing bead at the exterior.

Weep Arrangement: Exterior leg of the sill notched to give a 2" opening at each end. The sill intermediate leg notched to give a 1 ¾" opening. One ¼" diameter hole located 6" from each end of the sash bottom rail glazing channel. One 1/8" hole located 2 ½" from each end of the fixed interlock glazing channel.

Sealant: All joints sealed with seam sealer full perimeter.

Other features: Frame corners secured with two #8 x 1" hex head metal screws. Fixed interlock secured by one #8 x ¾" hex head metal screw. Sash corners secured by one #8 x ¾" metal screw. A roll-formed aluminum screen with plastic corner keys was installed for water tests. The sash stiles must be notched at the bottom to allow clearance for the vinyl bulb weatherstripping backing. The unit consisted of a thermally broken frame and non-thermally broken sash and fixed interlock.

Installation Features: The window was secured to a #2 pine 2 x 4 buck with #6 x 1½" wood screws through the nailing fin at each corner and on 12" spacing.

TEST RESULTS

Paragraph No.	Test Method	Title of Test	Results Measured	Allowed
2.2.1.6.1	N/A	Operating Force Open Close	 29 lbs 10 lbs	 30 lbs 30 lbs
2.1.2	ASTM E 283-91	Air Infiltration Test[2] @1.57 psf	>0.01 cfm/Sq. Ft	.30 cfm/Sq. Ft
2.1.3	ASTM E 547-96	Water resistance @ 2.86 psf Without Screen	No Leakage	No Leakage
2.1.3	ASTM E 547-96	Water resistance @ 2.86 psf With Screen	No Leakage	No Leakage
4.3	ASTM E 547-96	Water resistance @ 6.0 psf Without Screen	No Leakage	No Leakage
4.3	ASTM E 547-96	Water resistance @ 6.0 psf With Screen	No Leakage	No Leakage
2.1.4.2	ASTM E 330-97	Uniform Load Structural[3] Positive Negative 10 Seconds Duration Permanent Set Positive Permanent Set Negative	 60.0 psf 63.0 psf .095" None	 60.0 psf 63.0 psf .170" .170"
2.1.8	ASTM F 588-97	Forced Entry Resistance Type A Grade 10 10.1.1 Lock Manipulation 10.2.1.1 Test A1 10.2.1.2 Test A2 10.2.1.3 Test A3 10.2.1.4 Test A4 10.2.1.5 Test A5 10.2.1.7 Test A7 10.2.1.8 Lock Manipulation	 No Entry No Entry No Entry No Entry No Entry No Entry No Entry No Entry No Entry	 No Entry No Entry No Entry No Entry No Entry No Entry No Entry No Entry No Entry
2.2.1.6.2	ASTM E 987-94	Deglazing Test Top Rail @ 70 lbs. Bottom Rail @ 70 lbs. Left Stile @ 50 lbs. Right Stile @ 50 lbs.	 15.9% 7.5% 7.5% 35.0%	 100% 100% 100% 100%

CASE NARRATIVE

Narrative including any Deviations or Supplements

[1] The 2800 HP and 800 HP are identical except for the nailing fin location. The 800 HP was tested.

[2] The tested specimen exceeds the performance requirements of AAMA/NWWDA 101/I.S.2-97 for air infiltration. The values are reported at the request of the manufacturer.

[3] No glass breakage or permanent deformation causing the unit to be inoperable.

Detailed extrusions and assembly drawings indicating measured wall thickness, corner construction, and hardware application are on file and have been compared to the test sample submitted. Test samples will be retained at Mavrick Laboratories, Inc. for a period of four years.

The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specifications. This report does not constitute certification of this product, which may only be granted by the certification program validator.

Results are for the test items submitted only. This report, if reproduced, must be reproduced in its entirety with written permission from Mavrick Laboratories, Inc.

Andy Cost

Andy Cost
Laboratory Manager

John H. Waskow
Regional Manager

Attachments:

- [X] Section and Part Drawings
- [X] Complete Assembly Drawings
- [X] Bill of Materials
- [ ] Window Installation Instructions

Florida Building Code Online

The Florida Department of Community Affairs
Building Code Information System

Product Type Data

PRODUCT APPROVAL

Overview | Product Search | Organization Search | Product Application

SITE NAVIGATION

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Prototype Buildings
Surcharges
Training
Product Approval
Licensee Search
Mailing List
Florida Building Commission

User: Public User - Not Associated with Organization -

Need Help ?

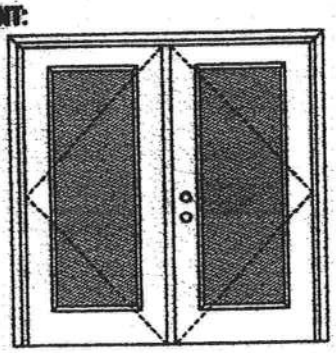
Application #:	FL1369
Date Submitted:	12/18/2003
Product Manufacturer:	Danvid Window Company
Address/Phone/email:	1813 Kelly Blvd. Carrollton, TX 75006
Technical Representative: Technical Representative Address/Phone/email:	Anthony Jobb 1813 Kelly Blvd Carrollton, TX 75006 (972) 416-8140 tjobb@danvid.com
Category:	Windows
Subcategory:	Single Hung
Evaluation Method:	Certification Mark or Listing
Referenced Standards from the Florida Building Code:	Section / Standard / Year AAMA/NWWDA 1997 101/I.S.2 ASTM E-330 1997
Certification Agency:	American Architectural Manufacturers Association
Quality Assurance Entity:	
Validation Entity:	
Authorized Signature:	Anthony Jobb tjobb@danvid.com
Evaluation/Test Reports Uploaded:	
Installation Documents Uploaded:	

XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



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

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

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

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

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

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

APPROVED DOOR STYLES:

1/4 GLASS:


100 Series


133, 135 Series


136 Series


680 Series


822 Series

1/2 GLASS:


105 Series*

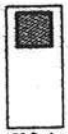

106, 160 Series*


129 Series*


200 Series*


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


107 Series*


108 Series


304 Series

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

Johnson EntrySystems

March 29, 2002
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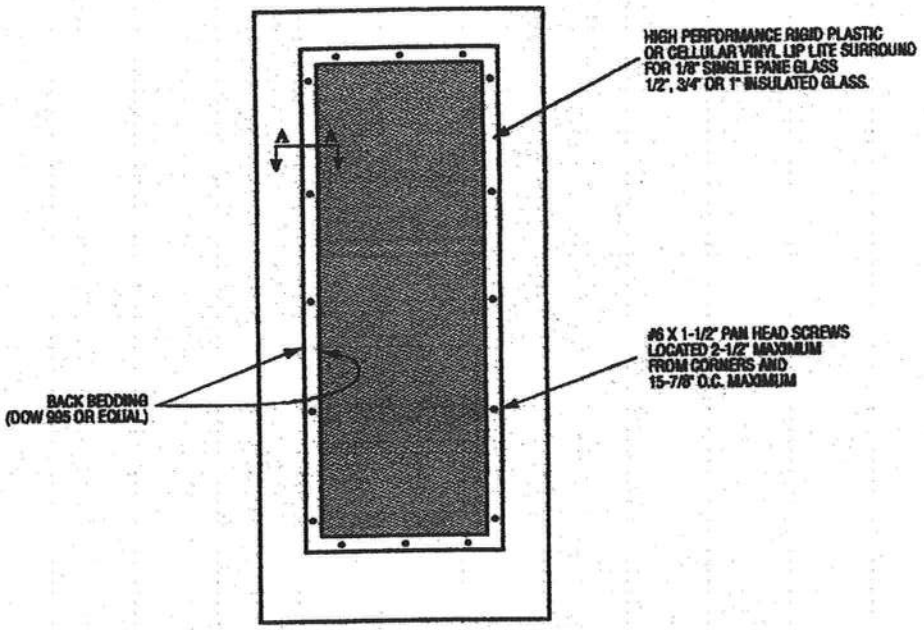
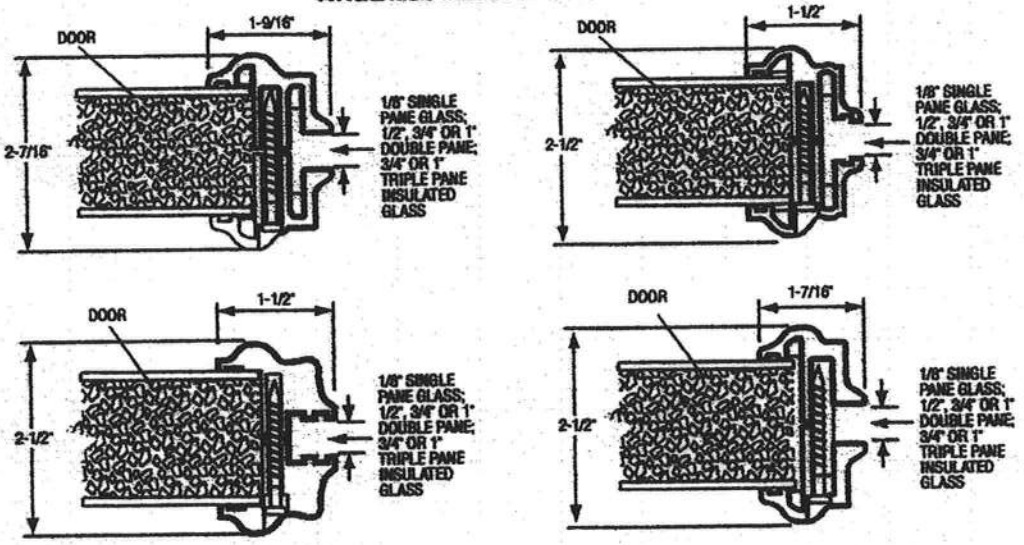
PREMDOR Collection Premium Quality Doors
Exclusively from Masonite
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



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XX
Glazed Outswing Unit

COP-WL-JH4162-02

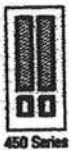
WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

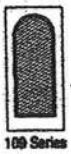
3/4 GLASS:

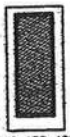

404 Series

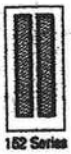

410 Series

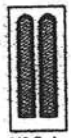

450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top end rails constructed of 0.041" steel. Bottom end rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip lite surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

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

Johnson EntrySystems

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PREMDOR Collection Premium Quality Doors

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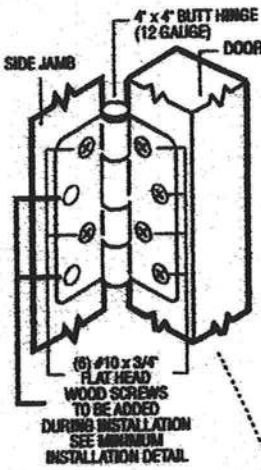
XX
Unit

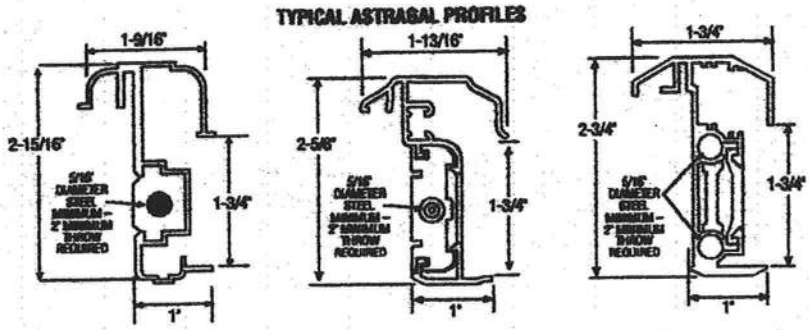
MAD-WL-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR

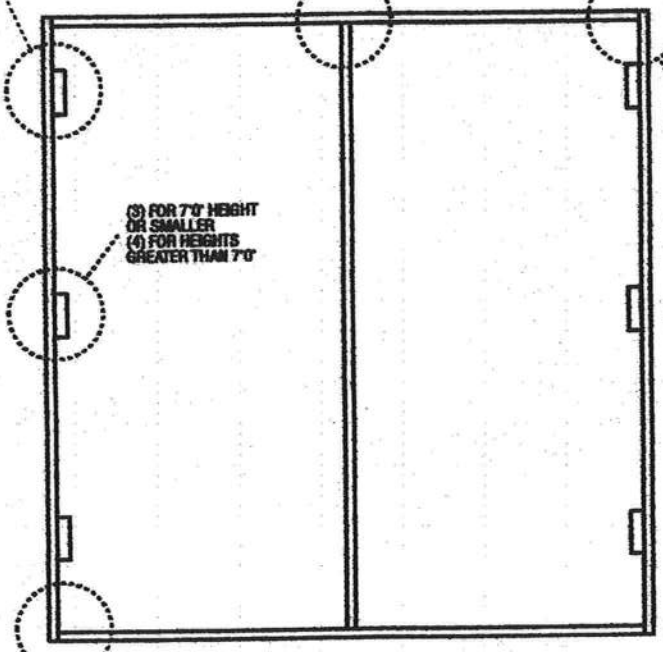
TYPICAL HINGE ATTACHMENT



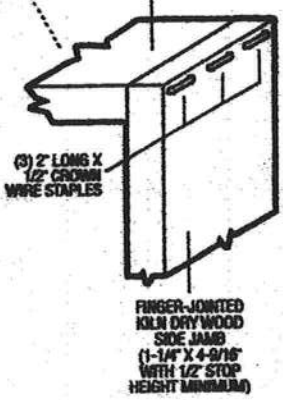
TYPICAL ASTRAGAL PROFILES



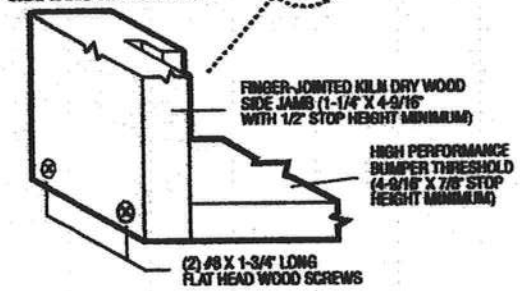
ALUMINUM EXTRUDED ASTRAGAL (0.05" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDERICAL/DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS -- LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL HEADER & SIDE JAMB ATTACHMENT



TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



PREMDOR Collection Premium Quality Doors

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March 29, 2002
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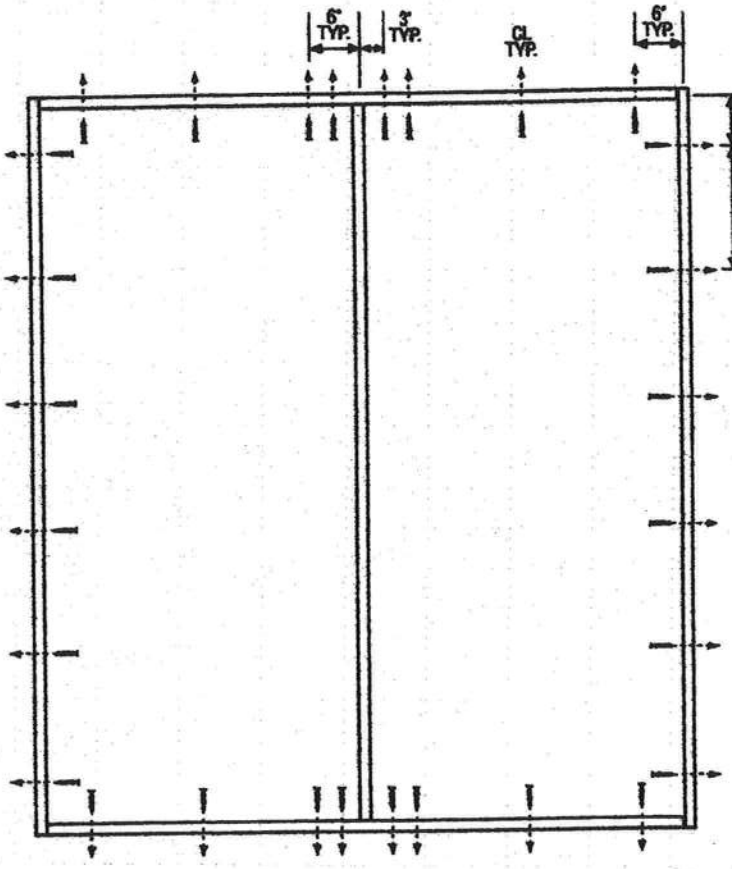
XX
Unit

MID-WL-MA0002-02

DOUBLE DOOR



Minimum Fastener Count

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

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

Latching Hardware:

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

Notes:

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

PREMDOR Collection
Premium Quality Doors

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Residential System Sizing Calculation

Summary

Roder Residence
SW Kemp CT.
Lake City, FL 32024-

Project Title:
Linda Roder

Code Only
Professional Version
Climate: North

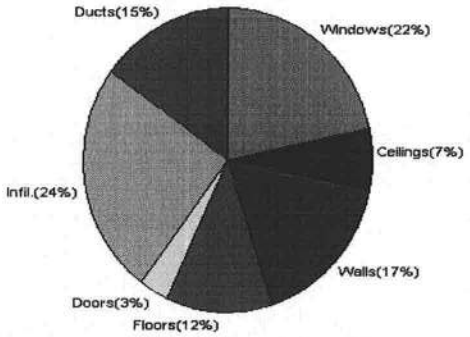
12/17/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**16003**	**Btuh**	**Total cooling load calculation**	**20785**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	93.7	15000	Sensible (SHR = 0.75)	67.3	11250
Heat Pump + Auxiliary(0.0kW)	93.7	15000	Latent	92.1	3750
			Total (Electric Heat Pump)	72.2	15000

WINTER CALCULATIONS

Winter Heating Load (for 900 sqft)

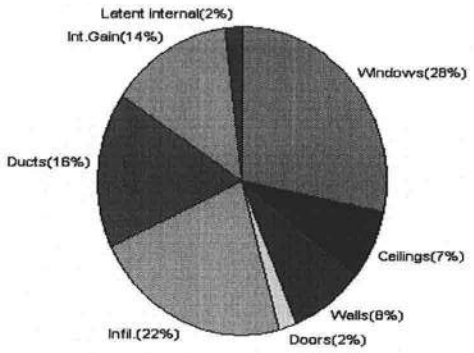
Load component			Load	
Window total	108	sqft	3477	Btuh
Wall total	812	sqft	2667	Btuh
Door total	40	sqft	518	Btuh
Ceiling total	900	sqft	1061	Btuh
Floor total	120	sqft	1962	Btuh
Infiltration	96	cfm	3889	Btuh
Duct loss			2430	Btuh
Subtotal			**16003**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**16003**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 900 sqft)

Load component			Load	
Window total	108	sqft	5893	Btuh
Wall total	812	sqft	1694	Btuh
Door total	40	sqft	392	Btuh
Ceiling total	900	sqft	1490	Btuh
Floor total			0	Btuh
Infiltration	84	cfm	1563	Btuh
Internal gain			2860	Btuh
Duct gain			2820	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**16712**	**Btuh**
Latent gain(ducts)			603	Btuh
Latent gain(infiltration)			3070	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			400	Btuh
Total latent gain			**4072**	**Btuh**
TOTAL HEAT GAIN			**20785**	**Btuh**



Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 12/17/07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Roder Residence
SW Kemp CT.
Lake City, FL 32024-

Project Title:
Linda Roder

Code Only
Professional Version
Climate: North

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

12/17/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
2	2, Clear, Metal, 0.87	N	9.0	32.2	290 Btuh
3	2, Clear, Metal, 0.87	E	9.0	32.2	290 Btuh
4	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
5	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
	Window Total		108(sqft)		3477 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	812	3.3	2667 Btuh
	Wall Total		812		2667 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	900	1.2	1061 Btuh
	Ceiling Total		900		1061Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	120.0 ft(p)	16.4	1962 Btuh
	Floor Total		120		1962 Btuh
			Envelope Subtotal:		9684 Btuh

Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=	
	Natural	0.80	7200	812	96.0	3889 Btuh
Ductload					(DLM of 0.179)	2430 Btuh
All Zones				**Sensible Subtotal All Zones**		**16003 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	16003 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	16003 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Roder Residence
SW Kemp CT.
Lake City, FL 32024-

Project Title:
Linda Roder

Code Only
Professional Version
Climate: North

12/17/2007

EQUIPMENT		
1. Electric Heat Pump	#	15000 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

Version 8
For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Roder Residence
SW Kemp CT.
Lake City, FL 32024-

Project Title:
Linda Roder

Code Only
Professional Version
Climate: North

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

12/17/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
2	2, Clear, Metal, 0.87	N	9.0	32.2	290 Btuh
3	2, Clear, Metal, 0.87	E	9.0	32.2	290 Btuh
4	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
5	2, Clear, Metal, 0.87	E	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
	Window Total		108(sqft)		3477 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	812	3.3	2667 Btuh
	Wall Total		812		2667 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		40		518Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	900	1.2	1061 Btuh
	Ceiling Total		900		1061Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	5	120.0 ft(p)	16.4	1962 Btuh
	Floor Total		120		1962 Btuh
			Zone Envelope Subtotal:		9684 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.80	7200	812 96.0	3889 Btuh
Ductload	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.179)				2430 Btuh
Zone #1			**Sensible Zone Subtotal**		**16003 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	16003 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	16003 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Roder Residence
SW Kemp CT.
Lake City, FL 32024-

Project Title:
Linda Roder

Code Only
Professional Version
Climate: North

12/17/2007

EQUIPMENT		
1. Electric Heat Pump	#	15000 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

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System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Roder Residence
SW Kemp CT.
Lake City, FL 32024-

Project Title:
Linda Roder

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 12/17/2007

Component Loads for Whole House

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	30.0	0.0	30.0	29	80	2385 Btuh
2	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	9.0	0.0	9.0	29	29	261 Btuh
3	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	9.0	0.0	9.0	29	80	716 Btuh
4	2, Clear, 0.87, None,N,N	E	9.5ft	8ft.	30.0	29.3	0.7	29	80	904 Btuh
5	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	29	80	1193 Btuh
6	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	15.0	15.0	0.0	29	34	434 Btuh
	Window Total				108 (sqft)					5893 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	812.0	2.1	1694 Btuh
	Wall Total		812 (sqft)		1694 Btuh
Doors	Type		Area (sqft)	HTM	Load
1	Insulated - Exterior		20.0	9.8	196 Btuh
2	Insulated - Exterior		20.0	9.8	196 Btuh
	Door Total		40 (sqft)		392 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	900.0	1.7	1490 Btuh
	Ceiling Total		900 (sqft)		1490 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	120 (ft(p))	0.0	0 Btuh
	Floor Total		120.0 (sqft)		0 Btuh
			Envelope Subtotal:		9469 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)		CFM=	Load
	SensibleNatural	0.70	7200	812		96.0	1563 Btuh
Internal gain		Occupants	Btuh/occupant			Appliance	Load
		2	X 230	+		2400	2860 Btuh
					Sensible Envelope Load:		13892 Btuh
Duct load					(DGM of 0.203)		2820 Btuh
					Sensible Load All Zones		**16712 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Roder Residence
SW Kemp CT.
Lake City, FL 32024-

Project Title:
Linda Roder

Code Only
Professional Version
Climate: North

12/17/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**13892 Btuh**
	Sensible Duct Load	2820 Btuh
	Total Sensible Zone Loads	**16712 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**16712 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	3070 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	603 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4072 Btuh**
	TOTAL GAIN	**20785 Btuh**

EQUIPMENT

1. Central Unit	#	15000 Btuh

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

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Roder Residence
SW Kemp CT.
Lake City, FL 32024-

Project Title:
Linda Roder

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 12/17/2007

Component Loads for Zone #1: Main

	Type*		Overhang		Window Area(sqft)			HTM		Load
Window	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	30.0	0.0	30.0	29	80	2385 Btuh
2	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	9.0	0.0	9.0	29	29	261 Btuh
3	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	9.0	0.0	9.0	29	80	716 Btuh
4	2, Clear, 0.87, None,N,N	E	9.5ft	8ft.	30.0	29.3	0.7	29	80	904 Btuh
5	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	15.0	0.0	15.0	29	80	1193 Btuh
6	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	15.0	15.0	0.0	29	34	434 Btuh
	Window Total				108 (sqft)					5893 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	812.0	2.1	1694 Btuh
	Wall Total		812 (sqft)		1694 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	40 (sqft)		392 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	900.0	1.7	1490 Btuh
	Ceiling Total		900 (sqft)		1490 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	5.0	120 (ft(p))	0.0	0 Btuh
	Floor Total		120.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		9469 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.70	7200	812	84.0	1563 Btuh

Internal gain	Occupants		Btuh/occupant		Appliance	Load
	2	X	230	+	2400	2860 Btuh

	Sensible Envelope Load:		13892 Btuh

Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)	(DGM of 0.203)	2820 Btuh
		Sensible Zone Load	**16712 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Roder Residence
SW Kemp CT.
Lake City, FL 32024-

Project Title:
Linda Roder

Code Only
Professional Version
Climate: North

12/17/2007

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**13892 Btuh**
	Sensible Duct Load	2820 Btuh
	Total Sensible Zone Loads	**16712 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**16712 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	3070 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	603 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**4072 Btuh**
	TOTAL GAIN	**20785 Btuh**

EQUIPMENT

1. Central Unit	#	15000 Btuh

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

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Roder Residence
SW Kemp CT.
Lake City, FL 32024-

Project Title:
Linda Roder

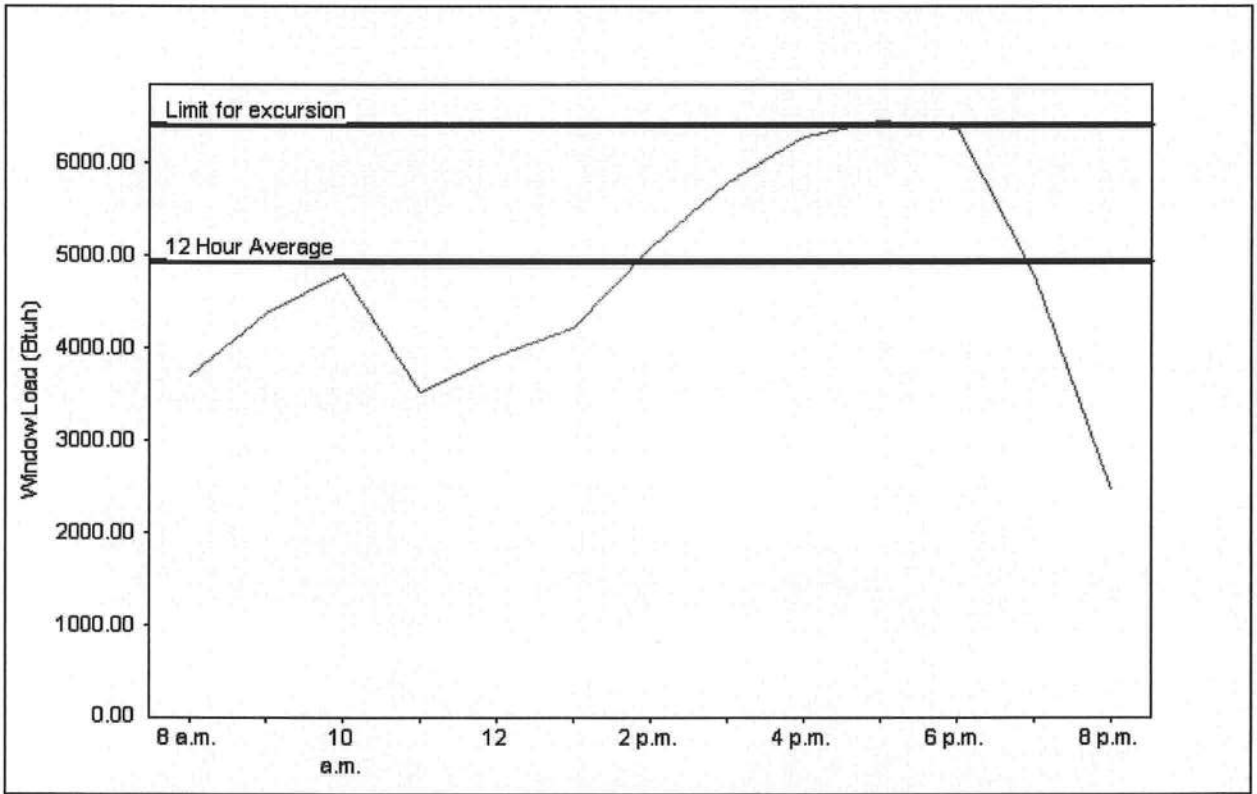
Code Only
Professional Version
Climate: North

12/17/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	4941 Btuh
Summer setpoint	75 F	Peak window load for July	6463 Btuh
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	6423 Btuh
Latitude	29 North	Window excursion (July)	40 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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

EnergyGauge® System Sizing for Florida residences only
PREPARED BY: _____
DATE: _____

Columbia County Building Permit Application

CK#1812

For Office Use Only Application # 0712-69 Date Received 12/19/07 By LT Permit # 26713

Zoning Official BLK Date 12.20.07 Flood Zone X FEMA Map # N/A Zoning A-3

Land Use A-3 Elevation N/A MFE 1st Fl River N/A Plans Examiner OKSTH Date 12-21-07

Comments Accessory Use

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

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

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

Fax 752-2282

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

Address 387 SW Kemp Ct Lake City FL 32024

Owners Name Linda Roder Phone 752-2281

911 Address 389 SW Kemp Ct Lake City FL 32024

Contractors Name Owner builder Linda Roder Phone 752-3108

Address 387 SW Kemp Ct Lake City FL 32024

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Will Myers

Mortgage Lenders Name & Address NA

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

Property ID Number 14-55-16-03612-000 Estimated Cost of Construction 30 K

Subdivision Name NA Lot ___ Block ___ Unit ___ Phase ___

Driving Directions 47 S, (1 mile past Columbia City) L on Gates go 1 mile, TL on Kemp Ct. turn R at small tan house with green roof, drive is between 2 houses, lot is behind tan house 4th lot on right

Number of Existing Dwellings on Property 1

Construction of mother-in-law suite Total Acreage 3.23 Lot Size 3.23

Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive) Total Building Height 15'-10"

Actual Distance of Structure from Property Lines - Front ~~237'~~ Side ~~45'~~ Side ~~256'~~ Rear ~~267'~~

Number of Stories 1 Heated Floor Area 900 Total ~~Heated~~ Floor Area ~~900~~ 1004 Roof Pitch 6-12

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

left message

12/27/07

Application # _____

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

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

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

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

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

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

X _____

Owners Signature

Affirmed under penalty of perjury to by the Owner and subscribed before me this 19th **day of** December **20**07.

Personally known ✓ **or Produced Identification** _____

_____ **SEAL:**

State of Florida Notary Signature (For the Owner)

Jonathan M. Handy
Commission # DD437748
Expires June 6, 2009
Bonded Troy Fain - Insurance, Inc. 800-385-7019

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.

X _____

Contractor's Signature (Permitee)

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

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

Personally known _____ **or Produced Identification** _____

_____ **SEAL:**

State of Florida Notary Signature (For the Contractor)

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

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

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed $75,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved for yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F .I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that if I am not physically doing the work or physically supervising free labor from friends or relatives, that I must hire licensed contractors, i.e. electrician, plumber, mechanical (heating & air conditioning), etc. I further understand that the violation of not physically doing the work, and the use of unlicensed contractors at the construction site, will cause the project to be shut down by the inspection staff of the Columbia County Building Department. Additionally, state statutes allows for additional penalties. I also understand that if this violation does occur, that in order for the job to proceed, I will have a licensed contractor come in and obtain a new permit as taking the job over. I understand that if I hire subcontractors under a contract price, that they must be licensed to work in Columbia County, i.e. masonry, drywall, carpentry. Contractors licensed by the Columbia County Contractor Licensing Section or the State of Florida are required to have worker's compensation and liability coverage.

TYPE OF CONSTRUCTION

( ) Single Family Dwelling ( ) Two-Family Residence ( ) Farm Outbuilding
(x) Other mother-in-law Suite ( ) Addition, Alteration, Modification or other Improvement

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

Linda Roder
Owner Builder Signature Date

FLORIDA NOTARY
The above signer is personally known to me or produced identification personally known
Notary Signature _____ Date 12-19-07

Jonathan M. Handy
Commission # DD437748
Expires June 6, 2009
Bonded Troy Fain - Insurance, Inc. 800-365-7019

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

Inst:2005020332 Date:08/22/2005 Time:11:50
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:1055 P:2235

Recording prepared by:

and when recorded, please return this deed and tax statements to:

Linda Roder
387 SW Kemp Court
Lake City, Fl 32024

Above reserved for official use only

Grantee's SS No:

Property Appraiser's Parcel ID #

GENERAL WARRANTY DEED

Corrective Warranty Deed

KNOW ALL MEN BY THESE PRESENTS THAT:

FOR A VALUABLE CONSIDERATION, in the amount of TEN AND NO/100 DOLLARS ($10.00) in hand and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned, Bill Becker AKA William Becker ("Grantor"), has GRANTED, SOLD and CONVEYED and by these presents does GRANT, BARGAIN, SELL and CONVEY to Linda Roder ("Grantee"), all right, title, interest and claim to the following real property in the City of Lake City, County of Columbia, State of Florida with the following legal description:

See Attached Exhibit A

Parcel 1 of Parent Parcel #14-55-16-03612-000

TO HAVE AND TO HOLD all of Grantor's right, title and interest in and to the above described property unto the said Grantee, Grantee's heirs, administrators, executors, successors and/or assigns forever IN FEE SIMPLE; so that neither Grantor nor Grantor's heirs, administrators, executors, successors and/or assigns shall have, claim or demand any right or title to the aforesaid property, premises or appurtenances or any part thereof.

Grantor further WARRANTS and agrees to FOREVER DEFEND all and singular the said property unto the said Grantee, Grantee's heirs, executors, administrators, successors and/or assigns, against every person whomsoever claming or to claim the same or any part thereof.

EXECUTED this day of August 18, 2005

X Wm C. Becker
(Signature of Grantor)

Grantee's Address:

387 SW Kemp Ct.
Lake City, Fl 32024

Grantors Address:

488 SW Meadow Terrace
Lake City FL 32024

Signed in our presence:

Terri A. Odo
(Witness Signature)

Print Name: Toni A. Odo

(Witness Signature)

Print Name: LINDA G. RUCKER

[redacted] Date:08/22/2005 Time:11:50
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:1055 P:2236

State of FLORIDA)
)
County of Columbia) ss

The foregoing instrument was acknowledged before me on August 18, 2005 by William Becker who is/are personally known by me or who has/have produced: drivers license as identification and who did not take an oath.

Terrie McCormack
Signature of Notary Public

Notary Public State of Florida
Terrie McCormack
My Commission DD403224
Expires [redacted]

Terrie McCormack
Printed Name of Notary

My commission expires:

Notary Public State of Florida
Terrie McCormack
My Commission DD403224
Expires [redacted]/2009

Inst:2005020332 Date:08/22/2005 Time:11:50
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:1055 P:2237

EXHIBIT A

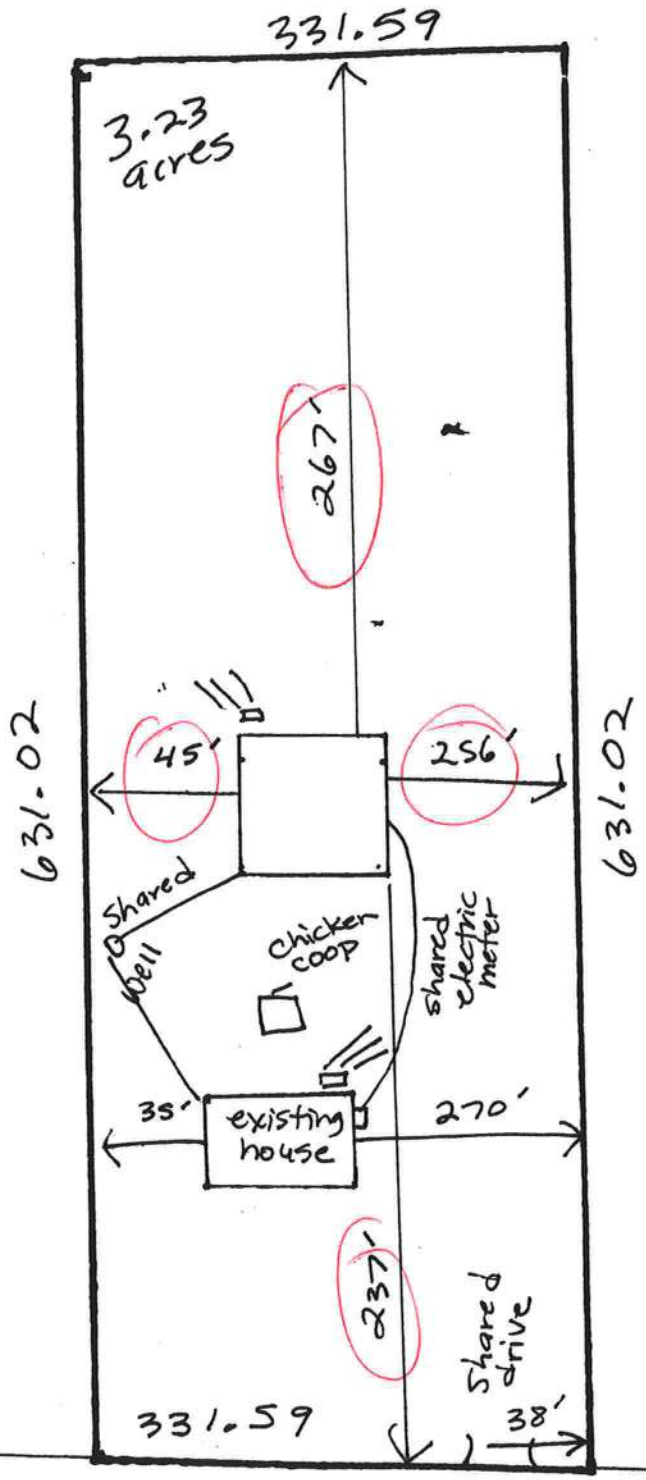
TOWNSHIPS SOUTH, RANGE 16 EAST

Parcel 1 of Parent Parcel

SECTION 14: Commence at the Northeast corner of the NE ¼ Section 14, Township 5 South, Range 16 East, Columbia County, Florida, and run S 88"47'26"W, 1321.65 feet run thence S 0 14'43" W, 990.00 feet for a POINT OF BEGINNING, run thence S 0 14'43" W, 337.20 feet thence S 88"52'41" W, 661.00 feet, run thence N 0 14'43" E, 337.20 feet, run thence N 88 52'41" E, 661.00 feet to the POINT OF BEGINNING, LESS AND EXCEPT 30.00 feet off the West side for road right of way purposes. SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF.

Parcel 2
Linda Roder Mother-in-law Suite
14-55-16-03612-000

N



existing address
387 SW Kemp Ct

SW Kemp Ct

FORM 600A-2004R

EnergyGauge® 4.5.2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Linda Roder**	Builder:	Linda Roder
Address:	**SW Kemp CT.**	Permitting Office:	Columbia
City, State:	**Lake City, FL 32024-**	Permit Number:	26713
Owner:	**Roder Residence**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	1	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	900 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description (Dble Default) Area 108.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 108.0 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=5.0, 120.0(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 812.0 ft²	
b.	N/A		
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 900.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 25.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 15.0 kBtu/hr SEER: 13.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 15.0 kBtu/hr HSPF: 7.70	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.92	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT,	

Glass/Floor Area: 0.12

Total as-built points: 9470

Total base points: 11258

PASS

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

PREPARED BY: _____

DATE: 12-17-07

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

OWNER/AGENT: _____

DATE: 12-18-07

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **SW Kemp CT., Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	900.0	18.59	3012.0	1.Double, Clear	W	1.5	8.0	30.0	38.52	0.96	1107.0	
				2.Double, Clear	N	1.5	8.0	9.0	19.20	0.97	167.0	
				3.Double, Clear	E	1.5	8.0	9.0	42.06	0.96	362.0	
				4.Double, Clear	E	9.5	8.0	30.0	42.06	0.47	594.0	
				5.Double, Clear	E	1.5	8.0	15.0	42.06	0.96	604.0	
				6.Double, Clear	S	1.5	8.0	15.0	35.87	0.92	496.0	
				As-Built Total:				**108.0**			**3330.0**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			13.0	812.0	1.50		1218.0	
Exterior	812.0	1.70	1380.4									
Base Total:	**812.0**		**1380.4**	**As-Built Total:**				**812.0**			**1218.0**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				20.0	4.10		82.0	
Exterior	40.0	6.10	244.0	2.Exterior Insulated				20.0	4.10		82.0	
Base Total:	**40.0**		**244.0**	**As-Built Total:**				**40.0**			**164.0**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	900.0	1.73	1557.0	1. Under Attic			30.0	900.0	1.73 X 1.00		1557.0	
Base Total:	**900.0**		**1557.0**	**As-Built Total:**				**900.0**			**1557.0**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	120.0(p)	-37.0	-4440.0	1. Slab-On-Grade Edge Insulation			5.0	120.0(p	-36.20		-4344.0	
Raised	0.0	0.00	0.0									
Base Total:			**-4440.0**	**As-Built Total:**				**120.0**			**-4344.0**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	900.0	10.21	9189.0					900.0	10.21		9189.0	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **SW Kemp CT., Lake City, FL, 32024-** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 10942.4			**Summer As-Built Points:**					**11114.0**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 15000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
			11114	1.00	(1.09 x 1.147 x 0.91)	0.260	0.950	3123.2
10942.4	**0.3250**	**3556.3**	**11114.0**	**1.00**	**1.138**	**0.260**	**0.950**	**3123.2**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **SW Kemp CT., Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	900.0	20.17	3268.0	1.Double, Clear	W	1.5	8.0	30.0	20.73	1.01	628.0
				2.Double, Clear	N	1.5	8.0	9.0	24.58	1.00	221.0
				3.Double, Clear	E	1.5	8.0	9.0	18.79	1.02	172.0
				4.Double, Clear	E	9.5	8.0	30.0	18.79	1.34	753.0
				5.Double, Clear	E	1.5	8.0	15.0	18.79	1.02	287.0
				6.Double, Clear	S	1.5	8.0	15.0	13.30	1.04	207.0
				As-Built Total:				**108.0**			**2268.0**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	13.0	812.0	3.40	2760.8
Exterior	812.0	3.70	3004.4					
Base Total:	**812.0**		**3004.4**	**As-Built Total:**		**812.0**		**2760.8**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	1.Exterior Insulated	20.0	8.40	168.0
Exterior	40.0	12.30	492.0	2.Exterior Insulated	20.0	8.40	168.0
Base Total:	**40.0**		**492.0**	**As-Built Total:**	**40.0**		**336.0**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X WCM	= Points
Under Attic	900.0	2.05	1845.0	1. Under Attic	30.0	900.0	2.05 X 1.00	1845.0
Base Total:	**900.0**		**1845.0**	**As-Built Total:**		**900.0**		**1845.0**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	120.0(p)	8.9	1068.0	1. Slab-On-Grade Edge Insulation	5.0	120.0(p	7.60	912.0
Raised	0.0	0.00	0.0					
Base Total:			**1068.0**	**As-Built Total:**		**120.0**		**912.0**

INFILTRATION	Area X	BWPM	= Points	Area X	WPM	= Points
	900.0	-0.59	-531.0	900.0	-0.59	-531.0

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **SW Kemp CT., Lake City, FL, 32024-** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**9146.4**	**Winter As-Built Points:**					**7590.8**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 15000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Int(AH),R6.0					
			7590.8	1.000	(1.069 x 1.169 x 0.93)	0.443	0.950	3711.5
9146.4	**0.5540**	**5067.1**	**7590.8**	**1.00**	**1.162**	**0.443**	**0.950**	**3711.5**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **SW Kemp CT., Lake City, FL, 32024-** PERMIT #:

BASE			AS-BUILT						
WATER HEATING									
Number of Bedrooms	X Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total
1	2635.00	2635.0	40.0	0.92	1	1.00	2635.00	1.00	2635.0
			As-Built Total:						**2635.0**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
3556	**5067**	**2635**	**11258**	**3123**	**3712**	**2635**	**9470**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **SW Kemp CT., Lake City, FL, 32024-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 87.4

The higher the score, the more efficient the home.

Roder Residence, SW Kemp CT., Lake City, FL, 32024-

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	1	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	900 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
	a. U-factor: (or Single or Double DEFAULT)	7a. Description (Dble Default)	Area 108.0 ft²
	b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear)	108.0 ft²
8.	Floor types		
	a. Slab-On-Grade Edge Insulation	R=5.0, 120.0(p) ft	
	b. N/A		
	c. N/A		
9.	Wall types		
	a. Frame, Wood, Exterior	R=13.0, 812.0 ft²	
	b. N/A		
	c. N/A		
	d. N/A		
	e. N/A		
10.	Ceiling types		
	a. Under Attic	R=30.0, 900.0 ft²	
	b. N/A		
	c. N/A		
11.	Ducts		
	a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 25.0 ft	
	b. N/A		

12.	Cooling systems	
	a. Central Unit	Cap: 15.0 kBtu/hr SEER: 13.00
	b. N/A	
	c. N/A	
13.	Heating systems	
	a. Electric Heat Pump	Cap: 15.0 kBtu/hr HSPF: 7.70
	b. N/A	
	c. N/A	
14.	Hot water systems	
	a. Electric Resistance	Cap: 40.0 gallons EF: 0.92
	b. N/A	
	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	PT,

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

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

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

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

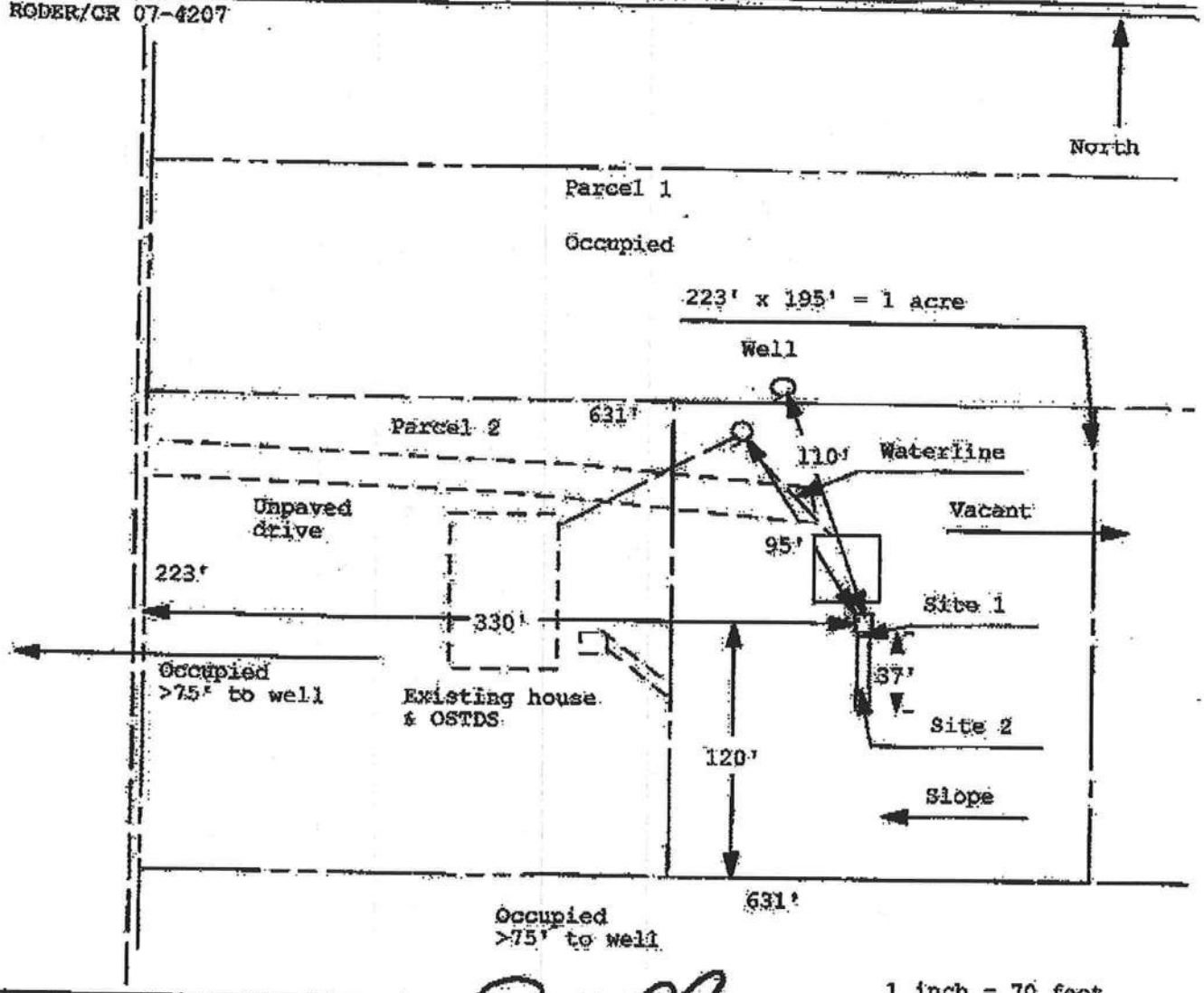
0712-59

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

Permit Application Number: 08-0018

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

RODER/CR 07-4207



1 inch = 70 feet

Site Plan Submitted By Paul Lloyd Date 12/21/07

Plan Approved ____ Not Approved ____ Date ____

By ____ CPHU

Notes: ____

0712-59

NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 14-55-16-03612-000

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

1. Description of property *(legal description)*:
   a) Street *(job)* Address: 387 SW Kemp Ct Lake City FL 32024
2. General description of improvements: Single family dwelling
3. Owner Information
   a) Name and address: Linda Roder 387 SW Kemp Ct Lake City FL 32024
   b) Name and address of fee simple titleholder (if other than owner)
   c) Interest in property
4. Contractor Information
   a) Name and address: owner-builder Linda Roder
   b) Telephone No.: 386-752-3108 Fax No. (Opt.)
5. Surety Information
   a) Name and address: NA
   b) Amount of Bond: NA
   c) Telephone No.:
6. Lender
   a) Name and address: NA
   b) Phone No.

Inst:200812001361 Date:1/23/2008 Time:10:43 AM
DC,P.DeWitt Cason,Columbia County Page 1 of 1

7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
   a) Name and address:
   b) Telephone No.: Fax No. (Opt.)
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes:
   a) Name and address:
   b) Telephone No.: Fax No. (Opt.)
9. Expiration date of Notice of Commencement **(the expiration date is one year from the date of recording unless a different date is specified)**:

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

STATE OF FLORIDA
COUNTY OF COLUMBIA

10. _____
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager

Linda Roder
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 23rd day of January, 20 08, by:

Barbara C Webster as Notary (type of authority, e.g. officer, trustee, attorney fact) for Linda Roder (name of party on behalf of whom instrument was executed).

Personally Known X OR Produced Identification ____ Type ____

Notary Signature Barbara C Webster Notary Stamp or Seal:

NOTARY PUBLIC STATE OF FLORIDA
Barbara C. Webster
Commission # DD329279
Expires July 2, 2008
Bonded Troy Fain - Insurance, Inc. 800-385-7019

—AND—

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

Return to:
Linda Roder
387 SW Kemp Ct
Lake City FL 32024

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

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

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

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise. 26713

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: P.O. Box 1795 City Lake City State FL Zip [illegible]
Company Business License No. JB108476 Company Phone No. [illegible]
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Kenny Rodes Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 344 S.W Kemp Ct. Lake City FL

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

Section 4: Treatment Information

Date(s) of Treatment(s) 3.3.04
Brand Name of Product(s) Used Biflex
EPA Registration No. 53883-179
Approximate Final Mix Solution % .06
Approximate Size of Treatment Area: Sq. ft. 1004 Linear ft. Linear ft. of Masonry Voids
Approximate Total Gallons of Solution Applied 100
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments Treated 30x30 & 8x13 Mono Slab

Name of Applicator(s) Steve Brannon Certification No. (if required by State law) JF104576

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

Authorized Signature Date 3-3-04

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

permit # 26713

Cal-Tech Testing, Inc.

• Engineering
• Geotechnical
• Environmental
Laboratories

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456
4784 Rosselle St., Jacksonville, FL 32254 • Tel(904)381-8901 • Fax(904)381-8902
2230 Greensboro Hwy • Quincy, FL 32351 • Tel(850)442-3495 • Fax(850)442-4008

REPORT OF IN-PLACE DENSITY TEST

JOB NO.: 08-00129
DATE TESTED: 2/22/08
DATE REPORTED: 2/26/08

PROJECT:	Roder Residence, Lake City, FL
CLIENT:	Linda Roder, Kenny Roder, 387 SW Kemp Court, Lake City, FL 32024
GENERAL CONTRACTOR:	Kenny Roder
EARTHWORK CONTRACTOR:	Kenny Roder
INSPECTOR:	Robert Edwards

ASTM METHOD: (D-2922) Nuclear

SOIL USE: BUILDING FILL

SPECIFICATION REQUIREMENTS: 95%

TEST NO.		TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft³)	MOISTURE PERCENT	DRY DENSITY (lb/ft³)	PROCTOR TEST NO.	PROCTOR VALUE	% MAXIMUM DENSITY
1		15' East of West End & 13' North of South Edge	12"	121.0	11.2	108.8	2	107.0	102%
2		10' North of South End & 5' West of East Edge	12"	119.1	11.5	106.8	2	107.0	100%
3		6' East of West End & 5' South of North Edge	12"	120.6	11.4	108.3	2	107.0	101%

REMARKS: The Above Tests Meet Specification Requirements.

PROCTORS

PROCTOR NO.		SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft³)	OPT. MOIST.	TYPE
2		Tan Sand w/Trace of Clay (Register Pit)	107.0	11.2	MODIFIED (ASTM D-1557)

Respectfully Submitted,
CAL-TECH TESTING, INC.

Linda Creamer, CEO, DBE

Linda M. Creamer
President - CEO

ee

Reviewed By:

Date: 2/26/08
Licensed, Florida No: 57842

CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 14-5S-16-03612-000 **Building permit No.** 000026713

Use Classification MOTHER-IN-LAW SUITE **Fire:** 0.00

Permit Holder SAME AS APPLICANT **Waste:**

Owner of Building LINDA RODER **Total:** 0.00

Location: 389 SW KEMP CT., LAKE CITY, FL

Date: 08/11/2008

Wayne A. Rush

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)