

Schebler
CHIMNEY SYSTEMS

eVent™ SD

SMALL DIAMETER
HIGH EFFICIENCY
APPLIANCE VENT



Underwriters
Laboratories Inc.®
LISTED

LISTINGS

The Schebler eVent™ SD system is tested and listed by Underwriters Laboratories Inc. (UL) under file number MH10056 for **UL 1738** and ULC S636-95 vent.

SYSTEM CONCEPT

eVent™ SD is a modular double wall prefabricated vent and exhaust system used in venting high efficiency appliances that require a positive, neutral or negative draft exhaust. Sections are provided in lightweight, easy-to-handle lengths. Connections are sealed with pressure tight drawbands and high temperature sealant. Straight sections, variable length joints, tees, elbows and support devices are offered, allowing a complete exhaust system to be assembled from standard components. eVent™ SD utilizes an AL 29-4C® liner with a 1" air gap between the inner and outer shell.

VENTING APPLICATIONS

eVent™ SD is a double wall special stainless steel venting system for gas fired appliances listed as Category II, III, and IV with a maximum flue gas temperature of 550°F, and 40" w.c. positive pressure. Gas vent - BH, Class I / Class II - 245°C. eVent™ SD is also suitable for other applications that call for an AL 29-4C® vent.

COMPLETE LINE OF FITTINGS AND SIZES AVAILABLE

eVent™ SD is available in even and odd diameters ranging from 4" to 8". A complete line of straight sections, variable lengths, tees, elbows, rain caps, roof penetration components and support members are offered.

MATERIAL AVAILABLE

eVent™ SD is available in a variety of materials allowing the proper material selection for your specific application. The standard product features an AL 29-4C® stainless steel liner and an aluminized steel outer shell.

Exterior installations which are not easily accessible for periodic painting, you should consider a 304 or 316 stainless steel outer shell which will require no maintenance.

MATERIAL THICKNESS

The standard material thickness for eVent™ SD liners is 24 ga. (.024"); for shells it is 22 ga. (.034").

SUPPORT LIMITS

Support plates and wall supports are utilized to support the weight of the vent. In horizontal runs, supports should be placed adjacent to fittings that are not otherwise supported. See the individual part description for allowable support charts.

TESTS PERFORMED

eVent™ SD has endured rigorous tests by Underwriters Laboratories. Just a few of the tests performed are:

- **Structural Tests** The support plates and wall supports have been physically tested to carry a load 4 times that allowed by our listing.
- **Wind Load Tests** Loads equivalent to 110 mph wind have been applied to the chimney with acceptable results.
- **Pressure Tests** UL listed at 40" w.c. positive pressure.
- **Leak Tests** Joints have passed UL leakage test.
- **Rain Tests** The rain caps have been tested to ensure that an unsatisfactory amount of water does not enter the rain cap.

UNIQUE FEATURES

eVent™ SD offers unique features that no other vent manufacturer can provide.

- **Industries Highest Pressure Rating of 40" w.c.**
 - Reduces risk of leakage
- **Fully Welded Fittings**
 - Trouble free and long life
- **Greater Distance Between Supports**
 - Reduces installation cost
 - Solution to design challenges
- **Union Made Product**
- **Lifetime Warranty**

SCHEBLER VALUE

- **Fast Project Completion**
 - 2-week lead time (vs. industry standard 3-6 weeks)
 - Trouble-free installation / detailed instructions
 - No on-site welding
- **Maximum Strength / Long Life**
 - Unmatched dimensional accuracy for secure joint connections
 - Fully welded liners and shells
 - Unequalled support limits
- **Complete System Design**
 - CAD drawings
 - 3D design solutions
 - Complete BOM
 - System sizing
- **Special Fittings**

OPERATING TEMPERATURES AND CLEARANCES

eVent™ SD has been tested and listed for a maximum flue gas temperature of 550°F, and ULC-S636-95 for gas vent-BH, Class I / Class II - 245°C. 4"- 8" section inside diameter has a 1" (25mm) clearance at 550°F (288°C). Clearances are from the shell to combustibles. Clearance to non-combustible materials for all diameters and applications is 0" (0mm).

PART NUMBERS

All standard parts manufactured by Schebler are identified by a part number which describes their make up and function.

The part numbers are made up as follows:

1. The first series is the model designation, ESD (eVent™ SD).
2. This is followed by the part name. For example 35S, 90T and CC.
3. Next is the part's internal diameter in inches, such as 04, 06, 08.
4. Last is the liner/shell material designation.

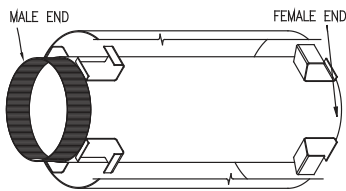
For example the part number for an 8" ID, eVent™ SD, 35" straight section with AL 29-4C® stainless steel liner and aluminized steel shell is: ESD35S08K.

Code	Liner / Shell Material
F	Galvanized
G	Aluminized
H	Painted Carbon Steel
K	AL 29/Aluminized
L	AL 29/304
M	AL 29/316
R	AL 29/430

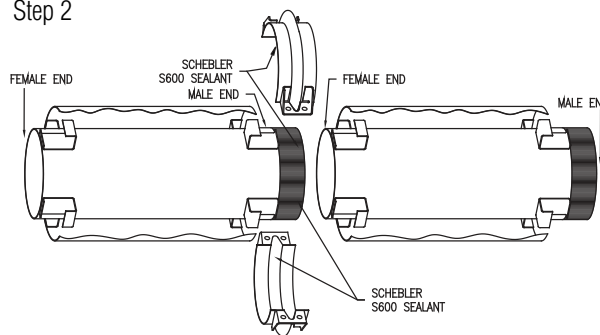
JOINT ASSEMBLY

1. Clean inside of female end, outside of male and vee groove of SD inner band.
2. Apply a $\frac{3}{4}$ " continuous bead of Schebler S600 sealant provided to the outside of the male end approximately $\frac{3}{8}$ " from the edge. Apply a second $\frac{3}{8}$ " continuous bead of sealant on the inside of the female end, approximately $\frac{3}{8}$ " from the edge. Fill the vee groove of the SD inner band with S600.
3. Insert male end of the eVent™ SD into the female end until it stops at the end of the stopping bead. Install SD inner band around the joint spacer clips, using a screwdriver to tighten the SD inner band around the clips with provided hardware. Lightly tap on SD inner band with rubber or rawhide mallet to ensure proper tight joint.
4. Center outer band over gap between the outer shells of the two sections and tighten with supplied hardware.

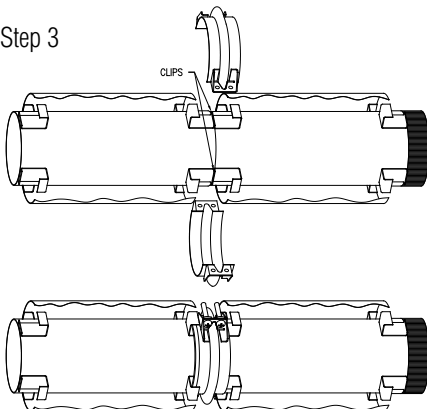
Step 1



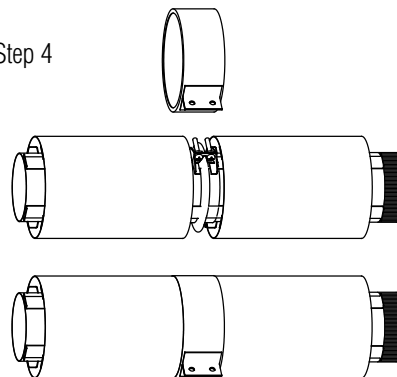
Step 2



Step 3



Step 4

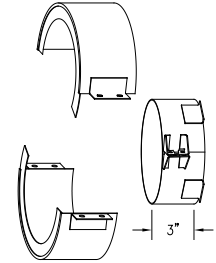


ADAPTER KIT (RAW)

Part No. BKR

The Adapter Kit (Raw) is used for securing pipe to an unflanged appliance outlet.

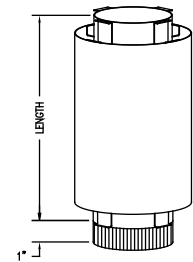
Includes 1 inner band and 1 seal ring to cover the gap between the inner and outer shells.



STRAIGHT SECTION

Part No. 17S and 35S

Includes 1 inner and 1 outer band.

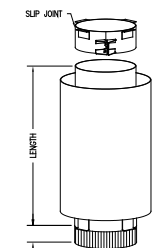


VARIABLE LENGTH SECTION

Part No. 17VS and VS

The Variable Section adjust to provide a fixed odd length between two sections. The minimum length is 7", the maximum is 17" or 35". This part does not provide for thermal expansion.

Includes liner, shell, slip joint, and 1 inner band.



SYSTEM COMPONENTS

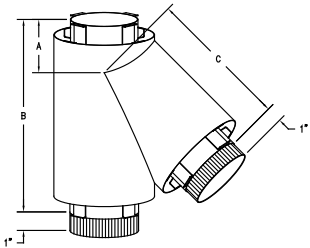
CUSTOM DIMENSIONS ARE AVAILABLE TO SUIT YOUR NEEDS IN EVEN AND ODD SIZES

45° LATERAL TEE

Part No. 45LT

The 45° Lateral Tee is used for low flow resistance entry into a stack or breeching.

Includes 2 inner bands and 2 outer bands.



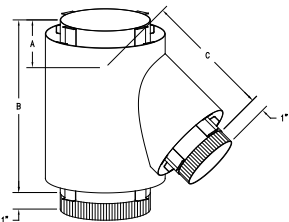
Part No. 45LT			
I.D.	A	B	C
4"	4 7/8"	18 3/8"	13 1/2"
5"	4 7/8"	18 3/8"	13 1/2"
6"	4 7/8"	18 3/8"	13 1/2"
7"	5 1/4"	21"	15 3/4"
8"	5 1/4"	21"	15 3/4"

REDUCING 45° LATERAL TEE

Part No. R45LT

The Reducing 45° Lateral Tee is used for low flow resistance entry into a stack or breeching when the stack or breeching is a larger size. Specify size of branch required.

Includes 1 each inner band and outer band for larger and smaller opening.



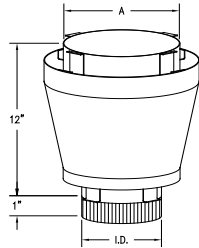
Part No. R45LT			
I.D.	A	B	C
5"	3 15/16"	15 3/8"	11 5/8"
6"	4 1/16"	16 3/4"	12 15/16"
7"	4 7/16"	18 3/8"	14 1/8"
8"	4 9/16"	19 5/8"	15 1/4"

TAPERED INCREASER

Part No. TI

The Tapered Increaser is used when a change in pipe diameter is required.

Includes 1 inner and 1 outer band of both smaller and larger size.



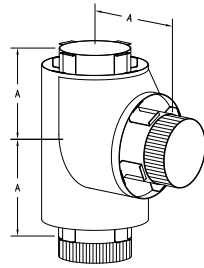
Part No. TI	
I.D.	A
4"	5-8"
5"	6-8"
6"	7-8"
7"	8"

BOOT TEE

Part No. BT

The Boot Tee is used to join horizontal and vertical sections with lower resistance as well as to provide for connection of drain or inspection fittings. Use either the drain tee cap or the end cap for closure of the unused opening.

Includes 2 inner bands and 2 outer bands.



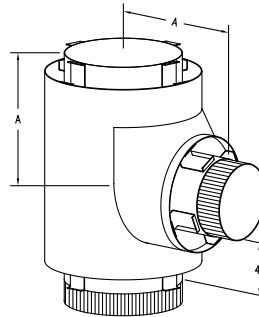
Part No. BT	
I.D.	A
4"	10"
5"	10 1/2"
6"	10 1/2"
7"	11 1/2"
8"	11 1/2"

REDUCING BOOT TEE

Part No. RBT

The Reducing Boot Tee is used to join horizontal and vertical sections of different sizes, as well as provide for connection to drain or inspection fittings. Use either the drain tee cap or the end cap for closure of the unused opening. Specify size of branch required.

Includes 1 each inner band and outer band for larger and smaller opening.



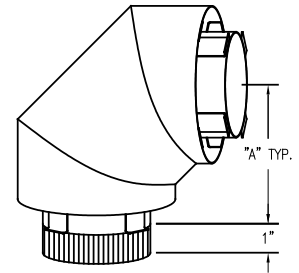
Part No. RBT	
I.D.	A
5"	10 1/2"
6"	10 1/2"
7"	11 1/2"
8"	11 1/2"

90° ELBOW

Part No. 90L

The 90° Elbow is used when making a 90° directional change.

Includes 1 inner and 1 outer band.



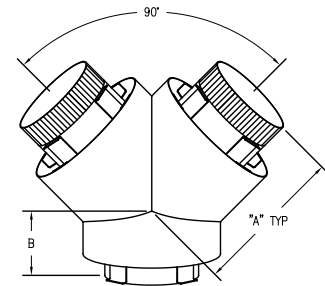
Part No. 90L	
I.D.	A
4"	9 11/16"
5"	9 11/16"
6"	9 11/16"
7"	10 7/8"
8"	10 7/8"

90° WYE

Part No. 90Y

The 90° Wye is used for joining runs where low flow resistance is desired. All openings must be the same size. For connection to smaller diameter sections use the tapered or abrupt increasers.

Includes 2 inner bands and 2 outer bands.



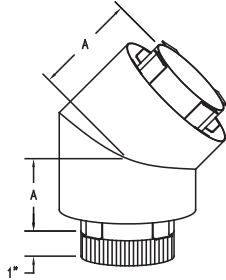
Part No. 90Y		
I.D.	A	B
4"	10 1/2"	7"
5"	10 1/2"	7"
6"	10 1/2"	7"
7"	11 1/2"	7 13/32"
8"	11 1/2"	7 13/32"

45° ELBOW

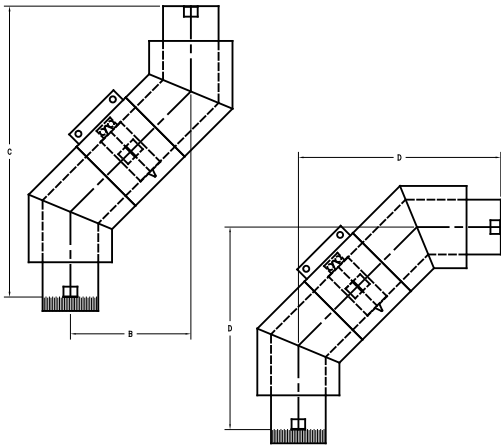
Part No. 45L

The 45° Elbow is used when a vertical or horizontal direction change of 45° is desired.

Includes 1 inner and 1 outer band.



Part No. 45L				
I.D.	A	B	C	D
4"	7"	9 ⁷ / ₈ "	23 ⁷ / ₈ "	16 ⁷ / ₈ "
5"	7"	9 ⁷ / ₈ "	23 ⁷ / ₈ "	16 ⁷ / ₈ "
6"	7"	10 ⁷ / ₁₆ "	25 ³ / ₁₆ "	17 ³ / ₁₆ "
7"	7 ³ / ₈ "	10 ⁷ / ₁₆ "	25 ³ / ₁₆ "	17 ³ / ₁₆ "
8"	7 ³ / ₈ "	10 ⁷ / ₁₆ "	25 ³ / ₁₆ "	17 ³ / ₁₆ "

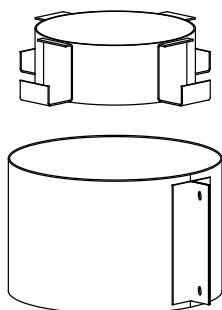


END CAP

Part No. EC

The End Cap is used to close an unused tee opening and to provide a means of accessing the interior of the system for inspection and cleaning.

Includes 1 inner band.

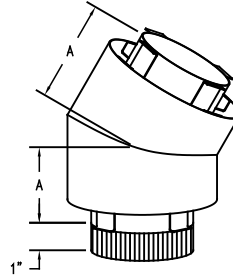


30° ELBOW

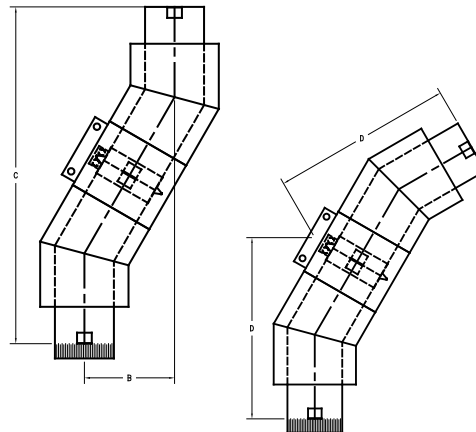
Part No. 30L

The 30° Elbow is used when a vertical or horizontal direction change of 30° is desired.

Includes 1 inner and 1 outer band.



Part No. 30L				
I.D.	A	B	C	D
4"	6 ¹ / ₈ "	6 ¹ / ₈ "	22 ⁷ / ₈ "	13 ³ / ₁₆ "
5"	6 ¹ / ₈ "	6 ¹ / ₈ "	22 ⁷ / ₈ "	13 ³ / ₁₆ "
6"	6 ¹ / ₈ "	6 ¹ / ₈ "	22 ⁷ / ₈ "	13 ³ / ₁₆ "
7"	6 ³ / ₈ "	6 ³ / ₈ "	23 ¹³ / ₁₆ "	13 ³ / ₄ "
8"	6 ³ / ₈ "	6 ³ / ₈ "	23 ¹³ / ₁₆ "	13 ³ / ₄ "

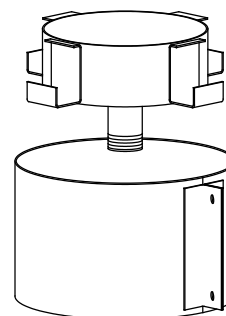


DRAIN TEE CAP

Part No. DTC

The Drain Tee Cap is used to close an unused tee opening and to provide a drain at the base of a vertical vent.

Includes 1 inner band.

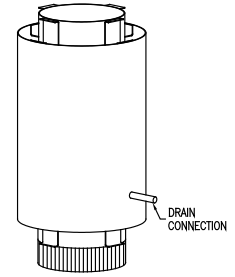


DRAIN SECTION

Part No. DS

The Drain Section is used to drain rain water and condensation from within the stack. The NPT nipple should be connected to a suitable drain.

Includes 1 inner and 1 outer band.

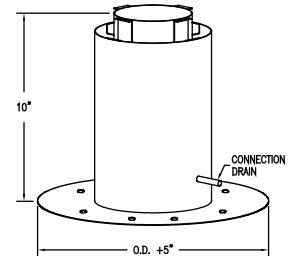


BASE DRAIN SECTION

Part No. BD

The Base Drain Section provides a bottom closure and drain attachment for base supported vents.

Includes 1 inner and 1 outer band.

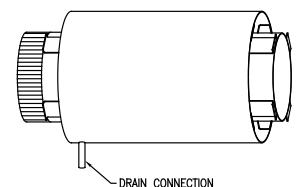


HORIZONTAL DRAIN

Part No. HD

The Horizontal Drain is used to drain rain water and condensation from within the stack. The NPT nipple should be connected to a suitable drain.

Includes 1 inner and 1 outer band.



SYSTEM COMPONENTS

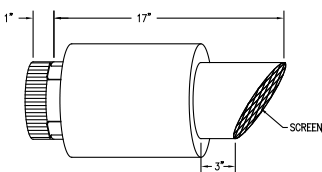
CUSTOM DIMENSIONS ARE AVAILABLE TO SUIT YOUR NEEDS IN EVEN AND ODD SIZES

HORIZONTAL TERMINATION

Part No. HT

The Horizontal Termination is used when the stack terminates in a horizontal position. Birdscreen covers the opening to prevent any birds or rodents from entering.

Includes 1 inner and 1 outer band.

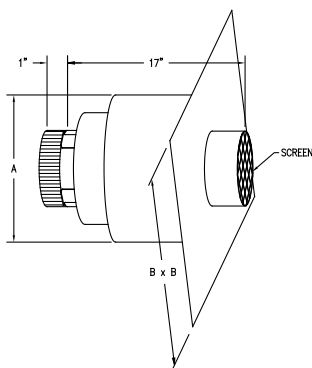


WALL TERMINATION

Part No. WT

The Wall Termination is used when the stack terminates in a horizontal position. It includes an integrated wall thimble and flashing.

Includes 1 inner and 1 outer band.



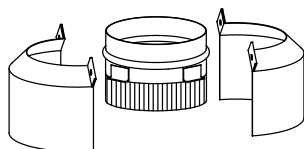
Part No. WT		
I.D.	A	B
4"	9"	15"
5"	10"	16"
6"	11"	17"
7"	12"	18"
8"	13"	19"

TOP SECTION

Part No. TS

The Top Section is used to protect the insulating space between the inner and outer shells when an open termination is required. A drain should be used at the base of stacks to drain off water that enters the system.

Includes 1 inner band and 1 closure ring to seal outer shell joint.

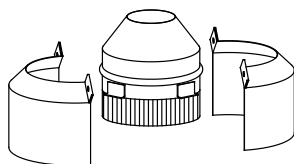


EXIT CONE

Part No. EXC

The Exit Cone is used to increase the flue gas velocity exiting the stack. A drain should be used at the base of stacks to remove any water that enters the system.

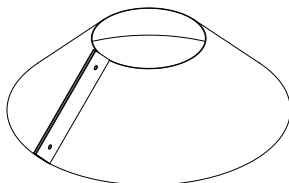
Includes 1 inner band and 1 closure ring to seal outer shell joint.



RAIN COLLAR

Part No. RC

The Rain Collar is used in conjunction with the flashing to seal roof penetrations.



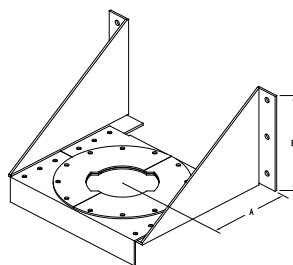
WALL SUPPORT

Part No. WS

The Wall Support is used to provide vent support along a wall. The wall support will maintain the required clearance to combustible structures when properly installed and can support (C) (See Chart Below) feet of vertical chimney.

Includes 1 inner band and 2 half bands.

Note: This part must be placed at the connection of two flue sections.

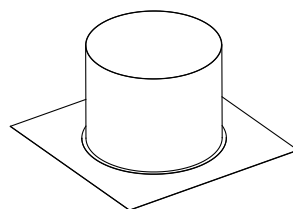


Part No. WS			
I.D.	A	B	C(FT)
4"	10"	11 11/16"	193'
5"	11"	12 3/8"	193'
6"	11"	12 3/8"	193'
7"	13"	14 3/8"	171'
8"	13"	14 3/8"	171'

FLASHING

Part No. FL

The Flashing is used in conjunction with the rain collar to seal roof penetrations. This part is designed for flat roofs. Custom pitched flashings are available upon request.



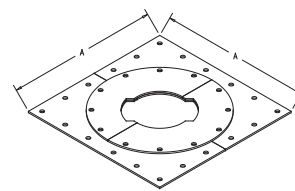
SUPPORT PLATE

Part No. SP

The Support Plate is the primary load carrying member of the vent assembly. This part is designed to support (B) (See Chart Below) feet of vertical vent section as well as provide fixed points in breeching runs.

Includes 1 inner band and 2 half bands.

Note: This part must be placed at the connection of two flue sections.



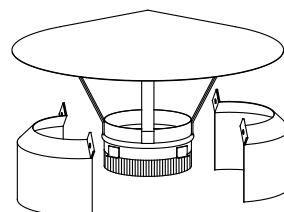
Part No. SP		
I.D.	A	B(FT)
4"	10"	306'
5"	19 3/16"	306'
6"	19 3/16"	306'
7"	21 3/16"	269'
8"	21 3/16"	269'

RAIN CAP

Part No. CC

The Rain Cap is used at stack terminations to prevent water from entering the flue. A drain should be used at the base of stacks to drain off water that may be blown into the flue.

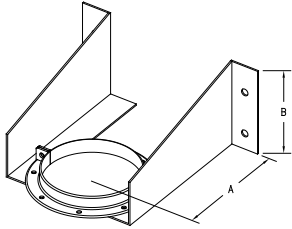
Includes 1 inner band and 1 closure ring to seal outer shell joint.



WALL GUIDE

Part No. WG

The Wall Guide is used to guide long vertical runs that are placed adjacent to walls. This part will maintain proper clearance to combustibles when properly installed.



Part No. WG		
I.D.	A	B
4"	10"	7 1/2"
5"	11"	7 13/16"
6"	11"	7 13/16"
7"	13"	8 1/2"
8"	13"	8 1/2"

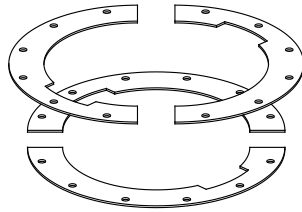
GUY SECTION

Part No. GS

The Guy Section is to be used when the chimney extends beyond the vertical limits above the roof line. The guy section should be connected to guy wires or a rigid guying structure.

Includes 1 inner band and 2 half bands.

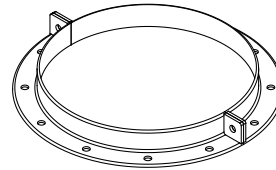
Note: This part must be placed at the connection of two flue sections.



FULL RING

Part No. FR

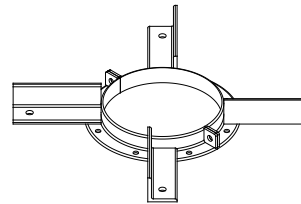
The Full Ring is used to guide horizontal and vertical runs. The part is simply bolted around the outer shell then rigidly connected to the building structure.



FLOOR/ROOF GUIDE

Part No. FRG

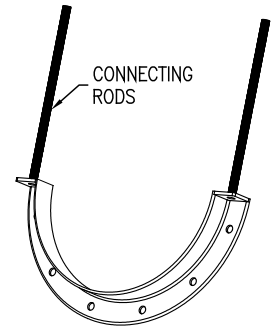
The Floor/Roof Guide is used at the penetration of floors and roofs to guide the vent. This part is designed to absorb lateral loads only. It will not support vertical vent sections.



HALF RING

Part No. HR

The Half Ring is used to support long horizontal runs, placed under the flue and then supported by rods connecting to the building structure.



SAMPLE SPECIFICATION - eVent™ SD

The factory built modular vent shall be laboratory tested and listed in accordance with Underwriters Laboratories Standard UL 1738 for use with category II, III, & IV appliances with a maximum flue gas temperature of 550°F and ULC-S636-95 for gas vent - BH, Class I / Class II 245°C.

Vent sections shall be sealed with 1/2" banded flanges and silicone joint sealant for temperatures up to 600°F with a UL tested pressure rating of 40" w.c.

Inner shell material shall be type AL 29-4C® stainless steel. Inner shell thickness shall be .024" (24 ga.). All inner shell seams shall be full penetration welded. Riveted, tack or spot welded seams are not permitted.

Outer shell material shall be aluminized steel with a thickness of .034". Optional outer shell material can be 304 or 316 stainless steel.

All outer shell seams shall be full penetration welded the entire length of the pipe section. Riveted, tack or spot welded seams are not permitted.

Between the inner and outer shells there shall be a minimum 1" air gap. Stainless steel centering clips shall be welded to the outer shell to maintain the 1" spacing and ensure concentricity of the shells.

Breeching and vent sections, when installed according to manufacturer's instructions, shall comply with national safety standards and building codes. Stacks terminating above a roof must terminate as required by code or NFPA 211.

Vent sections exposed to atmospheric conditions shall be protected by a minimum of one base coat and one finish coat of heat resistant paint after installation. Outer shells of type 304 or 316 stainless steel need not be painted.

eVent™ SD LIFETIME WARRANTY

The Schebler Company warrants eVent™ SD model products installed in UL 1738 condensing applications against defects in material and workmanship for the entire duration the product is incorporated and used in its original installation when said product is properly installed per Schebler's design and current installation instructions or specifications, and is properly connected to a code compliant venting system for category IV appliances. This warranty is subject to all terms and conditions described in The Schebler Company's Standard Terms and Conditions of Sale.

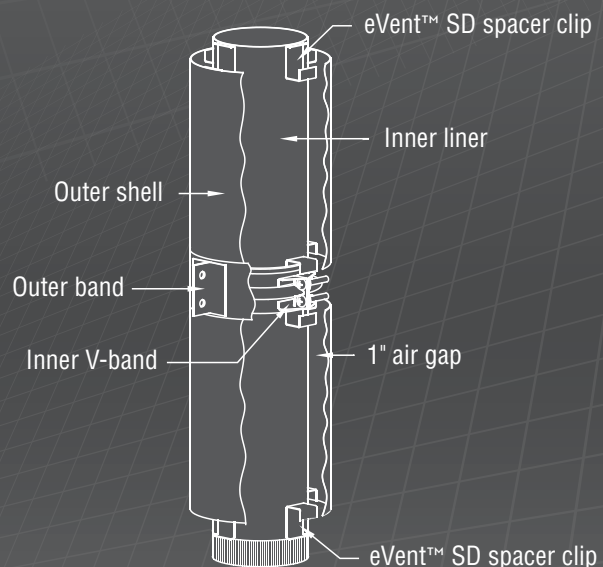
The Schebler Company will, at its sole discretion, either repair or replace any defective product covered by this Limited Warranty at no charge, provided however Buyer shall be responsible for all costs of removal, shipping, and reinstallation of the product. Furthermore, this warranty does not apply to any system component not manufactured by Schebler Company and installed as part of the UL system. Repair or replacement of products provided under this Limited Warranty are similarly warranted for the remainder of the original warranty term.

This limited warranty is extended solely to the original owner subject to the satisfaction of the following conditions:

- 1) System sizing and design has been performed by Schebler personnel and the design parameters provided to The Schebler Company by the responsible engineer were and are accurately representative of the system operating conditions.
- 2) The undamaged components have been correctly installed in accordance with Schebler system design and sizing, and installation instructions published by The Schebler Company.
- 3) All horizontal breeching in the system is properly pitched back toward the appliances to allow condensate to flow to, and be removed by, horizontal drains, drain sections, drain tee caps and/or base drain sections.

- 4) The Schebler Company has supplied the entire vent system from connection to the appliance to the termination of the vent.
- 5) Any portion of the system exposed to the atmosphere has an outer shell constructed of stainless steel.

The Schebler Company makes no other warranty, whether expressed or implied. This warranty shall be the sole and exclusive remedy of any Buyer, whether in contract, tort or otherwise. UNDER NO CIRCUMSTANCES SHALL THE SCHEBLER COMPANY BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE, OR COMMERCIAL LOSS OR FROM ANY OTHER LOSS OR DAMAGE EXCEPT AS SET FORTH HEREIN. The Schebler Company assumes no liability for any damages resulting in whole or part from misuse, improper installation, or inadequate maintenance of the system or component part thereof, nor assumes or authorizes any other person or entity to assume on its behalf any other liability in connection with the sale of its products.



P 800.391.0009 • 563.359.0110
5665 FENNO RD
BETTENDORF, IOWA 52722
WWW.SCHEBLERCHIMNEY.COM