

ProfileVent®

THE RIDGE VENT CUT TO FIT

Technical Catalog

THE REVOLUTIONARY
VENTILATION
SYSTEM FOR
COMMERCIAL
AND RESIDENTIAL
METAL ROOFS



Volume **17**

ProfileVent[®]

THE RIDGE VENT CUT TO FIT

PANEL PROFILES

Most profiles are available in the following sizes:

20FT, 50FT AND 100FT

Note: Illustrations are not to scale and are representative of metal panel profiles,
not the final ProfileVent[®] product.

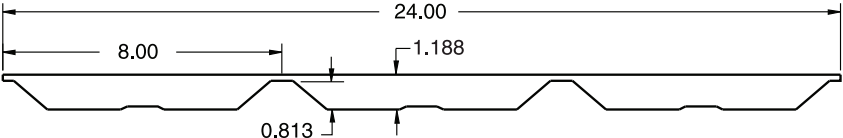
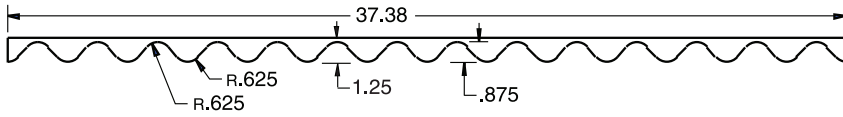
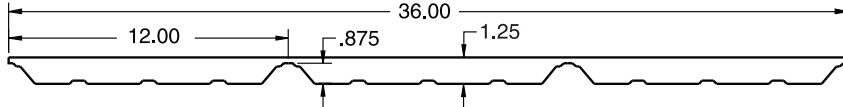
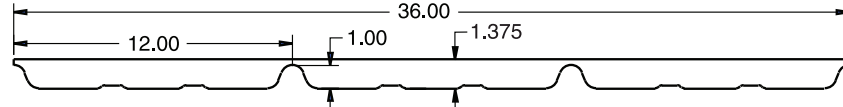
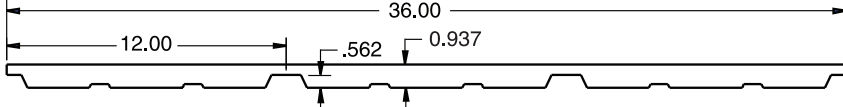
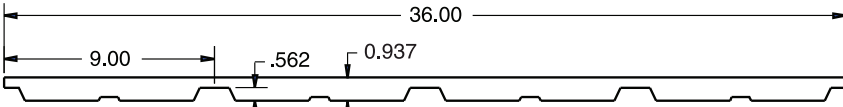
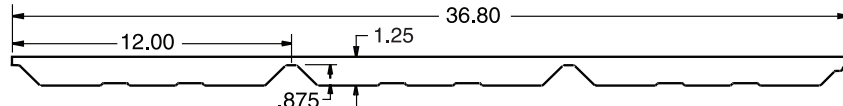
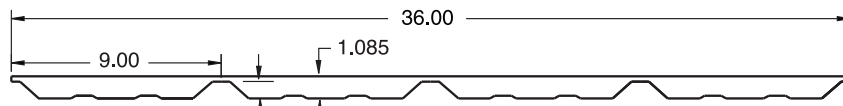
SCREW-DOWN PANEL PROFILES

AGRICULTURAL AND RESIDENTIAL

Product Name	Ventco Item #	Ventco Anchor Clip #	Clip Size	Dimensions
UNPROFILED AVAILABLE IN 3/4", 1", 1 1/4", 1 1/2", & 2"	20ft 12000 50ft 15000 100ft 20001	CLIPS AVAILABLE TO MATCH THICKNESS	CLIPS AVAILABLE TO MATCH THICKNESS	
AMERIDRAIN	20ft 12001 50ft 15001 100ft 10001	80002 80002 80002	3/4" 3/4" 3/4"	
5-V PANEL	20ft 12002 50ft 15002 100ft 10002	80002 80002 80002	3/4" 3/4" 3/4"	
PRO PANEL II	20ft 12003 50ft 15003 100ft 10003	80002 80002 80002	3/4" 3/4" 3/4"	
STRONG PANEL II	20ft 12004 50ft 15004 100ft 10004	80002 80002 80002	3/4" 3/4" 3/4"	
3/4" Hi Rib	20ft 12005 50ft 15005 100ft 10005	80002 80002 80002	3/4" 3/4" 3/4"	
M/U PANEL	20ft 12006 50ft 15006 100ft 10006	80002 80002 80002	3/4" 3/4" 3/4"	
AGRI PANEL	20ft 12007 50ft 15007 100ft 10007	80002 80002 80002	3/4" 3/4" 3/4"	

SCREW-DOWN PANEL PROFILES

AGRICULTURAL AND RESIDENTIAL

Product Name	Ventco Item #	Ventco Anchor Clip #	Clip Size	Dimensions
DELTA RIB	20ft 12008	80004	1"	
	50ft 15008	80004	1"	
	100ft 10008	80004	1"	
2.67 CORRUGATED	20ft 12009	80004	3/4"	
	50ft 15009	80004	3/4"	
	100ft 10009	80004	3/4"	
UNI-RIB	20ft 12010	80004	1"	
	50ft 15010	80004	1"	
	100ft 10010	80004	1"	
MORTON HI RIB	20ft 12015	80006	1 1/4"	
	50ft 15015	80006	1 1/4"	
	100ft 10015	80006	1 1/4"	
REGAL RIB	20ft 12021	80002	3/4"	
	50ft 15021	80002	3/4"	
	100ft 10021	80002	3/4"	
RUGGED RIB	20ft 12022	80002	3/4"	
	50ft 15022	80002	3/4"	
	100ft 10022	80002	3/4"	
7/8" WIDE RIB	20ft 12024	80004	1"	
	50ft 15024	80004	1"	
	100ft 10024	80004	1"	
DURACLAD	20ft 12027	80002	3/4"	
	50ft 15027	80002	3/4"	
	100ft 10027	80002	3/4"	

SCREW-DOWN PANEL PROFILES

AGRICULTURAL AND RESIDENTIAL

Product Name	Ventco Item #	Ventco Anchor Clip #	Clip Size	Dimensions
OMEGA ESTRUCTURAL	20ft 12043	80004	1"	
	50ft 15043	80004	1"	
	100ft 10043	80004	1"	
OMEGA PLUS	20ft 12044	80010	1 3/4"	
	50ft 15044	80010	1 3/4"	
	100ft 10044	80010	1 3/4"	
HIP&RIDGEVENT AVAILABLE IN 3/4", 1", 1 1/4", 1 1/2", & 2"	20FT 12049 50FT 15049 100FT 10049	CLIPS AVAILABLE TO MATCH THICKNESS	CLIPS AVAILABLE TO MATCH THICKNESS	

SCREW-DOWN PANEL PROFILES

COMMERCIAL

Product Name	Ventco Item #	Ventco Anchor Clip #	Clip Size	Dimensions
UNPROFILED AVAILABLE IN 3/4", 1", 1 1/4", 1 1/2", & 2"	20ft 12000 50ft 15000 100ft 20001	CLIPS AVAILABLE TO MATCH THICKNESS	CLIPS AVAILABLE TO MATCH THICKNESS	
SPANLINE	20ft 12018 50ft 15018 100ft 10018	80006	1 1/4"	
R PANEL	20ft 12019 50ft 15019 100ft 10019	80006	1 1/4"	
MULTI RIB	20ft 12020 50ft 15020 100ft 10020	80006	1 1/4"	
TILE SHEET 25/1100	20ft 12028 50ft 15028 100ft 10028	80006	1 1/4"	
LS-28 LARGE TAB	20ft 12029 50ft 15029 100ft 10029	80010	1 3/4"	
ULTRA LOC <i>no positioning glue</i>	20ft 12030 50ft 15030 100ft 10030	80004	1"	
AP PANEL	20ft 12031 50ft 15031 100ft 10031	80006	1 1/4"	
PRO-S 12 PANEL	20ft 12040 50ft 15040 100ft 10040	80004	1"	

STANDING SEAM PANEL PROFILES

AGRICULTURAL AND RESIDENTIAL

Product Name	Ventco Item #	Ventco Anchor Clip #	Clip Size	Dimensions
UNPROFILED AVAILABLE IN 3/4", 1", 1 1/4", 1 1/2", & 2"	20ft 12000 50ft 15000 100ft 20001	CLIPS AVAILABLE TO MATCH THICKNESS CLIPS AVAILABLE TO MATCH THICKNESS	CLIPS AVAILABLE TO MATCH THICKNESS CLIPS AVAILABLE TO MATCH THICKNESS	
ROYAL LOCK 12"	20ft 12011 50ft 15011 100ft 10011	80004 80004 80004	1" 1" 1"	
ROYAL LOCK 16"	20ft 12012 50ft 15012 100ft 10012	80004 80004 80004	1" 1" 1"	
SL-12 <i>no positioning glue</i>	20ft 12013 50ft 15013 100ft 10013	80004 80004 80004	1" 1" 1"	
SL-16 <i>no positioning glue</i>	20ft 12014 50ft 15014 100ft 10014	80004 80004 80004	1" 1" 1"	
1" x 5/16" x 12" <i>no positioning glue</i>	20ft 12016 50ft 15016 100ft 10016	80006 80006 80006	1 1/4" 1 1/4" 1 1/4"	
1" x 5/16" x 16" <i>no positioning glue</i>	20ft 12017 50ft 15017 100ft 10017	80006 80006 80006	1 1/4" 1 1/4" 1 1/4"	
Alu-Loc <i>no positioning glue</i>	20ft 12023 50ft 15023 100ft 10023	80006 80006 80006	1 1/4" 1 1/4" 1 1/4"	

STANDING SEAM PANEL PROFILES

AGRICULTURAL AND RESIDENTIAL

Product Name	Ventco Item #	Ventco Anchor Clip #	Clip Size	Dimensions
MEDALLION Loc 16" <i>no positioning glue</i>	20ft 12032	80002	3/4"	
	50ft 15032	80002	3/4"	
	100ft 10032	80002	3/4"	
METALOGIC 3000 12" <i>no positioning glue</i>	20ft 12034	80006	1 1/4"	
	50ft 15034	80006	1 1/4"	
	100ft 10034	80006	1 1/4"	
SSR PANEL 16" <i>no positioning glue</i>	20ft 12036	80011	2"	
	50ft 15036	80011	2"	
	100ft 10036	80011	2"	
SSR PANEL 18" <i>no positioning glue</i>	20ft 12037	80011	2"	
	50ft 15037	80011	2"	
	100ft 10037	80011	2"	
METALOGIC 2000 12" <i>no positioning glue</i>	20ft 12038	80010	1 3/4"	
	50ft 15038	80010	1 3/4"	
	100ft 10038	80010	1 3/4"	
METALOGIC 3000 16" <i>no positioning glue</i>	20ft 12039	80006	1 1/4"	
	50ft 15039	80006	1 1/4"	
	100ft 10039	80006	1 1/4"	

STANDING SEAM PANEL PROFILES

AGRICULTURAL AND RESIDENTIAL

Product Name	Ventco Item #	Ventco Anchor Clip #	Clip Size	Dimensions
HIP&RIDGEVENT AVAILABLE IN 3/4", 1", 1 1/4", 1 1/2", & 2"	20FT 12049 50FT 15049 100FT 10049	CLIPS AVAILABLE TO MATCH THICKNESS	CLIPS AVAILABLE TO MATCH THICKNESS	
MEDALLION Loc 18" <i>no positioning glue</i>	20ft 12041 50ft 15041 100ft 10041	80010 80010 80010	1 3/4" 1 3/4" 1 3/4"	
MEDALLION Loc 14" <i>no positioning glue</i>	20ft 12042 50ft 15042 100ft 10042	80010 80010 80010	1 3/4" 1 3/4" 1 3/4"	

ProfileVent®

THE RIDGE VENT CUT TO FIT



The Original Custom Ridge Vent Cut to fit—Standing Seam and Screw-Down Panels in over 50 Profiles for Commercial, Agricultural and Residential Metal Roofs.

Built on proven technology since 1998, our specially designed equipment precisely cuts the panel profile into the surface. Working at optimum performance within varied roof pitches from 2:12 to 20:12, ProfileVent is custom cut to fit the individual panel profile. ProfileVent's compatibility with a steep roof pitch makes it uniquely suitable for these applications, without sacrificing ventilation performance. Maintain the ridge line appearance without the need to raise the ridge cap to accommodate the vent.

- ProfileVent will NOT sustain a flame—
Class A Fire Rating
- Fits under almost any ridge cap
- One person roll-out installation
- Miami-Dade approved Noa No.: 07-0626.08
- Net free area is 10.96 sq. in. per lineal ft.
- Preferred by Contractors

ProfileVent (49 Different Profiles) Product & Freight Specifications

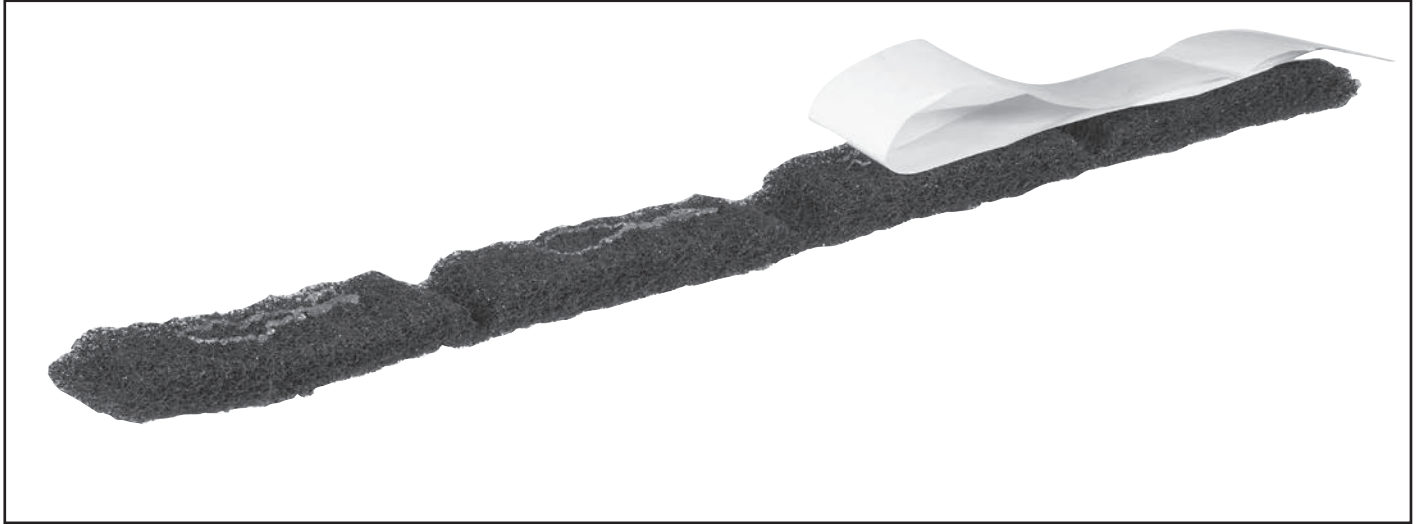
Item Name	20' Roll	50' Roll	100' Roll
Item Description	(2) 10' Rolls Profile Vent	(2) 25' Rolls Profile Vent	(2) 50' Rolls Profile Vent
Item#	Varies	Varies	Varies
Barcode Package	Varies	Varies	Varies
Barcode Pallet			
Lineal Ft per Package	20'	50'	100'
Package Weight	Varies	Varies	Varies
Package Size	Varies	Varies	Varies
Items per package	2	2	2
Packages per Pallet	84	28	14
Lineal Ft per Pallet	1,680'	1,400'	1,400'
Pallet Weight	153 lbs.	131 lbs.	150 lbs.
Lineal Ft per 53' truckload	80,640'	67,200' (most items)	67,200 (most items)
Packages per 53' truckload	4,032	1,344 (most items)	672 (most items)
Pallets per 53' truckload	48	48	48
Freight	FOB Wrens, GA Plant	FOB Wrens, GA Plant	FOB Wrens, GA Plant
Pallet Dimensions	40" x 48" x 47"	40" x 48" x 47"	40" x 48" x 47"
* Net Free Area	Varies	Varies	Varies
Air Permeability	Varies	Varies	Varies

* See Table of Contents

ProfileVent®

THE RIDGE VENT CUT TO FIT

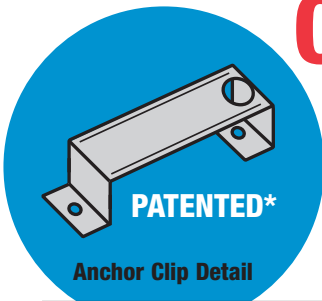
ProfileVent 3' Stick



ProfileVent 3' Stick 3/4" Stick and R Panel Product & Freight Specifications

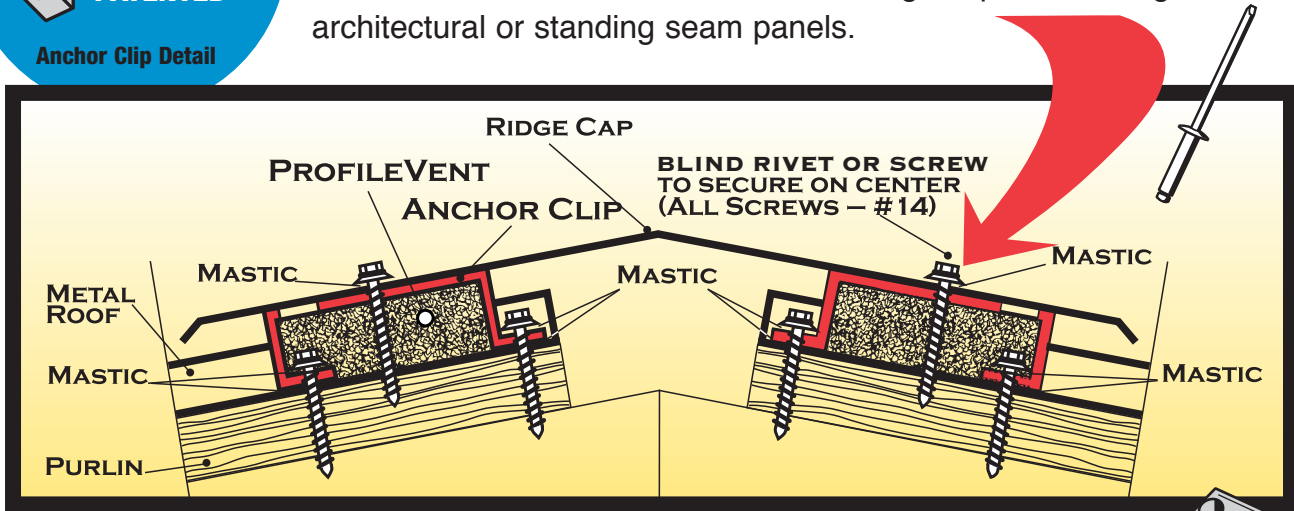
Item Name	3/4" Hi Rib Stick	3/4" Hi Rib Stick	R Panel Stick	R Panel Stick
Item Description	1" H x 2" W x 3' L PV Stick	1" H x 3" W x 3' L PV Stick	1.5" H x 2" W x 3' L PV Stick	1.5" H x 3" W x 3' L PV Stick
Item#	16005	16105	16009	16019
Lineal Ft per Package	108'	72'	72'	48'
Package Weight	6 lbs.	6 lbs.	6 lbs.	6 lbs.
Package Size	36¾" x 12¼" x 6¼"	36¾" x 12¼" x 6¼"	36¾" x 12¼" x 6¼"	36¾" x 12¼" x 6¼"
Items per package	36	24	24	16
Packages per Pallet	24	24	24	24
Lineal Ft per Pallet	2,592'	1,728'	1,728'	1,152'
Pallet Weight	220 lbs.	220 lbs.	220 lbs.	220 lbs.
Freight	FOB Wrens, GA Plant	FOB Wrens, GA Plant	FOB Wrens, GA Plant	FOB Wrens, GA Plant
Net Free Area	23.40 Sq. in./Ln. ft.	23.40 Sq. in./Ln. ft.	31.40 Sq. in./Ln. ft.	31.40 Sq. in./Ln. ft.
Air Permeability	872 CFM	872 CFM	762 CFM	762 CFM

OPTIONAL RIDGE CAP ANCHOR CLIP

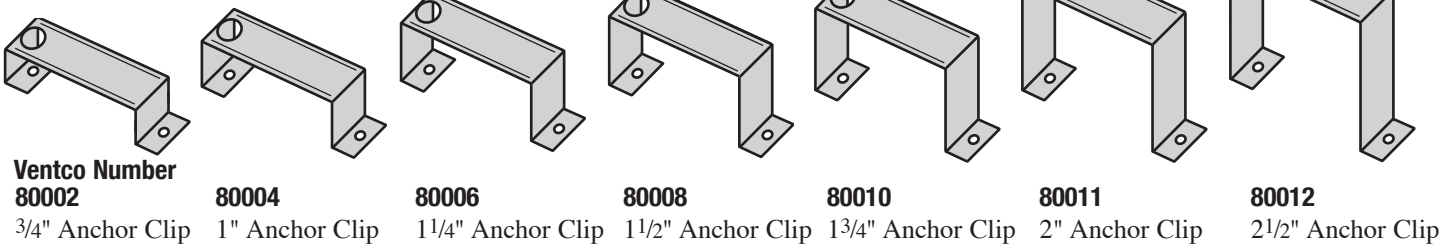


We recommend using our anchor clip to hold down the ridge cap in high wind areas and on panels with major ribs 16" on center or greater.

Blind Rivets can be used to anchor the ridge cap when using architectural or standing seam panels.



Ordering Information



Item Name	3/4" Anchor Clip	1" Anchor Clip	1 1/4" Anchor Clip	1 1/2" Anchor Clip	1 3/4" Anchor Clip	2" Anchor Clip	2 1/2" Anchor Clip
Item Description	3/4" L x 1" W x 3" H	1" L x 1" W x 3" H	1 1/4" L x 1" W x 3" H	1 1/2" L x 1" W x 3" H	1 3/4" L x 1" W x 3" H	2" L x 1" W x 3" H	2 1/2" L x 1" W x 3" H
Ventco Item#	80002	80004	80006	80008	80010	80011	80012
Barcode Inner Box	687966800020	687966800044	687966800068	687966800082	687966800105	687966800112	687966800129
Barcode Case	10687966800027	10687966800041	10687966800065	10687966800089	10687966800102	10687966800119	10687966800126
Clips per Inner Box	25	25	25	25	25	25	25
Inner Boxes per Case	24	24	24	24	24	24	24
Clips per Case	600	600	600	600	600	600	600
Cases Weight	35 lbs.	37 lbs.	40 lbs.	42 lbs.	45 lbs.	48 lbs.	52 lbs.
Case Size	26" x 20" x 14"	26" x 20" x 14"	26" x 20" x 14"	26" x 20" x 14"	26" x 20" x 14"	26" x 20" x 14"	26" x 20" x 14"
Inner Box Size	6" x 6" x 6"	6" x 6" x 6"	6" x 6" x 6"	6" x 6" x 6"	6" x 6" x 6"	6" x 6" x 6"	6" x 6" x 6"

Packaging

- 25 clips per small box
- 24 small boxes per master box
- 600 clips per master box

Specifications

- 20 gauge galvanized steel
- Visible surface painted black for aesthetic purposes



Test Results

Ventco™ Ridge Cap Anchor Clip

An independent engineering corporation tested the performance of the Ventco Ridge Cap Anchor Clip under high wind loading. During testing, a roof/ridge vent/cap system was subjected to wind speeds that follow the Dade County Test protocol.

The following observations were made concerning the performance and structural integrity of the clip and ridge cap:

- No lifting of the ridge cap up to 115 mph
- No fastener pull out or loosening
- The ridge cap remained in contact with ventilation system
- No difference in performance when the cap is secured to the clip with screws or blind rivets

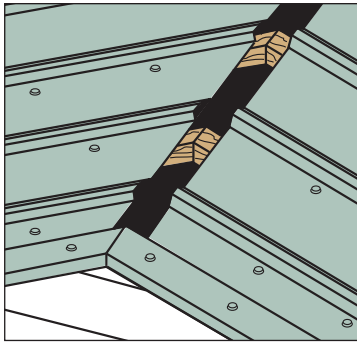
ProfileVent[®]
THE RIDGE VENT CUT TO FIT

**INSTALLATION
INSTRUCTIONS**

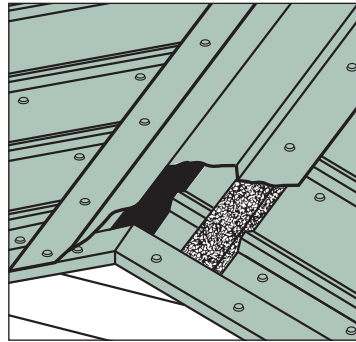
**FOR PROFILEVENT &
OPTIONAL RIDGE CAP ANCHOR CLIP**

PROFILEVENT

STANDARD INSTALLATION INSTRUCTIONS



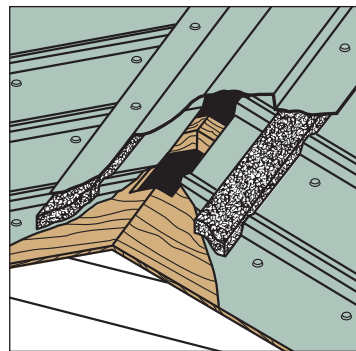
1 Allow 2" opening at ridge for ventilation. ProfileVent® is rolled out along the ridge, gable to gable, about 1/2" to 1" up-slope from the edge of the ridge cap. The positioning adhesive on most profiles will hold ProfileVent in position for easy installation.



3 Screw through ridge cap and top of each anchor clip. Blind Rivets can be used to anchor the ridge cap when using architectural or standing seam panels.

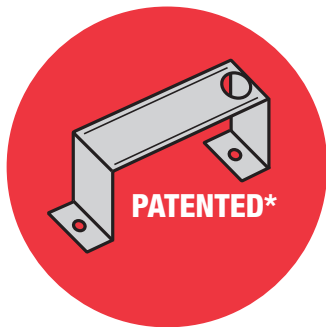


2 ProfileVent can be cut with scissors or utility knife. When splicing ProfileVent, make the splice at the center top of the high rib and use caulk or sealant along the splice (see inset).



New or Reroof on Purlin or Wood Deck Construction

Use a 2" opening at the ridge to provide ventilation. On new or re-roof wood deck construction, cut a 2" slot at the ridge (1" each side, start cut 6" from gable ends). On purlin construction position panels to leave a 2" opening.

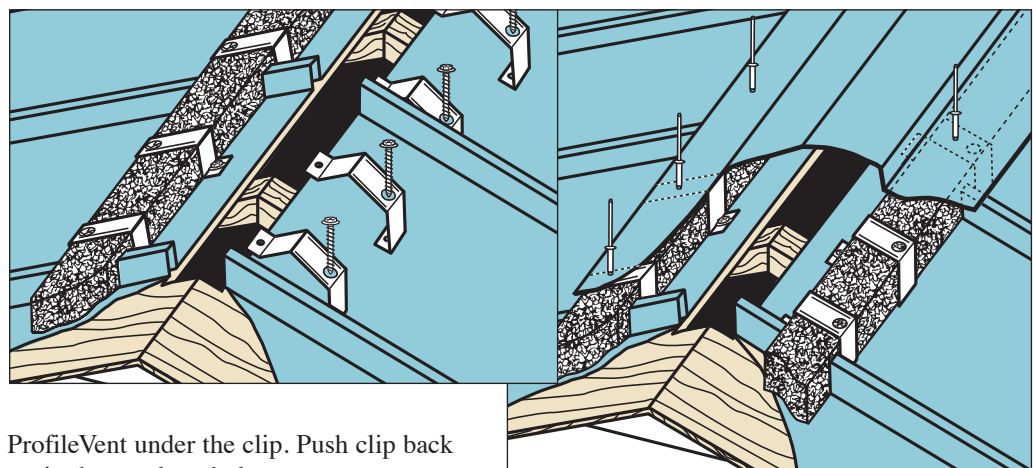


OPTIONAL RIDGE CAP ANCHOR CLIP INSTALLATION INSTRUCTIONS

Where you have a center board, allow a 1" opening on either side for proper ventilation.

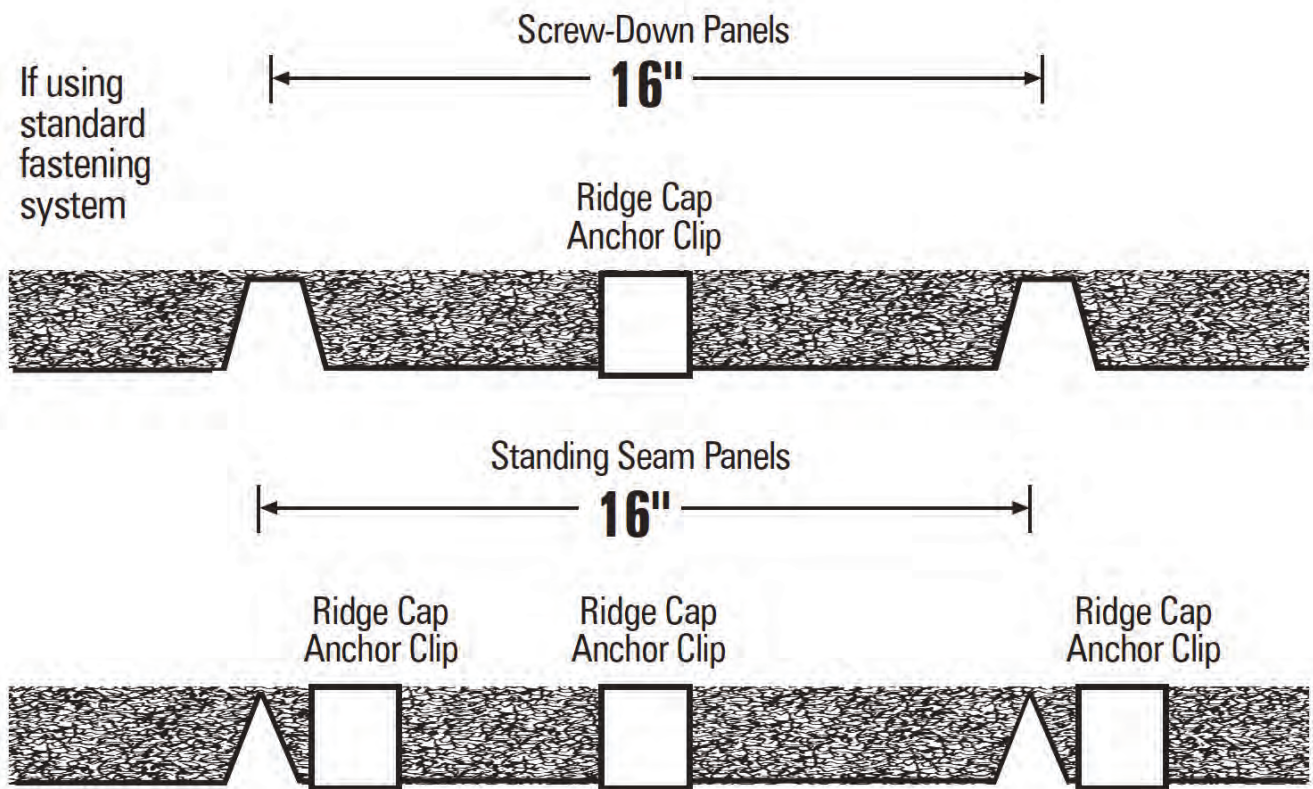
1 Install your metal roofing panel according to manufacturer's instructions. Apply mastic above and below pre-drilled holes in the clip. Before installing ProfileVent, insert #14A screw through the large down-slope access hole in top of the **Ridge Cap Anchor Clip**.

2 Lift the back end of clip. Slip ProfileVent under the clip. Push clip back down and insert another #14A screw in the up-slope hole.



PROFILEVENT

SUGGESTED PLACEMENT OF RIDGE VENT ANCHOR CLIPS



NET FREE AREA

Net free area will vary by product from 23.3 to 48.3 square in. of net free area per lineal ft. (See table of contents page 1.2). As with other attic ventilation systems, ProfileVent must be installed with soffit vents to meet HVI recommendations. Air flow is unrestricted by any fabric covering.

What is NFA?

Venting products are normally rated with a Net Free Area (NFA). The NFA is the open area that exists for air to pass through. The key to effective venting is to balance the NFA of soffit and ridge vents. Ideally the NFA of the soffits should be equal or greater than that of the ridge vent.

THE SIMPLE MATHEMATICS OF A BALANCED RIDGE VENTILATION SYSTEM

According to most building codes, you need 1 square foot of ventilation for every 150 square feet of attic floor space. For new home construction that includes a vapor retarder, the minimum is 1 square foot of ventilation for every 300 square feet of attic floor space. If your vents are split between ridge vents and intake vents, the minimum requirement is also 1 square foot of ventilation for every 300 square feet of attic floor space. To determine how many feet of net free area you need, use this formula:

Square feet of attic floor space

$$300 = \text{Square feet of net free area needed}$$

For example:

1500 square feet of attic floor space

$$300 = 5 \text{ square feet of free area needed}$$

DETERMINING VENTILATION REQUIREMENTS

Attic Square Footage	Min. Net Free Area Required (if balanced between intake and exhaust)		Min Length of Ridge
1200	4'	576"	16'
1500	5'	720"	20'
1800	6'	864"	24'
2100	7'	1008"	28'
2400	8'	1152"	32'
2600	9'	1296"	36'
3000	10'	1440"	40'
3300	11'	1584"	44'

INSTALLING A BALANCED RIDGE VENT SYSTEM

- Measure the square footage of the attic (length x width).
- Measure the length of the ridge.
- Refer to the chart above for required net free area and minimum length of ridge for attic square footage. Note: In most cases, the length of the ridge balanced with the same net free area of intake vents will satisfy FHA minimum standards and most building codes.
- Use the chart below to calculate the amount of intake vents that should be installed to balance your ridge vent system. Always install ridge vents from end to end across the entire ridge for best appearance and to provide maximum ventilation area.
- Hip roofs, dormers and T- or L-shaped roofs may require a specially designed ventilation system.

BALANCING YOUR RIDGE VENT SYSTEM

Length of Ridge	Linear Feet of Continuous Soffit Vent	Number of Undereave Vents		
		6" x 8"	16" x 6"	16" x 4"
15'	30	5	6	10
20'	40	6	9	13
30'	60	10	13	19
40'	80	13	17	26
50'	100	16	21	32
60'	120	19	26	39
70'	140	23	30	45
80'	160	26	34	51
90'	180	29	39	58

Note: FHA requirements and most building codes state the minimum required net free area. This minimum ventilation area may not be enough to effectively ventilate the attic to prevent moisture damage and cool the attic enough in the winter to prevent ice dams.

How to calculate Net Free Area

- **Definition:** Net Free Ventilation Area means the total unobstructed area (usually measured in square inches) through which air can enter or exhaust a non-powered ventilation component.
- For air flow paths that are non-homogeneous, meaning the area available for air to flow through changes as you progress along the air flow path, the most limiting area defines Net Free Ventilation Area.
- For a simple non-woven ridge vent, the air flow path is homogeneous except for where fasteners pass through the vent material. In this case, the formula is:

$$\text{Net Free Area per lineal ft} = 2 \times (A_{Gross/ft} \times (\text{Fraction air by volume}) - A_{Obstruction/ft})$$

Explanation of equation:

- Factor of 2: each foot of ridge has two identical areas for ventilation... one on each side of the ridge.
- $A_{Gross/ft}$: this is the total area for air flow per foot of one side of the ridge assuming no obstructions
- *Fraction air by volume*: for non-woven vent material, this is the ratio of the volume of air in a given piece of material to the total external volume of that piece of material. One way to measure fraction air by volume is:
 - Measure the outside dimensions of a rectangular piece of non-woven vent material and calculate the external volume ($L \times W \times H$)
 - Cut that piece of material up into small pieces being sure to keep all solids
 - Fill a graduated cylinder with water to a level that will leave enough volume for the added solids and record the level
 - Add all the cut up vent material to the graduated cylinder and record the change in volume
 - $\text{Fraction air by volume} = 1 - (\Delta\text{Volume})/(\text{External volume})$

Georgia Web non-woven ventilation material has a *Fraction air by volume* of approximately 0.96.

- $A_{Obstruction/ft}$: Area of any obstructions in the flow path per foot of one side of the ridge. For example, if there was a 1/8" diameter fastener every foot and the material thickness at the fastener location was 3/4", $A_{Obstruction/ft}$ would equal $1/8" \times 3/4" = 3/32$ sqin.

ProfileVent[®]

THE RIDGE VENT CUT TO FIT

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Superior Quality.
Superior Value.
Class A Fire Rated.
Proven performance for
over 20 years.**

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