

Ridgepac

Small Natural Ventilator



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 **MOFFITT CORPORATION**
NATURAL VENTILATION SOLUTIONS

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Ridgepac Product Details

STANDARD FEATURES

- Throat sizes 9" – 24"
- Lengths 10' – 1000'+
- Installation Instructions
- Birdscreen

OPTIONAL FEATURES

- Dampers
 - Manual
 - Pull Chain
 - Crank
 - Motorized
 - Winch
 - Pneumatic Piston
- Custom Finish
- Special Materials
- Aluminum
- Stainless Steel

BENEFITS

- Zero Maintenance Cost
- Zero Operating Cost
- No Gutters within opening
- Greater Efficiency permits fewer, lower cost installations
- Low silhouette blends smoothly with structure.
- Fits all common roof slopes.
- Keeps air moving, prevents moisture condensation, and exhaust heat & harmful fumes & vapors

APPLICATION

- Warehouses
- General Manufacturing
- Storage Facilities
- Steel Plants
- Aluminum Plants
- Glass Plants
- Power Plants
- Chemical Plants
- Mine Processing Plants
- Pulp & Paper Plants

DESCRIPTION

The Moffitt Ridgepac is designed to be mounted on the ridge of the building to ensure maximum warm air exhaust. This natural ventilator has been designed to be highly efficient, aesthetically pleasing, and a good value with low-cost per CFM.

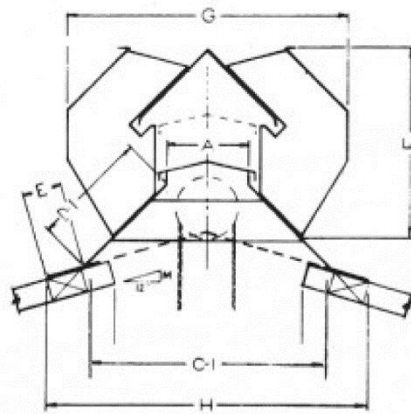
Furnished in self-contained ten-foot modular units, the Ridgepac is made for fast and easy installation. Units sit end-to-end with one another, overlapping to ensure that there are no gaps and no leakages. As such, they can fit any building, regardless of length, and can be used in any application.

Sizes 9" thru 24" and factory assembled. Custom orders are available and a variety of optional features are available.

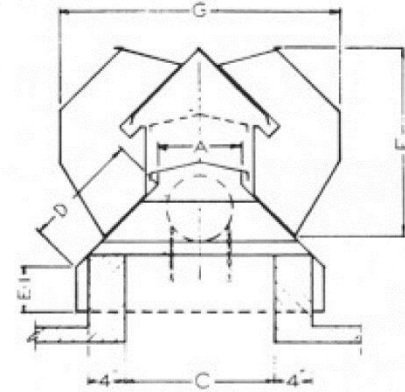
Ridgepac Ridge Ventilator Submittal Data

RIDGEPAC -9

RIDGEPAC -12



PEAK ROOF DETAIL



FLAT ROOF DETAIL

MODEL	C	C-1	D	D-1	E	F	G	H	GALV GA.	NET WT. /FT.	ALUM GA.	NET. WT. / FT.
RIDGEPAC -9	11 ¾	19	8 5/8	7 5/8	3	15 ½	22 5/8	25 5/8	24	14	22	6
RIDGEPAC -12	14 ¾	23	8 7/8	7 7/8	3	16 5/8	28 1/8	28 7/8	24	22	20	12

Throat Size	Chain Operator Length	Throat Free Area per 10' Section (FT ²)
9"	100'	7.5
12"	80'	10

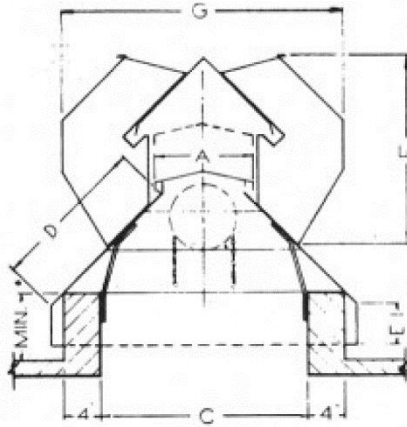
Number of runs	Model	"L" Length of Run	Slope	Damper	Assem 10' SECT	K.D.	Options

Ridgepac Ridge Ventilator Submittal Data

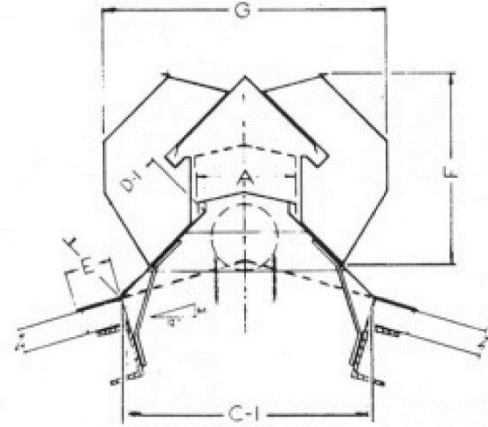
RIDGEPAC -15

RIDGEPAC -18

RIDGEPAC -24



FLAT ROOF DETAIL



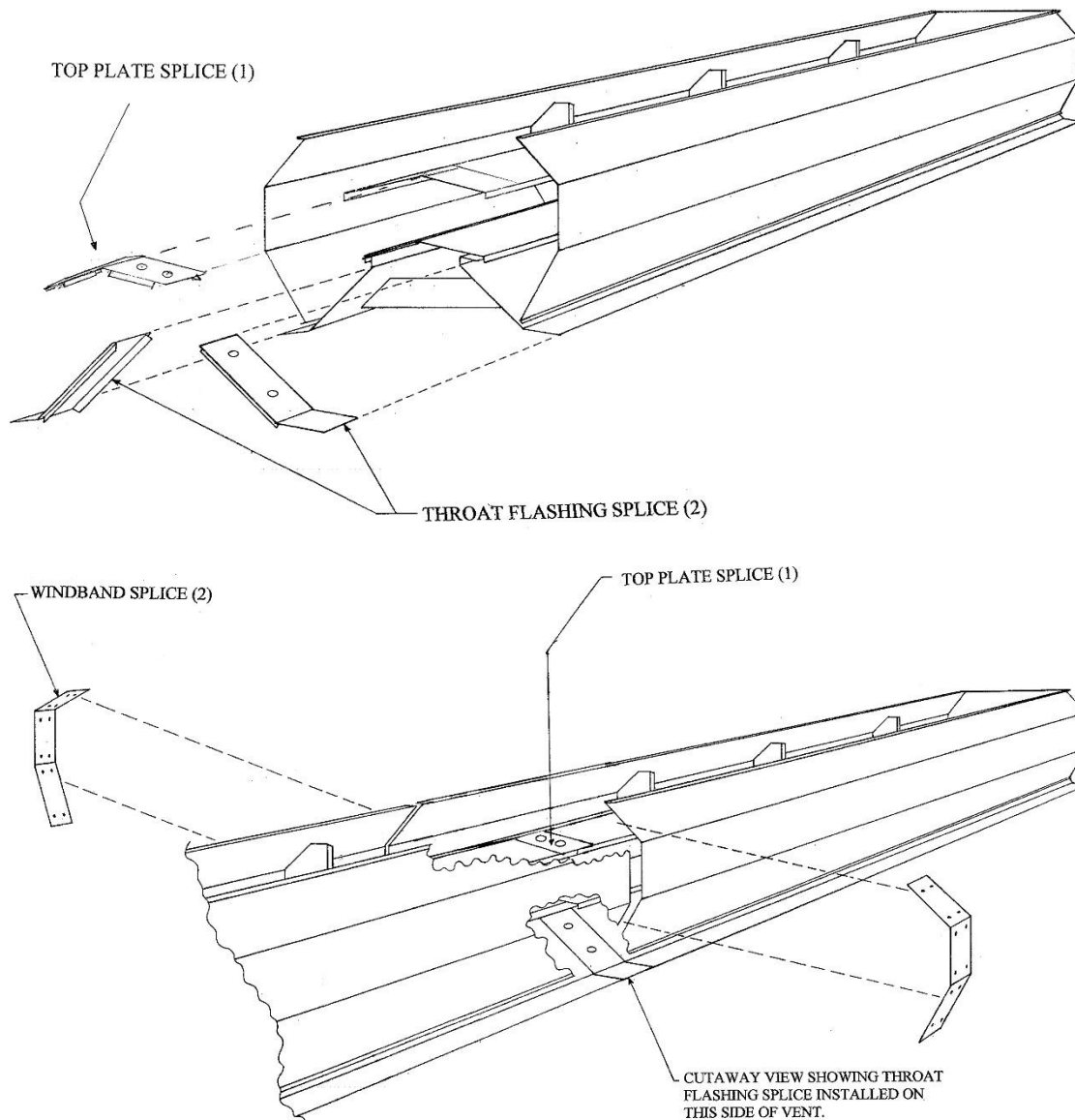
PEAK ROOF DETAIL

MODEL	C	C-1	D	D-1	E	F	G	H	GALV GA.	NET WT. /FT.	B&S GA.	NET. WT. / FT.
RIDGEPAC -15	19 1/8	26 1/8	9	9	3	20	34 1/8	X	22	31	20	14
RIDGEPAC -18	22	30	9 1/2	9 1/2	3	26 1/2	42 1/2	X	20	36	18	17
RIDGEPAC -24	29 1/2	38 1/2	12 3/8	12 3/8	3	34 1/2	55	X	20	57	16	26

Throat Size	Chain Operator Length	Throat Free Area per 10' Section (FT ²)
15"	60'	12.5
18"	60'	15
24"	40'	20

Number of runs	Model	"L" Length of Run	Slope	Damper	Assem 10' SECT	K.D.	Options

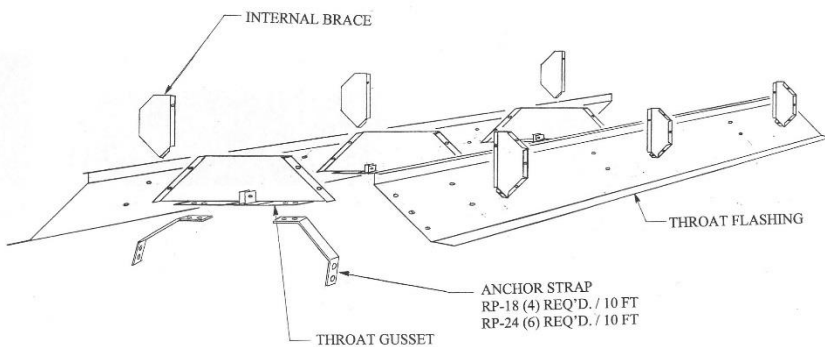
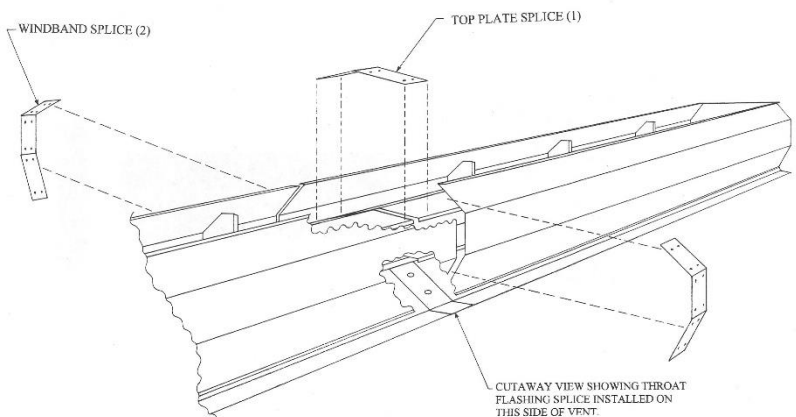
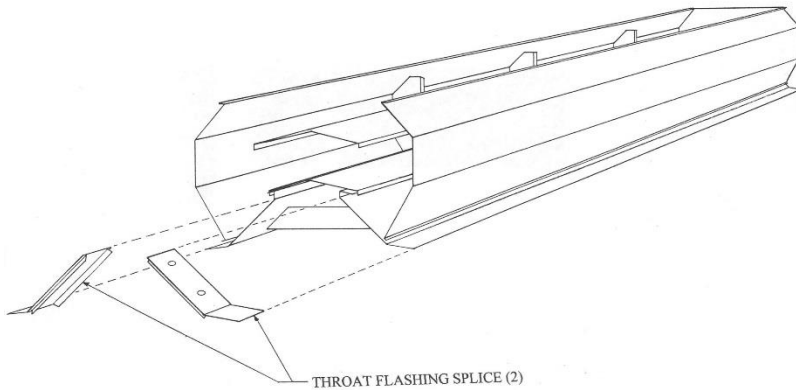
Ridgepac-9, 12 Assembly Instructions



1. Uncrate units
2. Set end unit "a" over roof opening.
3. Install (2) throat flashing splices and (1) top plate splice at open end of unit
4. Set an intermediate unit over roof opening, maintaining a 3/8" gap between units. Note: the units must be installed straight and true both vertically and horizontally along the length of the run.
5. Repeat steps 2, 3 and 4, for remainder of intermediate units.
6. Set end unit (end of run)
7. Install windband splices, fasten with # 10 x 3/4" tek screws.

Ridgepac-15, 18, 24 Assembly Instructions

1. Set end operator unit on roof opening and fasten to roof. Anchor straps are required for units with throat widths of 18" and 24". The anchor straps should be attached to the throat gussets prior to setting the units on the roof opening.
 - a. 18" units require four anchor straps—two at each end throat gusset.
 - b. 24" units require six anchor straps, two at each end throat gusset and two at the center throat gusset.
2. Loosen the screws at the damper filler plate on intermediate and end added unit. Move the damper filler plate so that it extends beyond the end of the unit, and re-tighten the screws. This fills the gap between the dampers when the units are assembled. Make sure that the damper filler plate is under the dampers.
3. Install two throat flashing splices at the open end of the unit.
4. Set intermediate unit on the roof opening, maintaining a 3/8" gap between units. The arrow on the unit should point towards the operator unit. If intermediate operator units are required, see the unit location plan to determine their locations. Note: the units must be installed straight both vertically and horizontally along the length of the run to avoid binding of the operator bars.
5. Repeat steps 2, 3, and 4 for all intermediate units.
6. Set end added unit.
7. Loosen screen at ends of each unit.
8. Install top plate splice. Caulk between splice and top plate, and fasten with #10 self-tapping screws.
9. Replace screen and splice ends together.
10. Install windband splices with #10 self-tapping screws.
11. Remove shipping straps, tire wires or other obstructions to free operator bar movement.
12. With all dampers in the closed position, assemble the operator bar splices, adjust and tighten the 1.1" lock nuts.



Ridgepac Operator Instructions

MANUAL WINCH OPERATOR

1. Install the winch and attach the cable per the winch manufacturer instructions.
2. If idler pulleys are used for cable direction change, install the pulleys and thread the cable thru the pulley brackets.

MANUAL CHAIN OPERATOR

1. Release the chain from the bottom of the operator unit.
2. If idler pulleys are used for chain direction, change, mount the pulleys and thread the chain thru the pulley brackets.

ELECTRIC OPERATOR

1. The electric actuator is factory installed and requires no adjustment. Motor manufacturer wiring diagram and recommendations are included in the installation instructions.

PNEUMATIC OPERATOR

1. The pneumatic cylinder is factory installed and requires no adjustment. Connector the air supply to the *w'* port in the cylinder. Use minimum *w'* pipe to provide maximum air volume to cylinder.
2. Line lubricators and filters are recommended in the air supply line. The air requirement is 60-90 psi, depending on unit size and run length.

Ridgepac Natural Ventilators Guide Specification

1.1. DESCRIPTION:

Furnish and Install Ridgepac Ridge Ventilators and accessories as indicated on drawings.

1.2. QUALITY ASSURANCE:

MOFFITT (Jacksonville, FL, 1-800-474-3267) Products establish the standard of quality required. Manufacturer and erector shall demonstrate a minimum of five (5) years of related industry experience.

1.3. SUBSTITUTIONS:

No substitutions will be considered unless written request for approval has been submitted by the bidder and has been received by the designer at least ten (10) days prior to bid date. Any proposed substitutions should meet the standards set by the specification.

1.4. SUBMITTALS:

Furnish approval drawings prior to fabrication and erection drawings prior to shipment showing all erection procedures and accessories required for the specified product.

1.5. DESIGN

Ridgepac Ridge Ventilators shall be designed for airflow capacities as shown on capacity table found on page 3 of this catalog.

2.1. MATERIALS

- 2.1.1. The Ridgepac Ridge Ventilator's free area shall increase proportionally throughout so as not to restrict calculated velocities with the exhaust opening not exceeding 1.5 times the throat size.
- 2.1.2. All ventilators shall be capable of self-cleaning by action of the elements, with provisions for carrying water and normal wind-transported soil to the outside of the ventilator.
- 2.1.3. Material is a galvanized construction mill finish with a thickness of 20-24 gauge exterior wind bands and 18-20 integral support components as indicated on cut sheet.

2.2. ACCESSORIES

- 2.2.1. Ventilators shall be equipped with 1/2" mesh, 19 gauge, galvanized bird screens .051 expanded aluminum bird screen.
- 2.2.2. Dampers: Pull to open, release to close- A chain catch is provided in the ventilator with 20' chain as standard length. Not to be used for more than one 10' section.
- 2.2.3. Sprocket Gear Damper- Operates an Acme threaded screen to provide added leverage for operating many sections. Standard chain length is 40' (20' loop).

3.1. INSPECTIONS

Examine alignment telescoped modules verify all caulking and fasteners have been applied per installation instructions.

3.2. INSTALLATION & ERECTION

Install Ridgepac Ventilator and accessories in conformance with approved drawings and MOFFITT specifications.

3.3. DAMAGED MATERIAL

Repair or replace all damaged material.