Ventilators are manufactured in accordance with the highest design requirements and specifications. 40 plus years of experience in furnishing stationary, gravity-flow, continuous ridge ventilators has proven their efficient performance and lasting quality.

A properly engineered ventilation system using continuous ridge ventilators will control the movement of fresh air through the building removing hot, stale air and air contaminated by manufacturing or production processes. Summer heat is released naturally through gravity ridge ventilators. During winter proper ventilation can assist in the control of condensation and other moisture problems, such as rust and deterioration of insulation or the damage to stored products.

Our ridge ventilator is a low-profile design manufactured in 10-foot lengths which can be installed as individual units or in continuous runs. Vents may be furnished with or without dampers to control the flow of air. Operation of dampers is standard by pull chains (Please specify when ordering), multiple damper operation is available for up to 5 or more units.

Ventilators are shipped with a 1:12 end cap and can be field modified to accommodate up to a 6:12 roof pitch.

**Standard Size**
9" throat and 12" throat—10 foot sections. Other sizes available upon request. Low profile design can be used for single unit or continuous run installation with no disassembly.

**Integral Dampers**
Easy-moving damper opens to any degree from fully open to completely closed.

**Design**
Aerodynamically proportioned to exclude weather — protects air passages and full outlet area.

**Bird Screen**
Fully protected by 4 x 4 mesh galvanized hardware cloth.

**Construction**
Durable 26 gauge exterior combined with internal components of 24, 20 and 18 gauge die formed sheet metal and machined parts for long service life.

**Finish**
Pre-painted or galvalume is standard. Other materials and finishes available upon request.

**Drainage Area**
Continuous slot — bottom of both sides of windbands.

**BUILDINGS MUST BREATHE!**

Ventilators are manufactured in accordance with the highest design requirements and specifications. 40 plus years of experience in furnishing stationary, gravity-flow, continuous ridge ventilators has proven their efficient performance and lasting quality.

A properly engineered ventilation system using continuous ridge ventilators will control the movement of fresh air through the building removing hot, stale air and air contaminated by manufacturing or production processes. Summer heat is released naturally through gravity ridge ventilators. During winter proper ventilation can assist in the control of condensation and other moisture problems, such as rust and deterioration of insulation or the damage to stored products.

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18933 Aldine Westfield • Houston, TX 77073 • Phone 281-443-9065 • Fax 291-443-9064 • 888-GO-RIGID • www.rigidbuilding.com
DIMENSIONS AND TECHNICAL DATA

**DIMENSIONS** (In Inches)

<table>
<thead>
<tr>
<th>Throat*</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tbody>
<tr>
<td>9&quot;</td>
<td>13</td>
<td>21</td>
<td>14</td>
<td>18</td>
<td>28</td>
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<td>17</td>
<td>28</td>
<td>18</td>
<td>22</td>
<td>33</td>
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**SHIPPING WEIGHTS**

<table>
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<tr>
<th>Size</th>
<th>Boxed</th>
<th>Pkg. Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>9&quot;</td>
<td>124 lbs</td>
<td>209 lbs</td>
</tr>
<tr>
<td></td>
<td>124 1/2&quot; X 19 1/4&quot; X 30 1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>12&quot;</td>
<td>148 lbs</td>
<td>218 lbs</td>
</tr>
<tr>
<td></td>
<td>124 1/2&quot; X 23&quot; X 35&quot;</td>
<td></td>
</tr>
</tbody>
</table>

* Other sizes available upon request.

Chain-operated damper utilizes a rugged sash chain through chain locking device. Damper is spring-loaded to open and can be adjusted to any opening from fully open to fully closed. Optional operator packages for multiple units or wall operation are available. (See below.)

**PERFORMANCE DATA**

<table>
<thead>
<tr>
<th>Throat Size</th>
<th>Vent Above Ground</th>
<th>CFM</th>
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</thead>
<tbody>
<tr>
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<td>1323</td>
</tr>
<tr>
<td></td>
<td>20'</td>
<td>1890</td>
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<td></td>
<td>30'</td>
<td>2241</td>
</tr>
<tr>
<td></td>
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<td>2511</td>
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<tr>
<td>12&quot;</td>
<td>10'</td>
<td>1764</td>
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<tr>
<td></td>
<td>20'</td>
<td>2520</td>
</tr>
<tr>
<td></td>
<td>30'</td>
<td>2988</td>
</tr>
<tr>
<td></td>
<td>40'</td>
<td>3348</td>
</tr>
</tbody>
</table>

Assumes 10° Temperature differential and 5 mph wind speed

18933 Aldine Westfield • Houston, TX 77073 • Phone 281-443-9065 • Fax 291-443-9064 • 888-GO-RIGID • www.rigidbuilding.com
9" CONTINUOUS VENTILATOR SPECIFICATIONS

Ventilators are of low profile design to provide gravity type ventilation. Bird-screen is provided to prevent nesting and each unit contains flashing for either single unit or continuous-run installation.

Each unit is 9" x 10' with a base ventilating capacity of 2700 CFM at 20° temperature differential with a 25' stack height.

Exterior parts are 26GA. G90 galvanized, painted galvanized or galvalume. ASTM A446.

Interior parts are all of G90 galvanized steel.

Substructure consists of 10GA. saddle straps with interior baffles of 24GA. Pull bars and pivot brackets are of 20GA. Lifter arms and damper slides are of 18GA.

Manual operation is through activation of pull bar, which is attached to bell-cranked type lifter arms connected to damper with teflon coated pins through damper slides.

Dampers are spring loaded to remain in open position until pull bar is operated and locked in the closed position. Dampers operate in vertical manor.

Birdscreen is 4x4 mesh galvanized hardware cloth.
### Dimensions (In Inches)

<table>
<thead>
<tr>
<th>Throat</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
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<td>21¼</td>
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</tr>
<tr>
<td>12</td>
<td>17</td>
<td>28½</td>
<td>18</td>
<td>22</td>
<td>33</td>
</tr>
<tr>
<td>18</td>
<td>26¼</td>
<td>45¼</td>
<td>30¾</td>
<td>30</td>
<td>49</td>
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<tr>
<td>24</td>
<td>33½</td>
<td>57</td>
<td>38¾</td>
<td>36¾</td>
<td>58¾</td>
</tr>
<tr>
<td>36</td>
<td>47½</td>
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<td>53¾</td>
<td>55</td>
<td>83½</td>
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### Shipping Weights

<table>
<thead>
<tr>
<th>Size</th>
<th>Boxed</th>
<th>Standard Crated</th>
<th>Pkg. Size</th>
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</thead>
<tbody>
<tr>
<td>9&quot;</td>
<td>124 lbs</td>
<td>209 lbs</td>
<td>124¼&quot; X 19½&quot; X 30¼&quot;</td>
</tr>
<tr>
<td>12&quot;</td>
<td>148 lbs</td>
<td>218 lbs</td>
<td>124¼&quot; X 23&quot; X 35&quot;</td>
</tr>
</tbody>
</table>
**WELDED FRAME RIDGE VENTILATORS**

NOTE: EXTERIOR AND INTERIOR FRAME MADE OF \( \frac{3}{8}'' \times 1\frac{1}{2}'' \times 1\frac{1}{2}'' \) ANGLE HOT-DIPPED GALVANIZED AFTER WELDING. ALL OTHER PARTS MADE OF 22 GA. SHEET METAL, STANDARD WHITE OR GALVALUME.

### WELDED FRAME VENTILATOR DIMENSIONS

<table>
<thead>
<tr>
<th>A</th>
<th>A/2</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>P</th>
<th>WT.</th>
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<td>11</td>
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<td>20(\frac{1}{2})</td>
<td>67(\frac{3}{8})</td>
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</tr>
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</table>

Purlin Spacing = “P” Plus 3’ Each Side
## Table of Capacities for Continuous Ventilators

**CAPACITY:**
To determine capacity per unit, multiply “Base Rating” by “Temperature-Height Factor”: 

\[ \text{CFM} = \text{Base} \times \text{Temperature-Height Factor} \]

Based on fresh air intake area \(\frac{1}{2}\) times ventilator throat area. Assumes 5 mph wind speed.

<table>
<thead>
<tr>
<th>Height</th>
<th>5°</th>
<th>10°</th>
<th>15°</th>
<th>20°</th>
<th>25°</th>
<th>30°</th>
<th>35°</th>
<th>40°</th>
<th>45°</th>
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<tbody>
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<td>.49</td>
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<td>.76</td>
<td>.81</td>
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<td>15'</td>
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<td>.60</td>
<td>.71</td>
<td>.80</td>
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<td>.92</td>
<td>.99</td>
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**Base Ratings**

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<td>12600</td>
</tr>
<tr>
<td>48&quot;</td>
<td>14400</td>
</tr>
</tbody>
</table>

**Height** = vertical rise from inlets near floor to ventilator.

**Temperature** = estimated temperature difference between middle of air intake near the floor and ventilator with dampers open.

CV-01.4 / Rev. 8/99
NOTE:
BREAK DRAIN ASSEMBLY TO FOLLOW EXACT SLOPE OF ROOF

NOTES:
BE SURE WEEPS ARE LEFT OPEN FOR 5:12 AND UP ROOF PITCHES, THE TWO BOTTOM RIVETS MUST BE REMOVED BEFORE END SKIRT MAY BE PLACED ON VENT. REPLACE RIVET WITH SCREW.

RIDGE VENT FLASHING WITHOUT DIE-FORMED SKIRTS
CONTINUOUS VENTILATOR
DIE-FORMED SKIRT

END OF VENT DETAIL

END SKIRT DETAIL AND CONTINUOUS VENT SPLICE

END CAP OF VENT

CHANNEL

GUTTER

TAPE SEAL

ROOF PANEL

CHANNEL SUPPORT

GUTTER SUPPORT

4/22/97

CV-01.7 / Rev. 03/00

VFSS-1

DIE-FORMED SKIRT APPLICATION

CONTINUOUS VENT

NOTE

DATE
CONTINUOUS VENTILATOR FLAT SKIRT

DATE:

TITLE:

PART:

END OF VENT DETAIL

CLOSURE (Not by MP)

CONTINUOUS VENT SPLICE

END SKIRT DETAIL AND

CLOSURE (Not by MP)

END CAP OF VENT

DRAIN AT END OF VENT

CAULK HERE

ROOF PANEL
MAJOR RIB

END CAP OF VENT

DRAIN AT MULTI-UNIT SPLICE

CAULK HERE

ROOF PANEL
MAJOR RIB

END OF VENT DETAIL

CLOSURE (Not by MP)

END SKIRT DETAIL AND CONTINUOUS VENT SPLICE

CV-01.8 / Rev. 03/00
NOTE: DOTTED LINE INDICATES FIELD CUT FOR 6:12 ROOF SLOPE. OTHER SLOPES AS NOTED.

ROOF PITCH LESS THAN 1:12 INSTALLATION:
INSTALL END SKIRT FOR 1:12 ROOF SLOPE AND FOAM CLOSURE WITH TAPE SEALER TOP AND BOTTOM.

ROOF PITCH GREATER THAN 5:12 INSTALLATION:
REMOVE TWO BOTTOM RIVETS BEFORE INSTALLING END SKIRT. REPLACE THE RIVETS WITH SHEETING SCREWS ONCE END SKIRT IS IN PLACE.
DATE: OCT. 1, 1983
TITLE: END WALL INSTALLATION
PART: CONTINUOUS VENT

OPERATOR A: 3/16" UNCOATED AIRCRAFT CABLE WITH CABLE KEEPER
OPERATOR B: NO. 35 ZINC COATED SASH CHAIN WITH CHAIN KEEPER
OPERATOR C: HAND LEVER TYPE
OPERATOR D: BOAT WINCH TYPE

3 UNITS MAX.
3 UNITS MAX.
6 UNITS MAX.
12 UNITS MAX.

END WALL SECTION

DETAIL 1

SUPPORT ANGLE BTWN.
PURLINS 3 X 3 X ¼
(NOT BY M.P.)

VENT PULL CABLE
PULLEY

CLAMP

OPERATOR CHANNEL

DETAIL 2

CABLE
GIRT
EYEBOLT

DETAIL 3 - Type D
DETAIL 3 - Type A
DETAIL 3 - Type B
DETAIL 3 - Type C

AT COLUMN
BTWN. COLUMNS

ANGLE 3 X 3 X ¼
(NOT BY M.P.)
1¼" (45)

3½" (90)

4 SCREWS

1¼" (45)

PLATE WELDED
to COLUMN
(NOT BY M.P.)

BOAT WINCH

SECTION 1

CLAMP

LEVER HANDLE

S-HOOK

8" (200)
Pivot ANGLE
EYEBOLT

SECTION 1

CLAMP

LEVER HANDLE

S-HOOK

12 NUTS &
WASHERS

Pivot ANGLE

SECTION 2

RIDGE VENT

4" (100)

DETAIL 1

DETAIL 2

DETAIL 3
OCT. 1, 1983
SIDE WALL INSTALLATION
CONTINUOUS VENT

DETAIL 1

SUPPORT ANGLE BTWN
PURLINS 3 X 3 X ¼
(NOT BY M.P.)

CLAMP
VENT PULL CABLE
PULLEY
EYEBOLT

OPERATOR CHANNEL

DETAIL 2

COLUMN

PLATE WELDED
TO COLUMN
(NOT BY M.P.)

BOAT WINCH

DETAIL 3 - Type D
DETAIL 3 - Type A
DETAIL 3 - Type B
DETAIL 3 - Type C

OPERATOR A: 3/16" UNCOATED AIRCRAFT CABLE WITH CABLE KEEPER
OPERATOR B: NO. 35 ZINC COATED SASH CHAIN WITH CHAIN KEEPER
OPERATOR C: HAND LEVER TYPE
OPERATOR D: BOAT WINCH TYPE

2 UNITS MAX.
2 UNITS MAX.
5 UNITS MAX.
10 UNITS MAX.

1/2 CROSS SECTION

RIDGE VENT OPERATOR

DETAIL 2

DETAIL 3

DETAIL 1

DETAIL 3 - Type D
DETAIL 3 - Type A
DETAIL 3 - Type B
DETAIL 3 - Type C

OPERATOR A: 3/16" UNCOATED AIRCRAFT CABLE WITH CABLE KEEPER
OPERATOR B: NO. 35 ZINC COATED SASH CHAIN WITH CHAIN KEEPER
OPERATOR C: HAND LEVER TYPE
OPERATOR D: BOAT WINCH TYPE

2 UNITS MAX.
2 UNITS MAX.
5 UNITS MAX.
10 UNITS MAX.

DETAIL 1

DETAIL 2

DETAIL 3

DETAIL 3 - Type D
DETAIL 3 - Type A
DETAIL 3 - Type B
DETAIL 3 - Type C

OPERATOR A: 3/16" UNCOATED AIRCRAFT CABLE WITH CABLE KEEPER
OPERATOR B: NO. 35 ZINC COATED SASH CHAIN WITH CHAIN KEEPER
OPERATOR C: HAND LEVER TYPE
OPERATOR D: BOAT WINCH TYPE

2 UNITS MAX.
2 UNITS MAX.
5 UNITS MAX.
10 UNITS MAX.

RIGID
BUILDING SYSTEMS

CONTINUOUS VENT

VSW-1
Longitudinal Section

Cross Section

Elements:
- LIFTER ARM
- DAMPER PULL BAR
- WORM GEAR ASSEMBLY
- BAFFLE
- GUIDE PIN
- END CAP
- END SKIRT
- BIRDSCREEN
- BAFFLE ANGLE
- SIDE PANEL
- RAIN SHIELD
- DAMPER
- LIFTER ARM
- SKIRT
- SADDLE STRAP
- WORM GEAR ASSEMBLY
- WI CONT. LOOPING CHAIN

Continuous Vent
LOW PROFILE FLOATING RIDGE VENT…
RIDGE LINE

...featuring Cor-A-Vent® ventilation core is designed specifically for architectural standing-seam retrofit applications and some residential applications where maximum ventilation is required in an attractive, very low-profile unit.

**Standard Size**
Each ten-foot unit features 180 square inches of free area with a base rating of 450 CFM's of air movement. Units in lengths of other than ten feet can be manufactured upon request. Throat size is determined by roof pitch.

**Construction**
Unit is factory assembled and ready for installation. Vent features the Cor-A-Vent® ventilation core — a time-tested, economical, self-cleaning and durable core which has been in service since 1970. All steel parts are 24 gauge.

**Finish**
Steel parts match roof type and color finish. All paint types and colors are available including Kynar®. Please specify roof system, paint system and color when ordering.

**Design**
Aerodynamic, low-profile design enhances the looks and performance of architectural roof systems. The unit moves toward the ridge on floating roofs. Vents are made to match roof slope to maintain low-profile appearance.

**BUILDINGS MUST BREATHE!**

One of the most overlooked components of design and installation of architectural roofing systems, both in new construction and retrofit applications, is ventilation. A properly engineered ventilation system using a continuous ridge vent in conjunction with an under soffit intake will provide proper fresh air movement through the roofing system removing hot, stale air. Summer heat is released naturally, extending both the life and performance of the roof. During winter proper ventilation can assist in the control of condensation and other moisture problems such as rust and insulation deterioration.

Our ridge ventilators are manufactured in accordance with the highest design requirements and specifications. 40 plus years of experience in furnishing stationary, gravity-flow, continuous ridge ventilators has proven their efficient performance and lasting quality.

Lo-profile floating ridge vents are a low-profile, aesthetically pleasing and extremely efficient means of ventilating standing seam roofs. Each unit is manufactured in 10’ lengths and can be installed as a single unit or can be butted together to form a continuous run. By lapping the furnished joint covers over the top of the butted joints in a continuous run, the vent has the appearance of a single unit.

When ordering please specify roof slope, roof system, paint system, and color.

18933 Aldine Westfield • Houston, TX 77073 • Phone 281-443-9065 • Fax 291-443-9064 • 888-GO-RIGID • www.rigidbuilding.com
**TABLE A**

Air Movement per Lineal Foot Factors

<table>
<thead>
<tr>
<th>HEIGHT IN FEET</th>
<th>Temperature Difference</th>
<th>5°</th>
<th>10°</th>
<th>15°</th>
<th>20°</th>
<th>25°</th>
<th>30°</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>22.05</td>
<td>26.10</td>
<td>28.80</td>
<td>31.50</td>
<td>34.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>27.00</td>
<td>31.95</td>
<td>36.00</td>
<td>38.70</td>
<td>41.40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>31.50</td>
<td>36.45</td>
<td>41.40</td>
<td>44.50</td>
<td>48.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>34.65</td>
<td>40.05</td>
<td>45.00</td>
<td>48.60</td>
<td>53.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>37.35</td>
<td>43.65</td>
<td>48.60</td>
<td>52.65</td>
<td>57.60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>39.15</td>
<td>45.90</td>
<td>51.30</td>
<td>55.80</td>
<td>60.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>41.85</td>
<td>48.60</td>
<td>54.90</td>
<td>58.50</td>
<td>63.45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>43.20</td>
<td>50.40</td>
<td>57.60</td>
<td>62.10</td>
<td>66.60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>45.45</td>
<td>53.10</td>
<td>59.85</td>
<td>64.80</td>
<td>70.20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** If material is furnished by customer, the following must be supplied for each 10' section:
- Painted Screws
- 1 Sheet for Metal Roof, 2 for Shingle
- 15 Self-Tapping Screws ¼" x 1½"
- Type A W/Washers

**TABLE B**

Wind Velocity Factors

<table>
<thead>
<tr>
<th>WIND M.P.H</th>
<th>Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>3</td>
<td>1.14</td>
</tr>
<tr>
<td>5</td>
<td>1.25</td>
</tr>
<tr>
<td>7</td>
<td>1.41</td>
</tr>
<tr>
<td>9</td>
<td>1.62</td>
</tr>
<tr>
<td>11</td>
<td>1.82</td>
</tr>
</tbody>
</table>

**TOTAL CFM = (Table A) X (Table B) X Length**

**TABLE C**

Throat Size (Determined by Roof Pitch)

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Throat Size</th>
<th>Pitch</th>
<th>Throat Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:12</td>
<td>6¼&quot;</td>
<td>7:12</td>
<td>4¼&quot;</td>
</tr>
<tr>
<td>2:12</td>
<td>6¾&quot;</td>
<td>8:12</td>
<td>3¼&quot;</td>
</tr>
<tr>
<td>3:12</td>
<td>5¾&quot;</td>
<td>9:12</td>
<td>3&quot;</td>
</tr>
<tr>
<td>4:12</td>
<td>5½&quot;</td>
<td>10:12</td>
<td>2½&quot;</td>
</tr>
<tr>
<td>5:12</td>
<td>4⅞&quot;</td>
<td>11:12</td>
<td>2⅜&quot;</td>
</tr>
<tr>
<td>6:12</td>
<td>4⅞&quot;</td>
<td>12:12</td>
<td>1⅜&quot;</td>
</tr>
</tbody>
</table>
NOTE:
DO NOT CUT ANY SLOTS IN THE EXISTING DECK ONE TRUSS BAY EITHER SIDE OF A DRAFT BARRIER WALL.

THROAT VARIES WITH ROOF PITCH

CUT SLOTS STAGGERED EACH SIDE OF RIDGE BEAM

7 1/2" MIN.

NOTE:
RIDGE VENT OPENINGS WILL REQUIRE SPECIAL ATTENTION TO AVOID INTERRUPTION OF ANY FIRE WALL INTEGRITY
NOTE:
DO NOT CUT ANY SLOTS IN THE EXISTING DECK ONE TRUSS BAY EITHER SIDE OF A DRAFT BARRIER WALL.

NOTE:
RIDGE VENT OPENING WILL REQUIRE SPECIAL ATTENTION TO AVOID INTERRUPTION OF ANY FIRE WALL INTEGRITY

THROAT VARIIES WITH ROOF PITCH
FLOATING RIDGE CAP
VENTILATION CORE

CUT SLOTS STAGGERED EACH SIDE OF RIDGE BEAM

7 1/2" MIN.

SHINGLES

10 1/2"
8 1/2"
5 1/2"
11/8"
2"
6"
NOTE:
DO NOT CUT ANY SLOTS IN THE EXISTING DECK ONE TRUSS BAY EITHER SIDE OF A DRAFT BARRIER WALL.

NOTE:
RIDGE VENT OPENINGS WILL REQUIRE SPECIAL ATTENTION TO AVOID INTERRUPTION OF ANY FIRE WALL INTEGRITY.