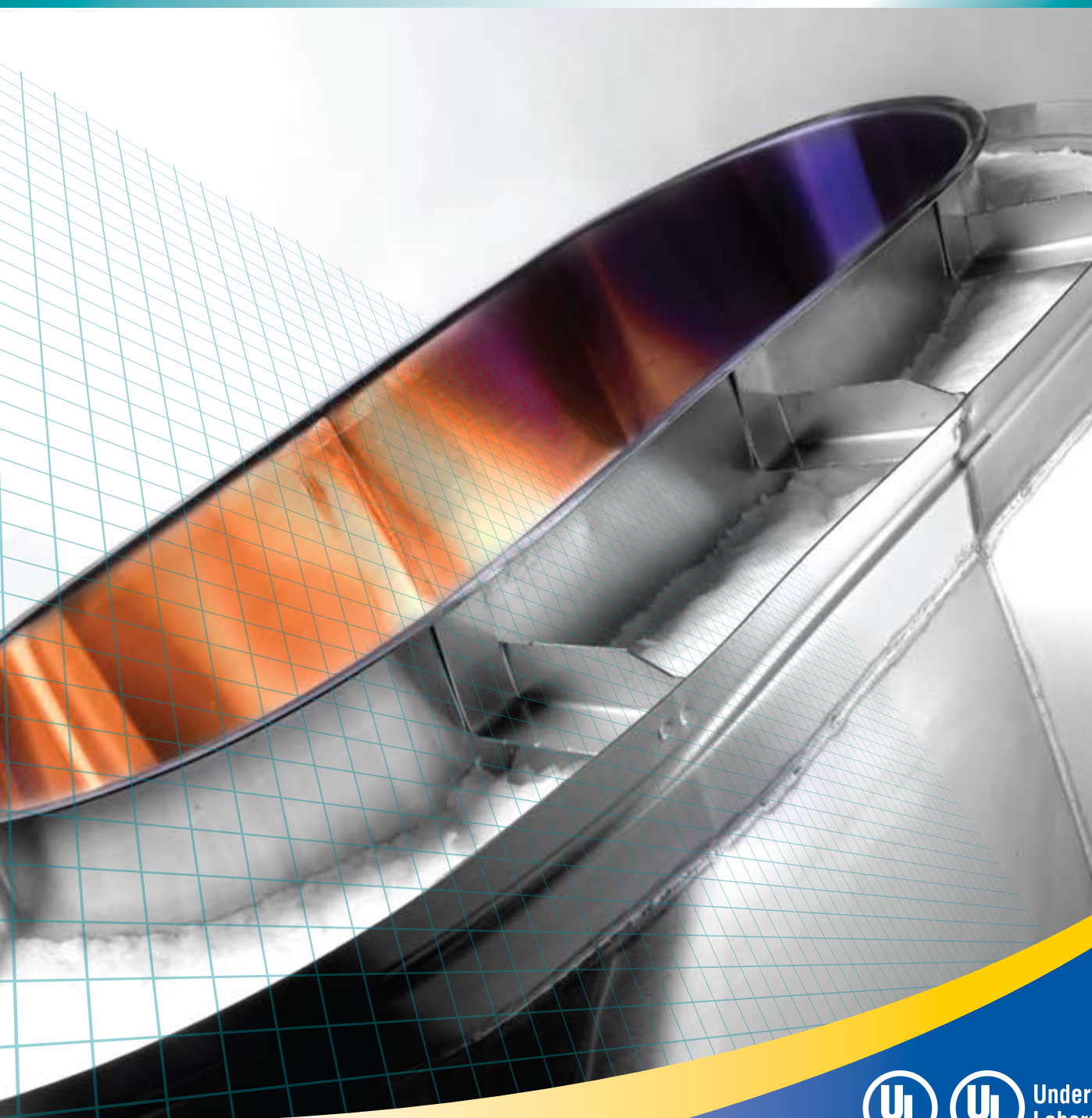




SlimVent™
OBROUND GREASE DUCT



Underwriters
Laboratories Inc.®
LISTED

SlimVent™ is a UL Classified zero-clearance grease duct system with the space saving profile of a field fabricated rectangular product.

SlimVent™ is a flat oval shaped grease duct that provides all the maximum fire protection of a factory fabricated round product, UL 2221 Classification, with the space savings previously only available with field-fabricated non UL Classified rectangular systems.

LISTING

The Schebler SlimVent™ grease duct system is Underwriters Laboratories Inc. UL 1978 Listed and UL 2221 Classified under file number R25748 and control number 41RE as a **zero clearance** to combustibles, 2-hour fire rated grease duct. It also has the Underwriters Laboratories mark for Canada (cUL).

SYSTEM CONCEPT

- Prefabricated, modular, double wall system
- **No field welding is required**
- 4-inch insulation (11 lbs per sq in.) zero clearance to combustibles
- Easy-to-handle section lengths
- Pressure-tight drawbands and high-temperature sealant

COMPLETE LINE OF FITTINGS AND SIZES AVAILABLE

- Even/odd diameters/equivalency from 9" – 38" UL 1978 Listed and 9" – 25" UL 2221 Classified (see chart on page 4)
- Standard components: straight sections, variable length sections, tees, elbows, clean outs, rain caps, roof penetration components, support members
- Special order components: virtually any custom fittings

MATERIALS AVAILABLE

- **Standard SlimVent™ systems feature:**
 - Inner liner:** 304 or 316 stainless steel
 - Outer shell:** Aluminized steel / 304 or 316 stainless steel
- **For greater corrosion resistance:**
316 stainless steel inner liner / 304 or 316 SS outer shell
- **For exteriors not easily accessible for periodic painting:**
Consider no-maintenance 304 SS outer shell

MATERIAL THICKNESS

- **Liners:** 20 gauge (.035")
- **Shells:** 22 gauge (.034") aluminized / 20 gauge SS

SUPPORT LIMITS

Support plates and wall supports are utilized to support the weight of the grease duct. In horizontal runs, supports should be placed adjacent to fittings that are not otherwise supported.

TESTS PERFORMED

The SlimVent™ system has endured rigorous tests by Underwriters Laboratories. Just a few of the test 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.
- **Fire Barrier** The system and fire stop have been subjected to temperatures up to 2000° to ensure structural integrity of the system and effectiveness of a fire stop in preventing fire passage to multiple floors of a building's structure.

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**

PART NUMBERS

All standard parts manufactured by Schebler are identified by a part number that describes their makeup and function. The part numbers are made up as follows:

1. The first series is the model designation, SV.
2. This is followed by the part name. For example, 47S, 90T and VS.
3. Next is the part's internal diameter in inches, such as 06, 12, 24.
4. Last is the liner/shell material designation.

UL 1978 Code	UL 2221 Code	Liner / Shell Material
I	A	304 / Aluminized
J	B	316 / Aluminized
K	C	304 / 304 or all 304
L	D	304 / 316
M	E	316 / 316 or all 316
F	F	Galvanized
G	G	Aluminized
H	H	Painted Carbon Steel
N	S	316 / 304

For example the part number for an 8" ID, Model SV, 47" long straight section with a 304 stainless steel liner and aluminized steel shell is: SV47S08A.

SEALANT

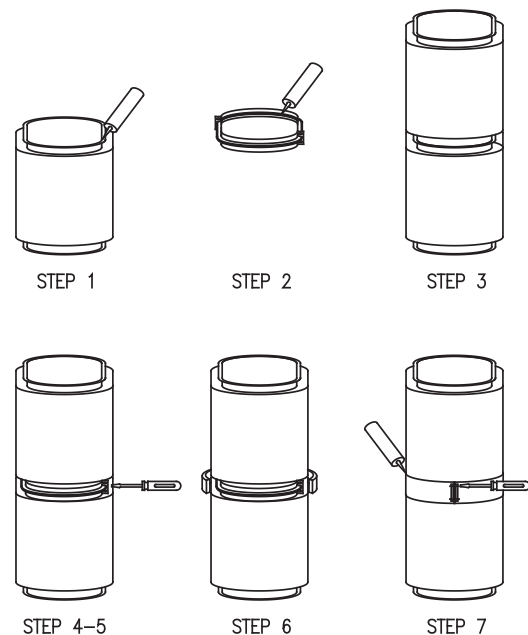
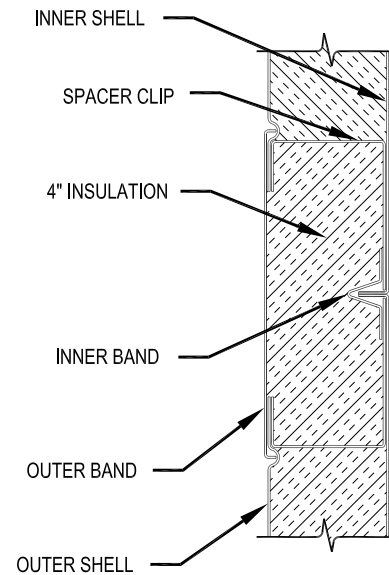
The S2000 is used for grease duct systems.



JOINT ASSEMBLY

Note: Wipe inner bands and flanges clean prior to assembly.

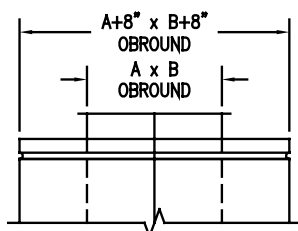
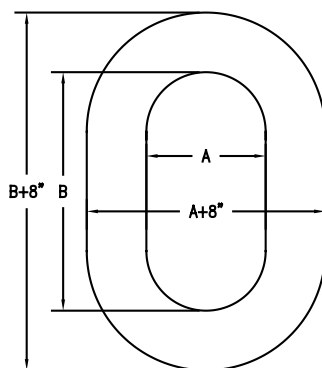
1. Apply continuous bead of S2000 sealant covering one of the 1/2" flange of the two parts being joined.
2. Fully fill the vee groove of the inner band with S2000 sealant.
3. Join the flanged ends of the two sections together.
4. Install the inner band around the flanges and tighten the screws.
5. Tap around the inner band with a rawhide mallet and retighten the screws to ensure a tight joint.
6. Install the provided insulation strips over the inner band.
7. Place the outer band over the space between the outer shells of the adjoining sections and tighten the screws.



OBROUND TO ROUND EQUIVALENCE

UL 1978 Listed		
Round Eq	A	B
9	8	10
10	8	12
11	8	14
12	8	16
13	8	18
14	8	20
14	8	22
15	8	24
15	10	20
16	10	22
17	10	24
17	10	26
18	10	28
18	12	24
19	10	30
19	12	26
20	12	28
20	12	30
21	12	32
22	12	34
23	14	36
23	14	32
24	14	34
24	14	36
25	14	38
26	14	40
26	14	42
26	16	36
27	16	38
27	16	40
28	16	42
29	16	44
29	16	46
30	16	48
30	18	44
31	18	46
32	18	48
33	18	50
33	18	52
33	20	48
34	18	54
34	20	50
35	20	52
36	20	54
36	20	56
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37	22	54
37	24	50
38	20	60
38	22	56
38	24	52

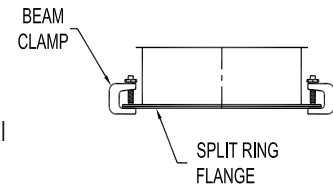
UL 2221 Classified		
Round Eq	A	B
9	8	10
10	8	12
11	8	14
12	8	16
13	8	18
14	8	20
14	8	22
15	8	24
15	10	20
16	10	22
17	10	24
17	10	26
18	10	28
18	12	24
19	10	30
19	12	26
20	12	28
20	12	30
21	12	32
22	12	34
23	14	36
23	14	32
24	14	34
24	14	36
25	14	38



ADAPTER KIT (FLANGED)

Part No. BKF

The Adapter Kit (Flanged) is used for securing pipe to a flanged appliance outlet. Beam clamps are provided for connection of the flanges, or the flange can be drilled in the field to match the appliance.

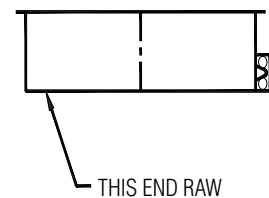


Includes 1 inner band and 1 seal ring to cover the gap between the inner and outer shells.

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. 18S, 29S AND 47S

Standard lengths are as follows: 18", 29" and 47"

Custom parts can be manufactured to any length over 8".

Includes 1 inner and 1 outer band.

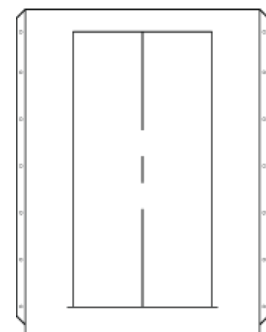
VARIABLE LENGTH SECTION

Part No. 18VS, 29VS, VS

The Variable Section adjusts to provide a fixed odd length between 2 sections. The minimum length is 5", the maximum is 18", 29" or 40". This part does not provide for thermal expansion.



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



90° GREASE TEE

Part No. 90GT

The 90° Grease Tee is used with an end cap to provide access into a grease duct system. A circular dam is provided to prevent grease from running out of the duct when the cap is removed.

Includes 2 inner bands and 2 outer bands.

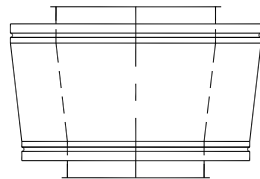
Note: When ordering, specify dam in main or in tap.

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.

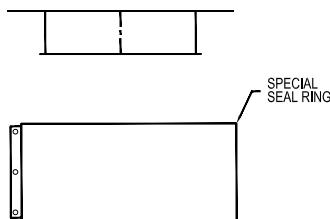


ABRUPT INCREASER

Part No. AI

The Abrupt Increaser is used to connect 2 sections of different diameters in a shorter space than a tapered increaser.

Includes 1 inner band of larger and smaller sizes and 1 seal ring.

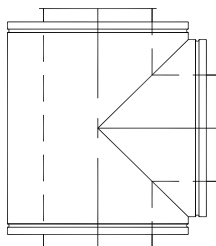


90° TEE

Part No. 90T

The 90° Tee is used to join horizontal and vertical sections, 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.



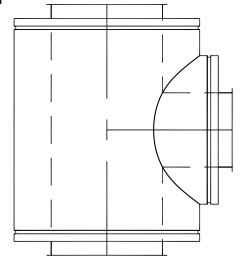
REDUCING 90° TEE

Part No. R90T

The Reducing 90° 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.

Note: Grease tees available 1 1/2" containment dam located at one opening.



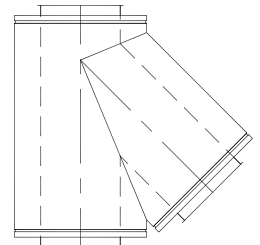
45° LATERAL TEE

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.

Note: Grease tees available 1 1/2" containment dam located at one opening.



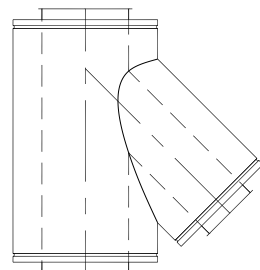
REDUCING 45° LATERAL TEE

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.

Note: Grease tees available 1 1/2" containment dam located at one opening.



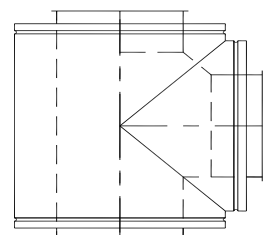
90° BOOT TEE

Part No. BT

The 90° 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.

Note: Grease tees available 1 1/2" containment dam located at one opening.



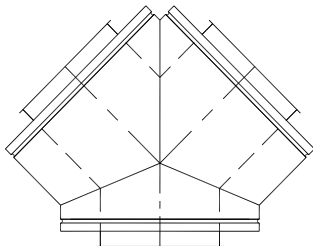
90° WYE

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.

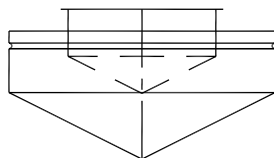
Note: Grease wye available 1 1/2" containment dam located at one opening.



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.

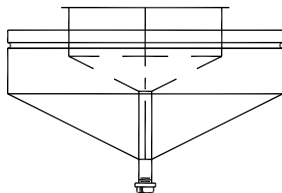


Includes 1 inner band.

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 chimney.

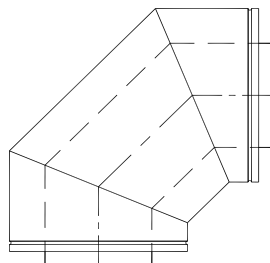


Includes 1 inner band.

90° ELBOW

Part No. 90L

The 90° Elbow is used when making a 90° directional change. The 90° elbow is available in sizes 6" through 24". For a 90° directional change in diameters from 26" through 38", use two 45° elbows.



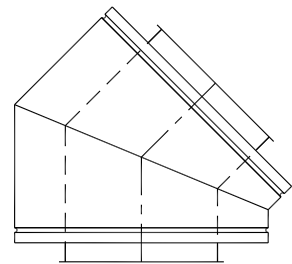
Includes 1 inner band and 1 outer band.

45° ELBOW

Part No. 45L

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

Includes 1 inner band and 1 outer band.

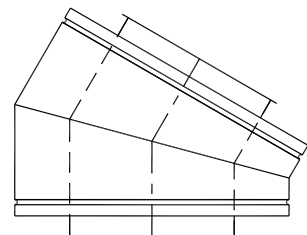


30° ELBOW

Part No. 30L

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

Includes 1 inner band and 1 outer band.

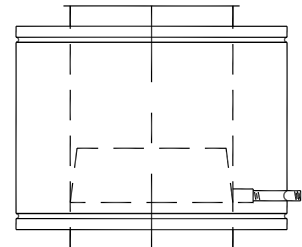


DRAIN SECTION

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 band and 1 outer band.

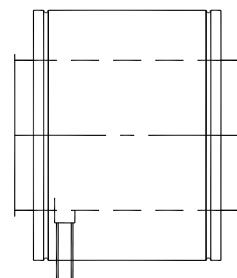


HORIZONTAL DRAIN

Part No. HD

The Horizontal Drain is used to attach grease traps and drain pipes to grease duct.

Includes 1 inner band and 1 outer band.

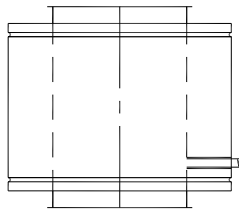


NOZZLE SECTION

Part No. NS

The Nozzle Section is used to attach plumbing equipment to grease ducts.

Includes 1 inner band and 1 outer band.

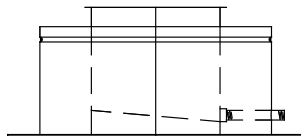


BASE DRAIN SECTION

Part No. BD

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

Includes 1 inner band and 1 outer band.



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.

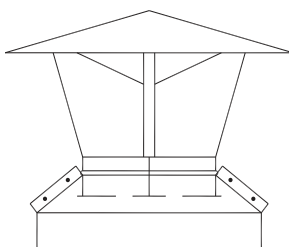


RAIN CAP

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 flue.

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



RAIN COLLAR

Part No. RC

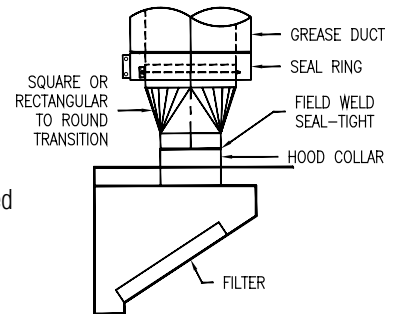
The Rain Collar is used in conjunction with the flashing to seal roof penetrations.



HOOD TRANSITIONS

The transitions between the grease hood or listed ventilator and the Schebler grease duct is made using a transition constructed of 20 gauge or heavier stainless steel. This transition should be field seal welded to the hood and to the hood adaptor kit (BKF). The adaptor kit is typically supplied with 1/2" flanges at each end. If required one of the flanges can be deleted so that a field weld can be made more conventionally.

If the transition is supplied by the Schebler Company, the transition will be factory welded to the BKF. Therefore, a field weld is only required between the transition and the hood.

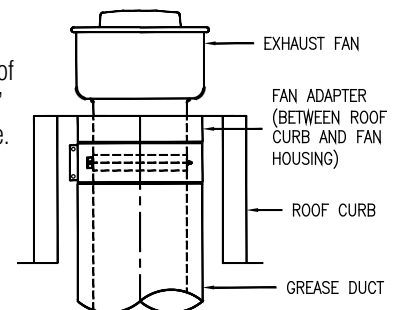


ROOF TERMINATIONS

The grease duct shall terminate with a minimum of 10 ft. (3.048m) of clearance from the outlet to adjacent buildings, property lines and air intakes. Where space limitations absolutely prevent a 10 ft. (3.048m) horizontal separation from an air intake, a vertical separation will be acceptable with the exhaust outlet being a minimum of 3 ft. (.93m) above any air intake located within 10 ft. (3.048m) horizontally.

The exhaust shall be directed up and away from the surface of the roof and a minimum of 40" (1.02m) above the roof surface.

Schebler offers a fan adaptor (FA) that can be used for connecting flue to a curb mounted rooftop fan.

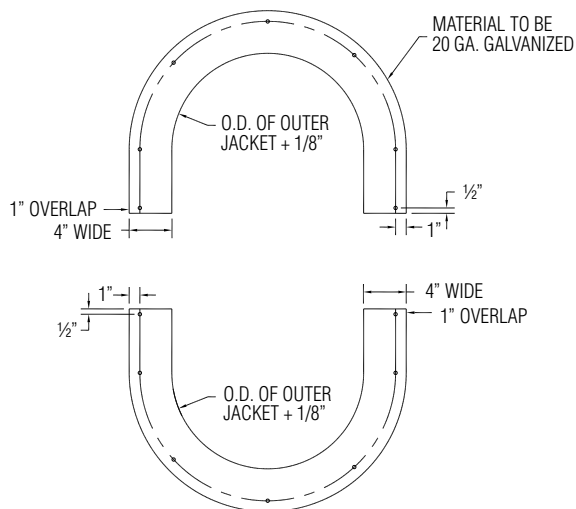


FIRESTOP

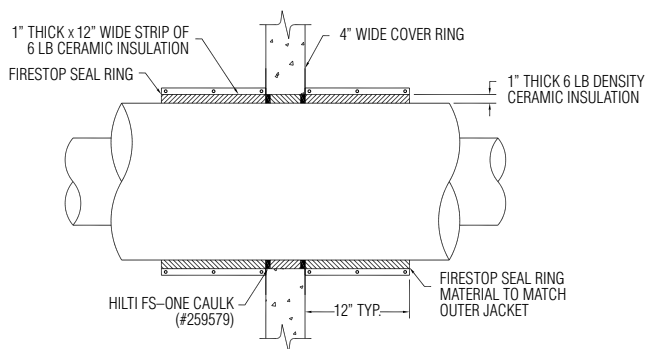
Part No. FS

The Firestop is used when penetrating through a fire rated floor or wall.

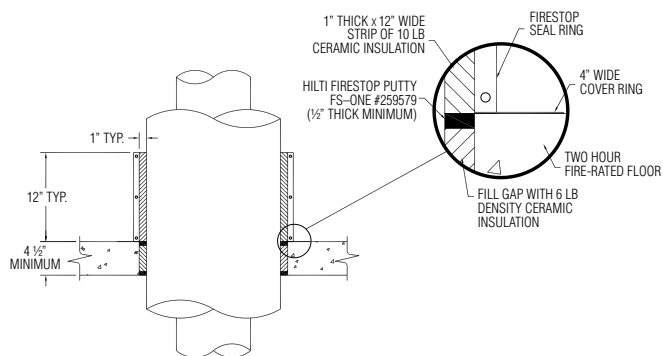
Includes 1 closure seal ring, 2 cover ring halves, 1 - 12" wide insulation strip, 1 - 4" wide insulation strip and Hilti Firestop Putty.



COVER RING



WALL PENETRATION



FLOOR PENETRATION

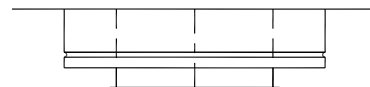
FAN ADAPTER

Part No. FA

The Fan Adapter is used to attach grease duct to an exhaust fan or kitchen hood.

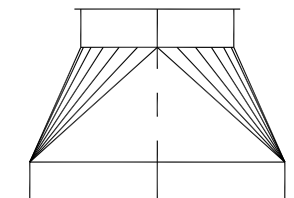
Includes 1 inner band and 1 outer band.

Note: Plenum boxes available for multiple fan systems.



SQUARE-TO-ROUND TRANSITIONS

The Square-to-Round Transitions are used when connecting to appliances with square or rectangular outlets. The base can be raw for field welding or flanged for field drilling and bolting.



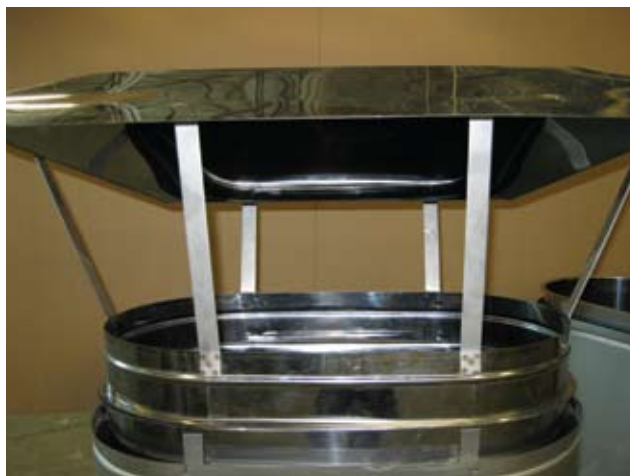
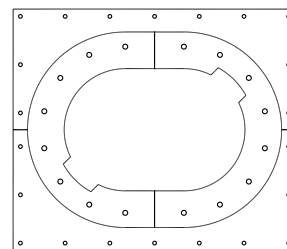
SUPPORT PLATE

Part No. SP

The Support Plate is the primary load-carrying member of the chimney assembly. This part is designed to support vertical chimney sections as well as provide fixed points in breeching runs.

Includes 2 half bands.

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





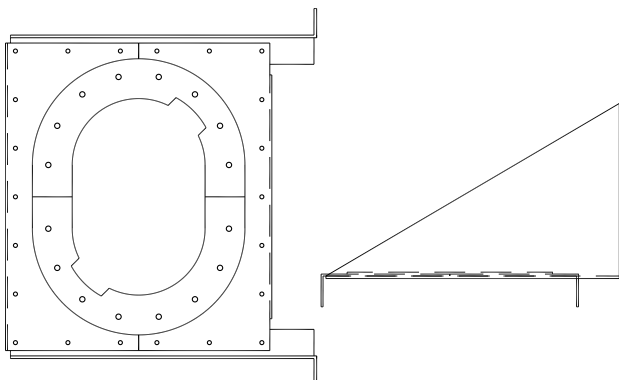
WALL SUPPORT

Part No. WS

The Wall Support is used to provide chimney support along a wall. The wall support will maintain the required clearance to combustible structures when properly installed and can support vertical chimney sections.

Includes 2 half bands.

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



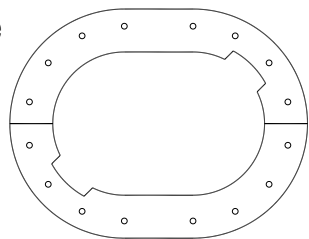
GUY SECTION

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 2 half bands.

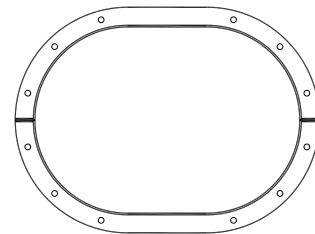
Note: This part must be placed at the connection of two flue sections.



FULL RING

Part No. FR

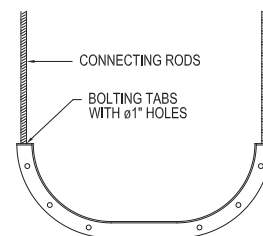
The Full Ring is used to guide horizontal and vertical runs. The part is simply bolted around the outer shell then rigidly connected to the building structure.



HALF RING

Part No. HR

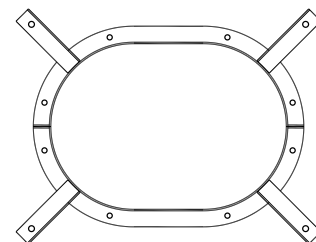
The Half Ring has the same dimensions as the full ring. This half ring is used to support long horizontal runs. This part would be placed under the flue and then supported by rods connecting to the building structure.



FLOOR/ROOF GUIDE

Part No. FRG

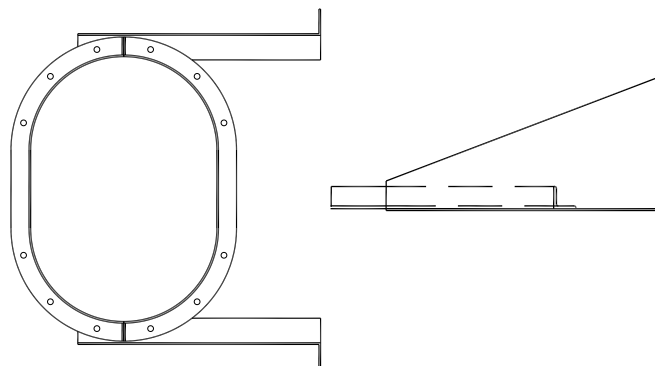
The Floor/Roof Guide is used at the penetration of floors and roofs to guide the chimney. This part is designed to absorb lateral loads only. It will not support vertical chimney sections.



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.



SAMPLE SPECIFICATION SLIMVENT™ UL 1978

The factory-built modular duct shall be laboratory tested and listed in accordance with Underwriters Laboratories Standard UL 1978 for grease duct. Sections shall bear the UL listing mark and the cUL listing mark for Canada. The product profile shall be a flat oval shape to allow overhead and sidewall clearance when installed. Joint sections shall be a 1/2" flange to flange connection sealed with banded flanges and joint sealant.

Inner shell material shall be type 304 or 316 stainless steel. Inner shell thickness shall be .035". All inner shell seams shall be fully penetration welded the entire length of the pipe section. Riveted, tack or spot welded seams are not permitted. Outer shell material shall be aluminized steel with a thickness of .034". (Outer shell optional type 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 4" of low conductivity ceramic fiber insulation. The insulation is to be securely attached to the inner shell with steel straps and insulating pins welded to the inner shell. Stainless steel centering clips shall be welded to the outer shell to maintain the 4" spacing and ensure concentricity of the shells.

Grease duct sections, when installed according to manufacturer's instructions, shall comply with national safety standards and building codes. Duct that terminates above a roof must terminate as required by code or NFPA 211. Grease duct 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.

SAMPLE SPECIFICATION SLIMVENT™ UL 2221

The factory-built modular grease duct shall be laboratory tested and listed in accordance with Underwriters Laboratories Standard UL 2221 classified for zero clearance to combustibles with a 2-hour fire rating. Sections shall bear the UL listing mark and the cUL listing mark for Canada. The product profile shall be a flat oval shape to allow overhead and sidewall clearance when installed. Joint sections shall be a 1/2" flange to flange connection sealed with banded flanges and joint sealant.

Inner shell material shall be type 304 or 316 stainless steel. Inner shell thickness shall be .035". All inner shell seams shall be fully penetration welded the entire length of the pipe section. Riveted, tack or spot welded seams are not permitted. Outer shell material shall be aluminized steel with a thickness of .034". (Outer shell optional type 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 4" of low conductivity ceramic fiber insulation. The insulation is to be securely attached to the inner shell with steel straps and insulating pins welded to the inner shell. Stainless steel centering clips shall be welded to the outer shell to maintain the 4" spacing and ensure concentricity of the shells.

Grease duct sections, when installed according to manufacturer's instructions, shall comply with national safety standards and building codes. Duct that terminates above a roof must terminate as required by code or NFPA 211. Grease duct 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.

LIMITED LIFETIME WARRANTY GREASE DUCT APPLICATIONS

The Schebler Company warrants its SW, P-Series, SlimVent™ and FyreGuard™ model products installed in UL grease duct 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 commercial kitchen ventilation system for cooking appliances. This warranty is subject to all terms and conditions described in The Schebler Company's Standard Terms and Conditions of Sale.

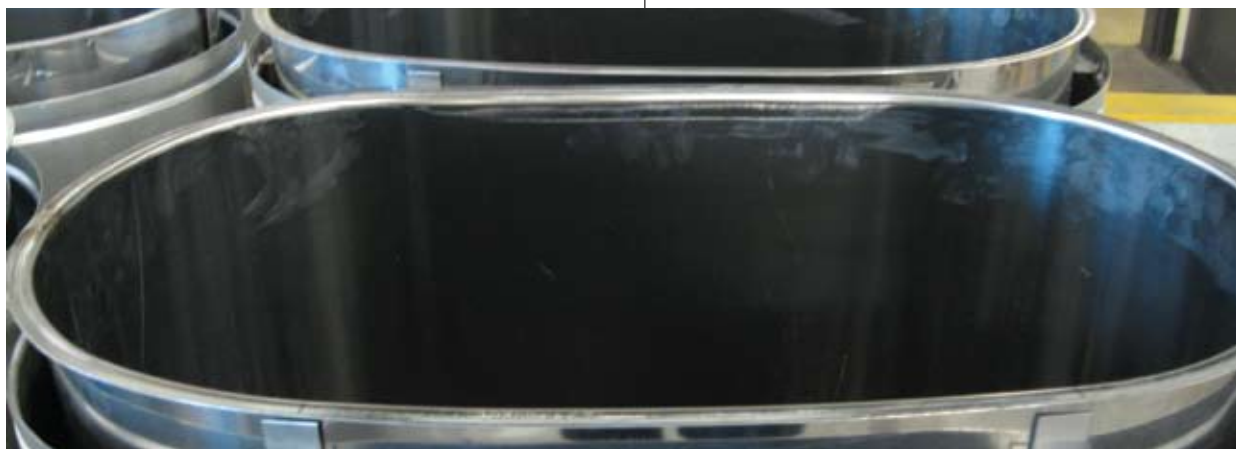
The Schebler Company will, at its sole discretion, either repair or replace any defective product covered by this Limited Warranty at no charge, provided however Buyer shall be responsible for all costs of removal, shipping, and reinstallation of the product. Furthermore, this warranty does not apply 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) Proper precautions were taken to not damage grease duct during cleaning of system, including improper solvents or chemicals which may also cause damage.
- 4) The Schebler Company has supplied the entire grease duct system from connection to the commercial cooking appliance to the termination of grease duct.
- 5) Prior to start-up and thereafter, exposed aluminized steel surfaces were protected with a minimum of one base coat of primer and one finish of heat resistant paint at all times.

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.



SLIMVENT™ OBROUND GREASE DUCT

... FROM THE
SCHEBLER FAMILY.

New SlimVent™ obround grease duct's unique, space-saving profile make it ideal for tight-clearances in grease duct applications. It is a safe UL listed alternative to field fabricated rectangular product where round product just will not work.

All Schebler prefabricated systems and engineered stacks are known by the value they provide through unmatched dimensional accuracy, detailed draft calculations and the industry's fastest lead-times. These translate into fast project completion, lowered installation costs and satisfied customers.

WE'RE ALL ABOUT METAL.

Outstanding chimney systems aren't all that Schebler manufactures. From complex parts formed with repeatable precision by our Specialty Fab division ... to indoor air quality systems designed and installed by our Heating & Air (HVAC) group ... to cooling tunnels, coating systems and conveyors innovated by our Food Equipment specialists ... we know how to make metal perform.

Contact us or visit our Web site today for more information on chimney products and applications. We look forward to responding with an individualized solution.



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