

Single Wall Grease Duct - Rectangular

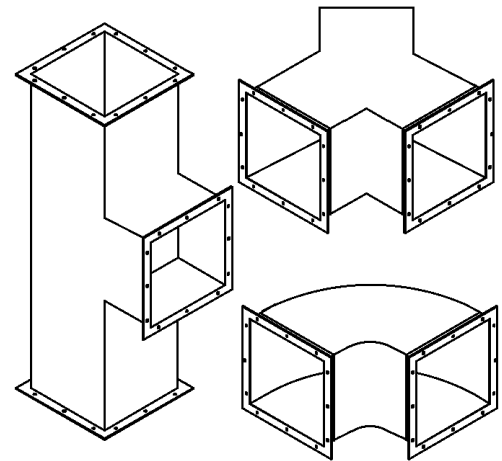
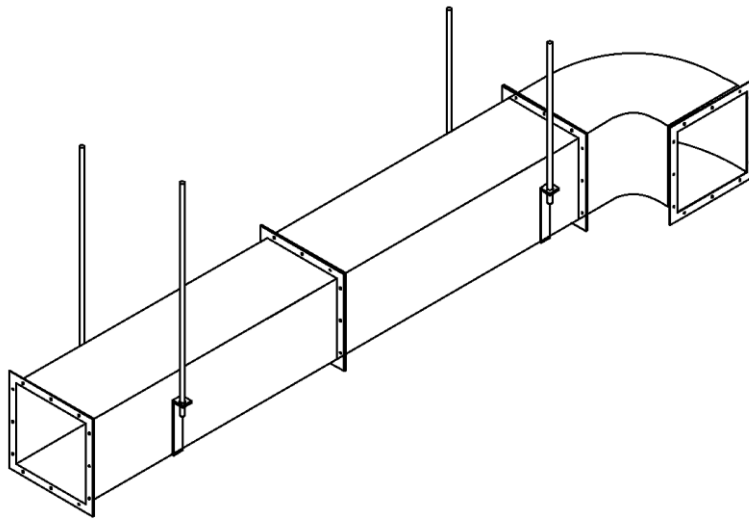
Model SWGD-R

- Rectangular Grease Duct
- Factory Built
- Single-Wall

Tested to:

- UL1978/ULCS662

Installation Instructions



IMPORTANT

DO NOT INSTALL THESE PRODUCTS UNTIL YOU HAVE READ AND FULLY UNDERSTAND THESE INSTRUCTIONS. FAILURE TO COMPLY WITH THESE INSTRUCTIONS WILL RESULT IN AN IMPROPER INSTALLATION AND WILL VOID THE WARRANTY.

- Examine all components for possible shipping damage prior to installation
- Proper joint assembly is essential for a safe installation – follow these instructions exactly as written and check severeness of joints upon completion of assembly
- This venting system must be free to expand and contract, and must be supported in accordance with these instructions
- Check for unrestricted vent movement through walls, ceilings, and roof penetrations
- Different manufacturers have different joint systems and adhesives – do not mix pipe, fittings, or joining methods from different manufacturers

Keep these instructions for future reference.

For Technical Support or more product information please contact us at 678-388-2740 or visit our website at www.jeremiasinc.com

<u>Pg.</u>	<u>Description</u>	<u>Pg.</u>	<u>Description</u>
3	SECTION 1 – GENERAL INFORMATION	13	SECTION 4 – THIMBLES, PENETRATIONS, FIRESTOP
3	Important Notice	13	Finishing Plate (FPL)
3	Introduction	13	Flashing (FLS)
3	Listings / Codes & Authorities	13	Counter Flashing (CFL)
3	Installation Considerations	14	SECTION 5 – FINISHING, INSPECTION & MAINT.
3	Mixing Systems & Parts	14	Final Check
3	Suggested Tools, Equipment & Hardware	14	Important Notice
4	Safety Notice	14	Maintenance
4	Duct Size & Slope	14	SECTION 6 – SAMPLE SYSTEM
4	Cleanouts, Drains & Grease Traps	14	Sample System
4	Wash down & Fire Suppression	15	WARRANTY
4	Receiving Inspection		
4	Typical Component Locations		
4	Freight Damage		
4	Part Identification & Product Code Key		
5	Clearances & Additional Enclosures		
6	Joint Assembly		
7	SECTION 2 – SUPPORT & GUIDING		
7	Duct Weight		
7	Vertical Support Spacing & Limits		
8	Lateral Guide Spacing		
8	Horizontal Support Spacing		
8	Full Angle Support (FAS)		
8	Guy Attachment Plate (GAP)		
9	Plate Support Assembly (PLS)		
10	Full Support Assembly (FSA)		
10	Wall Brackets (WBR)		
11	SECTION 3 – DUCT SECTIONS & FITTINGS		
11	Duct Sections		
11	Straight Sections (STR)		
11	Elbow (E)		
11	Tee (90T)		
11	Wye Tee (WYE)		
12	Fan/Hood Adapter Assembly (FAA)		
12	Access Panel Section (APS)		
12	Open Top Closure (OTC)		
12	Rain Cap (RCS)		
12	Increasesers & Reducers		
12	Single & Single-Wall Adapters		
12	Transition to Round Start & End		

SECTION 1 – GENERAL INFORMATION

IMPORTANT:

These instructions must be followed in all details. Failure to do so may result in a hazardous installation. Contact Jeremias Inc. if there are any questions regarding these instructions.

Introduction

Model SWGD-R grease ducts are suitable for the removal of smoke and grease laden vapors from commercial, industrial, institutional, and similar cooking applications where continuous operating temperatures are 500° F (260° C) or less and for intermittent temperatures not exceeding 2000° F (1093° C). Model SWGD-R grease ducts are intended to be part of a complete grease duct system which connects the hood or grease extractor with the outdoors by means of an exhaustor or blower system.

Listings

Jeremias Model SWGD-R has been tested in accordance with the procedures and methods set forth by UL 1978/ULC S662 (Standard for Grease Ducts/Standard for Factory-Build Grease Ducts).

Jeremias Model SWGD-R is listed by UL as “18 inch clearance to combustibles grease duct assembly” and as “Grease Ducts for Restaurant Cooking Appliances” when installed in accordance with these instructions and the National Fire Protection Association’s standard NFPA 96 “Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations,” International Mechanical Code, Uniform Mechanical Code, or other local codes.

Model SWGD-R has been tested in accordance with the procedures and methods set forth by:

- UL 1978/ULC S662 (Standard for Grease Ducts/Standard for Factory-Build Grease Ducts),

Codes & Authorities

Installation must be made in accordance with local and national code requirements. Follow these instructions carefully and contact local building and fire officials about restrictions and installation inspection in your area. Refer to NFPA 96 (Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations) and additional NFPA standards as required.

Installation Considerations

Follow Jeremias’s written installation instructions carefully. Each part of the grease duct system must be installed correctly. Improper or lack of installation of required parts may result in the improper function of the grease duct system.

The grease duct layout should be carefully planned to allow adequate space for assembly, installation of supports, connection of support framing, access for cleanouts, accommodate standard fitting dimensions, rough openings for penetrations, etc. Do not assume all equipment producing smoke or grease laden vapors within a facility can be exhausted with a single grease duct system. Consult a grease duct design professional as required.

One prime coat and finish coat of appropriate heat resistant paint is recommended on exposed installations which are subject to routine cleaning (e.g. kitchen area) and wherever exposed to the weather when the outer shell of components or accessories is constructed from aluminized steel.

Mixing Systems & Parts

Do not connect a grease duct system with any other building ventilation or exhaust system. Do not connect parts from other grease duct manufacturers with Model SWGD-R components without the expressed consent of Jeremias.

SWGD-R systems are intended to be installed as a complete system without the use of other manufacturer or field fabricated components. However, Jeremias recognizes the occasional requirement for a where systems must be mixed duct due to space constraints at certain locations in a system, or when making modifications or additions to an existing grease duct. In such a case, it is permissible to transition to and from Model SWGD-R Grease Duct to other Jeremias product lines, (for example Model DWFL), a code compliant, rectangular or round, welded steel grease duct and back again as long as: clearances, limitations, codes, etc. are followed. In such a case, Jeremias will manufacture and supply a custom single wall stainless steel transition, meeting code thickness requirements, that permits field welding to or from the field welded duct section(s). Maintain the minimum air space to combustibles of 18” with these custom transitions. Follow NFPA-96 regarding methods for reduced clearances for these single wall custom transitions as well as the field fabricated grease ducts.

Suggested Tools, Equipment & Hardware

Reciprocating & Keyhole Saws	Drill	Plumb Bob, Level & Tape Measure	#3 Phillips Screw Driver
Metal Snips	Hammer	Caulk Gun	5/16” Nut Driver
Screwdrivers	Safety Glasses & Gloves	Ladder	Roofing Nails
High Temp Sealant	8-penny nails	#8 1-1/2” x 2-1/2” screws	Framing Square
Anti-Seize for all Stainless-Steel fasteners			

Safety Notice

Product has sharp edges. Use extreme caution while working with product. Always wear proper personal protection equipment (gloves, safety glasses, sleeves, etc.) while working with product.

Duct Size & Slope

Mechanical codes and good practice require that slope (back to a grease reservoir or kitchen hood) be created to prevent pooling of grease within horizontal portions of grease duct systems. Model SWGD-R grease ducts must be installed accordingly to comply with the requirements as described in order to maintain a listed installation. Model SWGD-R grease ducts should be installed at a slope not less than 1/8" vertical rise in 12" horizontal run toward the hood or toward a grease reservoir. Where horizontal ducts exceed 75 feet in length, the slope shall be not less than 1/4" vertical rise in 12" horizontal run. Most Model SWGD-R components will permit a small amount of slope as the system is being installed. However, some installations may require elbow / transition type pieces to allow for proper orientation of fittings at the vertical risers prior to and after long horizontal runs. It is also acceptable for ducts to have staggered sloped (e.g., uphill to a peak point, then downhill to a valley point), the distance between a valley point and peak point must follow the limitations above and every valley must allow for grease drainage (i.e., a hood or reservoir). Contact Jeremias for additional information.

Slope	
Horizontal Length	Vertical Rise / Horizontal Run
Less than 75'	1/8" per 1 Foot (0.6° slope)
Greater than 75'	1/4" per 1 Foot (1.2° slope)

Cleanouts, Drains, & Grease Traps

Many Model SWGD-R sections, accessories, and combinations can be used for cleanout and inspection access of the grease duct system. Access panel sections, 90° tee sections with end caps, and many other combinations of components can serve as cleanout doors or openings as described by NFPA 96. Grease ducts must be provided with adequate cleanout doors or openings to allow for the inspection and cleaning of the entire grease duct system. Refer to NFPA 96 for specific requirements.

Cleanout, drain, and grease trap requirements may change when grease duct systems are equipped with automatic cleaning and / or some types of fire suppression equipment. Refer to NFPA 96 and additional codes / authorities having jurisdiction for specific duct system requirements.

Wash Down & Fire Suppression

Automatic hot water / detergent wash down and fire suppression systems can be integrated into a Model SWGD-R grease duct system by using various components which are readily available (or by request sections can be factory fit) with threaded pipe nipples, couplings, etc.

Receiving Inspection

Compare the packing list items and quantities with the contents of the containers to ensure completeness of the shipment. If the shipment is missing components, please contact Jeremias customer service department at (678)388-2740.

Typical Component Locations

Straight sections, fittings, etc. will be positioned and stacked accordingly to fill the shipping container. Sections of smaller dimensions may be slipped into sections of larger dimensions. Bags of fasteners, sealant, etc. may also be located inside the liner of the various pieces.

Freight Damage

Inspect each box as it is unloaded from the carrier for damage which may have occurred during transit. Should there be any damaged components, the delivery receipt must be signed damaged in order for Jeremias to file a claim with the carrier. If the delivery receipt is signed damaged contact Jeremias immediately. If there are damaged parts and the delivery receipt is not signed damaged, Jeremias or the carrier will not be liable, and damaged parts will be replaced at the customer's expense.

Part Identification & Product Codes Key

Each part manufactured by Jeremias is identified with a product code. The product code contains the Model, Vent size, Part ID, and Other information. Part numbers will typically have the letter "SWGD" prefix, followed by the duct size inside dimension (I.D.), then the part description code, next a special option code(s) and last the liner/shell designation. Part description codes are generally three characters and are either alpha or alpha numeric. Qualifier codes are most often used to designate section lengths, tee projection dimensions, and the large I.D. end of increasers. The following are a couple examples of part numbers with their associated description and part number breakdown.

Example: SWGD12X10E45C-R

Refers to a Model SWGD, 12"X10" I.D., 45 Degree elbow constructed with a 430 S.S. rectangular duct

Note: 430ss is standard liner materials types. Other material types and/or material thicknesses are available. Consult Jeremias for availability.

Product Code Key:

Family	Model	HEIGHT x WIDTH	Part ID	Option	Liner Material	Outer Material	Variant
DW	GD	12x10	E	45	A	L	-R
SW=Single Wall	GD=Grease Duct		STR = Straight Section		A = 304 SS	A=304 S.S.	-R = Rectangular
DW=Single Wall			APS = Access Panel Section		B = 316 SS	B=316 S.S.	-RZ = Rectangular ZeroClearance
			DDS = Duct Drain Section	30=30" long	C = 430 SS	C=430 S.S.	
			E = Elbow	45 Degree		L=Alz. Steel	
			90T = 90° Tee				
			45T= 45° Tee				
			WYE = 90° WYE Section				
			C/D = End Cap with Drain				
			CAP = End Cap				
			FAP = Fan Adapter Plate	*x* Plate Size			
			PLS = Plate Support Assembly				
			FAS = Full Angle Support				
			WBR = Wall Bracket				
			FPL = Finishing Plate				
			FPA = Floor Penetration Assy.				
			WPA = Wall Penetration Assy.				
			FLS = Flashing				
			CFL = Counter Flashing				
			GAP = Guy Attachment Plate				

Clearances & Additional Enclosures

SWGD-R requires 18 inch airspace clearance to combustibles.

The clearance to non-combustible materials is zero (0) inches. See Table 1-1.

Follow NFPA-96 regarding methods of reduced clearances & termination requirements for Grease Duct and/or kitchen exhaust duct systems.

Not to be completely enclosed non-ventilated combustible enclosure

WARNING: Code compliant clearances must be followed where any uninsulated components that are in direct contact with the liner. Examples of this would be support assemblies, drain pipes, or any other similar items. Do not install these items near combustible material.

Table 1-1 - Clearance to Combustibles – Grease Duct

Model:	SWGD-R	
Application:	Grease Duct UL1978	
Shape/Size	Minimum Airspace Clearance to combustibles	Clearance to Non-Combustibles
Square 6"x6" to 36"x36"	18" (457 mm)	0"
Rectangular 6"x8" to 27"x48" (Max Height / Width ratio is 6:1. E.g, 6"x36")	18" (457 mm)	0"

Framing Dimensions through Wall or Ceiling

Where the vent passes through the wall or ceiling, refer to section 4.

Joint Assembly

According to NFPA 96, all grease ducts are to be liquid tight. The following steps are to be used to ensure this requirement is met.

Use high temperature silicone sealant, Jeremias part number 101087A. **WARNING:** Do not substitute any type of water soluble sealants in the flange area.

To Install:

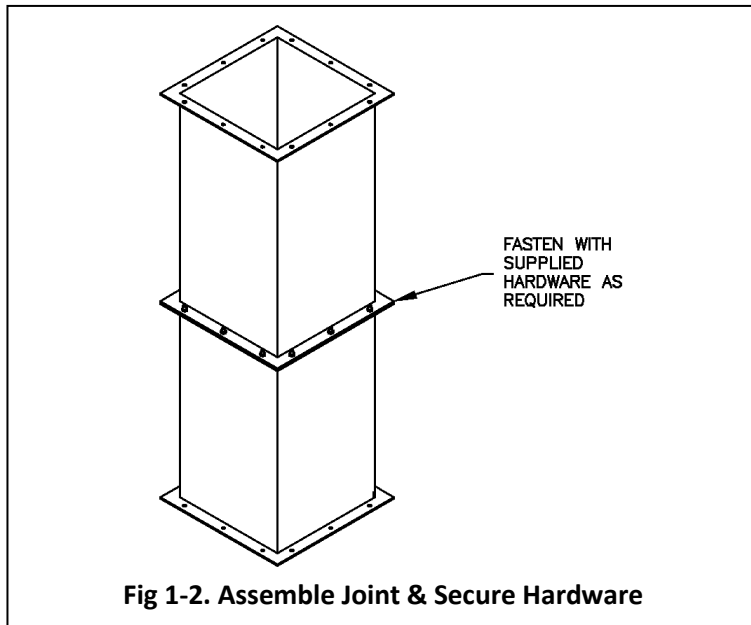
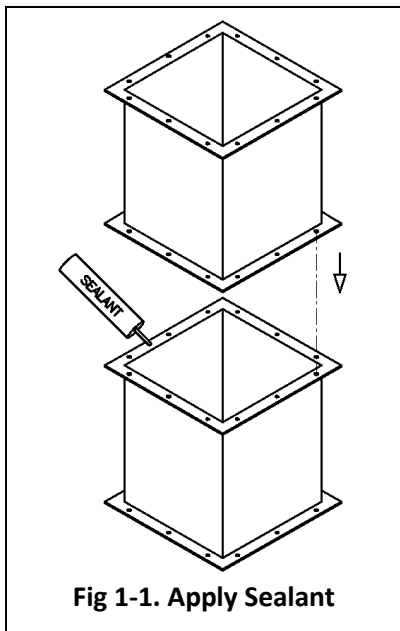
1. Inspect all liner flanges, and draw bands and straighten any mild deformations that may have occurred during shipping.
2. To ensure sealant adhesion, degrease and remove any dirt and debris from the liner flanges. Use an acetone based cleaner sprayed on a rag.
3. Apply a continuous bead of sealant (1/8" to 1/4") to one or both of the liner flanges to be joined. See Table 1-2 for Sealant usage.
4. Butt the flanged ends of the sections being joined, being careful not to smear off the sealant.
 - a. Install all supplied bolts/nuts finger tight. After all bolt/nuts are installed on a joint snug them up. After everything is snug finish tightening all bolts to an approx. torque of 4 ft-lb, per bolt manufactures recommended bolt torque.
 - b. Remove / wipe smooth any excess sealant on the inside of the assembled duct.
 - c. Allow sealant to cure 72 hours before use. Sealant will not bond to flanges if moisture is introduced into system before sealant has cured.

Model SWGD-R	
Duct Size (Area)	# of Joints per Tube
6"x6" (36 in ²)	20
6"x12" (72 in ²)	13
6"x18" (108 in ²)	10
6"x24" (144 in ²)	8
6"x36" (216 in ²)	6
12"x24" (288 in ²)	5
12"x36" (432 in ²)	5
18"x36" (648 in ²)	4
24"x36" (864 in ²)	4
32"x34" (1088 in ²)	3
36"x36" (1296 in ²)	3

Table 1-2. Sealant Usage Chart

FASTENERS

The fasteners provided with the flange are standard 1/4"-20 hex bolts and nuts.



SECTION 2 – SUPPORT & GUIDING

NOTES: The structural engineer for the project should select support member channels, beams, rods, wires/cables, etc. and joining methods in accordance with Good Engineering Practices to suite each specific application. Rods, wires/cables should only be used for hangers, NOT supports. Jeremias accepts no responsibility for the design and/or modification of buildings or structures to accept the given load. All support framing, anchoring methods, etc. are by others.

Duct Weight

The approximate installed weight of SWGD-R duct systems can be found using Table 2-1. This table does not include accessories such as supports and guides, fittings nor shipping packaging or palletizing weight (See Table 2-1).

Vertical Support Spacing and Limits

SWGD-R Duct vent must be supported properly. Several support options are available. Refer to Table 2-1 for Weight of Duct and Table 2-2 to calculate the total amount of product each support can provide. For all support options, ensure non-combustible hanger straps (or similar) are secured into joists or other solid structures. Ensure all minimum clearances to combustibles are maintained. Never drill or screw through the duct system. Additional support must always be located at an elbow or offset to prevent unacceptable stress on that fitting.

Model SWGD-R	
Duct Size (Area)	Lbs. per foot
6"x6" (36 in ²)	8
6"x12" (72 in ²)	12
6"x18" (108 in ²)	16
6"x24" (144 in ²)	19
6"x36" (216 in ²)	27
12"x24" (288 in ²)	23
12"x36" (432 in ²)	31
18"x36" (648 in ²)	35
24"x36" (864 in ²)	39
32"x34" (1088 in ²)	44
36"x36" (1296 in ²)	46
48"x48" (2304 in ²)	61

Table 2-1. Duct Weight

Table 2-2 – Maximum Support Load

Model SWGD-R	
Item	Max Load (LBS)
Plate Support Assembly (PLS)	2,400 Lbs.
Flange Support Assembly (FSA)	3,400 Lbs.
Wall Brackets (WBR) 4" to 32"	1,300 Lbs.
Wall Brackets (WBR) 34"	1,255 Lbs.
Wall Brackets (WBR) 36"	1,180 Lbs.
Wall Brackets (WBR) 38"	1,147 Lbs.
Wall Brackets (WBR) 40"	1,101 Lbs.
Wall Brackets (WBR) 42"	1,022 Lbs.
Wall Brackets (WBR) 44"	977 Lbs.
Wall Brackets (WBR) 46"	906 Lbs.
Wall Brackets (WBR) 48"	894 Lbs.

Table 2-2. Maximum Support Load

Lateral Guide Spacing

SWGD-R systems require guides to maintain proper alignment of the system and lateral support for wind loads. Refer to Table 2-3 & Fig. 2-1 (Dim B) for Lateral Guide Spacing.

Horizontal Support Spacing

Horizontal installations require guides to maintain proper alignment of the system and lateral support for wind loads. Horizontal supports are used in conjunction with rods or other field fabricated support members attached to the building or structure. Please note max. spacing of 14 foot making sure to stay within the weight limitation. Refer to Table 2-3 and Fig 2-2.

Table 2-3 – Maximum Lateral / Horizontal Spacing Between Supports

Size	Maximum Lateral Guide Spacing	Maximum Horizontal Support Spacing
All Sizes	30'	14'

Full Angle Support – (FAS)

Full angle supports, in conjunction with field fabricated support members from the FAS attached to the building or structure, are intended to laterally brace the vertical assembled duct lengths from wind loads and to also maintain alignment as the duct expands and contracts. The FAS is comprised of (2) halves and when bolted together is a slight clearance fit to the duct. Position the FAS away from draw bands & covers as to allow for the unrestricted expansion and contraction of the duct system. FAS's cannot be installed over draw bands. See Fig 2-1 & 2-2.

Guy Attachment Plate – (GAP)

Guy attachment plate, in conjunction with wires, tensioners, anchors, and other miscellaneous hardware from the GAP attached to the building structure, are intended to laterally brace the vertical assembled duct lengths from wind loads and to also maintain alignment as the duct expands and contracts. See Fig 2-3.

To Install:

1. Connect duct sections per the standard Joint Assembly instructions in section 1.
2. Install the necessary wires, tensioners, anchors & miscellaneous hardware (by others) to the plate of the GAP. A minimum of (4) wires/cables equally spaced is recommended.

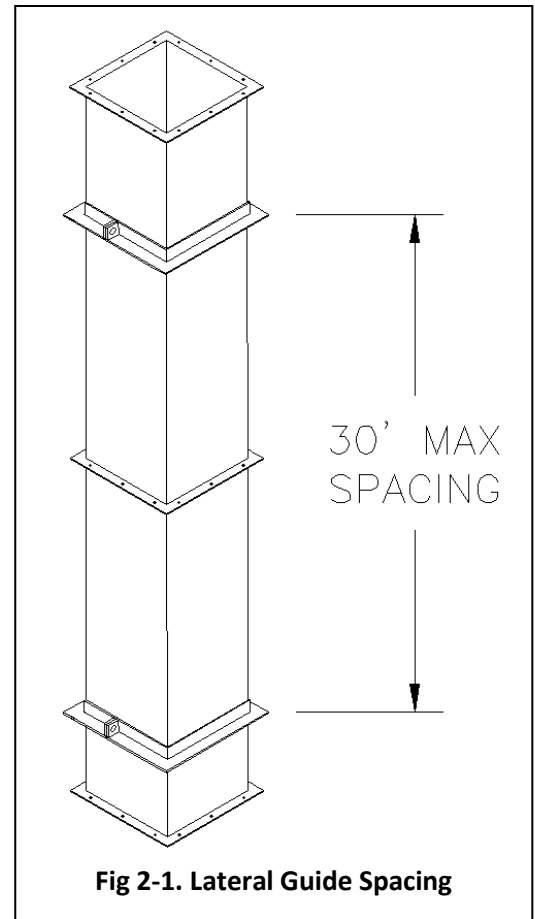


Fig 2-1. Lateral Guide Spacing

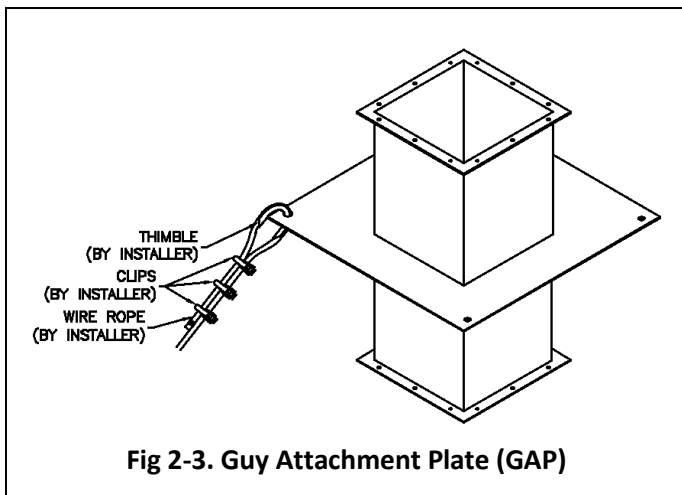


Fig 2-3. Guy Attachment Plate (GAP)

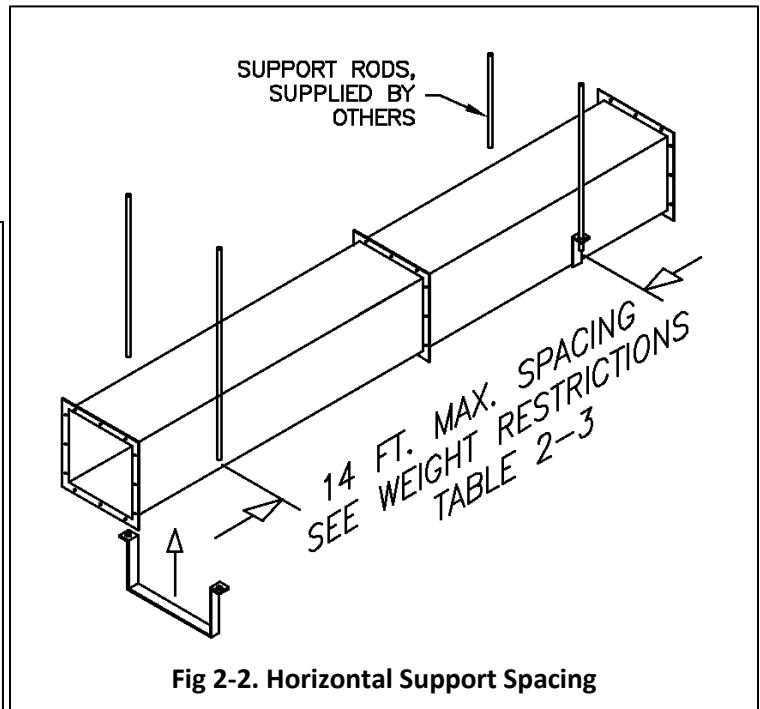


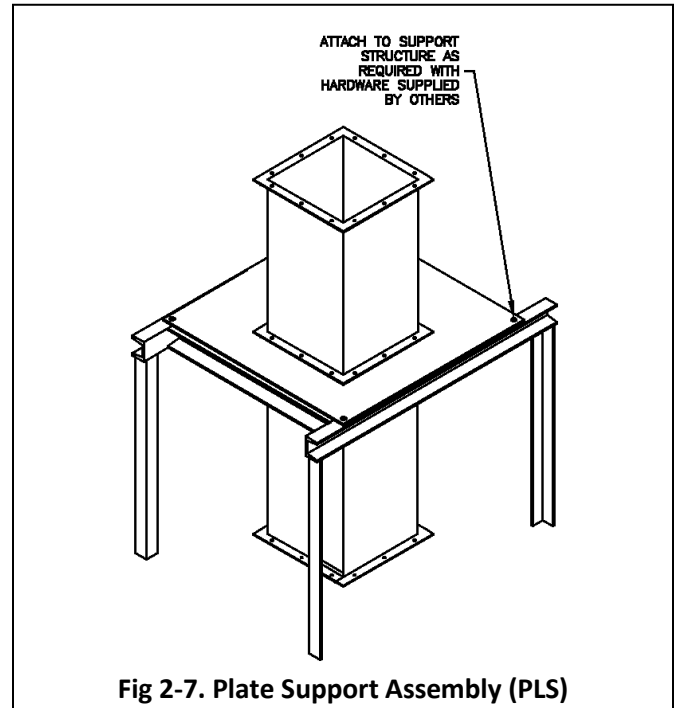
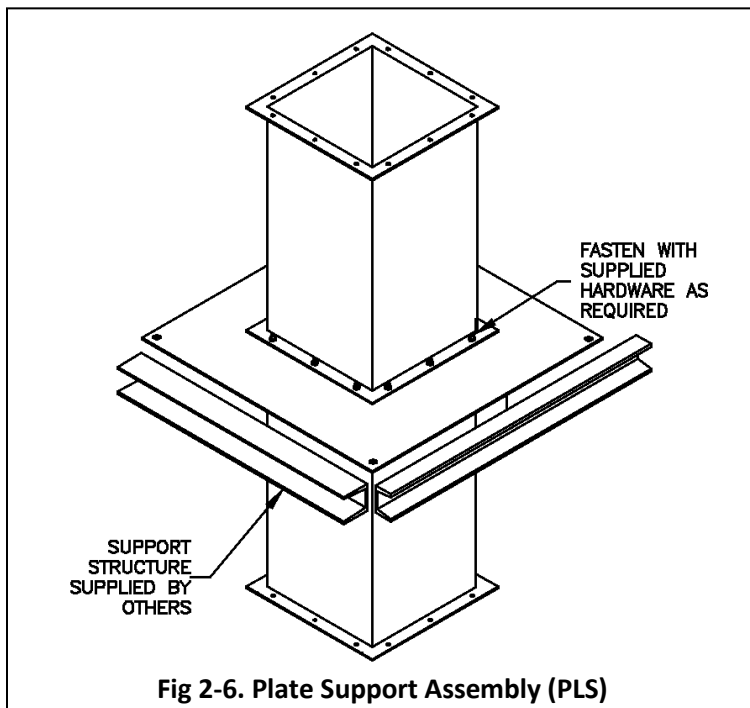
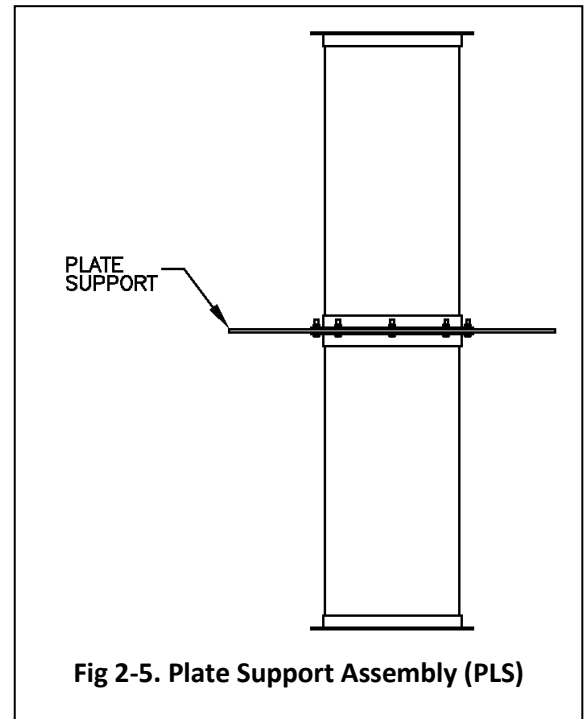
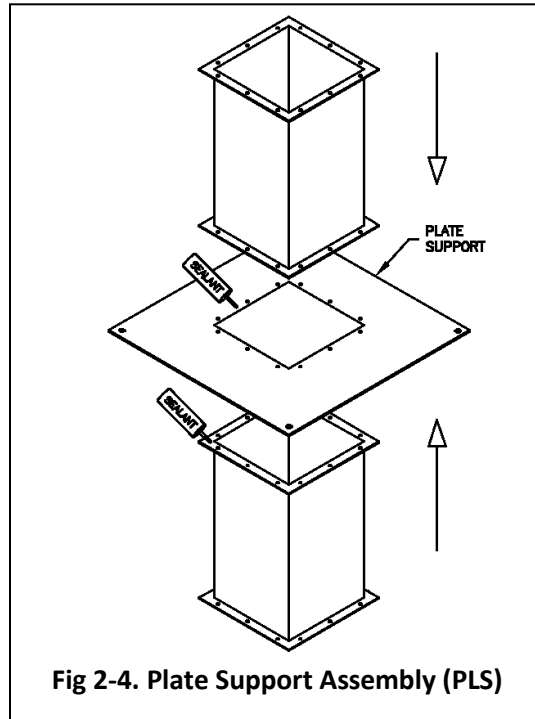
Fig 2-2. Horizontal Support Spacing

Plate Support Assembly – (PLS)

Plate support assemblies are used for vertical & horizontal (breaching anchor) structural support applications. The PLS is to be used with structural support members, which are designed by the building structural engineer. Refer to table 2-1 & 2-2 for structural support limitations.

To Install:

1. Refer to Table 2-1 & 2-2 for load limitations.
2. Position the plate support between the flanges. See Fig 2-4.
3. Secure the joint per the standard Joint Assembly Instructions, sandwiching the plate support between the duct flanges. See Fig 2-5.
4. Fasten / secure Plate Support to Structural Members. Do not install to combustible material. Ensure all four sides of the plate are supported. Design support member and fasteners in accordance with good engineering practices to suit each specific application. Jeremias assumes no responsibility for the design and/or modification of buildings or structures to accept the given loads. See Fig 2-6 & 2-7.



Flange Support Assembly – (FSA)

A Flange Support Assembly is a prefabricated duct section with a plate support installed at the factory for structural support applications. The FSA is to be used with structural support members, which are designed by the building structural engineer.

To Install:

1. Refer to Table 2-1 & 2-2 for load limitations.
2. Fasten / secure Plate Support to Structural Members. Do not install to combustible material. Ensure all four sides of the plate are supported. Design support member and fasteners in accordance with good engineering practices to suit each specific application. Jeremias assumes no responsibility for the design and/or modification of buildings or structures to accept the given loads. See Fig 2-8.
3. Refer to Joint Assembly section to connect adjacent duct segments to the FSA.

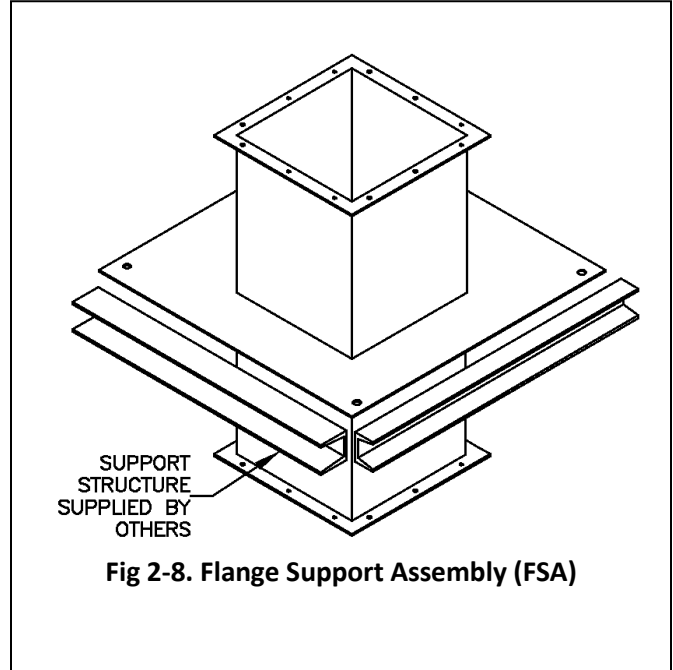


Fig 2-8. Flange Support Assembly (FSA)

Wall Brackets – (WBR)

Wall brackets are used in conjunction with our vertical and horizontal structural and lateral supports. The WBR, in conjunction with anchor bolts or in some instances additional field fabricated support members from the wall brackets to the building or structure, is intended to provide a rigid (static) support location. This rigid support location is intended to withstand the weight of duct components, forces from thermal expansion & exhaust velocities, etc. The WBR is comprised of (2) wall brackets, (left and right).

To Install:

1. Refer to Table 2-1 & 2-2 for load limitations.
2. Anchor the wall brackets to the wall or additional field fabricated support members accordingly. Design support member and fasteners in accordance with good engineering practices to suit each specific application. Consult structural engineer regarding design and/or modification of buildings or structures to accept the given loads. Do not anchor to combustible material. See Fig 2-9 to 2-11.

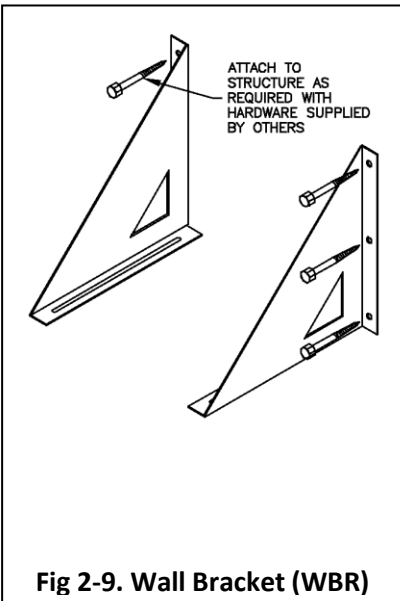


Fig 2-9. Wall Bracket (WBR)

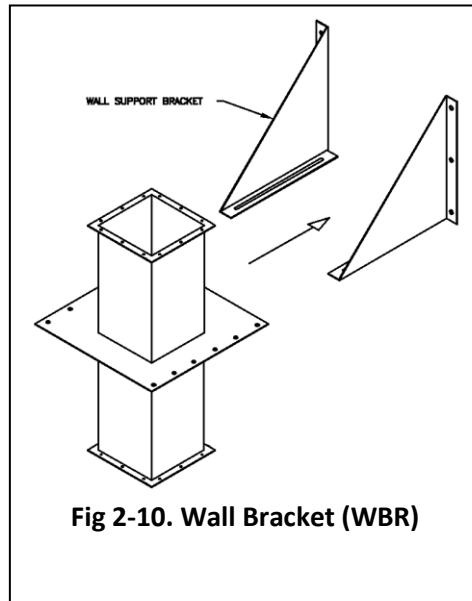


Fig 2-10. Wall Bracket (WBR)

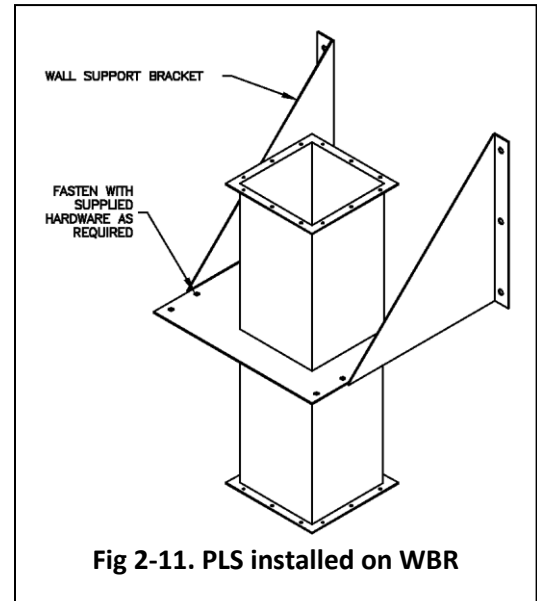


Fig 2-11. PLS installed on WBR

SECTION 3 – DUCT SECTIONS & FITTINGS

Duct Sections

A wide range of prefabricated adapters, fittings, elbows, wye's, tee's, transitions, increasers, terminations, etc are available. Sections may also be equipped (must be factory installed) with nipples or couplings to accommodate test probes, fire suppression nozzles, sprinkler heads, drainage, etc. Refer to the SWGD-R catalog for additional information on part number designations and the wide range of parts and fittings we offer to complete a system from start to finish. Additionally, where required, custom lengths may be ordered from Jeremias Inc.

Straight Sections (STR)

Model SWGD-R is available in a variety of fixed duct lengths (e.g., 18", 30" & 42"). Refer to the catalog for available sizes. Additionally, where required, custom lengths may be ordered from Jeremias Inc. Refer to the corresponding Joint Assembly section for installation instructions. See Fig 3-1.

Elbow (E)

Elbows are used to provide changes in direction. They are available in a variety of standard angles (1.5°, 3°, 15°, 30°, 45°, 70°, 87°, & 90°). Refer to the catalog for available sizes. Additionally, where available, custom elbows may be ordered from Jeremias Inc. Elbows are installed similar to standard duct. Refer to the corresponding Joint Assembly section for installation instructions. See Fig 3-2.

Tee (90T)

Used as a manifold entry Tee, offset with one of the access cap options, or cleanout option. Branch can be same or any size smaller than the body. See Fig 3-3.

Wye Tee (WYE)

Used for two-way entries where a tee cap or access cannot be used due to the application or as a 90° that can have an access cap at the middle.

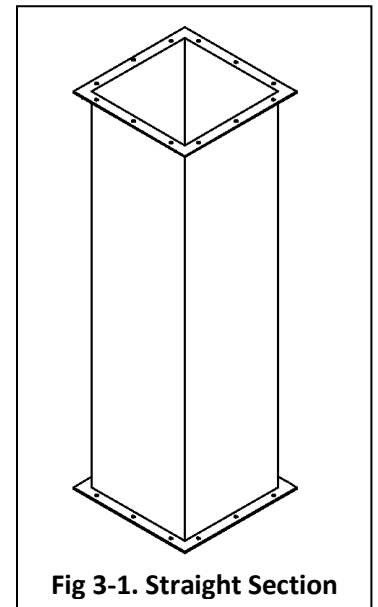


Fig 3-1. Straight Section

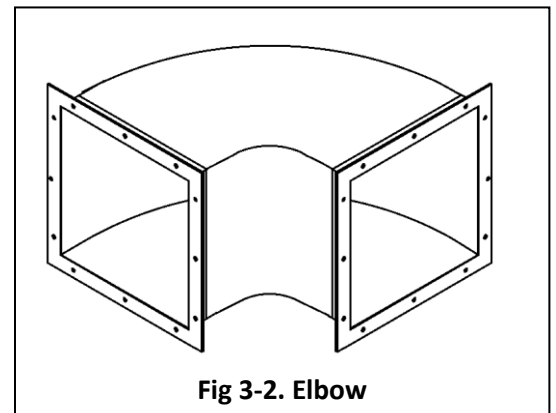


Fig 3-2. Elbow

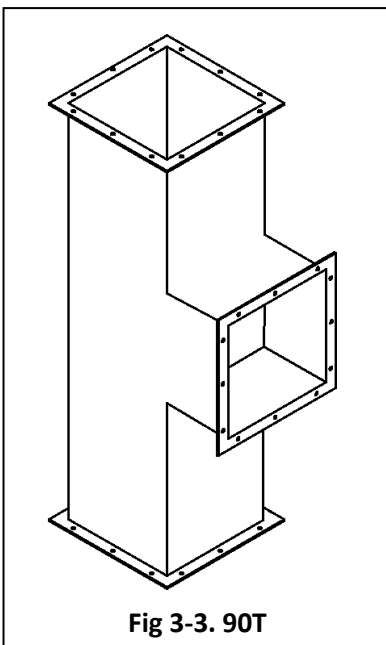


Fig 3-3. 90T

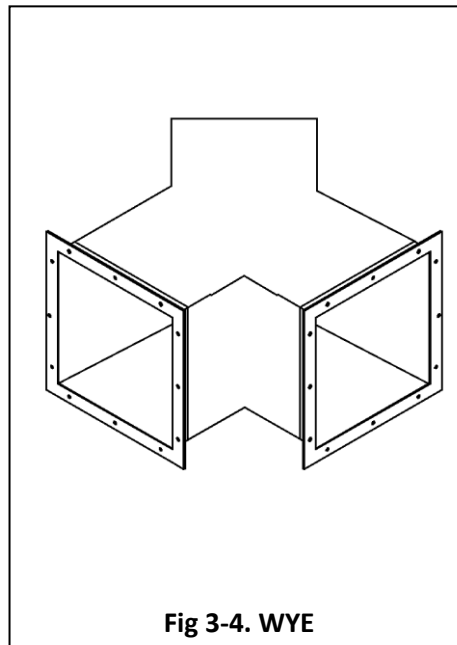


Fig 3-4. WYE

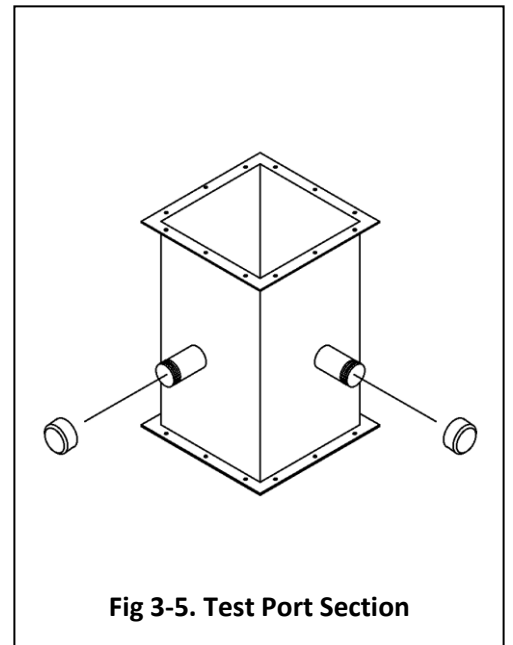
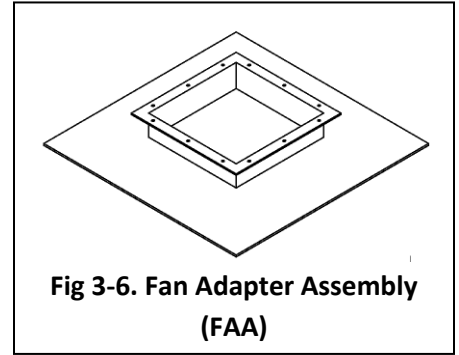


Fig 3-5. Test Port Section

Fan/Hood Adapter Assembly – (FAA)

The fan adapter assembly is intended to be used with a “traditional” roof curb (provided by others) and connection to a hood or an exhaust fan. The FAA is comprised of a fan adapter plate (specify plate size at time of purchase) with a factory installed starter section that assembles to a standard fitting. Field connect the plate to the hood, curb or fan by (drilling / fasteners & sealant by others as required). Refer to the hood, fan unit or the roof curb manufacturer’s installation requirements. (See Fig 3-6).

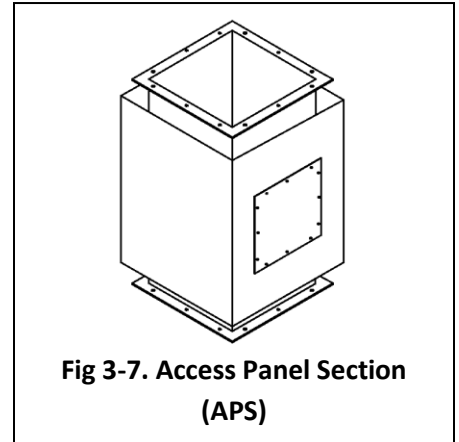


ACCESS PANEL SECTION – (APS)

This part is intended to be used for clean out access. When the access panel section is installed in a horizontal position, it must be orientated in accordance with applicable codes. Please refer to the SWGD-R catalog for additional information and part number designation. See Fig 3-7.

Open Top Closure – (OTC)

The open top closure covers the space between the liner and shell. First, position the OTC around the liner. Next, butt the OTC up against the flange of the liner and using the provided fasteners draw up the OTC. Last, apply a bead of sealant at the seam formed between OTC and the liner to form a weather tight seal. See Fig 3-8.



Rain Cap – (RCS)

Rain caps connect to the liner flange per the joint assembly instructions. The space between the liner and shell is then covered using a rain skirt. The rain skirt is installed by positioning the rain skirt around the liner just below the previously installed flange. Next, using the provided fasteners draw up the rain skirt (the rain skirt should be overlapping and in contact with the top of the shell). Last, apply a bead of sealant at the seam formed between rain skirt and the liner to form a weather tight seal. See Fig 3-9.

Increasesers and Reducers

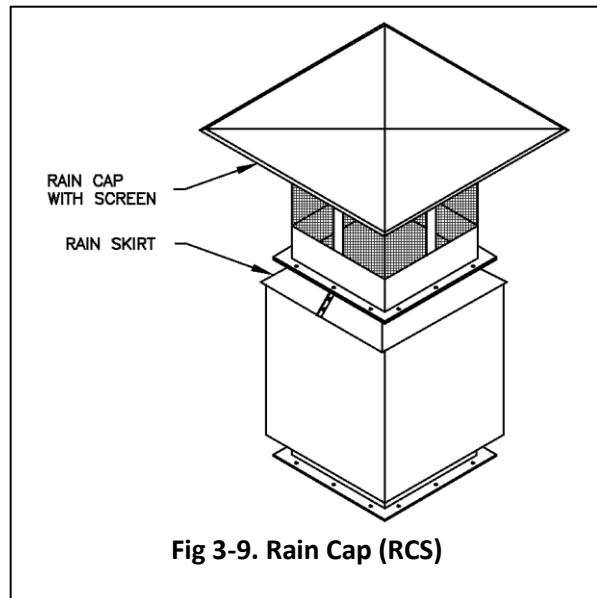
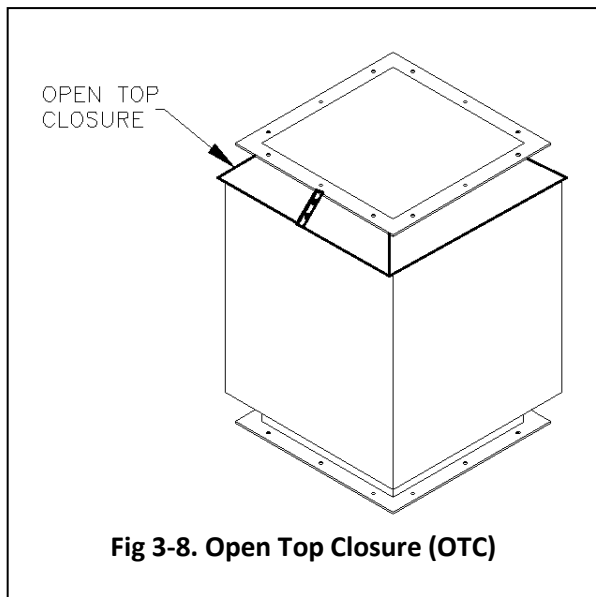
Reduction fittings are typically used in manifold applications when needed. There are many options for increasers and reducers.

Single-to-Single-Wall / Single-to-Single-Wall Adapters (D2S & S2D)

These adapters allow a smooth transition to and from Single wall and single wall. They may be installed vertically or horizontally. Adapters are made to order for project requirements.

Transition to Round Start & End (TRS & TRE)

Used to connect to and from rectangular or square outlets on hood, fans, or auxiliary equipment. Transitions are custom made to order for project requirements. The rectangular or square base can be made in accordance with NFPA-96 no-weld hood connection or may be field welded by the installing contractor.



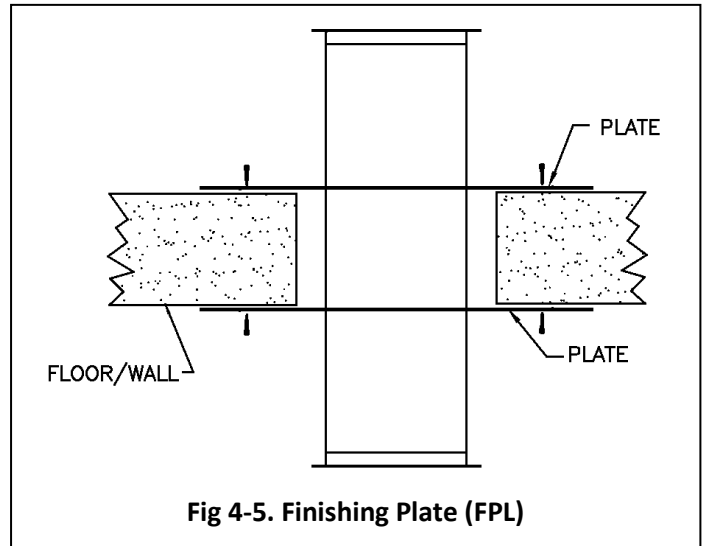
SECTION 4 – THIMBLES, PENETRATIONS, FIRESTOPS & FLASHINGS

Finishing Plate – (FPL)

The finishing plate can be used when the duct passes through a floor/ceiling or wall where a fire rating is not required. The minimum rough opening (square or round opening allowed) must be enough to allow the duct to pass through, approximately duct O.D. +2". The maximum rough opening is duct O.D. +8" (Max. opening size when duct is centered through the opening). The FPL includes (1) plate assembly. Please note two plate assemblies shown below in the picture.

To Install:

1. Cut the rough opening (Minimum hole size duct O.D. +2". Maximum hole size duct O.D. +8")
2. Assemble the duct through the opening in floor.
3. Position the plate halves (allow slight clearance to the duct O.D. to accommodate any expansion as needed).
4. Anchor the plates with appropriate fasteners (by others) at hole locations.



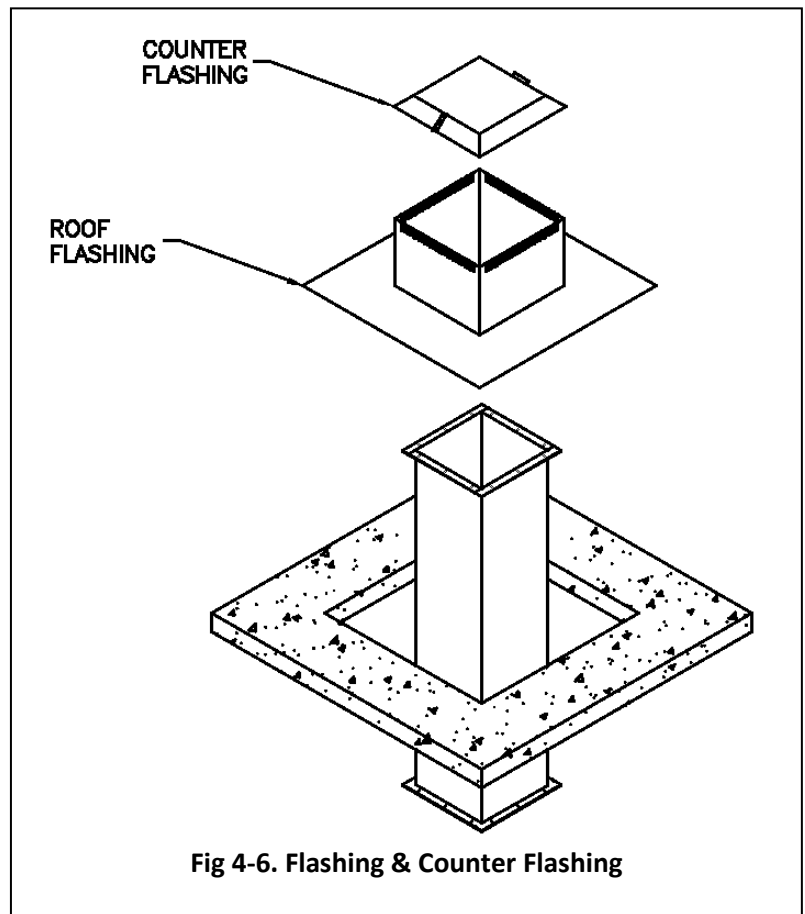
Roof Penetration

Flashing & Counter Flashing – (FLS & CFL)

The flashing and counter flashing can be used when the duct passes through a roof or curb where a roof penetration thimble is not required. Pitched flashings are available please refer to the model SWGD-R brochure accordingly. The minimum rough opening (square or rectangular opening allowed) must be enough to allow the duct to pass through, approximately duct O.D. +2". The maximum recommended rough opening is duct O.D. +8" (reflects flat roof only and duct centered through opening).

To Install:

1. Cut the rough roof opening. Center the flashing around the opening and with appropriate fasteners attach it to the roof. Roofing materials to complete a weather tight seal should be installed over the square base of the flashing.
2. Assemble the duct through the flashing accordingly. Next, install the counter flashing by positioning it around the duct and against the screen at the top of the flashing. Then, with the provided fasteners draw up the counter flashing. Last, apply a bead of sealant at the seam of the counter flashing and duct. Note: Roofing materials must not fill the entire space between the roof and the bottom of the counter flashing.



SECTION 5 – FINISHING STEPS, INSPECTION & MAINTENANCE

Final Check

Before completing assembly, recheck all joints to ensure the locking band has been properly installed. Confirm all clearances and support spacing is correct.

Important Notice

The listing for this product is void if components other than the Listed Components are used. All warranties, stated or implied, are void if the vent or appliance is installed in a non-conforming manner. After installation, check all joints and supports to assure they are secure and functioning as intended and are properly sealed for containment of flue gases.

Maintenance

Jeremias recommends that the entire system be checked by a qualified inspector at least once a year after the system is placed in service. The installation must conform to the requirements of the appliance manufacturer's instructions, the National Fuel Gas Code and local codes and regulations.

SECTION 6 – SAMPLE SYSTEMS

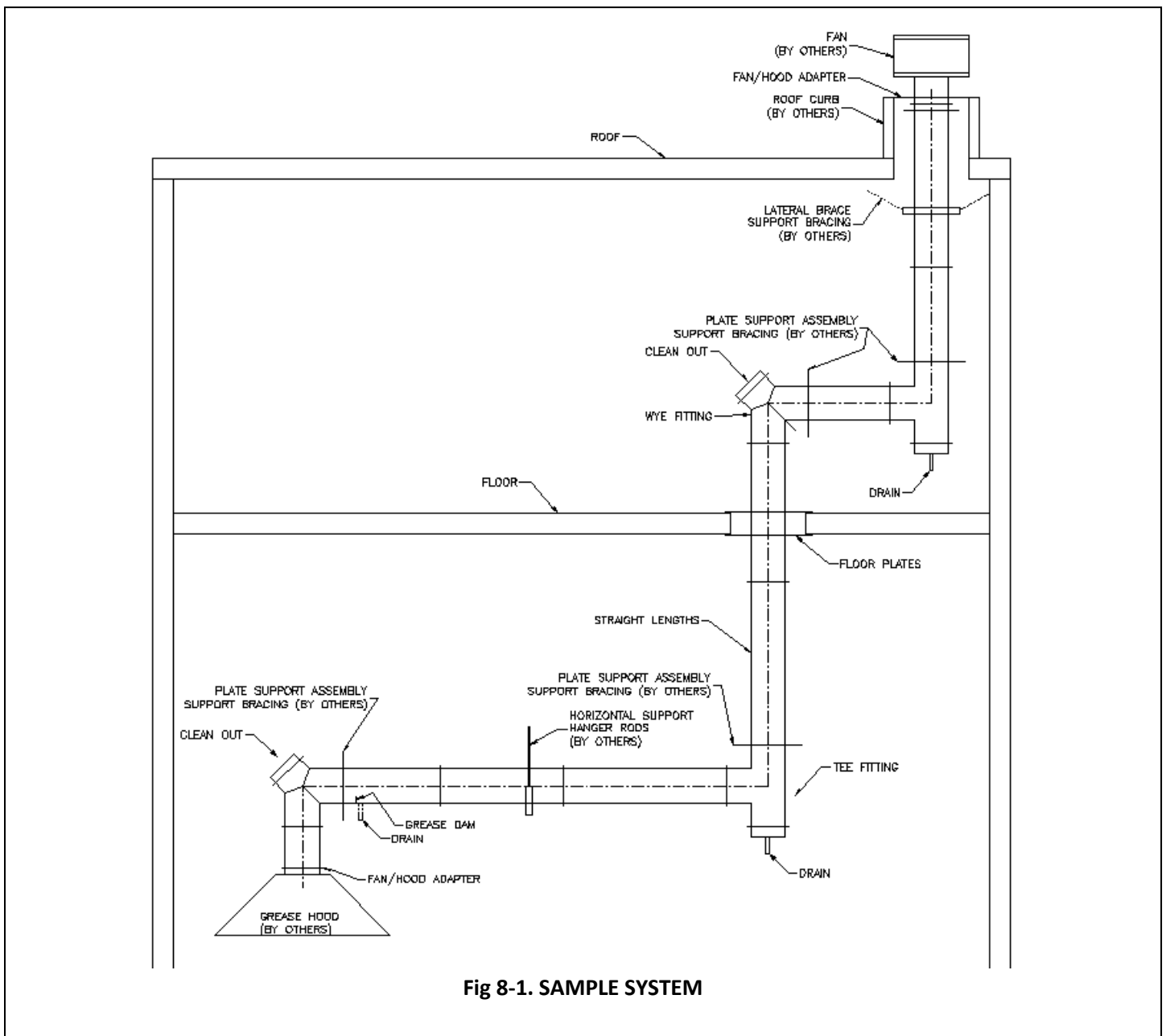


Fig 8-1. SAMPLE SYSTEM

PART 7 – Warranty

I. 1-Year Limited Warranty

Jeremias Inc. (“Jeremias”) provides a 1-year limited warranty (“1-Year Limited Warranty”) for its UL1978 grease ducts Model SWGD-R (collectively, the “Products”) for any defect in workmanship or materials under normal use from the date of shipment to the purchaser of Products (“Purchaser”), subject to the following conditions:

- Product sizing and specifications have been performed in accordance with generally accepted engineering practices.
- Correct installation and maintenance in full compliance with Jeremias’ installation and maintenance instructions as published at the time of installation.

II. Extended 10-Year Limited Warranty

Jeremias provides for an extended 10-year limited warranty (“10-Year Limited Warranty”) for any defect in workmanship or materials under normal use from the date of shipment to the Purchaser, subject to the satisfaction of the following conditions:

- Products must have been designed and sized by Jeremias’ personnel.
- Availability of a written inspection report from the time of installation, or timely thereafter, by a Jeremias inspector or an inspector authorized by Jeremias, that the Product assembly and installation conformed to all of Jeremias’ assembly and installation instructions.
- Products were at all times operated and maintained in full compliance with Jeremias’ operation and maintenance instructions as published at the time of installation or as later provided to Purchaser by Jeremias.

III. Exclusion of Limited Warranty

The 1-Year Limited Warranty and the 10-Year Limited Warranty (collectively the “Limited Warranty”) shall not cover (i) damages to: wear parts, e.g. seals; demonstration units; paintwork; moving parts, including but not limited to compensators, flue gas dampers, draught regulators, chimney, doors; flexible piping; insulation; consumables, such as granulates; minor Product deviations which do not effect functionality; or (ii) damages caused by: contamination of ambient air or combustion air by chlorinated hydrocarbons or other vapors which may cause excessively severe acid condensate to form within the Products; merchandise provided by other manufacturers; installation, transport or commissioning; Purchaser, an installer or other third parties; normal wear and tear; any party other than Jeremias in a willful manner; force majeure, including, but not limited to flood, fire or frost; non-compliance with the assembly, installation, operation and maintenance instructions available at www.JeremiasInc.com; assembly, installation, maintenance or repair by unqualified personnel; improper commissioning; use of Products not in accordance with their intended purpose; exposure of Products to any metals of an inferior quality; contamination of the Products between unpacking and assembly; burning of wood other than unpainted, natural wood, which has been stored for at least 3 years and which moisture level does not exceed 20%; or burning of chipboard or domestic waste.

IV. Remedies

If a valid Limited Warranty claim arises, Jeremias shall, at its sole discretion, either repair the Product or deliver a properly functioning Product. This Limited Warranty is limited to repair or replacement of the Product plus shipping cost to the location of the defective Product. The Limited Warranty does not cover labor costs for removal or replacement of the defective Product, unless such labor shall be carried out by Jeremias itself in its sole discretion.

V. Filing of a Limited Warranty Claim

Limited Warranty claims may only be asserted during the term of the applicable Limited Warranty period. Any extension of the term of the Limited Warranties shall be excluded, regardless of the legal basis. If Purchaser believes that there is a justified Limited Warranty claim, Purchaser shall notify Jeremias to that effect in writing. Any claims stemming from or relating to a Limited Warranty shall be asserted in detail within eight weeks after the discovery of the defect (the time when the notification is received by Jeremias will be the basis for determining whether a claim has been reported within this deadline) or else shall be excluded and not be recognized by Purchaser. Such notification shall include a description of the defect, original proof of purchase, and a copy of the written inspection report as described in Section II above (if applicable).

VI. No Other Warranty

EXCEPT AS SET FORTH EXPRESSLY THEREIN, JEREMIAS MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, REGARDING THE PRODUCTS, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

VII. Damages Disclaimer and Limitation

IN NO EVENT SHALL JEREMIAS BE LIABLE TO ANY CLIENT OR ANY OTHER PERSON FOR ANY (A) INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, INCLUDING LOSS OF PROFIT OR GOODWILL OR (B) DIRECT DAMAGES TO BODY, HEALTH OR PROPERTY FOR ANY MATTER ARISING OUT OF OR RELATING TO THE PRODUCTS, WHETHER SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT OR OTHERWISE EVEN IF JEREMIAS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL JEREMIAS’ TOTAL AGGREGATE LIABILITY FOR DAMAGES EXCEED THE GREATER OF THE AMOUNT OF (A) TOTAL COMPENSATION PAID BY PURCHASER TO JEREMIAS FOR THE PRODUCTS, OR (B) PROCEEDS AVAILABLE FROM ANY INSURANCE POLICY IN EFFECT AND APPLICABLE TO THE EVENT GIVING RISE TO SUCH LIABILITY.

VIII. Notice

Any notice or other communication hereunder to Jeremias shall be sent postage prepaid, by certified mail, by courier such as United Parcel Service or e-mail, to the following: Jeremias Inc., 983 Industrial Park Drive, Marietta, GA 30062, E-mail: Info@JeremiasInc.com. Notices shall be effective upon receipt.

IX. Terms and Conditions of Sale

Purchaser’s Terms and Conditions of Sale as currently in effect shall govern these Limited Warranties, including without limitation the rights and responsibilities granted hereunder. Jeremias Warranty and Terms & Conditions apply. Visit: <https://jeremiasinc.com/downloads/terms-conditions/>

