PROFILEVENT TECHNICAL CATALOG 2023

ProfileVent®

THE RIDGE VENT CUT TO FIT

TECHNICAL CATALOG

THE REVOLUTIONARY ENGINEERED VENTILATION SYSTEM FOR COMMERCIAL AND RESIDENTIAL METAL ROOFS

ProfileVent®

The RidgeVent®

Hip & RidgeVent®

Contractors' Choice®

VENTCO BY LAKESIDE

www.profilevent.com **Toll Free: 833-300-9515**

See Pages 2.1 – 8.6 For Profiles!

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Screw-Down Panel Profiles Agricultural	Glue	20ft	50ft	100ft	Net Free Area	Air Flow	Ridge Cap Anchor Clip	Ventco #	Section/ Page
Ameridrain	Yes	12001	15001	10001	23.3 sq.in/ft.	760CFM	¾"	80002	2.2
5-V Panel	Yes	12002	15002	10002	23.3 sq.in/ft.	760CFM	¾"	80002	2.2
Pro Panel II	Yes	12003	15003	10003	23.3 sq.in/ft.	760CFM	¾"	80002	2.2
Strong Panel I I	Yes	12004	15004	10004	23.3 sq.in/ft.	760CFM	¾"	80002	2.2
¾" Hi Rib	Yes	12005	15005	10005	23.3 sq.in/ft.	760CFM	¾"	80002	2.2
M/U Panel	Yes	12006	15006	10006	23.3 sq.in/ft.	760CFM	¾"	80002	2.2
Agri Panel	Yes	12007	15007	10007	23.3 sq.in/ft.	760CFM	¾"	80002	2.2
Delta Rib	Yes	12008	15008	10008	30.9 sq.in/ft.	760CFM	1"	80004	2.3
2.67 Corrugated	Yes	12009	15009	10009	30.9 sq.in/ft.	760CFM	1"	80002	2.3
Uni-Rib	Yes	12010	15010	10010	30.9 sq.in/ft.	760CFM	1"	80004	2.3
Morton Hi Rib	Yes	12015	15015	10015	31.7 sq.in/ft.	760CFM	1¼"	80004	2.3
Regal Rib	Yes	12021	15021	10021	23.3 sq.in/ft.	760CFM	¾"	80002	2.3
Rugged Rib	Yes	12022	15022	10022	23.3 sq.in/ft.	760CFM	¾"	80002	2.3
7/8" Wide Rib	Yes	12024	15024	10024	30.9 sq.in/ft.	760CFM	1"	80004	2.3
DuraClad	Yes	12027	15027	10027	23.3 sq.in/ft.	760CFM	¾"	80002	2.3
Omega Estructural	Yes	12043	15043	10043	30.9 sq.in/ft.	760CFM	1"	80004	2.4
Omega Plus	Yes	12044	15044	10044	48.3 sq.in/ft.	760CFM	1¾"	80008	2.4
Hip&RidgeVent	Yes	12049	15049	10049	23.4 sq.in/ft.	922CFM	1"	80004	2.4
Unprofiled	No	12000	15000	20001	23.3 sq.in/ft.	760CFM	¾"	80004	2.2
Commercial									
Spanline	Yes	12018	15018	10018	31.7 sq.in/ft.	760CFM	1¼"	80006	3.2
R Panel	Yes	12019	15019	10019	31.7 sq.in/ft.	760CFM	1¼"	80006	3.2
Multi Rib	Yes	12020	15020	10020	31.7 sq.in/ft.	760CFM	1¼"	80006	3.2
Tile Sheet 25/1100	Yes	12028	15028	10028	31.7 sq.in/ft.	760CFM	1¼"	792767	3.2
LS-28 Large Tab	Yes	12029	15029	10029	48.3 sq.in/ft.	760CFM	1¾"	80008	3.2
Ultra Loc	No	12030	15030	10030	30.9 sq.in/ft.	760CFM	1"	80004	3.2
AP Panel	Yes	12031	15031	10031	31.7 sq.in/ft.	760CFM	1¼"	80004	3.2
Pro-S 12 Panel	Yes	12040	15040	10040	30.9 sq.in/ft.	760CFM	1"	80004	3.2
Hip&RidgeVent	Yes	12049	15049	10049	23.4 sq.in/ft.	922CFM	1"	80004	2.4
Unprofiled	No	12000	15000	20001	23.3 sq.in/ft.	760CFM	¾"	80004	3.2
Standing Seam Panel Profiles **Standing Seam**									
Royal Lock 12"	Yes	12011	15011	10011	30.9 sq.in/ft.	760CFM	1"	80004	4.2
Royal Lock 16"	Yes	12012	15012	10012	30.9 sq.in/ft.	760CFM	1"	80004	4.2
SL-12	No	12013	15013	10013	30.9 sq.in/ft.	760CFM	1"	80004	4.2
SL-16	No	12014	15014	10014	30.9 sq.in/ft.	760CFM	1"	80004	4.2
1" x 5/16" x 12"	No	12016	15016	10016	31.7 sq.in/ft.	760CFM	1¼"	80004	4.2
1" x 5/16" x 16"	No	12017	15017	10017	31.7 sq.in/ft.	760CFM	1¼"	80004	4.2
Alu-Loc	No	12023	15023	10023	31.7 sq.in/ft.	760CFM	1¼"	80004	4.0
Medallion Loc 16"	No	12032	15032	10032	48.3 sq.in/ft.	760CFM	1¾"	80010	4.3
Metalogic 3000 12"	No	12034	15034	10034	31.7 sq.in/ft.	760CFM	1¼"	80004	4.3
SSR Panel 16"	No	12036	15036	10036	48.3 sq.in/ft.	760CFM	2"	80012	4.0
SSR Panel 18"	No	12037	15037	10037	48.3 sq.in/ft.	760CFM	2"	80012	4.3
Metalogic 2000 12"	No	12038	15038	10038	48.3 sq.in/ft.	760CFM	1¾"	80010	4.3
Metalogic 3000 16"	No	12039	15039	10039	31.7 sq.in/ft.	760CFM	1¼"	80004	4.3
Medallion Loc 18"	No	12041	15041	10041	48.3 sq.in/ft.	760CFM	1¾"	80010	4.4
Medallion Loc 14"	No	12042	15042	10042	48.3 sq.in/ft.	760CFM	1¾"	80010	4.4
Hip&RidgeVent	Yes	12049	15049	10049	23.4 sq.in/ft.	922CFM	1"	80004	4.4
Unprofiled	No	12000	15000	20001	23.3 sq.in/ft.	760CFM	¾"	80004	4.2

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How to Order Back Cover

Note 1: f you require a profile not found in this booklet, please contact us to evaluate the feasibility of Ventco fulfilling your needs.
Note 2: The trademarks listed above are those of the respective roof panel manufacturer.

PROFILEVENT TECHNICAL CATALOG

ProfileVent®

THE RIDGE VENT CUT TO FIT

Cross Reference Guide

A Quick Guide To Finding The ProfileVent Product That Matches Industry Metal Panels By Manufacturer

Cross Reference Guide

Note: The trademarks listed below are those of the respective roof panel manufacturer.

Ventco Product Codes 20ft	50ft	100ft		Description	Panel Manufacturers: A&S	Alumax	Alliance	American Bldg. Components	BHP	BRB Roofing & Mfg.	CBC Steel
12000	15000	20001		Unprofiled							
12001	15001	10001		Ameridrain				Ameridrain			
12002	15002	10002		5-V Panel							
12003	15003	10003		Pro Panel II					Norclad		
12004	15004	10004		Strong Panel II			Monarch				
12005	15005	10005		3/4" Hi Rib		Alu Tuff		Imperial Rib			
12006	15006	10006		M/U Panel			U-Panel				
12007	15007	10007		Agri Panel							
12008	15008	10008		Delta Rib				Delta Rib	Delta Rib		
12009	15009	10009		2.67 Corrugated					2.67 Corr.		
12010	15010	10010		Uni-Rib							
12011	15011	10011		Royal Lock 12"				Royal Lock 12"			
12012	15012	10012		Royal Lock 16"				Royal Lock 16"			
12013	15013	10013		SL-12				SL-12			
12014	15014	10014		SL-16				SL-16			
12015	15015	10015		Morton Hi Rib							
12016	15016	10016		1" x 5/16" x 12"							
12017	15017	10017		1" x 5/16" x 16"							
12018	15018	10018		Spanline							
12019	15019	10019		R Panel	R Panel		R Panel				R Panel
12020	15020	10020		Multi Rib							
12021	15021	10021		Regal Rib				Regal Rib			
12022	15022	10022		Rugged Rib				Rugged Rib			
12023	15023	10023		Alu-Loc							
12024	15024	10024		7/8" Wide Rib				7/8" Wide Rib			
12027	15027	10027		DuraClad							
12028	15028	10028		Tile Sheet 25/1100							
12029	15029	10029		LS-28 Large Tab							
12030	15030	10030		Ultra Loc							
12031	15031	10031		AP Panel							
12032	15032	10032		Medallion Loc 16"							
12034	15034	10034		Metalogic 3000 12"							
12036	15036	10036		SSR Panel 16"						SSR Panel 16"	
12037	15037	10037		SSR Panel 18"						SSR Panel 18"	
12038	15038	10038		Metalogic 2000 12"							
12039	15039	10039		Metalogic 3000 16"							
12040	15040	10040		Pro-S 12 Panel							
12041	15041	10041		Medallion Loc 18"							
12042	15042	10042		Medallion Loc 14"							
12043	15043	10043		Omega Estructural							
12044	15044	10044		Omega Plus							

Cross Reference Guide

Note: The trademarks listed below are those of the respective roof panel manufacturer.

Ventco Product Codes 20ft	50ft	100ft		Description	Panel Manufacturers: Central States	Champion Metals	Creative Building Supply	easyroof	Fabral Metals	Granite City	Kirby	Lester
12000	15000	20001		Unprofiled								
12001	15001	10001		Ameridrain								
12002	15002	10002		5-V Panel				5-V Panel				
12003	15003	10003		Pro Panel II	Panel-Lock	Metal Pro						
12004	15004	10004		Strong Panel II						Strong Panel		
12005	15005	10005		3/4" Hi Rib	Panel Loc Plus		Grand Rib 3		Grand Rib 3	Strong Panel		
12006	15006	10006		M/U Panel			U Panel					
12007	15007	10007		Agri Panel								
12008	15008	10008		Delta Rib	Hi-Rib Panel						Delta Rib	
12009	15009	10009		2.67 Corrugated			2.67 Corr.		2.67 Corr.			
12010	15010	10010		Uni-Rib								Uni-Rib
12011	15011	10011		Royal Lock 12"								
12012	15012	10012		Royal Lock 16"								
12013	15013	10013		SL-12								
12014	15014	10014		SL-16								
12015	15015	10015		Morton Hi Rib								
12016	15016	10016		1" x 5/16" x 12"			Medallion-1SS12"					
12017	15017	10017		1" x 5/16" x 16"			Medallion-1SS16"					
12018	15018	10018		Spanline								
12019	15019	10019		R Panel			R Panel		Mighty Rib		Kirby Rib 2	
12020	15020	10020		Multi Rib	Kirby Rib 2							
12021	15021	10021		Regal Rib								
12022	15022	10022		Rugged Rib								
12023	15023	10023		Alu-Loc					Alu Loc			
12024	15024	10024		7/8" Wide Rib								
12027	15027	10027		DuraClad								
12028	15028	10028		Tile Sheet 25/1100								
12029	15029	10029		LS-28 Large Tab								
12030	15030	10030		Ultra Loc								
12031	15031	10031		AP Panel								
12032	15032	10032		Medallion Loc 16"				easyloc 16				
12034	15034	10034		Metalogic 3000 12"				easysnap 12				
12036	15036	10036		SSR Panel 16"								
12037	15037	10037		SSR Panel 18"								
12038	15038	10038		Metalogic 2000 12"				easyloc 12				
12039	15039	10039		Metalogic 3000 16"				easysnap 16				
12040	15040	10040		Pro-S 12 Panel								
12041	15041	10041		Medallion Loc 18"					Pro-S 12 Panel			
12042	15042	10042		Medallion Loc 14"								
12043	15043	10043		Omega Estructural								
12044	15044	10044		Omega Plus								

Cross Reference Guide

Note: The trademarks listed below are those of the respective roof panel manufacturer.

Ventco Product Codes 20ft	50ft	100ft		Description	Panel Manufacturers: MBCI	McElroy	Mesco	Metal Sales	Morton	Niff-Corr	Nucor	Southern Structures
12000	15000	20001		Unprofiled								
12001	15001	10001		Ameridrain	Rainguard							
12002	15002	10002		5-V Panel	5-V Crimp	5-V Panel		5-V Crimp				
12003	15003	10003		Pro Panel II	Perma-Clad			Pro-Panel II				
12004	15004	10004		Strong Panel II								
12005	15005	10005		3/4" Hi Rib	Stormproof	Max-Rib		Classic Rib		Storm Shield		
12006	15006	10006		M/U Panel	M Panel			U Panel		U Panel		
12007	15007	10007		Agri Panel								
12008	15008	10008		Delta Rib								
12009	15009	10009		2.67 Corrugated	C Panel	Multi-Cor						
12010	15010	10010		Uni-Rib								
12011	15011	10011		Royal Lock 12"								
12012	15012	10012		Royal Lock 16"								
12013	15013	10013		SL-12		Meridian						
12014	15014	10014		SL-16		Meridian						
12015	15015	10015		Morton Hi Rib					Morton Hi Rib			
12016	15016	10016		1" x 5/16" x 12"	1" x 12" SS			Image 12"		Niff-Lock 12		
12017	15017	10017		1" x 5/16" x 16"	1" x 16" SS			Image 16"		Niff-Lock 16		
12018	15018	10018		Spanline				Spanline 36"				
12019	15019	10019		R Panel			R Panel	R Panel		R Panel	R Panel	R Panel
12020	15020	10020		Multi Rib		Multi-Rib						
12021	15021	10021		Regal Rib								
12022	15022	10022		Rugged Rib								
12023	15023	10023		Alu-Loc								
12024	15024	10024		7/8" Wide Rib								
12027	15027	10027		DuraClad								
12028	15028	10028		Tile Sheet 25/1100								
12029	15029	10029		LS-28 Large Tab								
12030	15030	10030		Ultra Loc								
12031	15031	10031		AP Panel								
12032	15032	10032		Medallion Loc 16"		Medallion Loc 16"						
12034	15034	10034		Metalogic 3000 12"	Lok Seam 16"	Medallion I-12"						
12036	15036	10036		SSR Panel 16"								
12037	15037	10037		SSR Panel 18"								
12038	15038	10038		Metalogic 2000 12"		Medallion Loc 12"						
12039	15039	10039		Metalogic 3000 16"		Medallion I-16"						
12040	15040	10040		Pro-S 12 Panel								
12041	15041	10041		Medallion Loc 18"		Medallion Loc 18"						
12042	15042	10042		Medallion Loc 14"								
12043	15043	10043		Omega Estructural								
12044	15044	10044		Omega Plus								

Cross Reference Guide

Note: The trademarks listed below are those of the respective roof panel manufacturer.

Ventco Product Codes 20ft	50ft	100ft		Description	Panel Manufacturers: South Eastern Metal	Una Clad	Vic West	West Metal	Westform	Wheeling	Wick Building
12000	15000	20001		Unprofiled							
12001	15001	10001		Ameridrain					Channeldrain		
12002	15002	10002		5-V Panel	5-V Panel					5-V	
12003	15003	10003		Pro Panel II			Pro Clad			Pro Panel	
12004	15004	10004		Strong Panel II						Channeldrain 2000	
12005	15005	10005		3/4" Hi Rib	S.M. Rib		Best Panel			Century Drain	
12006	15006	10006		M/U Panel			U Panel		Diamond		
12007	15007	10007		Agri Panel							Agri Panel
12008	15008	10008		Delta Rib			Val Rib	Delta Rib		Delta Rib	
12009	15009	10009		2.67 Corrugated			2.67 Corr.		7/8" Corr.		
12010	15010	10010		Uni-Rib							
12011	15011	10011		Royal Lock 12"							
12012	15012	10012		Royal Lock 16"							
12013	15013	10013		SL-12							
12014	15014	10014		SL-16							
12015	15015	10015		Morton Hi Rib							
12016	15016	10016		1" x 5/16" x 12"	1" x 12" SS						
12017	15017	10017		1" x 5/16" x 16"	1" x 16" SS						
12018	15018	10018		Spanline	PBR						
12019	15019	10019		R Panel		R Panel	R Panel		WF-12-36	R Panel	
12020	15020	10020		Multi Rib							
12021	15021	10021		Regal Rib							
12022	15022	10022		Rugged Rib							
12023	15023	10023		Alu-Loc							
12024	15024	10024		7/8" Wide Rib							
12027	15027	10027		DuraClad					Duraclad		
12028	15028	10028		Tile Sheet 25/1100					Tile Sheet 25/1100		
12029	15029	10029		LS-28 Large Tab					LS-28 Large Tab		
12030	15030	10030		Ultra Loc			Ultra Loc				
12031	15031	10031		AP Panel							
12032	15032	10032		Medallion Loc 16"							
12034	15034	10034		Metalogic 3000 12"					Prolok 12		
12036	15036	10036		SSR Panel 16"							
12037	15037	10037		SSR Panel 18"							
12038	15038	10038		Metalogic 2000 12"							
12039	15039	10039		Metalogic 3000 16"					Prolok 16		
12040	15040	10040		Pro-S 12 Panel							
12041	15041	10041		Medallion Loc 18"							
12042	15042	10042		Medallion Loc 14"							
12043	15043	10043		Omega Estructural							
12044	15044	10044		Omega Plus							

ProfileVent®

THE RIDGE VENT CUT TO FIT

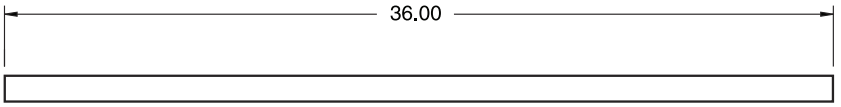
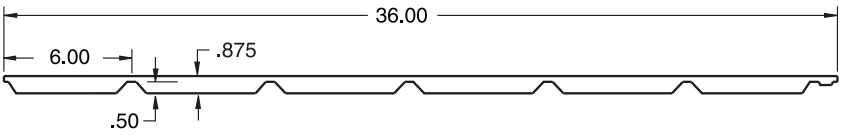
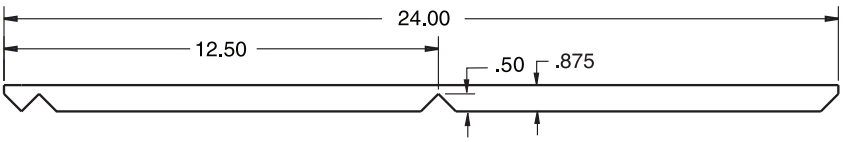
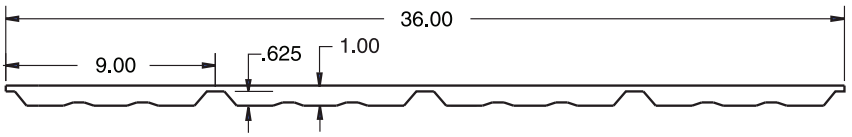
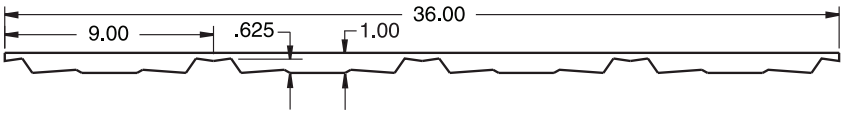
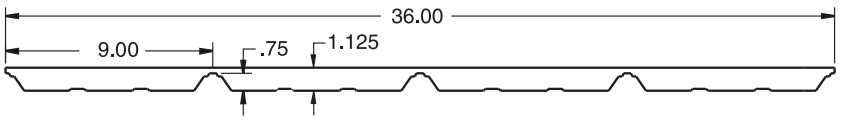
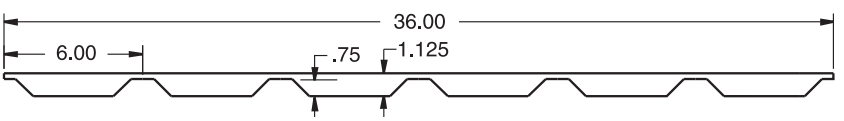
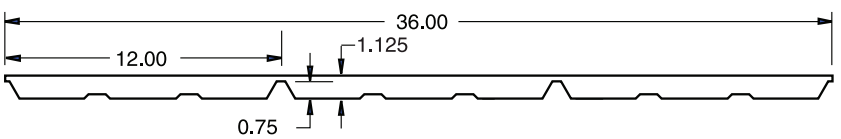
Screw-down Panel Profiles
Agricultural and Residential

Most profiles are available in the following sizes:

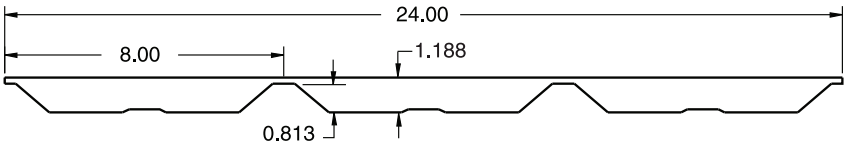
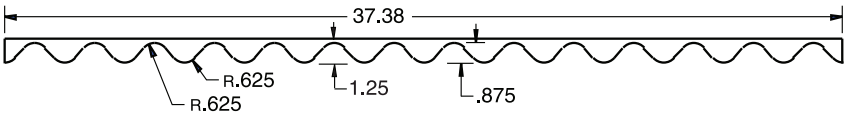
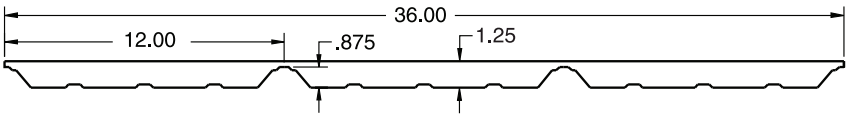
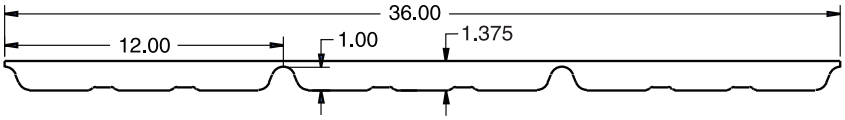
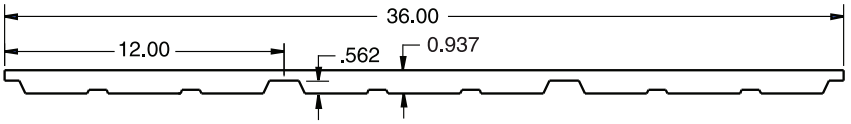
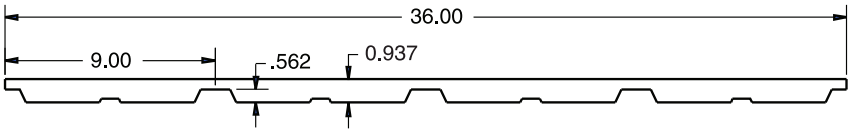
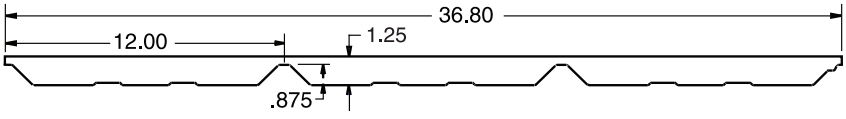
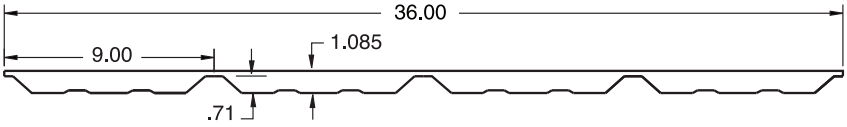
20FT, 50FT AND 100FT

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

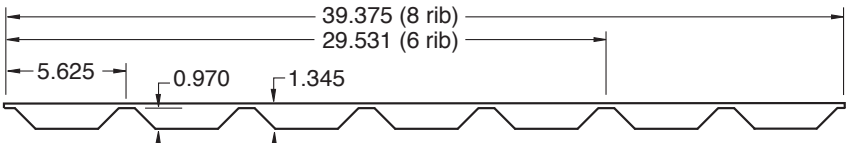
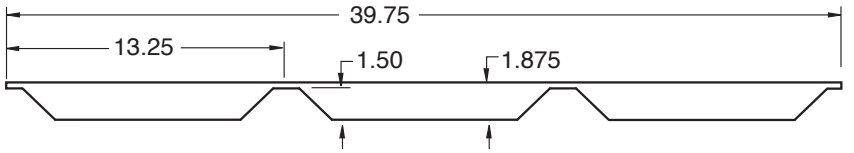
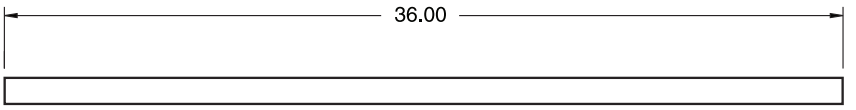
Screw-Down Panel Profiles
Agricultural and Residential

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**	Clips available to match thickness	Clips available to match thickness	
	50ft	**15000**			
	100ft	**20001**			
Ameridrain	20ft	**12001**	80002	3/4"	
	50ft	**15001**	80002	3/4"	
	100ft	**10001**	80002	3/4"	
5-V Panel	20ft	**12002**	80002	3/4"	
	50ft	**15002**	80002	3/4"	
	100ft	**10002**	80002	3/4"	
Pro Panel II	20ft	**12003**	80002	3/4"	
	50ft	**15003**	80002	3/4"	
	100ft	**10003**	80002	3/4"	
Strong Panel II	20ft	**12004**	80002	3/4"	
	50ft	**15004**	80002	3/4"	
	100ft	**10004**	80002	3/4"	
3/4" Hi Rib	20ft	**12005**	80002	3/4"	
	50ft	**15005**	80002	3/4"	
	100ft	**10005**	80002	3/4"	
M/U Panel	20ft	**12006**	80002	3/4"	
	50ft	**15006**	80002	3/4"	
	100ft	**10006**	80002	3/4"	
Agri Panel	20ft	**12007**	80002	3/4"	
	50ft	**15007**	80002	3/4"	
	100ft	**10007**	80002	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	1¾"	
	50ft	**15044**	80010	1¾"	
	100ft	**10044**	80010	1¾"	
Hip&RidgeVent Available in ¾", 1", 1¼", 1½", & 2"	20ft	**12049**	Clips available to match thickness	Clips available to match thickness	
	50ft	**15049**			
	100ft	**10049**			

ProfileVent®

THE RIDGE VENT CUT TO FIT

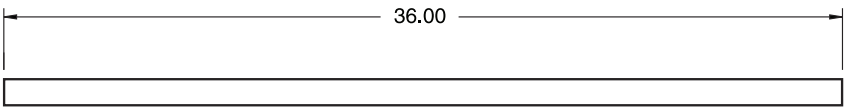
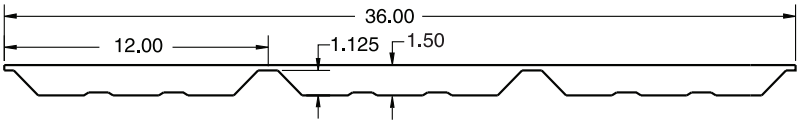
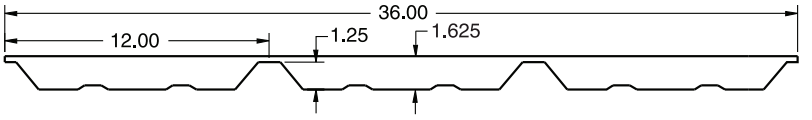
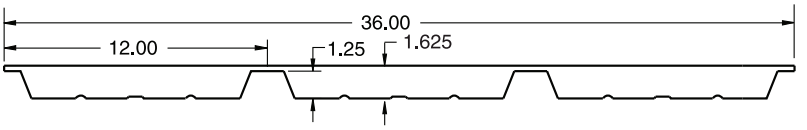
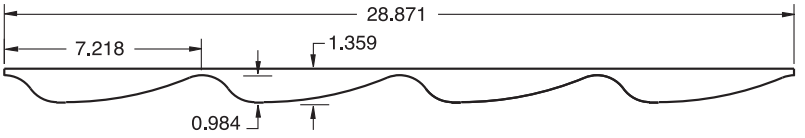
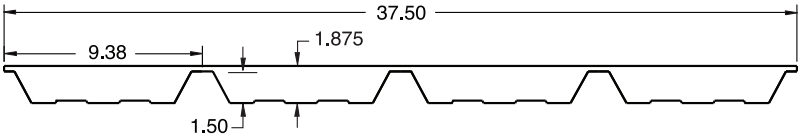
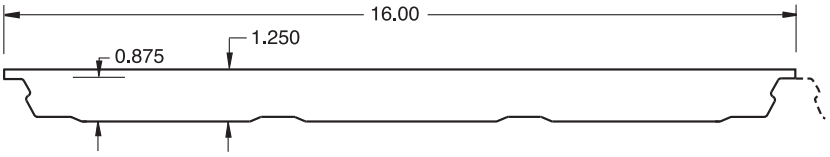
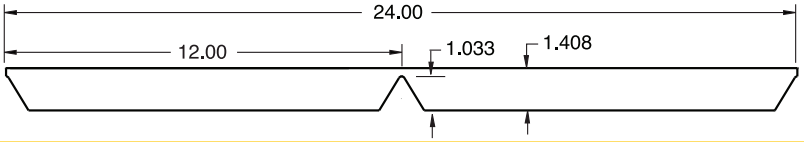
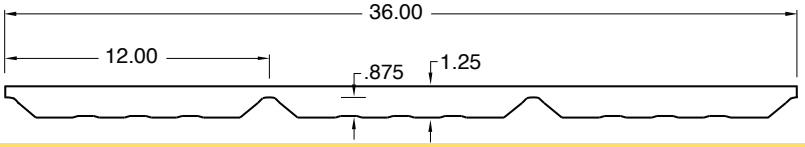
Screw-down Panel Profiles
Commercial

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
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 50ft 100ft	**12000** **15000** **20001**	Clips available to match thickness	Clips available to match thickness	
Spanline	20ft 50ft 100ft	**12018** **15018** **10018**	80006 80006 80006	1 1/4" 1 1/4" 1 1/4"	
R Panel	20ft 50ft 100ft	**12019** **15019** **10019**	80006 80006 80006	1 1/4" 1 1/4" 1 1/4"	
Multi Rib	20ft 50ft 100ft	**12020** **15020** **10020**	80006 80006 80006	1 1/4" 1 1/4" 1 1/4"	
Tile Sheet 25/1100	20ft 50ft 100ft	**12028** **15028** **10028**	80006 80006 80006	1 1/4" 1 1/4" 1 1/4"	
LS-28 Large Tab	20ft 50ft 100ft	**12029** **15029** **10029**	80010 80010 80010	1 3/4" 1 3/4" 1 3/4"	
Ultra Loc *no positioning glue*	20ft 50ft 100ft	**12030** **15030** **10030**	80004 80004 80004	1" 1" 1"	
AP Panel	20ft 50ft 100ft	**12031** **15031** **10031**	80006 80006 80006	1 1/4" 1 1/4" 1 1/4"	
Pro-S 12 Panel	20ft 50ft 100ft	**12040** **15040** **10040**	80004 80004 80004	1" 1" 1"	

ProfileVent®

THE RIDGE VENT CUT TO FIT

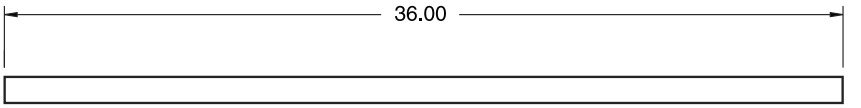
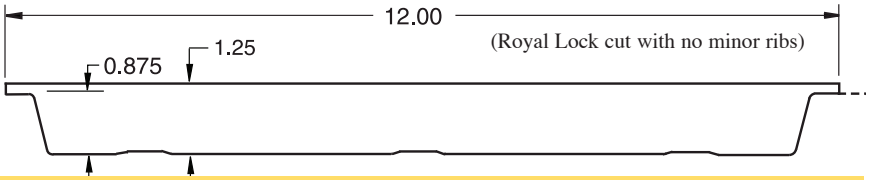
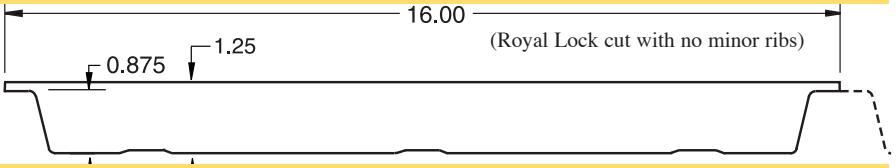
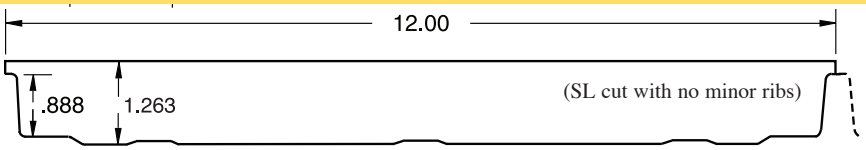
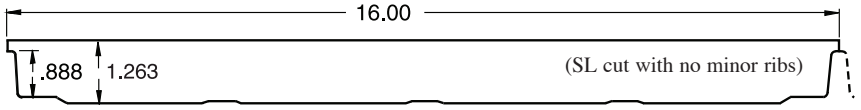
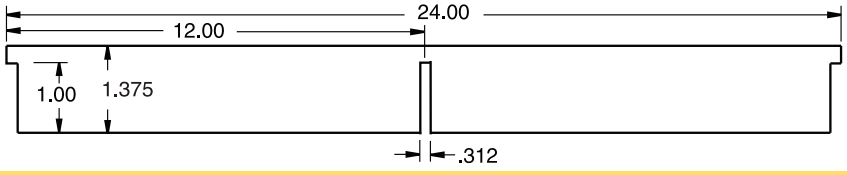
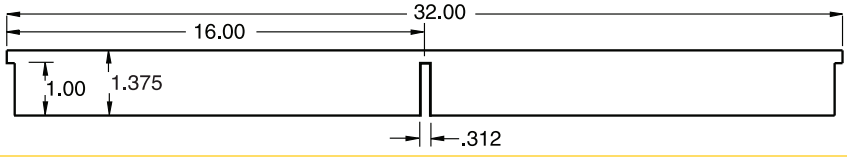
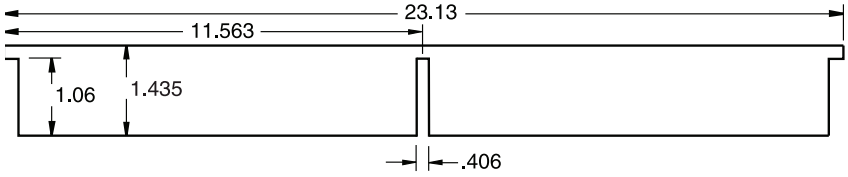
Standing Seam Panel Profiles
Agricultural And Residential

Most profiles are available in the following sizes:

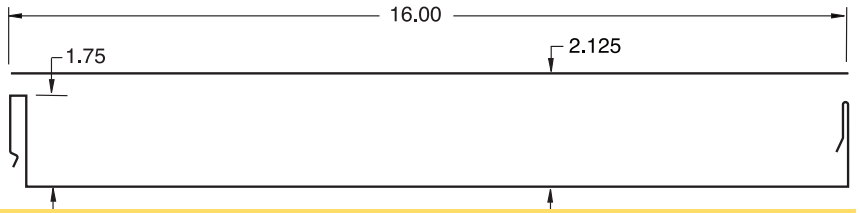
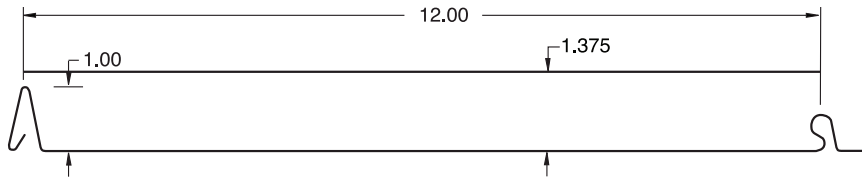
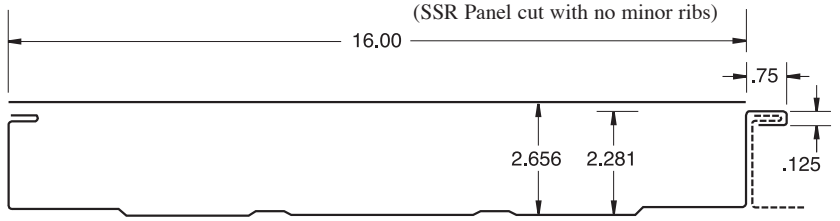
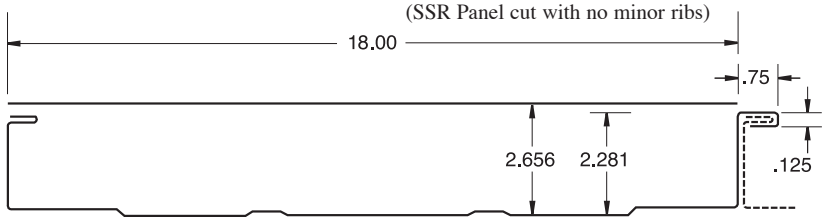
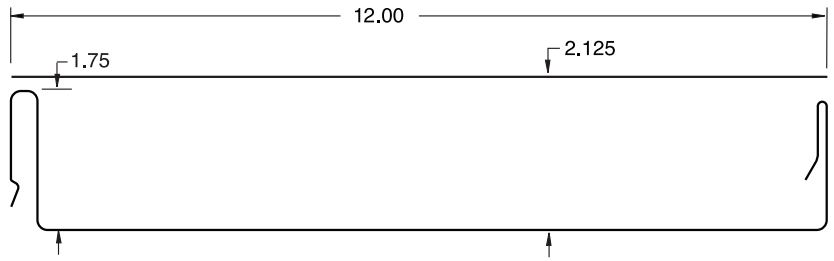
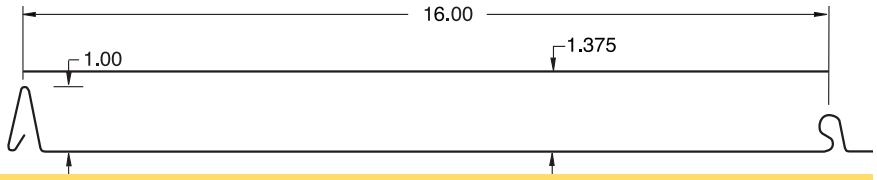
20FT, 50FT AND 100FT

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

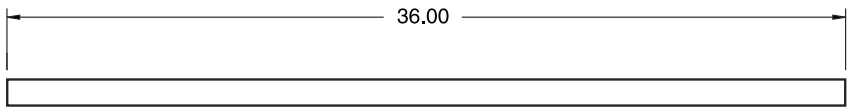
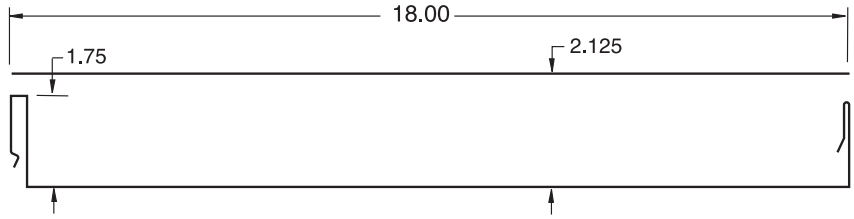
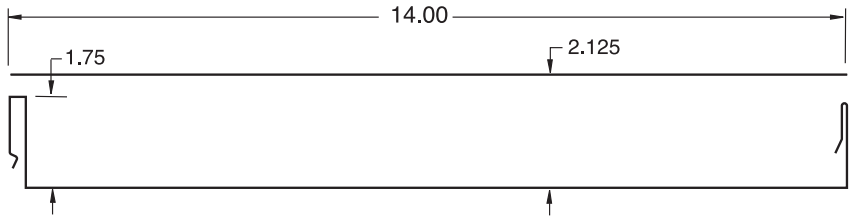
Standing Seam Panel Profiles
Agricultural and Residential

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**	Clips available to match thickness	Clips available to match thickness	
	50ft	**15000**			
	100ft	**20001**			
Royal Lock 12"	20ft	**12011**	80004	1"	
	50ft	**15011**	80004	1"	
	100ft	**10011**	80004	1"	
Royal Lock 16"	20ft	**12012**	80004	1"	
	50ft	**15012**	80004	1"	
	100ft	**10012**	80004	1"	
SL-12 *no positioning glue*	20ft	**12013**	80004	1"	
	50ft	**15013**	80004	1"	
	100ft	**10013**	80004	1"	
SL-16 *no positioning glue*	20ft	**12014**	80004	1"	
	50ft	**15014**	80004	1"	
	100ft	**10014**	80004	1"	
1" x 5/16" x 12" *no positioning glue*	20ft	**12016**	80006	1 1/4"	
	50ft	**15016**	80006	1 1/4"	
	100ft	**10016**	80006	1 1/4"	
1" x 5/16" x 16" *no positioning glue*	20ft	**12017**	80006	1 1/4"	
	50ft	**15017**	80006	1 1/4"	
	100ft	**10017**	80006	1 1/4"	
Alu-Loc *no positioning glue*	20ft	**12023**	80006	1 1/4"	
	50ft	**15023**	80006	1 1/4"	
	100ft	**10023**	80006	1 1/4"	

Standing Seam Panel Profiles
Agricultural and Residential

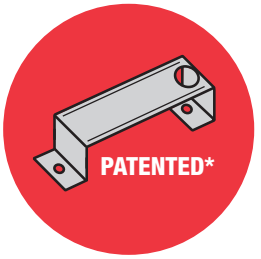
Product Name		Ventco Item #	Ventco Anchor Clip #	Clip Size	Dimensions
Medallion Loc 16" *no positioning glue*	20ft	**12032**	80002	3/4"	
	50ft	**15032**	80002	3/4"	
	100ft	**10032**	80002	3/4"	
Metalogic 3000 12" *no positioning glue*	20ft	**12034**	80006	1 1/4"	
	50ft	**15034**	80006	1 1/4"	
	100ft	**10034**	80006	1 1/4"	
SSR Panel 16" *no positioning glue*	20ft	**12036**	80011	2"	
	50ft	**15036**	80011	2"	
	100ft	**10036**	80011	2"	
SSR Panel 18" *no positioning glue*	20ft	**12037**	80011	2"	
	50ft	**15037**	80011	2"	
	100ft	**10037**	80011	2"	
Metalogic 2000 12" *no positioning glue*	20ft	**12038**	80010	1 3/4"	
	50ft	**15038**	80010	1 3/4"	
	100ft	**10038**	80010	1 3/4"	
Metalogic 3000 16" *no positioning glue*	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**	CLIPS AVAILABLE TO MATCH THICKNESS	CLIPS AVAILABLE TO MATCH THICKNESS	
	50ft	**15049**			
	100ft	**10049**			
Medallion Loc 18" *no positioning glue*	20ft	**12041**	80010	1 3/4"	
	50ft	**15041**	80010	1 3/4"	
	100ft	**10041**	80010	1 3/4"	
Medallion Loc 14" *no positioning glue*	20ft	**12042**	80010	1 3/4"	
	50ft	**15042**	80010	1 3/4"	
	100ft	**10042**	80010	1 3/4"	

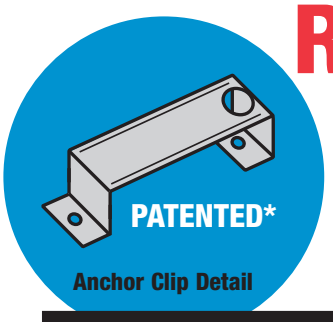
ProfileVent®

THE RIDGE VENT CUT TO FIT



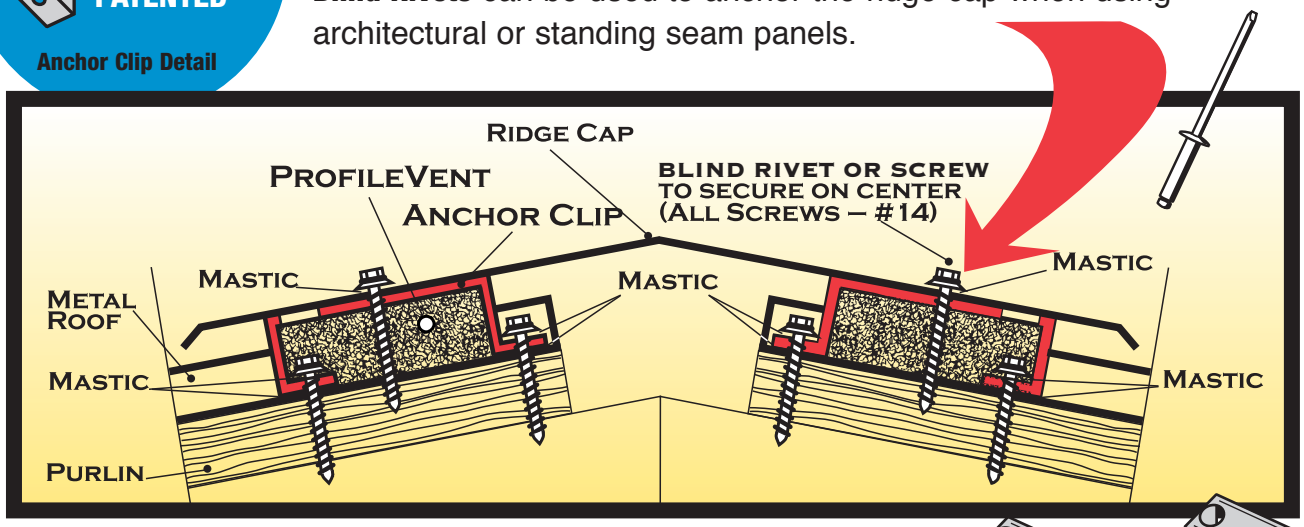
Ridge Cap Anchor Clip

Ridge Cap Anchor Clip

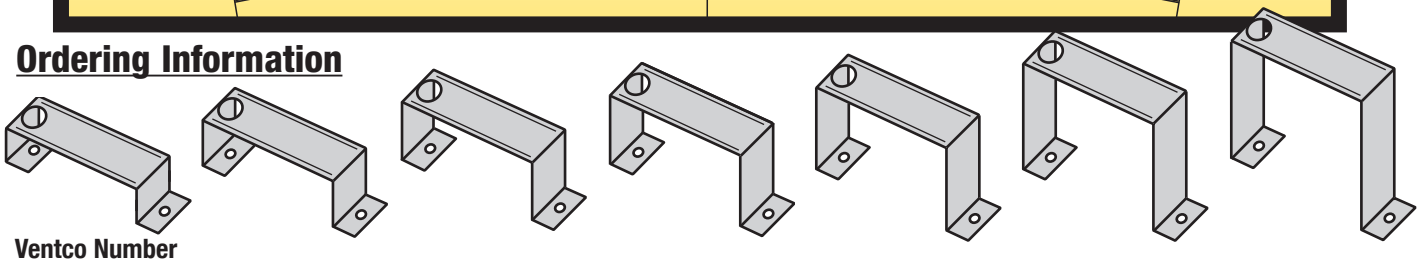


We recommend using our anchor clip to hold down the ridge cap in high wind areas and on panels with major ribs 16" on center or greater.

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



Ordering Information



Ventco Number	80002	80004	80006	80008	80010	80011	80012
	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 Name	¾" Anchor Clip	1" Anchor Clip	1¼" Anchor Clip	1½" Anchor Clip	1¾" Anchor Clip	2" Anchor Clip	2½" Anchor Clip
Item Description	3/4" L x 1" W x 3" H	1" L x 1" W x 3" H	1¼" L x 1" W x 3" H	1½" L x 1" W x 3" H	1¾" L x 1" W x 3" H	2" L x 1" W x 3" H	2½" 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

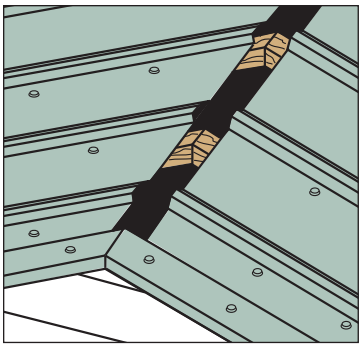
ProfileVent®

THE RIDGE VENT CUT TO FIT

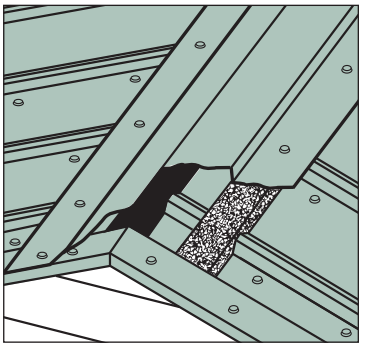
Installation Instructions

For Profilevent & Ridge Cap Anchor Clip

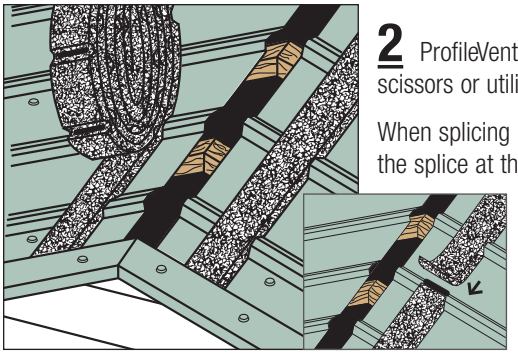
PROFILEVENT
STANDARD INSTALLATION INSTRUCTIONS



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.

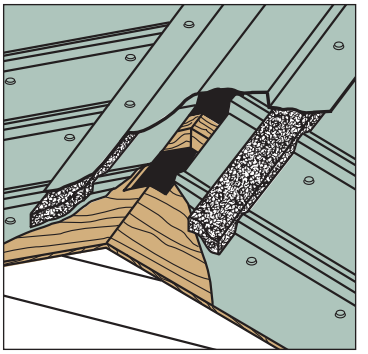


3 Screw through ridge cap and top of each anchor clip. Blind Rivets can be used to anchor the ridge cap when using architectural or standing seam panels.



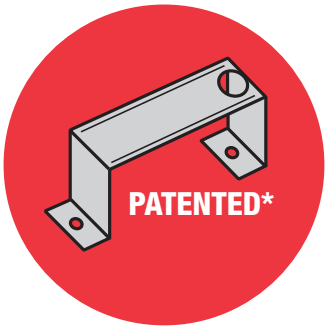
2 ProfileVent can be cut with scissors or utility knife.

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

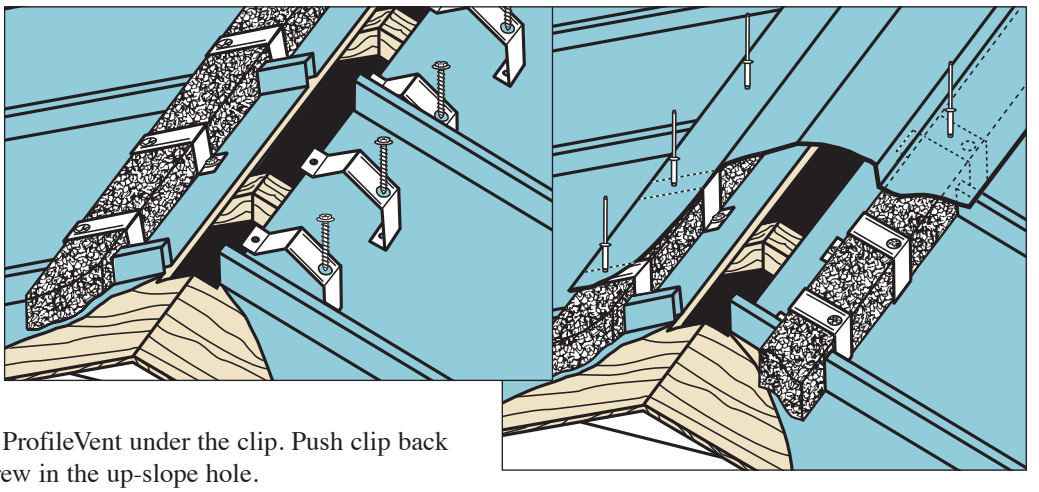
Use a 2"opening at the ridge to provide ventilation. On new or re-roof wood deck construction, cut a 2" slot at the ridge (1" each side, start cut 6" from gable ends). On purlin construction position panels to leave a 2" opening.



RIDGE CAP ANCHOR CLIP INSTALLATION INSTRUCTIONS

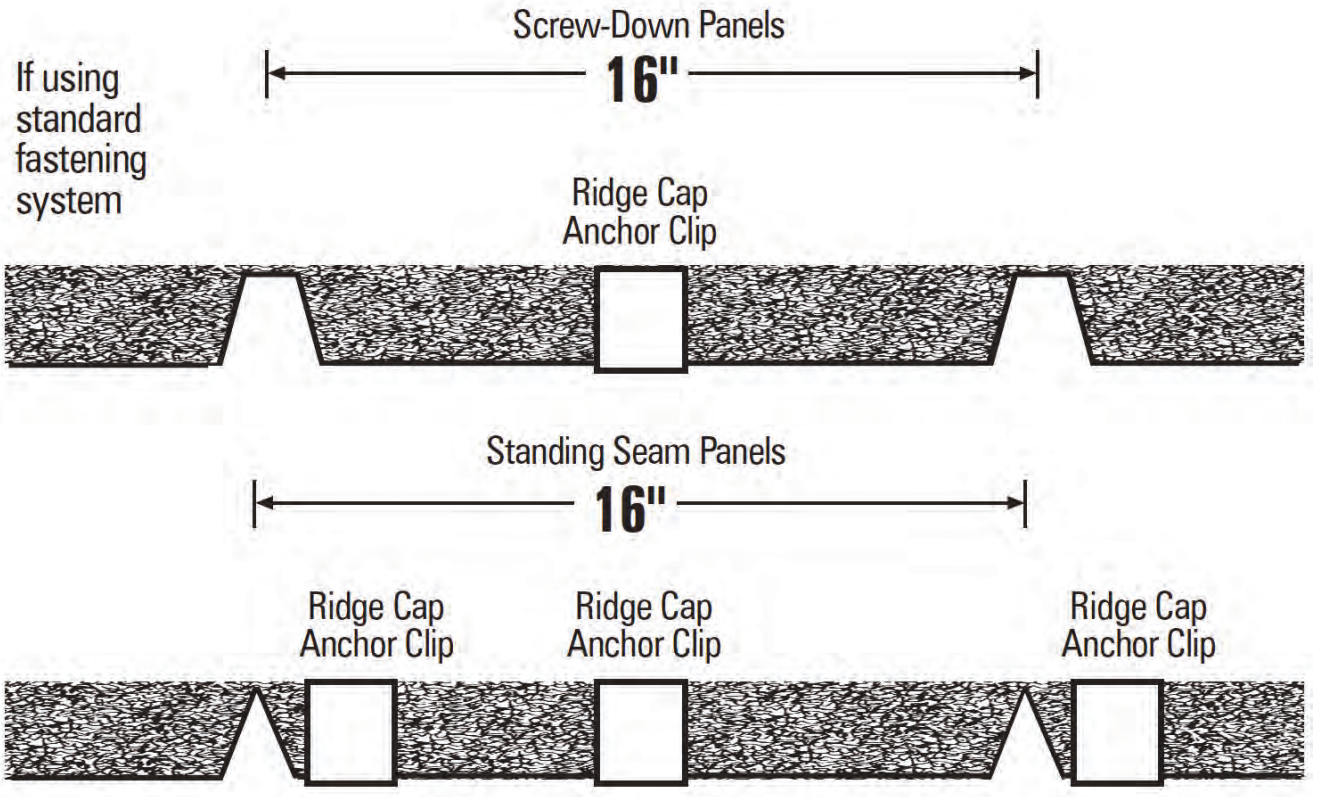
Where you have a center board, allow a 1" opening on either side for proper ventilation.

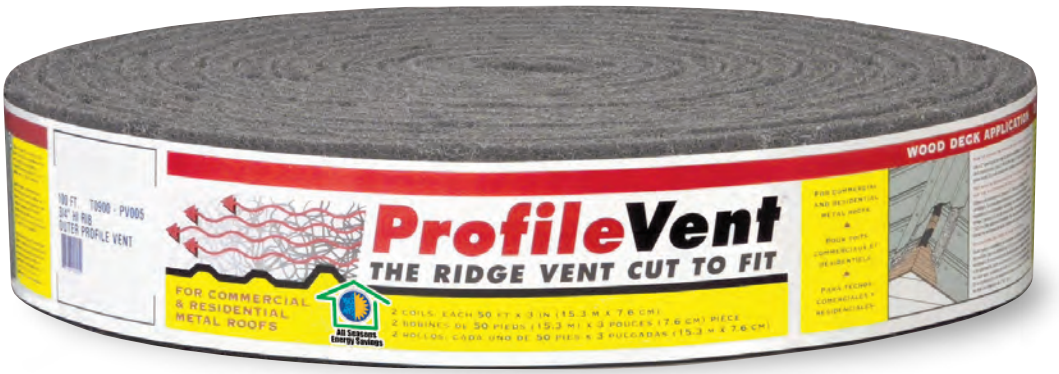
1 Install your metal roofing panel according to manufacturer's instructions. Apply mastic above and below pre-drilled holes in the clip. Before installing ProfileVent, insert #14A screw through the large down-slope access hole in top of the **Ridge Cap Anchor Clip.**



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





ProfileVent
Product & Freight Specifications

Item Name	20' Roll	50' Roll	100' Roll
Item Description	10' Roll Profile Vent	25' Roll Profile Vent	50' Roll Profile Vent
Item#	Varies	Varies	Varies
Barcode Package	Varies	Varies	Varies
Barcode Box			
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 56"	40" x 48" x 48"	40" x 48" x 58"
Net Free Area	Varies	Varies	Varies
Air Permeability	760 CFM	760 CFM	760 CFM

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

Item Name	R Panel Stick	3/4" Hi Rib Stick
Item Description	1.5" H x 3" W x 3' L PV Stick	1" H x 3" W x 3' L PV Stick
Ventco Item#	16019	16105
Barcode Package	687966160193	687966161053
Barcode Box		
Barcode Pallet	10687966160190	10687966161050
Lineal Ft per Package	48	72
Package Weight	6 lbs.	6 lbs.
Package Size	36-3/4" x 12-1/4" x 6-1/4"	36-3/4" x 12-1/4" x 6-1/2"
Items per package	16	24
Packages per Pallet	24	24
Lineal Ft per Pallet	1,152	1,728
Pallet Weight	220 lbs.	220 lbs.
Lineal Ft per 53' truckload	69,120	103,680
Packages per 53' truckload	1,440	1,440
Pallets per 53' truckload	60	60
Freight	FOB Wrens, GA Plant	FOB Wrens, GA Plant
Pallet Dimensions	40" x 48" x 47"	40" x 48" x 47"
Net Free Area	31.70 Sq. in./Ln. ft.	23.30 Sq. in./Ln. ft.
Air Permeability	762 CFM	872 CFM

Hip&RidgeVent 20' Roll
Product & Freight Specifications

Item Name	Hip & Ridge 1" with Glue Bead	Hip & Ridge 1" without Glue Bead	Hip & Ridge 1.5" with Glue Bead	Hip & Ridge 1" with Glue Bead
Item Description	10' L x 3" W x 1" H	10' L x 3" W x 1" H	10' L x 3" W x 1.5" H	10' L x 2" W x 1" H
Ventco Item#	12049	12050	12051	12052
Barcode Package	687966120494	687966120500	687966120517	687966120524
Barcode Box				
Barcode Pallet	10687966120491	10687966120507	10687966120514	1087966120521
Lineal Ft per Package	20'	20'	20'	20'
Package Weight	1.75 lbs.	1.50 lbs.	2.0 lbs.	1.0 lbs.
Package Size	15" x 15" x 6"	15" x 15" x 6"	17.5" x 17.5" X 6"	15" x 15" x 4"
Items per package	2	2	2	2
Packages per Pallet	63	63	42	90
Lineal Ft per Pallet	1,260'	1,260'	840'	1,800'
Pallet Weight	145 lbs.	134.5 lbs.	124 lbs.	130 lbs.
Lineal Ft per 53' truckload	75,600'	75,600'	50,400'	108,000'
Packages per 53' truckload	3,780	3,780	2,520	5,400
Pallets per 53' truckload	60	60	60	60
Freight	FOB Wrens, GA Plant	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"	40" x 48" x 47"
Net Free Area	23.40 Sq. in./Ln. ft.	23.40 Sq. in./Ln. ft.	23.40 Sq. in./Ln. ft.	23.40 Sq. in./Ln. ft.
Air Permeability	872 CFM	872 CFM	872 CFM	922 CFM

Hip&RidgeVent 50' Roll
Product & Freight Specifications

Item Name	Hip & Ridge 1" No Glue Bead	Hip & Ridge 1" with Glue Bead
Item Description	25'L x 3"W x 1"H	25'L x 2"W x 1"H
Ventco Item#	15049	15051
Barcode Package	687966150491	687966150514
Barcode Box		
Barcode Pallet	106879661504918	10687966150511
Lineal Ft per Package	50'	50'
Package Weight	4 lbs.	3 lbs.
Package Size	20" x 20" x 6"	20" x 20" x 4"
Items per package	2	2
Packages per Pallet	28	40
Lineal Ft per Pallet	1,400'	2,000'
Pallet Weight	131 lbs.	160 lbs.
Lineal Ft per 53' truckload	84,000'	120,000'
Packages per 53' truckload	1,680	2,400
Pallets per 53' truckload	60	60
Freight	FOB Wrens, GA Plant	FOB Wrens, GA Plant
Pallet Dimensions	40" x 48" x 47"	40" x 48" x 47"
Net Free Area	23.40 Sq. in./Ln.ft.	23.40 Sq. in./Ln.ft.
Air Permeability	872 CFM	922 CFM

Hip&RidgeVent 100' Roll
Product & Freight Specifications

Item Name	Hip & Ridge 1" No Glue Bead	Hip & Ridge 1" with Glue Bead
Item Description	50' L x 3" W x 1" H	50' L x 2" W x 1" H
Ventco Item#	10049	10051
Barcode Package	687966100496	687966100519
Barcode Box		
Barcode Pallet	10687966100493	10687966100516
Lineal Ft per Package	100'	100'
Package Weight	6 lbs.	5 lbs.
Package Size	29" x 29" x 6"	29" x 29" x 4"
Items per package	2	2
Packages per Pallet	14	20
Lineal Ft per Pallet	1400'	2,000'
Pallet Weight	128 lbs.	140 lbs.
Lineal Ft per 53' truckload	72800'	104,000'
Packages per 53' truckload	728	1,040
Pallets per 53' truckload	52	52
Freight	FOB Wrens, GA Plant	FOB Wrens, GA Plant
Pallet Dimensions	58" x 44" x 48"	58" x 44" x 48"
Net Free Area	23.40 Sq. in/Ln. ft.	23.40 Sq. in/Ln. ft.
Air Permeability	872 CFM	922 CFM

VENTCO ENGINEERED RIDGE VENTS FOR ASPHALT, SLATE, CEDAR SHINGLE, METAL & FLAT TILE ROOFS

Contractors' Choice

Ridge Vent for Asphalt, Slate, and Cedar Shingle Roofs

Coil of nails included in every roll.

Product & Freight Specifications

Item Description	20' L x 10½" W x ½" H
Item#	00020
Barcode Package	897481000205
Barcode Pallet	10897481000202
Lineal Ft per Package	20
Package Weight	4 lbs.
Package Size	15" x 15" x 10½"
Items per package	1
Packages per Pallet	36
Lineal Ft per Pallet	720'
Pallet Weight	194 lbs.
Lineal Ft per 53' truckload	37,440'
Packages per 53' truckload	1,872
Pallets per 53' truckload	52
Freight	FOB Wrens, GA Plant
Pallet Dimensions	48" x 48" x 47"
Net Free Area	18 sq in/Ln ft
Air Permeability	900 CFM

Available in 10½", 9" and 8" high

The RidgeVent

Ridge Vent for Asphalt, Slate, and Cedar Shingle Roofs

Coil of nails included in every roll.

Product & Freight Specifications

Item Description	20' L x 10½" W x ¾" H
Item#	00034
Barcode Package	897481000342
Barcode Pallet	10897481000349
Lineal Ft per Package	20
Package Weight	6 lbs
Package Size	17" x 17" x 10½"
Items per package	1
Packages per Pallet	24
Lineal Ft per Pallet	480
Pallet Weight	184 lbs
Lineal Ft per 53' truckload	28,800
Packages per 53' truckload	1,440
Pallets per 53' truckload	60
Freight	FOB Wrens, GA Plant
Pallet Dimensions	48" x 48" x 47"
Net Free Area	18.2 sq in/Ln ft
Air Permeability	922 CFM

Available in 10½", 9" and 8" high

Mongoose®

Ridge Vent for Asphalt, Slate, and Cedar Shingle Roofs

Coil of nails included in every roll.

Product & Freight Specifications

Item Description	20' L x 11" W x 1" H
Item#	00030
Barcode Package	897481000304
Barcode Pallet	10897481000301
Lineal Ft per Package	20'
Package Weight	5 lbs.
Package Size	15" x 15" x 11"
Items per package	1
Packages per Pallet	24
Lineal Ft per Pallet	480
Pallet Weight	165 lbs.
Lineal Ft per 53' truckload	28,800
Packages per 53' truckload	1,440
Pallets per 53' truckload	60
Freight	FOB Wrens, GA Plant
Pallet Dimensions	40" x 48" x 50"
Net Free Area	18.3 sq in/Ln ft
Air Permeability	872 CFM

Hip&RidgeVent

Ridge Vent for Asphalt, Slate, and Cedar Shingle Roofs

Product & Freight Specifications

	Hip & Ridge 1" No Glue	Hip & Ridge 1" with Glue
Item Description	50' L x 3" W x 1" H	50' L x 2" W x 1" H
Item#	10049	10051
Barcode Package	687966100496	687966100519
Barcode Pallet	10687966100493	10687966100516
Lineal Ft per Package	100'	100'
Package Weight	6 lbs	5 lbs
Package Size	29" x 29" x 6"	29" x 29" x 4"
Items per package	2	2
Packages per Pallet	14	20
Lineal Ft per Pallet	1400'	2,000'
Pallet Weight	128 lbs	140 lbs
Lineal Ft per 53' truckload	72800'	104,000'
Packages per 53' truckload	728	1,040
Pallets per 53' truckload	52	52
Freight	FOB Wrens, GA Plant	FOB Wrens, GA Plant
Pallet Dimensions	40" x 48" x 58"	40" x 48" x 58"
Net Free Area	18.3 sq in/Ln ft	18.3 sq in/Ln ft
Air Permeability	872 CFM	922 CFM

ProfileVent®

THE RIDGE VENT CUT TO FIT

Technical Data

ProfileVent®
THE RIDGE VENT CUT TO FIT

Technical Bulletin
NEWS The Technical Bulletin for ProfileVent

Severe Cold Crack Test

A concern with ridge vent products has been the potential to operate at reduced standards under severe weather conditions. **ProfileVent®** and similar ridge vent material using modified polyester, non-woven, non-wicking fiber based matting, **are not subject to loss of efficiency at low temperatures.** This has been proven by over 10 years of in place experience on actual applications of the material used on shingle roofs (not profiled for metal roofs). It has also been confirmed by a test developed to duplicate cold weather conditions. **ProfileVent material will remain intact in this environment.** ProfileVent is a unique attic ventilation system that has the metal roofing panel profile cut into the surface. It is packaged as two, 20 ft., 25ft. and 50 ft. roll packages allowing the ease of roll out installation.

TEST

Purpose: **To determine the effects of cold temperatures, colder than 10° celsius, on ProfileVent, a ridge vent material.**

Procedure: **A sample of the material was placed in a closed chamber. The temperature was lowered to 10° celsius and below via compressed carbon dioxide. The material remained in the chamber for 3 minutes. The material was removed and corner to corner flexion was applied.**

Results: **Passed, no breakdown of binder and or fiber systems.**

Wind Driven Rain Infiltration

A concern with ridge vent products has been the potential for wind-driven rain infiltration.

The test specimen, **ProfileVent®**, was mounted at the ridge on a 3" in 12" sloped wood shed test structure. The eave was located normal to and nominally 10' downwind from the 13' 6" diameter propeller of a 2650 horsepower aircraft engine wind generator. The wind speed at the deck was determined by prior pitot tube calibration of engine RPM versus windspeed.

Water spray was added to the airstream upwind of the deck at a rate equal to an 8.8" per hour rain.

The underside of the deck was observed for leakage and test materials were observed for damage during the test. With water added to the airstream as noted above, the specimen was subjected to incrementally increased wind speeds for the time periods noted below.

Test Conditions and Results:

Wind Speed (mph)	Duration (minutes)
50	5
60	5
70	5
80	1
90	1
100	12

No damage or failures were evident.

Test conducted with metal panel and metal ridge cap.

Simulated Snow Infiltration

A concern with ridge vent products has been the potential for snow infiltration.

The test specimen, **ProfileVent®**, was mounted over an open slot at the ridge of a 3" in 12" sloped, plywood sheathed, wood-framed test shed. The test shed incorporated a full length vented soffit on each eave. The entrance to the test shed was closed during the test.

The eave was located normal to nominally 10' downwind from the 13' 6" diameter propeller of a 2650 horsepower aircraft engine wind generator. The wind speed at the deck was determined by prior pitot tube calibration of engine RPM versus windspeed.

Fine, soft wood sawdust was added to the airstream upwind of the deck at a rate of about 5 lbs. per minute.

The underside of the specimen was visually observed for sawdust infiltration and damage during the test.

With fine sawdust added to the airstream as noted above, the specimen was subjected to incrementally increased wind speeds for the time periods noted below.

Test Conditions and Results:

Wind Speed (mph)	Duration (minutes)
30	5
50	5
70	5

No sawdust infiltration. No damage or failures were evident.

Test conducted with metal panel and metal ridge cap.

Dust Exposure Test

Project Summary:

A concern with ridge vent products has been the potential for dust to inhibit the venting process.

Architectural Testing Inc. (ATI) was contracted by Ventco™ to perform testing in accordance with ICBO Acceptance Criteria AC 132, Section 5.2 Dust Exposure Test, on Ventco's **ProfileVent®** ridge vent. The material tested was sampled by a licenced engineer at the manufacturing facility. **The product successfully met the requirements for dust exposure**. All data and results are reported here.

Test Specimen Description:

The ProfileVent material is 3" wide by 7/8" high. It was packaged in a roll approximately 50' long.
The material is plastic mesh.

Test Results: PASSED

$$\frac{9.1\ \text{g}}{34\ \text{in.}^2\ \text{NFVA}} = 0.265\ \text{g/in.}^2\ \text{NFVA captured}$$

Test conducted with metal panel and metal ridge cap.

Test Results: Initial Weight: 0.36 lbs.

Initial Air Infiltration			
Pressure (in H2O)	Air Flow Rate (without vent-cfm)	Air Flow Rate (with vent-cfm)	Difference (cfm)
0.02	92	16	76
0.04	132	25	107
0.06	170	34	136
0.08	214	44	170
0.10	238	56	182
0.15	290	68	222

Test Sequence: Final Weight: 0.38 lbs.

Time (minutes)	Wind Speed	Rate of Dust Application
20	5	46
20	10	46
20	15	46
20	5	46
20	10	4
20	15	46
30	5	46

Final Air Infiltration			
Pressure (in H_2O)	Air Flow Rate (without vent-cfm)	Air Flow Rate (with vent-cfm)	Difference (cfm)
0.02	132	34	98
0.04	164	46	118
0.06	196	60	136
0.08	227	70	157
0.10	252	78	174
0.15	322	90	212

Weight of dust captured by vent = 0.02 lbs. or 9.1g

Net Free Ventilation Area (NFVA) of vent (as reported by Ventco) our net free area varies by product from 23.3 to 48.3 square in. of net free area per lineal ft. (See table of contents–page 1.2) Total NFVA of 2 foot section of vent = 34 in.²

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 = Square feet of net free area needed

For example:

1500 square feet of attic floor space

300 = 5 square feet of free are a 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.

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NET FREE VENTILATION AREA

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:

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

Explanation of equation:

- Factor of *2*: each foot of ridge has two identical areas for ventilation… one on each side of the ridge.
- $A_{Gross/ft}$: the 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
  - $\textit{Fraction air by volume} = 1 - (\Delta \textit{Volume})/(\textit{External volume})$

  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” × 3/4” = 3/32 sqin.

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