DATE 05/2	1/2008	Colum	bla County B	uilding Permit on Premises During Con	struction	PERMIT 000027034
A DDI ICANET	DADDAD		e Frommentiy Fosted	PHONE	365-0898	000027034
APPLICANT ADDRESS	209	A JOHNSTON SW BOUNDARY W	/AY	FORT WHITE	303 0070	FL 32038
OWNER	JOAN SA			PHONE	752-7800	<del>_</del>
ADDRESS	470	SE GATOR LN		LAKE CITY		FL 32025
CONTRACTO	R LEV	VIS WALKER		PHONE	497-1419	
LOCATION O	F PROPER	TY BAYA AV	E, R COUNTRY CLU	B, R WOODHAVEN RD,	, L SE PIUTE W	AY,
		R GATOR	, MOBILE HOME ON	LEFT		
TYPE DEVEL	OPMENT	RE-ROOF	ES	TIMATED COST OF CO	NSTRUCTION	5150.00
HEATED FLO	OR AREA		TOTAL ARI	EA	HEIGHT _	STORIES
FOUNDATION	м	WALI	LS F	ROOF PITCH	FL	OOR
LAND USE &	ZONING	NA		MAX	. HEIGHT 3	35
Minimum Set I	Back Requir	ments: STREET-	FRONT	REAR		SIDE
NO. EX.D.U.	1	FLOOD ZONE	NA	DEVELOPMENT PERM	MIT NO.	
PARCEL ID	16-4S-17-	08380-008	SUBDIVISIO	N		
LOT	BLOCK	PHASE	UNIT	TOTA	AL ACRES 1.	00
			RC0067442	Bark	Soio A	nhat
Culvert Permit	No.	Culvert Waiver C	Contractor's License Nur	1 )-20	Applicant/Owner	/Contractor
EXISTING		X08-183	LH	<u>L</u>	н	N
Driveway Conn	nection	Septic Tank Number	LU & Zoni	ng checked by App	proved for Issuance	ce New Resident
COMMENTS:	NOC ON	FILE, EXIXTING MH	l			
***************************************					Check # or C	ash CASH
		FOR BU	ILDING & ZONIN	NG DEPARTMENT	ONLY	(0.11)
Temporary Pow	ver	Lighteen Medical Security	Foundation			(footer/Slab)
		date/app. by			_ Monolithic _	
Under slab roug	gn-in blumb		OL I	date/app. by	_	date/app. by
	,	ing		date/app. by	_	date/app. by
Framing		ingdate/ap	p. by	date/app. by	Sheathing/	date/app. by
	date/ap	date/ap	p. by Rough-in plumbing al	date/app. by	Sheathing/	date/app. by
Framing	date/ap	date/ap	p. by Rough-in plumbing al	date/app. by  date/app. by  bove slab and below wood	Sheathing/	date/app. by  Nailing date/app. by  date/app. by
	date/ap h-in er	p. by  date/app  date/app	p. by Rough-in plumbing al	date/app. by  date/app. by  bove slab and below wood	Sheathing/	date/app. by  Nailing date/app. by  date/app. by
Electrical rough	date/ap h-in erda	p. by  date/app  date/app. by  te/app. by	p. by  Rough-in plumbing al  Heat & Air Duct  C.O. Final	date/app. by  date/app. by  bove slab and below wood	Sheathing/ I floor Peri. beam (Linte	date/app. by  Nailing date/app. by  date/app. by
Electrical rough	date/ap h-in erda	p. by  date/app  date/app	p. by  Rough-in plumbing al  Heat & Air Duct  C.O. Final	date/app. by  date/app. by bove slab and below wood  date/app. by  date/app. by	Sheathing/ I floor Peri. beam (Linte	date/app. by  Nailing date/app. by  date/app. by  date/app. by  date/app. by  date/app. by
Electrical rough	date/ap h-in er da blocking, el	p. by  date/app  date/app. by  te/app. by	p. by  Rough-in plumbing al  Heat & Air Duct  C.O. Final  date/app	date/app. by  date/app. by bove slab and below wood  date/app. by  date/app. by  D. by  Utility Pol	Sheathing/ I floor Peri. beam (Linte Culvert Pool	date/app. by  Nailing
Electrical rough	date/ap h-in er da blocking, el	p. by  date/app  date/app. by  te/app. by  lectricity and plumbing	P. by  Rough-in plumbing al  Heat & Air Duct  C.O. Final  date/app  Pump pole  date.	date/app. by  date/app. by  bove slab and below wood  date/app. by  date/app. by  Utility Pol	Sheathing/ I floor  Peri. beam (Linte  Culvert  Pool  date/app. by	date/app. by  Nailing date/app. by  date/app. by  date/app. by  date/app. by  date/app. by
Electrical rough Permanent power M/H tie downs, Reconnection M/H Pole	date/ap h-in er da blocking, el	p. by  date/app  date/app. by  te/app. by  lectricity and plumbing	P. by  Rough-in plumbing al  Heat & Air Duct  C.O. Final  date/app  Pump pole  date.	date/app. by  date/app. by bove slab and below wood  date/app. by  date/app. by  D. by  Utility Pol	Sheathing/ I floor  Peri. beam (Linte  Culvert  Pool  date/app. by	date/app. by  Nailing
Electrical rough Permanent power M/H tie downs, Reconnection M/H Pole	date/ap h-in  er  da blocking, el  te/app. by	date/app. by  te/app. by  te/app. by  date/app. by  date/app. by  Trav	P. by  Rough-in plumbing al  Heat & Air Duct  C.O. Final  date/app  Pump pole  date.	date/app. by  date/app. by bove slab and below wood  date/app. by  date/app. by  Utility Pol //app. by	Sheathing/ I floor  Peri. beam (Linte  Culvert  Pool  date/app. by	date/app. by  Nailing
Electrical rough Permanent power M/H tie downs, Reconnection M/H Pole	date/aph-inda blocking, ele/app. by	date/app. by  date/app. by  te/app. by  lectricity and plumbing  date/app. by  Trav	P. by  Rough-in plumbing algorithms and the second	date/app. by  date/app. by bove slab and below wood  date/app. by  date/app. by  Utility Pol //app. by	Sheathing/ If floor  Peri. beam (Linte  Culvert  Pool  e  date/app. by  Re-roof  SURCHARGE	date/app. by  Nailing
Electrical rough Permanent power M/H tie downs, Reconnection M/H Pole dat  BUILDING PEI MISC. FEES \$	date/aph-inda blocking, ele/app. by  RMIT FEE 0.00	date/ap  p. by  date/app. by  te/app. by  lectricity and plumbing  date/app. by	P. by  Rough-in plumbing algorithms and the second	date/app. by  date/app. by  bove slab and below wood  date/app. by  date/app. by  Utility Pol /app. by  E \$	Sheathing/ If floor  Peri. beam (Linter Culvert  Pool  de date/app. by Re-roof  SURCHARGE WAST	date/app. by  Nailing
Electrical rough Permanent power M/H tie downs, Reconnection M/H Pole dat  BUILDING PEI MISC. FEES \$	date/ap h-in  er  da blocking, el  te/app. by  RMIT FEE  0.00  LOPMENT	date/app. by  date/app. by  te/app. by  dectricity and plumbing  date/app. by  Trav  \$ 30.00  ZONING	P. by  Rough-in plumbing algorithms and the second	date/app. by  date/app. by  bove slab and below wood  date/app. by  date/app. by  Utility Pol  /app. by  Bate/app. by  E \$	Sheathing/ If floor  Peri. beam (Linter Culvert  Pool  de date/app. by Re-roof  SURCHARGE WAST	date/app. by  Nailing

**PERMIT** 

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.

## **Columbia County Building Permit Application**

For Office Use Only	Application #	0f05-41	Date Received	5/21/08 By LA	Permit# 2 7034
					Zoning
Land Use	Elevation	MFE	River	Plans Examiner	Date
Comments					
				Parcel #	ACARCA STATE OF THE STATE OF TH
S-1940 T N 1944		20		zation from Contracto	3
	THE RESERVE THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL	i area 🗆 i own o	or Fort vvnite	□ Town of Fort White	
Septic Permit No		, 2,			86 497 1452
				1	386 365 0898
				7 White F	
					86-152-1800
911 Address HO	10 SE bat	or Fu	Lake	City 31.	32025
Contractors Name	Lewis Li	Dalker.R	cofing c	lac Phone 3	86 497-1419
Address	) Box	82 F	7 Whil	e 31 30	820
Fee Simple Owner N			4	The state of the s	
Bonding Co. Name					
Architect/Engineer	Name & Address	V	JIA		
Mortgage Lenders N	lame & Address	,	NIA		
Circle the correct po	wer company – F	L Power & Light	Clay Elec.	)– Suwannee Valley	Elec Progress Energy
	16-45-17-0	8380 -008	X Estima	ted Cost of Constructi	on \$150.00
Subdivision Name_		<u> </u>	*	Lot Block_	Unit Phase
Driving Directions	Take Bay	a to Cour	try Club	"Rd turn "R	go Apprx 2 miles
turn Ron 1	woodhaven R	d go to	end tal	le L on SE	go Apprx 2 miles Piute Way then
Ron bater	Ln Mobilet	some on L	Et Numbe	of Existing Dwellings	on Property
Construction of	e roof mol	oile home		Total Acreage	Lot Size
Do you need a - <u>Cul</u>	vert Permit or Culv	vert Walver or H	lave an Existin	<u>a Drive</u> Total Buil	lding Height
Actual Distance of St	ructure from Prope	rty Lines - Front_	Side	side	Rear
Number of Stories	Heated Floor	Area 1620	Total Flo	oor Area <u>2080</u>	Roof Pitch 3/12
A !: !: !- !					

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

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

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

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

#### NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:

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

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

rs Signature

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

Contractor's Signature (Permitee)

Contractor's License Number

Columbia County

Competency Card Number 5883

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 21 day of

or Produced Identification

State of Florida Notary Signature (For the Contractor)

**ERIN E CROSBY** 

MY COMMISSION # DD704216 EXPIRES August 12, 2011

FloridaNotaryService.com

# COLUMBIA COUNTY, FLORIDA

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

Tax Parcel ID Number 110 - 45 - 17 - 08380-008 HX

1.	. Description of property:	(legal description of the	e property an	d street address or 011	addroon)
	Comp NE Cor	- 0+ NW +4 0+	- NW -13	Kien W Along	allies of SEC
	1 70t +1 8PE	OB KURS DOGK	+ WIDOGE	7 h) 2005, Pho	0 1 1 000
	ORB 553-664	812-1434 801	JUR TTI	DRS 876-1723	9 PF 70 FOI)
	St F. 169+ N	600 ft 1016ft	to PAR	000 000 200 A	10D CONT 5 600
2.	General description of in	provement: <u>Re</u>	C00+	mobile. Home	POB cont 5 600 CD 1003-2192 WP
3.	Owner Name & Address	Joan Soge	- 410	SE botor Ln	Lake City
	101 020	22	Inter	est in Property ()	wher.
4.	Name & Address of Fee S	imple Owner (if other t	han owner):	NIA	
	-				
5.	Contractor Name	wis Walker K	sorting .	Qnc Phone Number	386 497-1419
	Address PO	0x 82 F	+ Whil	e 41 -300.	90
6.	Surety Holders Name	101#		Phone Number	NIA
	Address	1 1 1 1 1			
	Amount of Bond	NIA			,
7.	Lender NameAddress	N	LA.	Phone Number	NA
	Address	NIA			<u> </u>
8.	Persons within the State or rved as provided by section	f Florida designated by	the Owner u	Ipon whom notices or of	her documents may be
sei		· · · · · · · · · · · · · · · · · · ·	COMMINS.		
	Name	MIM		Phone Number	NA
_	Addiess	N/A			
9.	In addition to himself/her	self the owner designat	es	NIA	of
	1014	to receive a c	opy of the L	lenor's Notice as provide	ed in Section 713.13 (1) -
40	(-) Hono Hamber Of th	ie designee	NIH		**
10.	Expiration date of the Not	ce of Commencement	(the expiration	on date is 1 (one) year fro	m the date of recording,
	(Unless a different date is	specified)			
			Inst 200	812009830	AM ge 1 of 1 B:1150 P:2220
he	TICE AS PER CHAPTER 71:	3, Florida Statutes:			
	owner must sign the notic	a or commencement an	ia no one els	e may be permitted to sig	ın in his/her stead.
				Sworn to (or affirmed) aday of	and subscribed before
	Jan Dage			NOTARY STAMP/SEAL	
	signature of Owner	5-1 BASBARA	OUNCTON	THE TOTAL	
		BARBARA A. J.  Rotary Public, Sta	ate of Florida	2	1
		My comm. expires A Bonded thru Asaton Agency, Inc. (8	n FISS79491	Darbora a	. Opn to
		mod and remon regondy, me. (o	00/201		

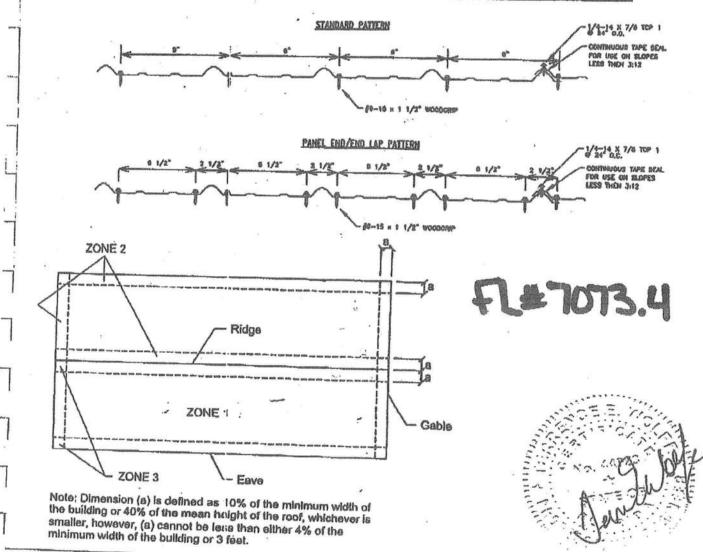
Signature of Notary

## TUFF-RIB 29 GA. LOAD TABLE OVER 1x4 WOOD PURLINS

**GULF COAST** 

Buildings having a Roof Mean Height≤ 20'-0"; Roof Slope: 2"/12" -12"/12"
Wind Speeds 110-140 mph, Exp C, I = 1.0, based on FLORIDA BUILDING CODE 2004

		TUFF-	RIB 29 GA. FA	ASTENER SPA	CING						
ZONE			WIND SPEED ZONE								
	FASTENER	SUBSTRATE	110	120	130	140					
			ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING	ON CENTER SPACING					
ZONE 1	#9-15 x 1-1/2"	1:4 WOOD FURLINS	24"	24"	24"	24°					
ZONE 2	#9-15 x 1-1/2"	11:4 WOOD FURLINS	24".	24°	24"	12"					
ZONE 3	#9-15 x 1-1/2"	1):4 WOOD FURLINS	24"	12"	12"	12"					



## Residential Trim

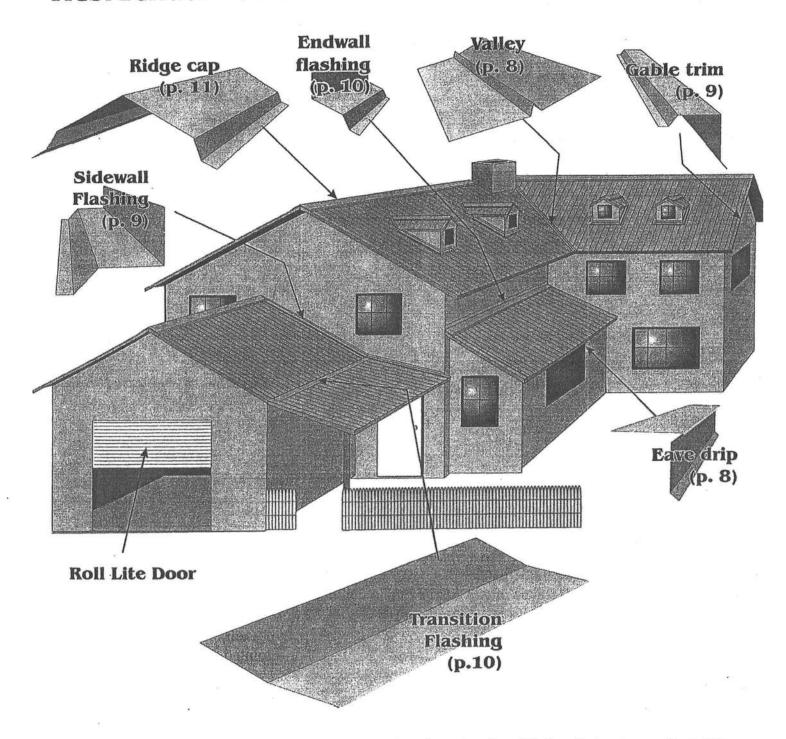
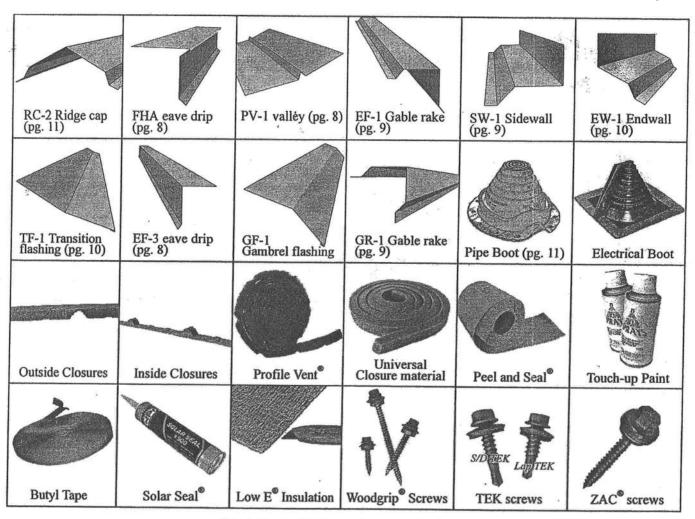


Figure 4 Roofing trims and flashings are named by the location or function of that particular piece on the building.



# Guide to Misc. Accessories

item	application
pipe boot	Fits over vent and heat pipes. Available also in heat-resistant boots.
electrical boot	Fits around pipes with inaccessible tops (such as weatherheads).
outside closures	Seals under ridge caps and transition and endwall flashings.
inside closures	Seals under panels, particularly on the eave.
Profile Vent®	Vented closure material surpassing many other venting systems.
universal foam	Seals irregular contact points (such as valleys).
Peel and Seal®	Seals hips under hip caps. Also, a general purpose sealing tape.
touch-up paint	Hides scratches and mars encountered in installation.
butyl tape	General purpose low-cost sealant, used on panel laps and under trim.
Solar Seal"	A superior general purpose caulk for all joints. Matches panel colors.
Low E <sup>®</sup> insulation	Greatly reduces radiant heat when installed under panels.
Woodgrip <sup>®</sup> screws	Used in all applications attaching metal to wood. 1", 1½", 2½" sizes.
TEK screws	Self-drilling TEK screws for metal purlins. Lap TEK screws draw together joints and attach trim.
ZAC screws	Heavy duty coated serews; available in woodgrip and self-drilling.

The Ridge Cap is used to seal the point at which two upward slopes meet. This can be both along the ridge of the roof as well as a covering for a hip. Either wooderip or selfdrilling lap TEK screws are applied through the ribs of the metal.

Figure 15 Ridge cap with outside closures in place.

Debris, insects,

and blowing rain can find easy access under the ridge cap, so closures are often used to either completely or partially seal the opening. Closures under ridge caps come in 3 types: solid, vented, and hip tape.

Solid closures ("Outside Closures") are the same width as the panels. The Aleck together in a row placed directly under the screws that attach the ridge cap, and form a solid, water-tight, air-tight barrier. (see Figure 14 on opposite page).

Profile Vent comes in 50 foot rolls, is 3 inches wide, and forms a waterrelardant, insect resistant barrier that allows hot air to escape from the attic, and is superior to many more elaborate and expensive vent systems. Any length may be ordered.

Hip closure tape (Peel and Seal®) is a sticky, adhesive-backed metallic tape that seals the hip roof. It is 6 inches wide and comes in 331/2 foot rolls. Because it must be conformed to the rise and fall of the panel ridges, approximately 10% extra may be needed beyond the length of the hip being covered.



Figure 16 Pipe Boots provide a watertight seal around roof vents and come in a variety of sizes. They seal with caulk and conform to the shape of the panel

Standard 12-inch Ridge Caps

are economical and adequate for most of your roofing needs

Over-sized Ridge Caps are available in 18-inch widths (hem to hem), or as a custom trim item in other widths

Available in total widths (2 times "a") of 14-, 16-, 18-, 20-, 22-, and 24-inch

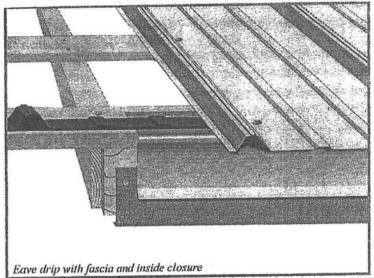
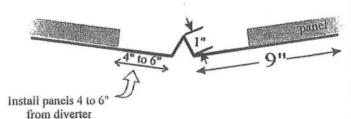
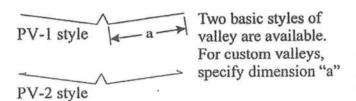


Figure 9 Eave drip and fascia give a finished look along the drip eave of the house, as well as providing protection for the materials they cover. The eave drip should completely cover the top edge of the fascia. Inside closures, which seal off the open ribs of the panels, are optional.

# FHA Style Eave drip For custom eave drip, specify the amount of the eave that will be covered (dimension "a"), and, for steeper roofs, specify pitch. If fascia is desired, be sure that the dimension you order will be hidden by the eave drip.







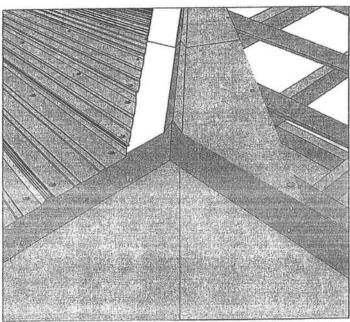


Figure 10 Pre-formed valleys use a diverter to prevent water from rushing under panels on the opposite side while meanwhile channeling water off the roof. Expanding foam closures are often used to assure a good seal.

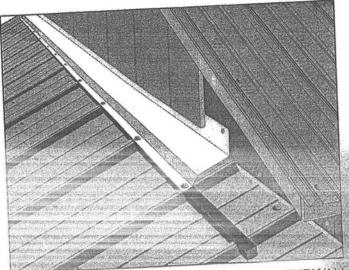
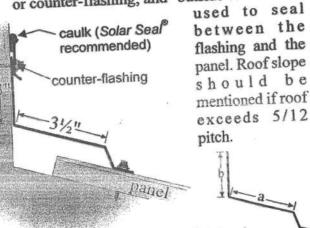


Figure 13 As with the ridge cap, the ENDWALL FLASHING above can be sealed using outside closures.

# End-wall Flashing

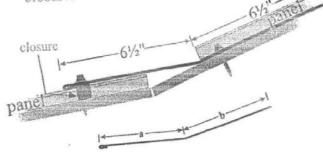
End-wall flashing is applied where the upward slope of a roof meets a wall. The wall side of the flashing can be covered with siding or counter-flashing, and outside closures are



For custom end-walls, specify roof pitch and dimensions "a" and "b".

# Transition Flashing

TRANSITION FLASHING prevents leakage at the point where two different roof pitches meet. It is sealed on the lower side with outside closures, and can be sealed underneath the upper panels with inside closures.



For custom transition flashing specify the pitches of the two roof slopes and, if necessary, dimensions "a" and "b".

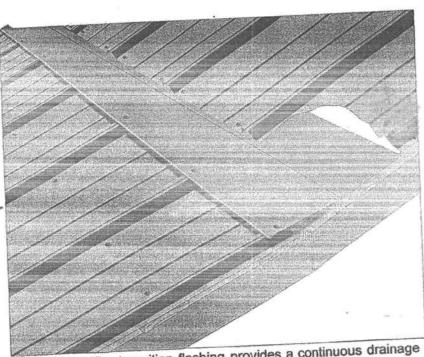
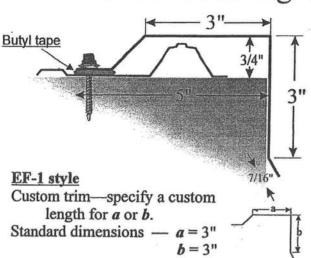


Figure 14 The transition flashing provides a continuous drainage where two slopes meet.

# Gable Flashing



## GR-1 style

Custom trim—specify a custom length for a or b.

Standard dimensions — a = 3"

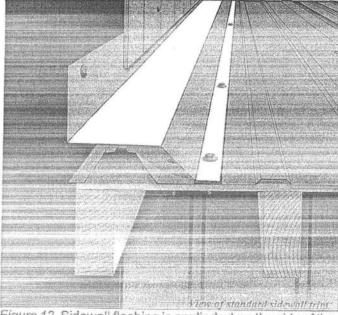


Figure 12 Sidewall flashing is applied when the side of the roof butts up against an adjacent wall. The wall-side of the flashing can either be covered over with siding or sealed with counterflashing. Butyl tape should be applied where the "foot" of the flashing attaches to the roof, and, if used, along the top edge of the counterflashing.

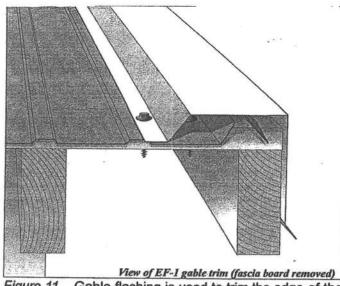
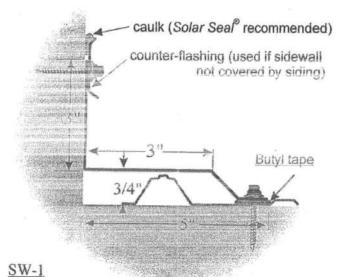


Figure 11 Gable flashing is used to trim the edge of the roofing panel at the gable end of the roof. It should match the eave drip that extends along the drip edge of the roof. If the panel is allowed to hang over the gable end, eave drip can be used instead. Butyl tape between the trim and panel eliminates leaks.

# ◀ Side-wall Flashing



Custom trim—specify a custom length for a or b.

Standard dimensions — a = 3" b = 3" the and

	12 inch	18 inch	24 inch	30 inc
50	270	180	135	108
100	540	360	270	216
200	1080	720	540	432
300	1620	1080	810	648
400	2160	1440	1080	864
500.	2700	1800	1350	1080
600	3240	2160	1620	1296
700	3780	2520	1890	1512
800	4320	2880	2160	1728
900	4860	3240	2430	1944
1000	5400	3600	2700	2160
1100	5940	3960	2970	2376
1200	6480	4320	3240	2592

Figure 6 Tuff-rib panel serew calculation chart

Panel lap detail

Lap Screw Apply sealant to lap overlap

purlin-bearing leg decking

Figure 7 On low-pitched roofs butyl tape or caulk should be applied at the panel lap to keep water from overflowing the lap. Note that the *underlap* side of the panel has a short purlin-bearing leg that rests on the roof decking.

## How to figure screws:

For 2-foot spacing between rows of screws, multiply the total linear feet of metal times 2.7

Example: your order is 1250 feet of Tuff-rib roofing.  $1250 \times 2.7 = 3375$  screws See table above for other spacings, or contact your Gulf Coast representative for a free estimate.

Gulf Coast Supply carries screws in 3 different lengths: 1 inch, 1½ inch, and 2½ inch. 1-inch screws will barely penetrate a 1x4, but the 1½ inch are the best all-purpose size. 1½- or 2½-inch screws are necessary for attaching ridge caps.

If care is taken, metal roofing application can be aided by pre-drilling panels, allowing screws to go quickly and accurately into the desired spacing. Pre-drilling will work provided that pilot holes <u>are placed accurately</u> in the proper locations on panels. Purlin spacing must be uniform and carefully measured.

To apply metal roofing over existing shingles, we recommend first overlaying the shingles with properly attached 1x4 purlins. If pressure treated purlins are used, felt paper should be applied over them in strips to prevent chemical interaction with the roofing panels. For solid decking, at least ½-inch plywood or its equivalent is required. For minimum penetration (such as might be desired over porches), 1-inch screws are recommended.

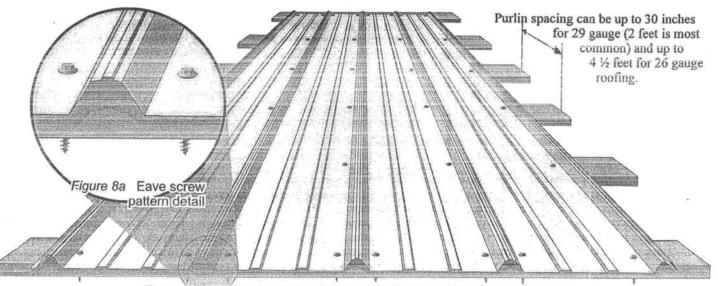


Figure 8 Screws should be placed on both sides of the ribs on the eave

## **Ordering Roof Panels and Screws**

Care should be taken to order panels of the correct length to avoid having to make corrective measures after purchase. Panel lengths should fall 2 to 3 inches short of the ridge when a vented ridge is desired, and should extend 2 to 3 inches past the eave to allow a sufficient drip edge (except as noted on pg. 3 concerning gutters). The Gulf Coast sales personnel are ready to assist customers with information specific to their particular roof.

Specially-washered screws applied through the flat of the metal is the most recommended method used to attach roofing panels. 1-inch screws can be used if penetration of only ¾ inch is either necessary or desired; otherwise, 1½ inch screws are usually recommended. 2½ inch screws are also available, and are often used by those who adhere to through-the-rib fastening, and for ridge-cap application. See page 6 for more information on screw spacing and ordering.

## Ordering and Applying Trim

The most common flashing for metal roofing is the *ridge cap*, which is used at the peak of a roof where two opposing roof slopes join. Other flashings include *transition flashing*, and *valleys* (see diagram on right for application). Eave flashings include *gable flashing* and *eave drip*, either of which are often applied above *fascia* trim. When roof pitch exceeds 5/12 (a 5 inch rise in 12 inches), the slope of the roof should be mentioned when ordering ridge caps, endwalls, and eave drip. When a steeper roof slope meets a lesser slope, both slopes should be mentioned when ordering transition flashing.

At the gable edge the use of gable trim adds to the appearance of the structure and protects the fly-rafter, and sidewall flashing is used where the *side* of a panel butts up against an adjacent wall. In either case, the installer should be careful to seal between the gable rake or sidewall and panel with butyl sealant tape, and to fasten the rake every 6" to 12" up the slope of the roof with the appropriate screws. If eave drip is used on the gable, the number of 90 degree eave drip should be specified separately from that used on the drip edge when ordering.

To prevent penetration of water, insects, and debris at the ridge, outside closures may be inserted between the ridge cap and the top end of the panel\*. Screws are applied through the ridge cap, closure, and rib in at least every other rib of the panels. At least a 1½" (and up to a 2½") screw should be used for attaching ridge caps. Self-drilling lap screws can also be used to attach ridge caps.

## Keep Materials Dry!

Paint and finishes of Gulf Coast panels and trim are designed to withstand severe rain and wet weather conditions. Neither paint, galvanized, or Galvalume finishes, however, are designed to be in continuous contact with water for long periods of time. Damage will result if uninstalled panels or trim are allowed to remain wet in storage. Be sure to store material that will not be installed immediately in a dry location. Wet material should be air-dried and re-stacked if installation is not planned right away.

## LETTER OF AUTHORIZATION

	Date: 05/21/08
	Columbia County Building Department P.O. Drawer 1529 Lake City, FL 32056
	Authorize Barbara Sohred to pull and sign permits on my
	behalf.
	Sworn to and subscribed before me this 2 day of May 2007  Notary Public: Crim E. Crosby  My commission expires: August 12, 2011  Personally Known  Produced Valid Identification:
1	Revised: 3/2006

## >> Print as PDF <<

DIN W MICHG N LINE OF SEC	11/4,	SAGE JOAN	L TOP IN		16-4S-17-	-08380	-008			1	Columbia	County	2008	R
COMM NE COR OF NW1/4 OF NW RUN W ALONG N LINE OF SEC FT FOR POB, RUN S 209 FT, 209 FT, N 209 FT, E 209 FT	W I	LAKE CITY	, FL 32025				PRIN APPR	TED	4/15/20 6/13/20	008	15:21 DFTW	C	BY JE	FF
BUSE 000800 MOBILE HME  ###################################	AE? Y 1.00	16 17 537	20 HTD AREA 35 EFF AREA 87 RCN	106.90 31.00	O INDEX 1 E-RATE	1641 100	7.00 .000	DIST INDX AYB	2 STR MKT #	16-	PUSE 4S- 17	000200	MOBILE	HOME
% N/A BDRM	3	37.	00 %GOOD	19,901	BLDG VAI	L	1984	EYB	(PUD1		. 06		3.4	00 XFOR
RSTR 03 GABLE/HIP RMS									AC	7.0	1.000		21.2	00 LANT
RCVR 03 COMP SHNGL UNTS		3FIELD	CK:		HX	AppYr	2008	3	NTCD					0 AG
% N/A C-W%		a LOC:	470 GATOR LN	SE LAKE	CITY			3	APPR	CD				0 MKAG
INTW 05 DRYWALL HGHT		3						3	CNDO				44,5	01 JUST
% N/A PMTR		3	+30-	+				3	SUBD				200201100	0 CLAS
FLOR 14 CARPET STYS	1.0	3	1UOP1993	1				3	BLK					
10% 08 SHT VINYL ECON		3	0	0				3	LOT					0 SOHE
HTTP 04 AIR DUCTED FUNC		3 +	+30-	+	23-	+		3	MAP#					0 ASSI
A/C 03 CENTRAL SPCD		3 IBAS1	993			I		3	HX					0 EXPT
QUAL 05 05 DEPR 0	9	3 I				I		3	TXDT		002			0 COTX
NDN N/A UD-1	N/A	3 I				I		3						
SIZE N/A UD-2 CEIL N/A UD-3		3 2				2		3 .			BLDG	TRAVER	SE	
EIL N/A UD-3	477.4.4	3 7				7					UOP1993			
RCH N/A UD-4	N/A	3 I				I					P1993= S8			
RME 01 NONE UD-5	MIL	3 T				I		3 /	14-00 D1	0 11	0 111 00 01	E MOTA		
FRME 01 NONE UD-5 CTCH 01 01 UD-6	N/A	3 I				I		3						
NNDO N/A UD-7	N/A	3 4	35		10 . 16			3						
		(A)			-10-+1	J++								
CLAS N/A UD-8	N/A	3		8	8	8		3						
CLAS N/A UD-8 DCC N/A UD-9	N/A N/A	3		8	8 21993UOP20	8		3						
CLAS N/A UD-8 CCC N/A UD-9 COND 03 03 %	N/A N/A N/A	3 3 3		8 IUO	8 91993UOP20 -10-+10	8 004 0-+		3 3 3			PEI	RMITS -		
CLAS N/A UD-8 CCC N/A UD-9 COND 03 03 % SUB A-AREA % E-AREA	N/A N/A N/A SUB VALUE	3 3 3 3		8 IUO! +	8 P1993UOP20 -10-+10	8 004 0-+		3 3 3	NUMBER		PEH	RMITS -	AMT	TSSUED
CLAS N/A UD-8 CC N/A UD-9 COND 03 03 SUB A-AREA & E-AREA AS93 1620 100 1620	N/A N/A N/A SUB VALUE	3 3 3 2 3		1UO	8 P1993UOP20 -10-+10	8 004 0-+		3 3 3 3	NUMBER		DESC	RMITS -	AMT	ISSUED
CLAS N/A UD-8 DCC N/A UD-9 COND 03 03 % SUB A-AREA % E-AREA BAS93 1620 100 1620 TOP93 380 25 95	N/A N/A N/A SUB VALUE 18582	3 3 3 5 2 3 2 3	35	+ 8	8 P1993UOP20 -10-+10	8 004 0-+		3 3 3 3 3 3	NUMBER		DESC	RMITS -	AMT	ISSUED
10293 380 25 95	1090	, ,		8 IUO +	8 P1993UOP20 -10-+10	8 004 0-+		3						
JOP93 380 Z5 95	1090	, ,		8 IUOI +	21993UOP20 -10-+10	8 004 0-+		3 -			9	SALE		
10293 380 25 95	1090	3 3		8 IUOI +	21993UOP20 -10-+10	8 004 0-+		3 -			9	SALE		
10293 380 25 95	1090	3 3		8 IUOI +	P1993UOP20	8 004 )-+		3 -			9	SALE		
10293 380 25 95	1090	3 3		8 IUO1 +	8 8 91993UOP20 10-+10	8 004 )-+		3 E	300K F 1138 FRANTOR	PAGE 4: JAMI	DATE 7 12/07/ DATE 7 12/07/	SALE		
JOP04 80 25 20	225	3 3 3 3 3 3						3 - 3 E 3 G	BOOK F 1138 BRANTOR BRANTEE	PAGE 4: JAMI JOAN	DATE 37 12/07/ ES & KEII N L SAGE	SALE E /2007 Q DI WELL	I S	PRICE 675
10P04 80 25 20	225	3 3 3 3 3 3						3 - 3 E 3 G	BOOK F 1138 BRANTOR BRANTEE	PAGE 4: JAMI JOAN	DATE 37 12/07/ ES & KEII N L SAGE	SALE E /2007 Q DI WELL	I S	PRICE 675
JOP04 80 25 20	225	3 3 3 3 3 3 3 3						3 -3 E	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR	PAGE 4: JAMI JOAN 88 JOAN	DATE 37 12/07/ ES & KEII N L SAGE 89 9/30/ NNE T PER	SALE E /2007 Q DI WELL /2004 Q	I S	PRICE 675
JOP04 80 25 20	225	3 3 3 3 3 3 3 3						3 -3 E	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR	PAGE 4: JAMI JOAN 88 JOAN	DATE 37 12/07/ ES & KEII N L SAGE 89 9/30/ NNE T PER	SALE E /2007 Q DI WELL /2004 Q	I S	PRICE 675
JOP04 80 25 20	225	3 3 3 3 3 3 3 3						3 -3 E	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR	PAGE 4: JAMI JOAN 88 JOAN	DATE 37 12/07/ ES & KEII N L SAGE 89 9/30/ NNE T PER	SALE E /2007 Q DI WELL /2004 Q	I S	PRICE 675
JOP04 80 25 20	225	3 3 3 3 3 3 3 3						3 -3 E	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR	PAGE 4: JAMI JOAN 88 JOAN	DATE 37 12/07/ ES & KEII N L SAGE 89 9/30/ NNE T PER	SALE E /2007 Q DI WELL /2004 Q	I S	PRICE 675
10P04 80 25 20	225	3 3 3 3 3 3 3 3						3 -3 E	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR	PAGE 4: JAMI JOAN 88 JOAN	DATE 37 12/07/ ES & KEII N L SAGE 89 9/30/ NNE T PER	SALE E /2007 Q DI WELL /2004 Q	I S	PRICE 675
TOTAL 2080 1735EXTRA FEATURES NE BN CODE DESC 1 10190 FPLC PF 2 0294 SHED WOOD/VI	19901 LEN V	NID HGHT		FIELD CK: ADJ .00	UNITS U 1.000 U 240.000 S	UT UT SF	PRIO 1600.	3 3 6 3 6 3 6 3 6 3 6 3 6 3 6 5 7 6 7 7 7 8	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR FRANTEE ADJ UT 1600.	PR 000 500	DATH 37 12/07/ ES & KEII N L SAGE 89 9/30, NNE T PER ES A & HE	%GO 100.	I S I LLS OD XFO	PRICE 675 399 B VALUE 1,600 1,800
TOTAL 2080 1735EXTRA FEATURES AE BN CODE DESC 7 1 0190 FPLC PF 7 0294 SHED WOOD/VI	19901 LEN V	NID HGHT		FIELD CK: ADJ .00	UNITS U 1.000 U 240.000 S	UT UT SF	PRIO 1600.	3 3 6 3 6 3 6 3 6 3 6 3 6 3 6 5 7 6 7 7 7 8	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR FRANTEE ADJ UT 1600.	PR 000 500	DATH 37 12/07/ ES & KEII N L SAGE 89 9/30, NNE T PER ES A & HE	%GO 100.	I S I LLS OD XFO	PRICE 675 399 B VALUE 1,600 1,800
TOTAL 2080 1735EXTRA FEATURES AE BN CODE DESC 7 1 0190 FPLC PF 7 0294 SHED WOOD/VI	19901 LEN V	NID HGHT		FIELD CK: ADJ .00	UNITS U 1.000 U 240.000 S	UT UT SF	PRIO 1600.	3 3 6 3 6 3 6 3 6 3 6 3 6 3 6 5 7 6 7 7 7 8	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR FRANTEE ADJ UT 1600.	PR 000 500	DATH 37 12/07/ ES & KEII N L SAGE 89 9/30, NNE T PER ES A & HE	%GO 100.	I S I LLS OD XFO	PRICE 675 399 B VALUE 1,600 1,800
TOTAL 2080 1735EXTRA FEATURES AE BN CODE DESC 7 1 0190 FPLC PF 7 0294 SHED WOOD/VI	19901 LEN V	NID HGHT		FIELD CK: ADJ .00	UNITS U 1.000 U 240.000 S	UT UT SF	PRIO 1600.	3 3 6 3 6 3 6 3 6 3 6 3 6 3 6 5 7 6 7 7 7 8	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR FRANTEE ADJ UT 1600.	PR 000 500	DATH 37 12/07/ ES & KEII N L SAGE 89 9/30, NNE T PER ES A & HE	%GO 100.	I S I LLS OD XFO	PRICE 675 399 B VALUE 1,600 1,800
TOTAL 2080 1735EXTRA FEATURES NE BN CODE DESC 1 10190 FPLC PF 2 0294 SHED WOOD/VI	19901 LEN V	NID HGHT		FIELD CK: ADJ .00	UNITS U 1.000 U 240.000 S	UT UT SF	PRIO 1600.	3 3 6 3 6 3 6 3 6 3 6 3 6 3 6 5 7 6 7 7 7 8	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR FRANTEE ADJ UT 1600.	PR 000 500	DATH 37 12/07/ ES & KEII N L SAGE 89 9/30, NNE T PER ES A & HE	%GO 100.	I S I LLS OD XFO	PRICE 675 399 B VALUE 1,600 1,800
TOTAL 2080 1735EXTRA FEATURES AE BN CODE DESC 7 1 0190 FPLC PF 7 0294 SHED WOOD/VI	19901 LEN V	NID HGHT		FIELD CK: ADJ .00	UNITS U 1.000 U 240.000 S	UT UT SF	PRIO 1600.	3 3 6 3 6 3 6 3 6 3 6 3 6 3 6 5 7 6 7 7 7 8	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR FRANTEE ADJ UT 1600.	PR 000 500	DATH 37 12/07/ ES & KEII N L SAGE 89 9/30, NNE T PER ES A & HE	%GO 100.	I S I LLS OD XFO	PRICE 675 399 B VALUE 1,600 1,800
OP93 380 25 95 OP04 80 25 20	19901 LEN V	NID HGHT		FIELD CK: ADJ .00	UNITS U 1.000 U 240.000 S	UT UT SF	PRIO 1600.	3 3 6 3 6 3 6 3 6 3 6 3 6 3 6 5 7 6 7 7 7 8	BOOK F 1138 FRANTOR FRANTEE 1027 FRANTOR FRANTEE ADJ UT 1600.	PR 000 500	DATH 37 12/07/ ES & KEII N L SAGE 89 9/30, NNE T PER ES A & HE	%GO 100.	I S I LLS OD XFO	PRICE 675 399 B VALUE 1,600 1,800