

CHEMINÉE  
**Lining**



**CATEGORIES II, III AND IV VENTING SYSTEMS**

# **SPECIAL GAS VENTS**

**TECHNICAL DATA AND PARTS SELECTION**

**Models HEP, HEPLA, HEPL, HEPL1, HEPL2**  
High Efficiency/Positive Pressure Application



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# LISTING AND APPLICATIONS

## LISTINGS

Cheminee Lining venting systems models HEP, HEPLA, HEPL, HEPL1 and HEPL2 are listed by Underwriters Laboratories Inc. (UL) under file MH10081 and tested in accordance with UL 1738 and ULC-S636-95 standard for Venting Categories II, III and IV appliances. Inner wall available in both AL29-4C and 316 stainless steel. Both options are UL and ULC certified.



### UL 1738 and ULC-S636-95

MODELS HEP • HEPLA • HEPL • HEPL1 • HEPL2	TEMPERATURE	SIZE
Categories II, III and IV appliance	550°F continuous	6" to 48" I.D.

## APPLICATIONS

1. Models HEP, HEPLA, HEPL, HEPL1 and HEPL2 venting systems are not intended for use in one or two-family dwellings.
2. Where the venting system extends through any zone of a building outside the area in which the heating appliance connected to it is located, it shall be provided with an enclosure having a fire resistance rating equal to or greater than the fire rating of the floor, wall or roof assemblies through which it passes.
3. Models HEP, HEPLA, HEPL, HEPL1 and HEPL2 venting systems may penetrate a combustible roof or wall using the Ventilated Roof Flashing assembly. For wall penetrations, the use of the Wall Firestop assembly is required. This is the only part intended for use with combustible construction. All other parts, such as Anchor Plate and Wall Support, Wall Guide and Floor Guide are for attachment to non-combustible construction.
4. Where, according to local code, no chase enclosure is necessary, models HEP, HEPLA, HEPL, HEPL1 and HEPL2 may be placed adjacent to, in a corner or in an enclosure made of walls of combustible materials at the clearance specified on each pipe section and in the individual listing; see "CLEARANCES". Contact local building or fire officials about restrictions and installation inspection in your area.

## DESIGN AND SPECIFICATION

### DESIGN

All our single and double wall venting systems are part of a large family of HEP (High Efficiency Pressure) products for industrial and commercial applications. The components of each model are made using the same laser/plasma-welded stainless steel inner wall as per UL 1738. Since all components have male and female ends, the parts of all models fit into one another, thus eliminating the need for all kinds of adapters and providing an incomparable flexibility in selecting models of flues and chimneys.



HEP: Single wall  
(see Chimney Breechings  
and Liners Catalogue)



HEPL: Double wall  
with 2" air space  
HEPLA: Double wall  
with 1" air space



HEPL1: Double wall  
with 1" mineral fiber insulation  
HEPL2: Double wall  
with 2" mineral fiber insulation

This unique method for jointing components together is very efficient either in horizontal or in vertical installations. Our simple jointing concept along with the wide variety of components and accessories allows a quick and simple installation, thus permitting you to save both time and money.

Cheminee Lining is proud to present you with our HEP (High Efficiency Pressure) venting systems and can assure you that it is the structurally strongest system of its category.

These chimney systems permit the exhaust of combustion gases, under positive, negative or neutral pressure, emanating from a variety of appliances including:

- High efficiency boilers
- High efficiency water heaters
- Category II, III and IV appliances

Models HEP, HEPLA, HEPL, HEPL1 and HEPL2 provide a wide variety of components and accessories, suitable for all kinds of site conditions, thus allowing for quick and simple installation. Each component is packed and shipped complete, with (1) one assembly band and (1) one finishing band for those having female ends. Sufficient tubes of appropriate sealant are also included in the shipment for completing the assembly.

### SAMPLE SPECIFICATION (Boiler Exhaust)

The chimney and flue must meet UL (Underwriters Laboratories Inc.) and ULC (Underwriters Laboratories of Canada Inc.) standards and carry the appropriate approval labels. The maximum temperature must be 550°F (288°C) for continuous operation.

The chimney and flue components must be of double wall construction and properly designed for positive pressure exhaust. The inner wall must be of 24 gauge stainless steel, with continuous welds. The outer wall must be of 24 gauge stainless steel. A high temperature insulation (2 in.) must be installed between walls. The jointing must be made using the assembly band, the finishing band and the appropriate sealing material, as supplied by the manufacturer. Quality required: Model HEPL2.

All components must be installed according to the manufacturer recommendations and must meet the NFPA and local safety code requirements.

# MATERIALS

## MODEL HEP

Inner wall: Stainless steel as per UL1738 316SS [20 ga-6" (152 mm) to 40" (1016 mm) diameter; 18ga- 42" (1067 mm) to 48" (1219 mm) diameter]; AL29-4C [24 ga- 6" (152 mm) to 48" (1016 mm) diameter]

## MODEL HEPLA

Inner wall: Stainless steel as per UL1738 316SS [20 ga-6" (152 mm) to 40" (1016 mm) diameter; 18ga- 42" (1067 mm) to 48" (1219 mm) diameter]; AL29-4C [24 ga- 6" (152 mm) to 48" (1016 mm) diameter]

Outer wall: Stainless steel 304, 316 and aluminized [24ga - 6" (152mm) to 40" (1016 mm) diameter; 20ga - 42" (1067 mm) to 48" (1219 mm) diameter]

Insulation: 1" (25.4 mm) air space

## MODEL HEPL

Inner wall: Stainless steel as per UL1738 316SS [20 ga-6" (152 mm) to 40" (1016 mm) diameter; 18ga- 42" (1067 mm) to 48" (1219 mm) diameter]; AL29-4C [24 ga- 6" (152 mm) to 48" (1016 mm) diameter]

Outer wall: Stainless steel 304, 316 and aluminized [24ga - 6" (152mm) to 40" (1016 mm) diameter; 20ga - 42" (1067 mm) to 48" (1219 mm) diameter]

Insulation: 2" (51 mm) air space

## MODEL HEPL1

Inner wall: Stainless steel as per UL1738 316SS [20 ga-6" (152 mm) to 40" (1016 mm) diameter; 18ga- 42" (1067 mm) to 48" (1219 mm) diameter]; AL29-4C [24 ga- 6" (152 mm) to 48" (1016 mm) diameter]

Outer wall: Stainless steel 304, 316 and aluminized [24ga - 6" (152mm) to 40" (1016 mm) diameter; 20ga - 42" (1067 mm) to 48" (1219 mm) diameter]

Insulation: 1" (51 mm) high temperature insulation

## MODEL HEPL2

Inner wall: Stainless steel as per UL1738 316SS [20 ga-6" (152 mm) to 40" (1016 mm) diameter; 18ga- 42" (1067 mm) to 48" (1219 mm) diameter]; AL29-4C [24 ga- 6" (152 mm) to 48" (1016 mm) diameter]

Outer wall: Stainless steel 304, 316 and aluminized [24ga - 6" (152mm) to 40" (1016 mm) diameter; 20ga - 42" (1067 mm) to 48" (1219 mm) diameter]

Insulation: 2" (51 mm) high temperature insulation

## SUPPORTS & ACCESSORIES

Galvanized steel, 316 L or 304 2B stainless steel

COMPONENTS	MATERIALS	
	STANDARD	AVAILABLE
ANCHOR PLATE	3	1, 2 and 4
ASSEMBLY BAND	-	-
COLLARS, FLASHING	-	1 and 2
DRAIN SECTION	-	-
ELBOWS	-	-
EXHAUST CONE	-	-
FAN ADAPTER	-	-
FINISHING BAND	-	-
FIRESTOP, WALL FIRESTOP	3	1 and 2
HANGER BRACKET	3	1, 2 and 4
INCREASER/REDUCER	-	-
INSULATED SLEEVE, INSULATED WALL FIRESTOP	3	1 and 2
LENGTHS, ADJUSTABLE LENGTH, VARIABLE LENGTH	-	-
RADIANT FIRESTOP	3	1 and 2
RAIN CAP, RAINSHIELD, CLOSURE SECTION	-	-
ROOF BAND, GUY WIRE BAND	1	2, 3 and 4
ROOF SUPPORT, GUIDING SPACER	3	1, 2 and 4
STARTING ADAPTER, STARTING DRAIN ADAPTER	3	1, 2 and 4
STARTING SLEEVE	3	1, 2 and 4
TEES	-	-
TEE CAPS	-	-
WALL BAND, SUSPENSION BAND	3	1, 2 and 4
WALL/FLOOR GUIDES	3	1, 2 and 4
WALL/HORIZONTAL SUPPORTS	3	1, 2 and 4

1: 316 L stainless steel 2: 304 2B stainless steel 3: Galvanized steel 4: Hot-galvanized steel

# WEIGHTS AND CLEARANCES

HEPL • HEPL2				LINEAR WEIGHT											
I.D.		O.D.		AREA		HEP		HEPLA		HEPL		HEPL1		HEPL2	
in	mm	in	mm	lb/ft	kg/m	lb/ft	kg/m	lb/ft	kg/m	lb/ft	kg/m	lb/ft	kg/m	lb/ft	kg/m
6	152	10	254	28	18.2	2.2	3.2	4.5	6.7	5.1	7.5	5.8	8.6	8	11.9
8	203	12	305	50	32.4	2.9	4.3	5.8	8.6	6.3	9.4	7.4	11.0	10	14.9
10	254	14	356	79	50.7	3.6	5.4	7.1	10.5	7.6	11.4	9.1	13.5	12	17.9
12	302	16	406	113	73.0	4.3	6.4	8.4	12.5	8.9	13.3	10.8	16.0	14.1	21.0
14	356	18	457	154	99.3	5.1	7.5	9.7	14.4	10.2	15.2	12.4	18.5	16.1	24.0
16	406	20	508	201	129.7	5.8	8.6	11.0	16.3	11.5	17.2	14.1	21.0	18.1	27.0
18	457	22	559	254	164.2	6.5	9.7	12.3	18.3	12.8	19.1	15.7	23.4	20.2	30.0
20	508	24	610	314	202.7	7.2	10.7	13.6	20.2	14.1	21.0	17.4	25.9	22.2	33.0
22	559	26	660	380	245.2	7.9	11.8	14.9	22.1	15.4	23.0	19.1	28.4	24.2	36.1
24	610	28	711	452	291.9	8.7	12.9	16.2	24.1	16.7	24.9	20.7	30.9	26.3	39.1
26	660	30	762	531	342.5	9.4	14.0	17.5	26.0	18.0	26.8	22.4	33.4	28.3	42.1
28	711	32	813	616	397.3	10.1	15.0	18.8	27.9	19.3	28.8	24.1	35.8	30.3	45.1
30	762	34	864	707	456.0	10.8	16.1	20.1	29.9	20.6	30.7	25.7	38.3	32.4	48.2
32	813	36	914	804	518.9	11.5	17.2	21.4	31.8	21.9	32.6	27.4	40.8	34.4	51.2
34	864	38	965	908	585.8	12.3	18.3	22.7	33.7	23.2	34.6	29.1	43.3	36.4	54.2
36	914	40	1016	1018	656.7	13.0	19.3	24.0	35.7	24.5	35.4	30.7	45.7	38.5	57.2
38	965	42	1067	1134	731.7	13.7	20.4	25.3	37.6	25.8	36.5	32.4	48.2	40.5	60.3
40	1016	44	1118	1257	810.7	14.4	21.5	26.6	39.5	27.1	40.4	34.1	50.7	42.5	66.3
42	1067	46	1168	1385	893.8	15.2	22.6	34.1	50.8	35.0	52.1	42.0	62.5	51.1	76.1
44	1118	48	1219	1521	981.0	15.9	23.6	35.7	53.2	36.6	54.5	44.0	65.4	53.5	79.5
46	1168	50	1270	1662	1072.2	16.6	24.7	37.3	55.5	38.2	56.8	45.9	68.3	55.8	83.0
48	1219	52	1321	1810	1167.5	17.3	25.8	38.9	57.9	39.8	59.2	47.9	71.2	58.1	86.4

CLEARANCES OF UNENCLOSED INSTALLATION											
I.D.	HEP (in)		HEPLA (in)		HEPL1 (in)		HEPL (in)		HEPL2 (in)		
	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	Horizontal	
3	-	-	1	1	1	1	-	-	-	-	
4	-	-	1	1	1	1	-	-	-	-	
5	-	-	1	1	1	1	-	-	-	-	
6	1.5	3	1	1	1	1	0.5	1	0.5	1	
8	2	3	1	1	1	1	1.5	1	1	1	
10	2	3	1.5	2	1.5	2	1.5	1	1	1	
12	3	4	1.5	2	1.5	2	2	1.5	1.5	1.5	
14	3	4	1.5	2	1.5	2	2	1.5	1.5	1.5	
16	4	5	2	3	2	3	3	3	2	2	
18	4	5	2	3	2	3	3	3	2	2	
20	4	5	2	3	2	3	4	3	2	2	
22	5	6	3	4	3	4	4	4	3	3	
24	5	6	3	4	3	4	4	4	3	3	
26	6	6	3	5	3	5	5	4	4	3	
28	6	6	3	5	3	5	5	4	4	3	
30	7	6	3	5	3	5	6	5	4	3	
32	7	7	3	6	3	6	6	5	5	4	
34	8	7	4	6	4	6	7	6	5	5	
36	8	7	4	6	4	6	7	6	5	5	
38	8	7	4	7	4	7	8	6	6	5	
40	9	8	4	7	4	7	8	7	6	5	
42	9	8	4	7	4	7	8	7	7	5	
44	9	9	4	8	4	8	9	8	7	5	
46	10	9	5	8	5	8	9	8	7	6	
48	10	9	5	8	5	8	9	8	7	6	

**MINIMUM AIR SPACE CLEARANCE TO COMBUSTIBLE MATERIALS**

Diameter	Enclosed vertical		Enclosed horizontal	
	HEPLA HEPL	HEPL1 HEPL2	HEPLA HEPL	HEPL1 HEPL2
	6 to 16"	1"	1"	3"
18 to 32"	1"	1"	-	-

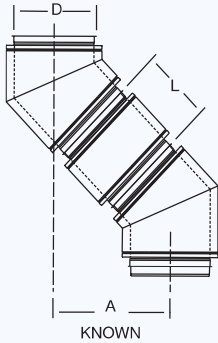
**WARNING**  
**FOR ENCLOSED INSTALLATION, A VENTILATED FLASHING (VF) MUST BE USED (SEE OPERATION AND MAINTENANCE MANUAL, FIG. E12A TO FIG. E 13B)**

Minimum opening when installing a chimney through a floor or wall made of combustible construction.  
 O.D. + 2 X (min. clearance air space) Ex. : HEPL2, B.H.A., O.D. = 12" ➔ 12" + (2 × 2") = 16"

Minimum opening when installing a chimney through a floor or wall made of non combustible construction.  
 O.D. + 1" Ex. : HEPL2, B.H.A., O.D. = 12" ➔ 12" + 1" = 13"

# OFFSETS

## OFFSET CALCULATIONS



### EFFECTIVE LENGTH CALCULATIONS

- OFFSET dimension is known
- Effective length is to be determined using equation 1, 2 or 3 depending on elbows used

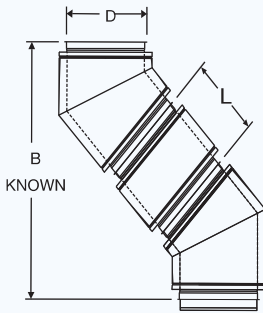
1. $L(A) = 3.864(A) - 0.132D - 13"$	15° elbows
2. $L(A) = 2(A) - 0.268D - 13"$	30° elbows
3. $L(A) = 1.414(A) - 0.414D - 13"$	45° elbows

**EXAMPLE:** An 8" ID IPPL2 chimney with a known offset width of 44.75" (A) using 2-45° elbows.

$$3. \quad L(A) = 1.414(A) - 0.414D - 13"$$

$$L(A) = 1.414(44.75") - 0.414(8") - 13"$$

$$L(A) = 47" \text{ in effective length choose a 48" length (48L)}$$



### EFFECTIVE LENGTH CALCULATIONS

- HEIGHT dimension is known
- Effective length is to be determined using equation 4, 5 or 6 depending on elbows used

4. $L(B) = 1.035(B) - 0.268D - 26.459"$	15° elbows
5. $L(B) = 1.155(B) - 0.577D - 28.011"$	30° elbows
6. $L(B) = 1.414(B) - D - 31.385"$	45° elbows

**EXAMPLE:** A 10" ID chimney with a known offset height of 55" (B) using 2- 45° elbows

$$6. \quad L(B) = 1.414(B) - D - 31.385"$$

$$L(B) = 1.414(55") - 10" - 31.385"$$

$$L(B) = 36.385" \text{ in effective length choose a 24" length (24L)}$$

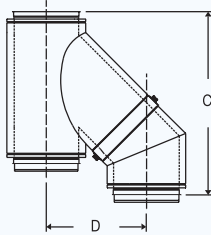
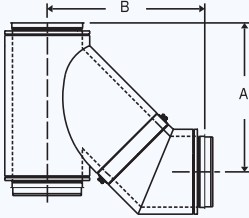
$$+ \text{ adjustable length (AL)}$$

Refer to the elbows specific table for minimum offsets and heights of two matched elbows. For special conditions, we can manufacture one piece offset.



# TEE AND ELBOW ASSEMBLY

## 45° TEE AND 45° ELBOW ASSEMBLY



HEP • HEPL • HEPL2											
I.D.		O.D.		A		B		C		D	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
6	152	10	254	26.471	672	27.471	698	35.213	894	18.728	476
8	203	12	305	28.885	734	29.885	759	38.042	966	20.728	526
10	254	14	356	31.299	795	32.299	820	40.870	1038	22.728	577
12	305	16	406	33.713	856	34.713	882	43.698	1110	24.728	628
14	356	18	457	36.127	918	37.127	943	46.527	1182	26.728	679
16	406	20	508	38.542	979	39.542	1004	49.355	1254	28.728	730
18	457	22	559	40.956	1040	41.956	1066	52.184	1325	30.728	780
20	508	24	610	43.370	1102	44.370	1127	55.012	1397	32.728	831
22	559	26	660	45.784	1163	46.784	1188	57.841	1469	34.728	882
24	610	28	711	48.198	1224	49.198	1250	60.669	1541	36.728	933
26	660	30	762	50.613	1286	51.613	1311	63.497	1613	38.728	984
28	711	32	813	53.027	1347	54.027	1372	66.326	1685	40.728	1034
30	762	34	864	55.441	1408	56.441	1434	69.154	1757	42.728	1085
32	813	36	914	57.855	1470	58.855	1495	71.983	1828	44.728	1136
34	864	38	965	60.270	1531	61.270	1556	74.811	1900	46.728	1187
36	914	40	1016	62.684	1592	63.684	1618	77.640	1972	48.728	1238
38	965	42	1067	65.098	1653	66.098	1679	80.468	2044	50.728	1288
40	1016	44	1118	67.512	1715	68.512	1740	83.296	2116	52.728	1339
42	1067	46	1168	69.926	1776	70.926	1802	86.125	2188	54.728	1390
44	1118	48	1219	72.341	1837	73.341	1863	88.953	2259	56.728	1441
46	1168	50	1270	74.755	1899	75.755	1924	91.782	2331	58.728	1492
48	1219	52	1321	77.169	1960	78.169	1985	94.610	2403	60.728	1542

HEPLA • HEPL1									
O.D.		A		B		C		D	
in	mm	in	mm	in	mm	in	mm	in	mm
8	203	22.496	571	23.996	609	30.238	768	16.253	413
10	254	24.910	633	26.410	671	33.067	840	18.253	464
12	305	27.324	694	28.824	732	35.895	912	20.253	514
14	356	29.739	755	31.238	793	38.724	984	22.253	565
16	406	32.153	817	33.653	855	41.552	1055	24.253	616
18	457	34.567	878	36.067	916	44.380	1127	26.253	667
20	508	36.981	939	38.481	977	47.209	1199	28.253	718
22	559	39.395	1001	40.895	1039	50.037	1271	30.253	768
24	610	41.809	1062	43.309	1100	52.866	1343	32.253	819
26	660	44.224	1123	45.724	1161	55.694	1415	34.253	870
28	711	46.638	1185	48.138	1223	58.523	1486	36.253	921
30	762	49.052	1246	50.552	1284	61.351	1558	38.253	972
32	813	51.466	1307	52.966	1345	64.179	1630	40.253	1022
34	864	53.880	1369	55.380	1407	67.008	1702	42.253	1073
36	914	56.295	1430	57.795	1468	69.836	1774	44.253	1124
38	965	58.709	1491	60.209	1529	72.665	1846	46.253	1175
40	1016	61.123	1553	62.623	1591	75.493	1918	48.253	1226
42	1067	63.537	1614	65.037	1652	78.322	1989	50.253	1276
44	1118	65.952	1675	67.452	1713	81.150	2061	52.253	1327
46	1168	68.366	1736	69.866	1775	83.978	2133	54.253	1378
48	1219	70.780	1798	72.280	1836	86.807	2205	56.253	1429
50	1270	73.194	1859	74.694	1897	89.635	2277	58.253	1480

# LENGTHS

## STRAIGHT LENGTHS • 36L • 24L • 12L

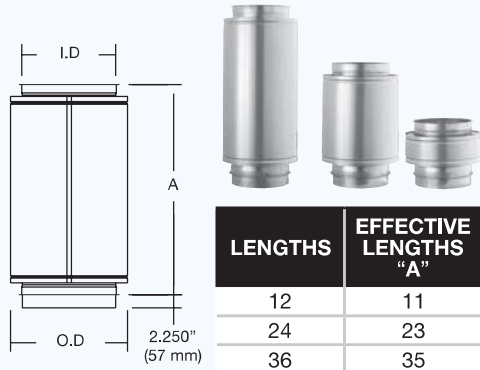
Available in 22 diameters from 6 to 48" (152 to 1219 mm). Standard lengths: 36" (914 mm), 24" (610 mm) and 12" (305 mm).

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)

$K = 0.30 L/D$

Where L = Pipe length in feet  
D = Pipe diameter in inches



**48" lengths available in 316 SS**

HEPLA • HEPL1 HEPL • HEPL2			
I.D.		O.D.	
in	mm	in	mm
6	152	10	254
8	203	12	305
10	254	14	356
12	305	16	406
14	356	18	457
16	406	20	508
18	457	22	559
20	508	24	610
22	559	26	660
24	610	28	711
26	660	30	762
28	711	32	813
30	762	34	864
32	813	36	914
34	864	38	965
36	914	40	1016
38	965	42	1067
40	1016	44	1118
42	1067	46	1168
44	1118	48	1219
46	1168	50	1270
48	1219	52	1321

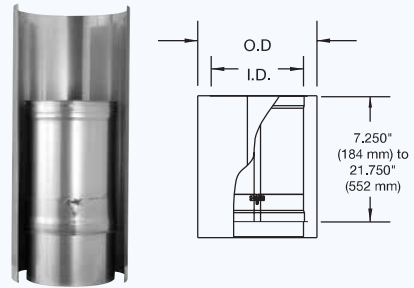
## ADJUSTABLE LENGTH • AL

Used to complete on site installation precisely. It is not designed to compensate for linear expansion nor to support the vertical load of the chimney.

**Includes:**

- 1 Assembly band (AB)
- 1 Outer wall 36" (914 mm) long
- 1 Strip of insulation for HEPL1 and HEPL2 systems

$K = \text{Same as pipe length}$



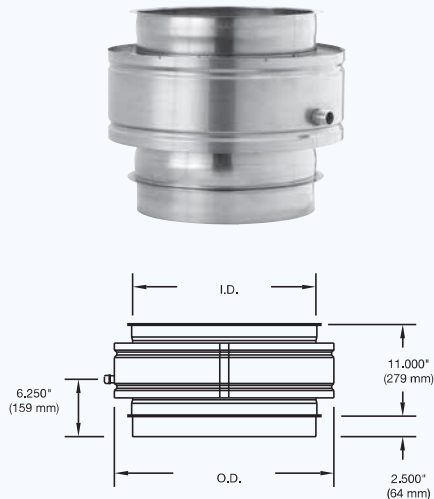
## DRAIN SECTION • DS

Used to collect rainwater or condensation water from inside vertical or horizontal flue. To be connected to a drain of 3/4" ø (19 mm) - NPT.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)

$K = \text{Same as pipe length}$



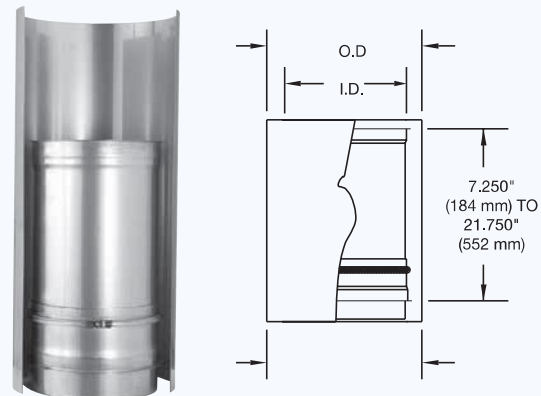
## VARIABLE LENGTH • VL

Used to absorb linear expansion between two fixed points on low pressure applications.

**Includes:**

- 1 Assembly band (AB)
- 1 Outer wall 36" (914mm) long
- 1 Strip of insulation for HEPL1 and HEPL2 systems

$K = \text{Same as pipe length}$



# TEES

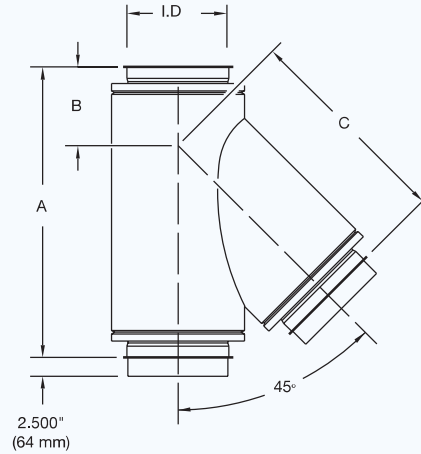
## 45° TEE • T45

For connection of vertical and horizontal lengths at a 45° angle. It provides low resistance to facilitate gas discharge. A tee cap (TC) or drain-tee cap (DC) may be used to block one of the cleaning or drainage openings.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)

K = 0.4



I.D.		HEPL • HEPL2						HEPLA • HEPL1					
		A		B		C		A		B		C	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
6	152	27.485	698	8.743	222	18.743	476	24.485	622	7.743	197	16.743	425
8	203	30.314	770	9.157	233	21.157	537	27.314	694	8.157	207	19.157	487
10	254	33.142	842	9.571	243	23.571	599	30.142	766	8.571	218	21.571	548
12	305	35.971	914	9.985	254	25.985	660	32.971	837	8.985	228	23.985	609
14	356	38.799	985	10.399	264	28.399	721	35.799	909	9.399	239	26.399	671
16	406	41.627	1057	10.814	275	30.814	783	38.627	981	9.814	249	28.814	732
18	457	44.456	1129	11.228	285	33.228	844	41.456	1053	10.228	260	31.228	793
20	508	47.284	1201	11.642	296	35.642	905	44.284	1125	10.642	270	33.642	855
22	559	50.113	1273	12.056	306	38.056	967	47.113	1197	11.056	281	36.056	916
24	610	52.941	1345	12.471	317	40.471	1028	49.941	1269	11.471	291	38.471	977
26	660	55.770	1417	12.885	327	42.885	1089	52.770	1340	11.885	302	40.885	1038
28	711	58.598	1488	13.299	338	45.299	1151	55.598	1412	12.299	312	43.299	1100
30	762	61.426	1560	13.713	348	47.713	1212	58.426	1484	12.713	323	45.713	1161
32	813	64.255	1632	14.127	359	50.127	1273	61.255	1556	13.127	333	48.127	1222
34	864	67.083	1704	14.542	369	52.542	1335	64.083	1628	13.542	344	50.542	1284
36	914	69.912	1776	14.956	380	54.956	1396	66.912	1700	13.956	354	52.956	1345
38	965	72.740	1848	15.370	390	57.370	1457	69.740	1771	14.370	365	55.370	1406
40	1016	75.569	1919	15.784	401	59.784	1519	72.569	1843	14.784	376	57.784	1468
42	1067	78.397	1991	16.198	411	62.198	1580	75.397	1915	15.198	386	60.198	1529
44	1118	81.225	2063	16.613	422	64.613	1641	78.225	1987	15.613	397	62.613	1590
46	1168	84.054	2135	17.027	432	67.027	1702	81.054	2059	16.027	407	65.027	1652
48	1219	86.882	2207	17.441	443	69.441	1764	83.882	2131	16.441	418	67.441	1713

# TEES

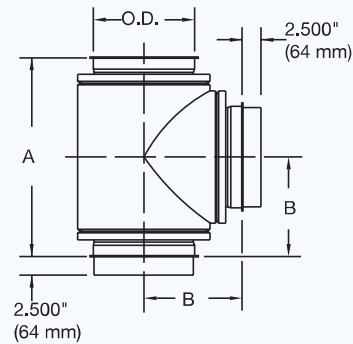
## 90° TEE • T90

For connection of vertical and horizontal lengths. May be used for the installation of a draft regulator at the point of connection between the flue and the appliance. A tee cap (TC) or drain-tee cap (DC) may be used to block one of the cleaning or drainage openings.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)

K = 1.25



I.D.		HEPL • HEPL2				HEPLA • HEPL1			
		A		B		A		B	
in	mm	in	mm	in	mm	in	mm	in	mm
6	152	19	438	9.500	241	17	432	8.500	216
8	203	21	533	10.500	267	19	483	9.500	241
10	254	23	584	11.500	292	21	533	10.500	267
12	305	25	635	12.500	318	23	584	11.500	292
14	356	27	686	13.500	343	25	635	12.500	318
16	406	29	737	14.500	368	27	686	13.500	343
18	457	31	787	15.500	394	29	737	14.500	368
20	508	33	838	16.500	419	31	787	15.500	394
22	559	35	889	17.500	445	33	838	16.500	419
24	610	37	940	18.500	470	35	889	17.500	445
26	660	39	991	19.500	495	37	940	18.500	470
28	711	41	1041	20.500	521	39	991	19.500	495
30	762	43	1092	21.500	546	41	1041	20.500	521
32	813	45	1143	22.500	572	43	1092	21.500	546
34	864	47	1194	23.500	597	45	1143	22.500	572
36	914	49	1245	24.500	622	47	1194	23.500	597
38	965	51	1295	25.500	648	49	1245	24.500	622
40	1016	53	1346	26.500	673	51	1295	25.500	648
42	1067	55	1397	27.500	699	53	1346	26.500	673
44	1118	57	1448	28.500	724	55	1397	27.500	699
46	1168	59	1499	29.500	749	57	1448	28.500	724
48	1219	61	1549	30.500	775	59	1499	29.500	749

# ELBOWS

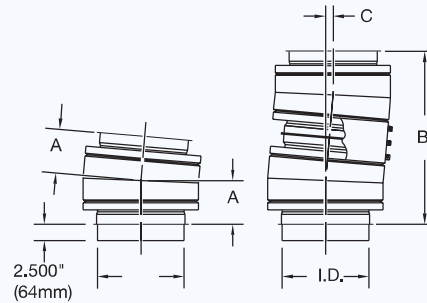
## 5° ELBOW • E5

Used to offset the flue or chimney by 5°.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)

K = 0.04



I.D.		HEPL • HEPL2						HEPLA • HEPL1					
		A		B		C		A		B		C	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
6	152	6.631	168	26.473	672	1.156	29	5.131	130	20.485	520	0.894	23
8	203	6.675	170	26.648	677	1.163	30	5.175	131	20.659	525	0.902	23
10	254	6.718	171	26.822	681	1.171	30	5.218	133	20.834	529	0.910	23
12	305	6.762	172	26.996	686	1.179	30	5.262	134	21.008	534	0.917	23
14	356	6.806	173	27.171	690	1.186	30	5.306	135	21.182	538	0.925	23
16	406	6.849	174	27.345	695	1.194	30	5.349	136	21.356	542	0.932	24
18	457	6.893	175	27.519	699	1.202	31	5.393	137	21.531	547	0.940	24
20	508	6.937	176	27.694	703	1.209	31	5.437	138	21.705	551	0.948	24
22	559	6.980	177	27.868	708	1.217	31	5.480	139	21.879	556	0.955	24
24	610	7.024	178	28.042	712	1.224	31	5.524	140	22.054	560	0.963	24
26	660	7.068	180	28.217	717	1.232	31	5.568	141	22.228	565	0.970	25
28	711	7.111	181	28.391	721	1.240	31	5.611	143	22.402	569	0.978	25
30	762	7.155	182	28.595	726	1.247	32	5.655	144	22.577	573	0.986	25
32	813	7.199	183	28.740	730	1.255	32	5.699	145	22.751	578	0.993	25
34	864	7.242	184	28.914	734	1.262	32	5.742	146	22.925	582	1.001	25
36	914	7.286	185	29.088	739	1.270	32	5.786	147	23.100	587	1.009	26
38	965	7.330	186	29.262	743	1.278	32	5.830	148	23.274	591	1.016	26
40	1016	7.373	187	29.437	748	1.285	33	5.873	149	23.448	596	1.024	26
42	1067	7.417	188	29.611	752	1.293	33	5.917	150	23.622	600	1.031	26
44	1118	7.461	189	29.785	757	1.300	33	5.961	151	23.797	604	1.039	26
46	1168	7.504	191	29.960	761	1.308	33	6.004	153	23.971	609	1.047	27
48	1219	7.548	192	30.134	765	1.316	33	6.048	154	24.145	613	1.054	27

# ELBOWS

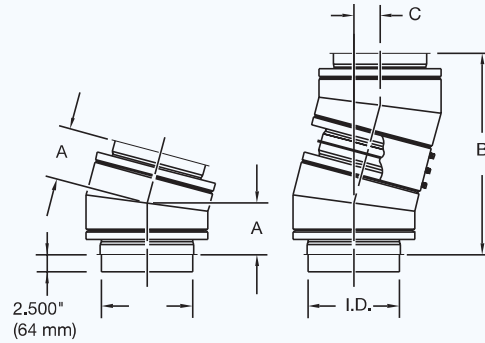
## 15° ELBOW • E15

Used to offset the flue or chimney by 15°.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)

K = 0.06



I.D.		HEPL • HEPL2						HEPLA • HEPL1					
		A		B		C		A		B		C	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
6	152	6.895	175	27.110	689	3.569	91	5.395	137	21.212	539	2.793	71
8	203	7.027	178	27.628	702	3.637	92	5.527	140	21.730	552	2.861	73
10	254	7.158	182	28.145	715	3.705	94	5.658	144	22.247	565	2.929	74
12	305	7.290	185	28.663	728	3.774	96	5.790	147	22.765	578	2.997	76
14	356	7.422	189	29.181	741	3.842	98	5.922	150	23.283	591	3.065	78
16	406	7.553	192	29.698	754	3.910	99	6.053	154	23.800	605	3.133	80
18	457	7.685	195	30.216	767	3.978	101	6.183	157	24.318	618	3.202	81
20	508	7.817	199	30.733	781	4.046	103	6.317	160	24.836	631	3.270	83
22	559	7.948	202	31.251	794	4.114	105	6.448	164	25.353	644	3.338	85
24	610	8.080	205	31.769	807	4.182	106	6.580	167	25.871	657	3.406	87
26	660	8.211	209	32.804	820	4.251	108	6.711	170	26.389	670	3.474	88
28	711	8.343	212	32.322	833	4.319	110	6.843	174	26.906	683	3.542	90
30	762	8.475	215	33.322	846	4.387	111	6.975	177	27.424	697	3.610	92
32	813	8.606	219	33.839	860	4.455	113	7.106	181	27.941	710	3.679	93
34	864	8.738	222	34.357	873	4.523	115	7.238	184	28.459	723	3.747	95
36	914	8.870	225	34.875	886	4.591	117	7.370	187	28.977	736	3.815	97
38	965	9.001	229	35.392	899	4.659	118	7.501	191	29.494	749	3.883	99
40	1016	9.133	232	35.910	912	4.728	120	7.633	194	30.012	762	3.951	100
42	1067	9.265	235	36.427	925	4.796	122	7.765	197	30.530	775	4.019	102
44	1118	9.396	239	36.945	938	4.864	124	7.896	201	31.047	789	4.087	104
46	1168	9.528	242	37.463	952	4.932	125	8.028	204	31.565	802	4.156	106
48	1219	9.660	245	37.980	965	5.000	127	8.160	207	32.083	815	4.224	107

# ELBOWS

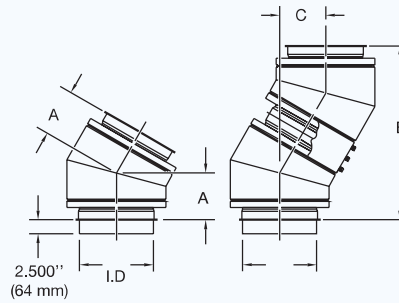
## 30° ELBOW • E30

Used to offset the flue or chimney by 30°.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)

K = 0.12



I.D.		HEPL • HEPL2						HEPLA • HEPL1					
		A		B		C		A		B		C	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
6	152	7.304	186	27.258	692	7.304	186	5.804	147	21.660	550	5.804	147
8	203	7.572	192	28.258	718	7.527	192	6.072	154	22.660	576	6.072	154
10	254	7.894	199	29.258	743	7.84	199	6.340	161	23.660	601	6.340	161
12	305	8.108	206	30.258	769	8.108	206	6.608	168	24.660	626	6.608	168
14	356	8.376	213	31.258	794	8.376	213	6.876	175	25.660	652	6.876	175
16	406	8.644	220	32.258	819	8.644	220	7.144	181	26.660	677	7.144	181
18	457	8.912	226	33.258	845	8.912	226	7.412	188	27.660	703	7.412	188
20	508	9.179	233	34.258	870	9.179	226	7.679	195	28.660	728	7.679	195
22	559	9.447	240	35.258	896	9.447	240	7.947	202	29.660	753	7.947	202
24	610	9.715	247	36.258	921	9.715	247	8.215	209	30.660	779	8.215	209
26	660	9.983	254	37.258	946	9.983	254	8.483	215	31.660	804	8.483	215
28	711	10.251	260	38.258	972	10.251	260	8.751	222	32.660	830	8.751	222
30	762	10.519	267	39.258	997	10.519	267	9.019	229	33.660	855	9.019	229
32	813	10.787	274	40.258	1023	10.787	274	9.287	236	34.660	880	9.287	236
34	864	11.055	281	41.258	1048	11.055	281	9.555	243	35.660	906	9.555	243
36	914	11.323	288	42.258	1073	11.323	288	9.823	250	36.660	931	9.823	250
38	965	11.591	294	43.258	1099	11.591	294	10.091	256	37.660	957	10.091	256
40	1016	11.859	301	44.258	1124	11.859	301	10.359	263	38.660	982	10.359	263
42	1067	12.127	308	45.258	1150	12.127	308	10.627	270	39.660	1007	10.627	270
44	1118	12.395	315	46.258	1175	12.395	315	10.895	277	40.660	1033	10.895	277
46	1168	12.663	322	47.258	1200	12.663	322	11.163	284	41.660	1058	11.163	284
48	1219	12.931	328	48.258	1226	12.931	328	11.431	290	42.660	1084	11.431	290

# ELBOWS

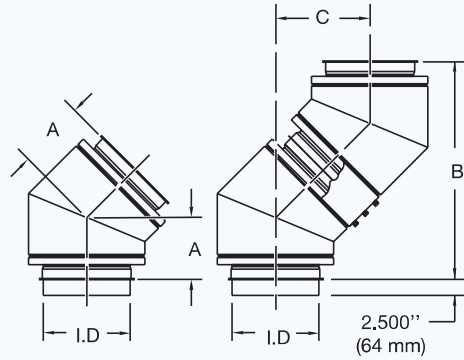
## 45° ELBOW • E45

Used to offset the flue or chimney by 45°.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)

K = 0.15



I.D.		HEPL • HEPL2						HEPLA • HEPL1					
		A		B		C		A		B		C	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
6	152	26.235	666	6.993	178	19.243	489	6.243	159	21.314	541	8.828	224
8	203	19.064	738	7.407	188	21.657	550	6.657	169	22.728	577	9.414	239
10	254	31.892	810	7.821	199	24.071	611	7.071	180	24.142	613	10.000	254
12	305	34.721	882	8.235	209	26.485	673	7.485	190	25.556	649	10.586	269
14	356	37.549	954	8.649	220	28.889	734	7.899	201	26.971	685	11.172	284
16	406	40.377	1026	9.024	230	31.314	795	8.314	211	28.385	721	11.757	299
18	457	43.206	1097	9.478	241	33.728	857	8.728	222	29.799	757	12.343	314
20	508	46.034	1169	9.892	251	36.142	918	9.142	232	31.213	793	12.929	328
22	559	48.863	1241	10.306	262	38.556	979	9.556	243	32.627	829	13.515	343
24	610	51.691	1313	10.721	272	40.971	1041	9.971	253	34.042	865	14.101	358
26	660	54.520	1385	11.135	283	43.385	1102	10.385	264	35.456	901	14.686	373
28	711	57.348	1457	11.549	293	45.799	1163	10.799	274	36.870	936	15.272	388
30	762	60.176	1528	11.963	304	48.213	1225	11.213	285	38.284	972	15.858	403
32	813	63.005	1600	12.377	314	50.627	1286	11.627	295	39.698	1008	16.444	418
34	864	65.833	1672	12.792	325	53.042	1347	12.042	306	41.113	1044	17.029	433
36	914	68.662	1744	13.206	335	55.456	1409	12.456	316	42.527	1080	17.615	447
38	965	71.490	1816	13.260	346	57.870	1470	12.870	327	43.941	1116	18.201	462
40	1016	74.319	1888	14.034	356	60.284	1531	13.284	337	45.355	1152	18.787	477
42	1067	77.147	1960	14.448	367	62.628	1593	13.698	348	46.770	1188	19.373	492
44	1118	79.975	2031	14.863	378	65.113	1654	14.113	358	48.184	1224	19.958	507
46	1168	82.804	2103	15.277	388	67.527	1715	14.527	369	49.598	1260	20.544	522
48	1219	85.632	2175	15.691	399	69.941	1777	14.941	380	51.012	1296	21.13	537



# ELBOWS

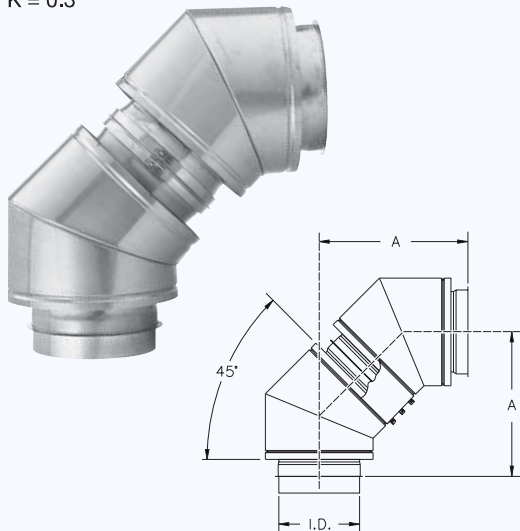
## 90° ELBOW • 2 x E45

Used to change orientation of flue or chimney by 90°.

**Includes:**

- 2 45° Elbows (E45)
- 2 Assembly bands (AB)
- 2 Finishing bands (FB)

K = 0.3



I.D.		HEPL • HEPL2		HEPLA • HEPL1	
		A		A	
in	mm	in	mm	in	mm
6	152	18.692	475	15.071	383
8	203	19.692	500	16.071	408
10	254	20.692	526	17.071	434
12	305	21.692	551	18.071	459
14	356	22.692	576	19.071	484
16	406	23.692	602	20.071	510
18	457	24.693	627	21.071	535
20	508	25.692	653	22.071	561
22	559	26.692	678	23.071	588
24	610	27.692	703	24.071	611
26	660	28.692	729	25.071	637
28	711	29.692	754	26.071	662
30	762	30.692	780	27.071	688
32	813	31.692	805	28.071	713
34	864	32.692	830	29.071	738
36	914	33.692	856	30.071	764
38	965	34.692	881	31.071	790
40	1016	35.692	907	32.071	815
42	1067	36.692	932	33.071	840
44	1118	37.692	957	34.071	865
46	1168	38.692	983	35.071	891
48	1219	36.692	1008	36.071	918

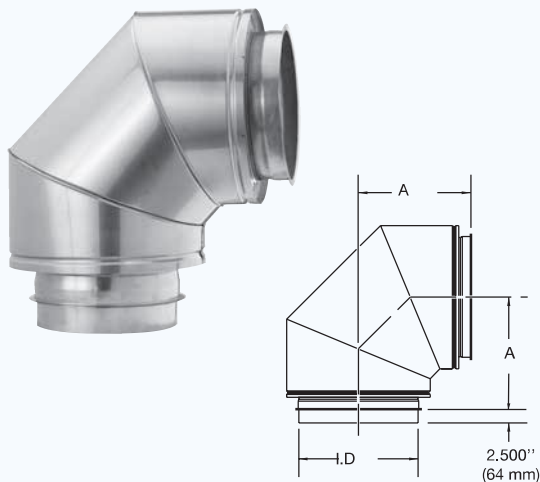
## 90° SHORT RADIUS ELBOW • E90

Used to change orientation of flue or chimney by 90°.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)

K = 0.3



I.D.		HEPL • HEPL2		HEPLA • HEPL1	
		A		A	
in	mm	in	mm	in	mm
6	152	12.328	313	10.121	257
8	203	13.328	339	11.121	282
10	254	14.328	364	12.121	308
12	305	15.328	389	13.121	333
14	356	16.328	415	14.121	350
16	406	17.328	440	15.121	384
18	457	18.328	466	16.121	409
20	508	19.328	491	17.121	435
22	559	20.328	516	18.121	460
24	610	21.328	542	19.121	486
26	660	22.328	567	20.121	511
28	711	23.328	593	21.121	538
30	762	24.328	618	22.121	562
32	813	25.328	643	23.121	587
34	864	26.328	669	24.121	613
36	914	27.328	694	25.121	638
38	965	28.328	720	26.121	663
40	1016	29.328	745	27.121	689
42	1067	30.328	770	28.121	714
44	1118	31.328	796	29.121	740
46	1168	32.328	821	30.121	765
48	1219	33.328	847	31.121	790

# FITTINGS

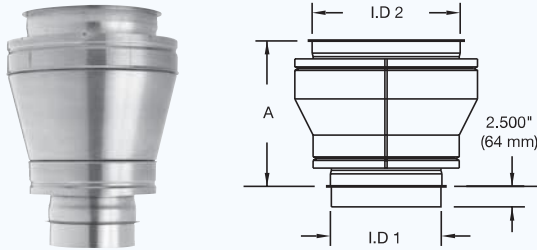
## INCREASER • I

Used to increase the diameter of the flue or chimney. Specify the diameter of the inlet and outlet of the fitting.

**Includes:**

- 1 Assembly band (I.D. 2) (AB)
- 1 Finishing band (O.D. 2) (FB)

$$K = 0.5 \left( 1 - \left( \frac{I.D.1}{I.D.2} \right)^2 \right)^2$$



Difference between I.D. 2 - I.D. 1	HEP • HEPLA • HEPL HEPL1 • HEPL2 Dim. A	
	in	mm
2	15.000	381
4	19.000	483
6	23.000	585
8	27.000	687
10	31.000	789

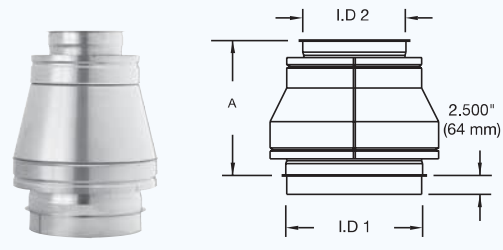
## REDUCER • R

Used to reduce the diameter of the flue. Specify the diameter of the inlet and outlet of the fitting.

**Includes:**

- 1 Assembly band (I.D. 2) (AB)
- 1 Finishing band (O.D. 2) (FB)

$$K = 0.5 \left( 1 - \left( \frac{I.D.1}{I.D.2} \right)^2 \right)^2$$



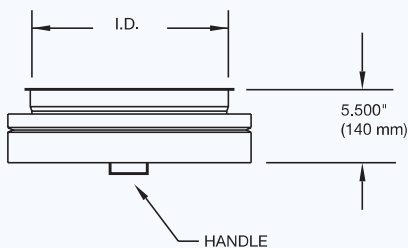
Difference between I.D. 2 - I.D. 1	HEP • HEPLA • HEPL HEPL1 • HEPL2 Dim. A	
	in	mm
2	15.000	381
4	19.000	483
6	23.000	585
8	27.000	687
10	31.000	789

## TEE CAP • TC

Used to block one of the openings of horizontal or vertical tee. Removable, it facilitates access for inspection and maintenance of the chimney.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (AB)

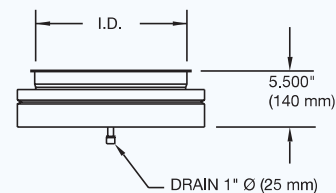


## DRAIN-TEE CAP • DC

Used to cover one of the vertical openings of tee. For collection of rainwater or condensation water. Removable, it facilitates access for inspection and maintenance of the chimney. To be connected to a drain of 3/4 ø (19 mm) - NPT.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)



# SUPPORTS

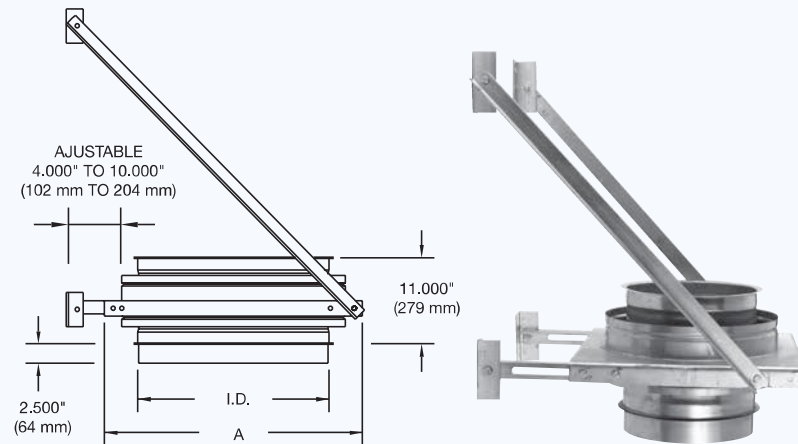
## WALL SUPPORT • WS

Used to support the chimney in vertical runs. It keeps the chimney at an adjustable distance between 4" (102 mm) and 10" (254 mm) from the wall. The oblique braces may be attached to the wall either above or below the supporting surface.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)
- 2 Adjustable angles
- 2 Braces
- 4 Wall brackets

K = Same as pipe length



I.D.		HEPL HEPL2		HEPLA HEPL1	
		A		A	
in	mm	in	mm	in	mm
6	152	14.000	356	12	305
8	203	16.000	406	14	356
10	254	18.000	457	16	406
12	305	20.000	508	18	457
14	356	22.000	559	20	508
16	406	24.000	610	22	559
18	457	26.000	660	24	610
20	508	28.000	711	26	660
22	559	30.000	762	28	711
24	610	32.000	813	30	762
26	660	34.000	864	32	813
28	711	36.000	914	34	864
30	762	38.000	965	36	914
32	813	40.000	1016	38	965
34	864	42.000	1067	40	1016
36	914	44.000	1118	42	1067
38	965	46.000	1168	44	1118
40	1016	48.000	1219	46	1168
42	1067	50.000	1270	48	1219
44	1118	52.000	1321	50	1270
46	1168	54.000	1372	52	1321
48	1219	56.000	1422	54	1372

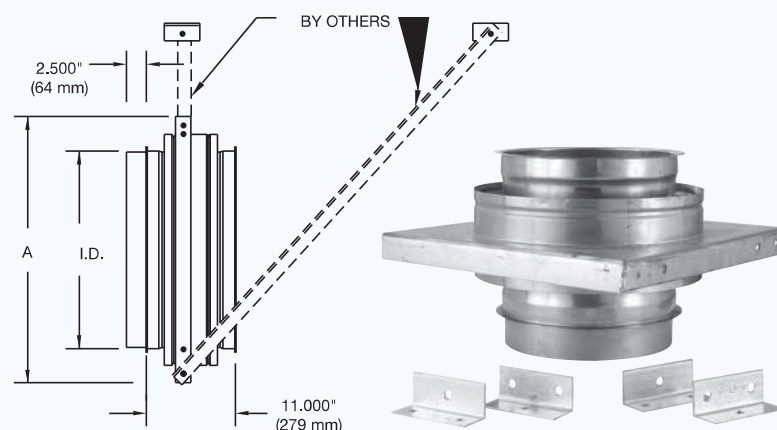
## HORIZONTAL SUPPORT • HS

Used to support the flue in horizontal runs. It keeps the flue at an adjustable distance from the ceiling. The oblique braces (not included) may be attached to the ceiling either ahead of or behind the supporting surface.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)
- 4 Wall brackets

K = Same as pipe length



I.D.		HEPL HEPL2		HEPLA HEPL1	
		A		A	
in	mm	in	mm	in	mm
6	152	14.000	356	12	305
8	203	16.000	406	14	356
10	254	18.000	457	16	406
12	305	20.000	508	18	457
14	356	22.000	559	20	508
16	406	24.000	610	22	559
18	457	26.000	660	24	610
20	508	28.000	711	26	660
22	559	30.000	762	28	711
24	610	32.000	813	30	762
26	660	34.000	864	32	813
28	711	36.000	914	34	864
30	762	38.000	965	36	914
32	813	40.000	1016	38	965
34	864	42.000	1067	40	1016
36	914	44.000	1118	42	1067
38	965	46.000	1168	44	1118
40	1016	48.000	1219	46	1168
42	1067	50.000	1270	48	1219
44	1118	52.000	1321	50	1270
46	1168	54.000	1372	52	1321
48	1219	56.000	1422	54	1372

# SUPPORTS

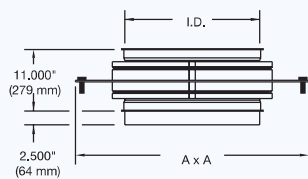
## ANCHOR PLATE • AP

Used to support the chimney in vertical runs. It is attached to the floor by means of anchors (not included). It is designed to be supported on four (4) sides. Structural angles may be used to support sides that are unsupported.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band (FB)

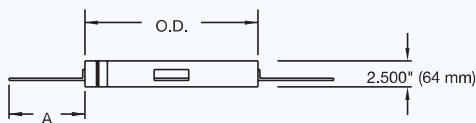
K = Same as pipe length



I.D.		HEPL • HEPL2		HEPLA • HEPL1	
		A		A	
in	mm	in	mm	in	mm
6	152	22.000	559	20.0	508
8	203	24.000	610	22.0	559
10	254	26.000	660	24.0	610
12	305	28.000	711	26.0	660
14	356	30.000	762	28.0	711
16	406	32.000	813	30.0	762
18	457	34.000	864	32.0	813
20	508	36.000	914	34.0	864
22	559	38.000	965	36.0	914
24	610	40.000	1016	38.0	965
26	660	42.000	1068	40.0	1018
28	711	44.000	1118	42.0	1067
30	762	46.000	1168	44.0	1118
32	813	48.000	1219	46.0	1168
34	864	50.000	1270	48.0	1219
36	914	52.000	1321	50.0	1270
38	965	54.000	1372	52.0	1321
40	1016	56.000	1422	54.0	1372
42	1067	58.000	1473	56.0	1422
44	1118	60.000	1524	58.0	1473
46	1168	62.000	1575	60.0	1524
48	1219	64.000	1626	62.0	1575

## ROOF SUPPORT • RS

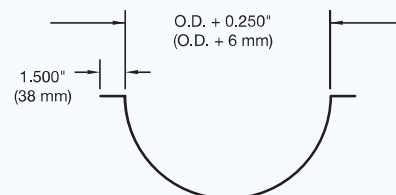
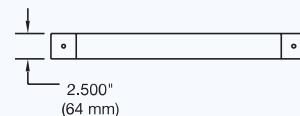
Used to support and guide the portion of the chimney which extends to the roof. It is attached to the roof curb by means of four (4) angles. It keeps a minimum distance between the chimney and combustible materials at the roof.



HEP • HEPL • HEPL2				HEPLA • HEPL1			
I.D.		A		I.D.		A	
in	mm	in	mm	in	mm	in	mm
6 to 14"	152 to 356	5.250	133	6 to 16"	152 to 406	5.25	133
16 to 22"	406 to 559	7.250	184	18 to 24"	457 to 610	7.25	184
24 to 32"	610 to 813	9.250	235	26 to 34"	660 to 864	9.25	235
34 to 42"	965 to 1067	11.250	286	36 to 44"	914 to 1118	11.25	286
44 to 48"	1118 to 1219	13.250	337	46 to 48"	1169 to 1219	13.25	337

## HANGER BRACKET • HB

Used to support the flue in horizontal runs. To be installed by means of 3/8" ø (19 mm) threaded rods (not included). Generally installed every 5'-0" (1525 mm).



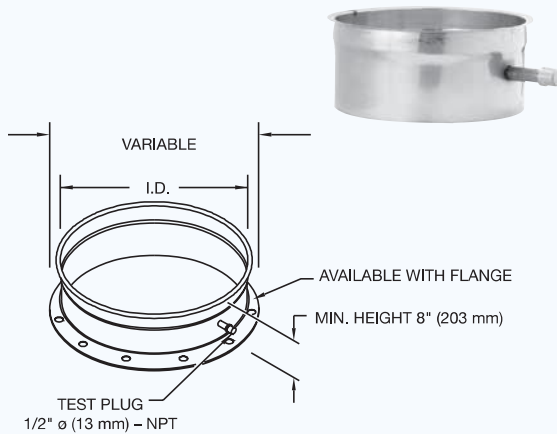
# SUPPORTS AND ADAPTERS

## STARTING ADAPTER • SA

Used to connect the flue to the appliance. It allows for sampling of the gases by means of a test plug.  
Available with ANSI 150 lb flange.

**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band 8" (203 mm) (FB)
- 1 2" wide flange
- 1 Insulation strip for HEPL1, HEPL2 systems



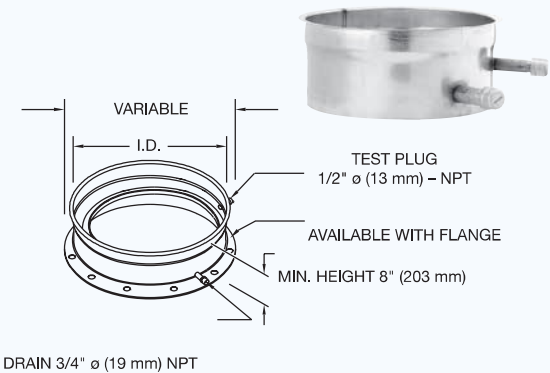
## STARTING ADAPTER-DRAIN • SAD

Used to connect the flue to the appliance. It allows for sampling of the gases by means of a test plug, and collection of condensation water by means of a drain and an elliptical collar. To be connected to a 1/2"ø (13 mm) - 3/4"ø (19 mm) – NPT drain.

Available with ANSI 150 lb flange.

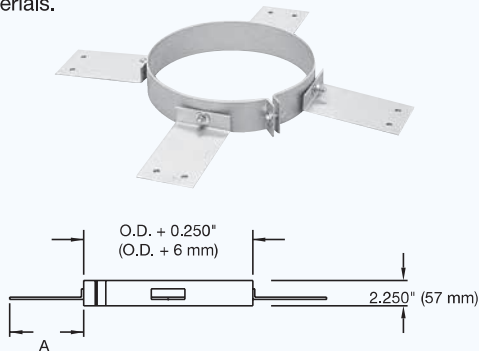
**Includes:**

- 1 Assembly band (AB)
- 1 Finishing band 8" (203 mm) (FB)
- 1 2" wide flange
- 1 Insulation strip for HEPL1, HEPL2 systems



## FLOOR GUIDE • FG

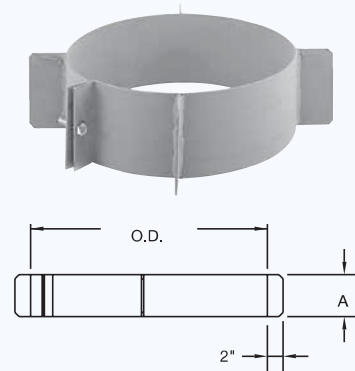
Used as a guide at floor penetrations. It is attached to the floor by means of four (4) angles. It keeps a minimum distance between the chimney and combustible floor materials.



HEP • HEPLA • HEPL • HEPL1 • HEPL2			
I.D.		A	
in	mm	in	mm
6 to 14"	152 to 356	5.250	133
16 to 22"	406 to 559	7.250	184
24 to 32"	610 to 813	9.250	235
34 to 42"	965 to 1067	11.250	286
44 to 48"	1118 to 1219	13.250	337

## GUIDING SPACER • GS

Used to guide the flue or the chimney against the inner wall of the sleeves it passes through. It holds the chimney at a distance of 2" (51 mm) from the wall firestop (WFS), insulated wall firestop (IFS) or an insulated sleeve (IS).



HEP • HEPL • HEPL2		HEPLA • HEPL1		
I.D.		A	I.D.	
in	mm	in mm	in mm	
6 to 16"	152 to 406	4.000 102	6 to 18"	152 to 457
18 to 36"	457 to 914	6.000 152	20 to 38"	508 to 965
38 to 48"	965 to 1219	8.000 203	40 to 48"	1016 to 1219

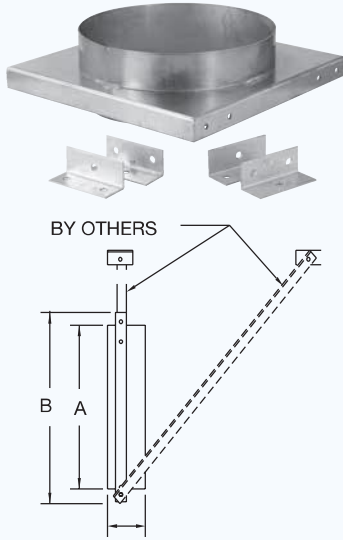
# GUIDES

## WALL GUIDE • WG

Used as a guide and to allow for expansion of the flue or chimney. It may be used either horizontally or vertically. The oblique braces (not included) may be attached above or below the guide plate.

**Includes:**

4 Wall brackets



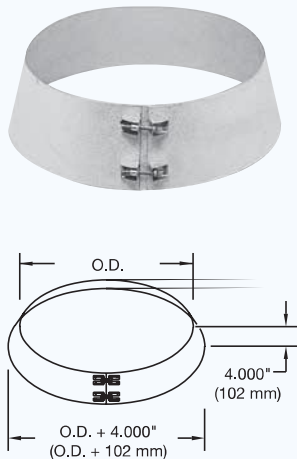
I.D.		HEPL • HEPL2				HEPLA • HEPL1			
		A		B		A		B	
in	mm	in	mm	in	mm	in	mm	in	mm
6	152	10.250	260	14.000	356	8.250	210	12.000	305
8	203	12.250	311	16.000	406	10.250	260	14.000	356
10	254	14.250	362	18.000	457	12.250	311	16.000	406
12	305	16.250	413	20.000	508	14.250	362	18.000	457
14	356	18.250	464	22.000	559	16.250	413	20.000	508
16	406	20.250	514	24.000	610	18.250	464	22.000	559
18	457	22.250	565	26.000	660	20.250	514	24.000	610
20	508	24.250	616	28.000	711	22.250	566	26.000	660
22	559	26.250	667	30.000	762	24.250	616	28.000	711
24	610	28.250	718	32.000	813	26.250	667	30.000	762
26	660	30.250	768	34.000	864	28.250	718	32.000	813
28	711	32.250	819	36.000	914	30.250	768	34.000	864
30	762	34.250	870	38.000	965	32.250	819	36.000	914
32	813	36.250	921	40.000	1016	34.250	870	38.000	965
34	864	38.250	972	42.000	1068	36.250	921	40.000	1016
36	914	40.250	1022	44.000	1118	38.250	972	42.000	1067
38	965	42.250	1073	46.000	1168	40.250	1022	44.000	1118
40	1016	44.250	1124	48.000	1219	42.250	1073	46.000	1168
42	1067	46.250	1175	50.000	1270	44.250	1124	48.000	1219
44	1118	48.250	1226	52.000	1321	46.250	1175	50.000	1270
46	1168	50.250	1276	54.000	1372	48.250	1226	52.000	1321
48	1219	52.250	1327	56.000	1422	50.250	1276	54.000	1372

## STORM COLLAR • SC

Used to seal the space between the chimney and flashing. The storm collar must be sealed to the chimney with appropriate sealant. It is supplied with flashing for flat roofs of adjustable flashing.

**Includes:**

1 Socket head cap screws

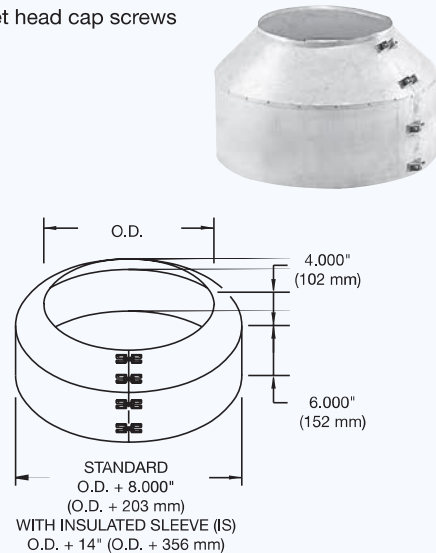


## VENTILATED COLLAR • VC

Used to seal the space between the chimney and flashing. The ventilated collar must be sealed to the chimney with appropriate sealant. It is supplied with ventilated flashing.

**Includes:**

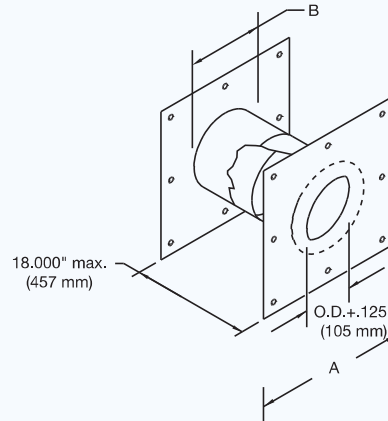
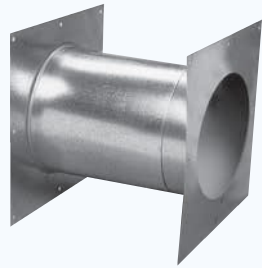
1 Socket head cap screws



# FIRESTOPS AND GUIDES

## WALL FIRESTOP • WFS

Used to keep a minimum clearance from combustible materials where the flue passes through a wall.



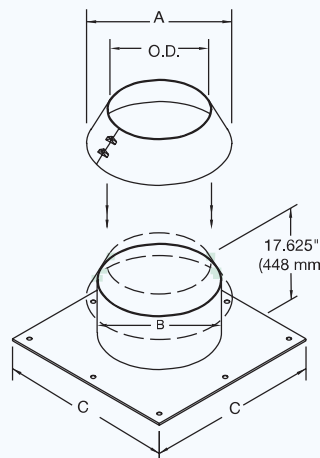
HEP, HEPLA, HEPL, HEPL1, HEPL2  
 $A = O.D. + 2 * Clearance + 8$   
 $B = O.D. + *Clearance$

## RADIANT FIRESTOP • RFS

Used to protect combustible materials where a chimney passes through an attic. It ensures a minimum distance from combustible materials.

**Includes:**

1 Protecting collar

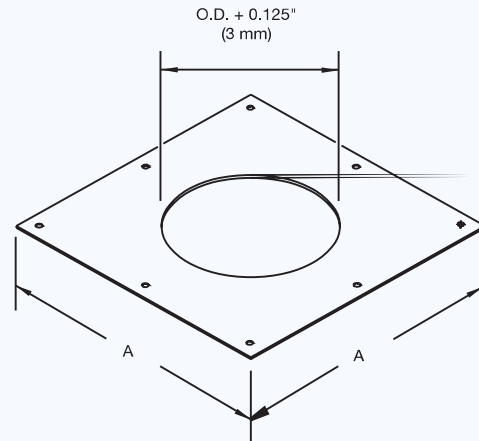
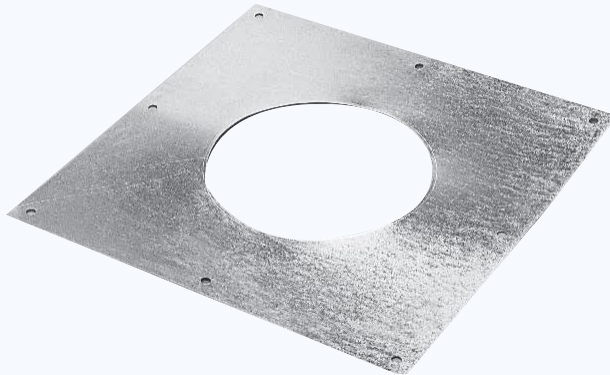


HEP, HEPL, HEPLA, HEPL1, HEPL2  
 $A = O.D. + 2 * Clearance + 4$   
 $B = O.D. + 2 * Clearance$   
 $C = O.D. + 2 * Clearance + 12$

# FIRESTOPS

## FIRESTOP • FS

Used to keep space between any combustible material of a wall, floor or roof, where a flue or chimney penetrates.



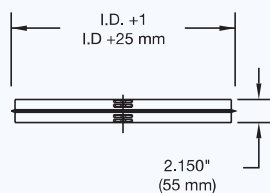
**HEP, HEPLA, HEPL, HEPL1, HEPL2**  
 $A = O.D. + 2 \cdot \text{Clearance} + 8$

## ASSEMBLY BAND • AB

Used to assemble the inner walls of two components. Ensures sealing and rigidity of the system. To be used with a Low (LTS) or a High Temperature Sealant (HTS) (see assembly details).

**Includes:**

- 2 Hexagonal screws
- 2 Square nuts

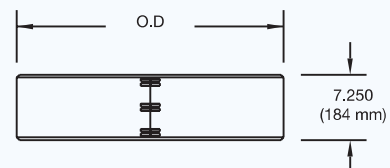


## FINISHING BAND • FB

Used to assemble the outer walls of two components. Ensures sealing and rigidity of double wall systems. To be used with an Exterior Sealant (ES) on outside exposed parts.

**Includes:**

- 3 Hexagonal screws
- 3 Square nuts
- 1 Insulation strip for HEPL1, HEPL2 systems





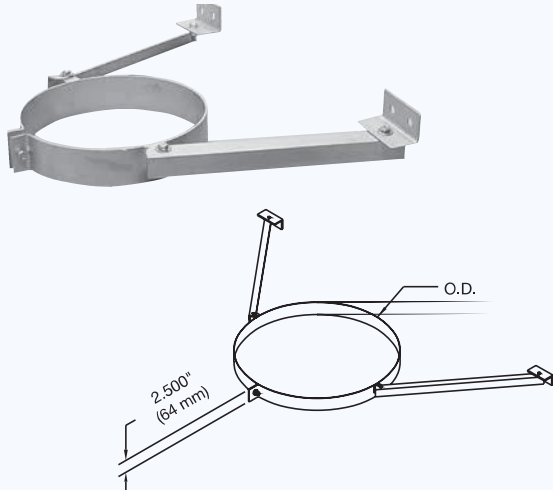
# BANDS

## WALL BAND • WB

Used to stabilize the chimney along a vertical wall. For maximum recommended spacing between wall bands, see our installation manual.

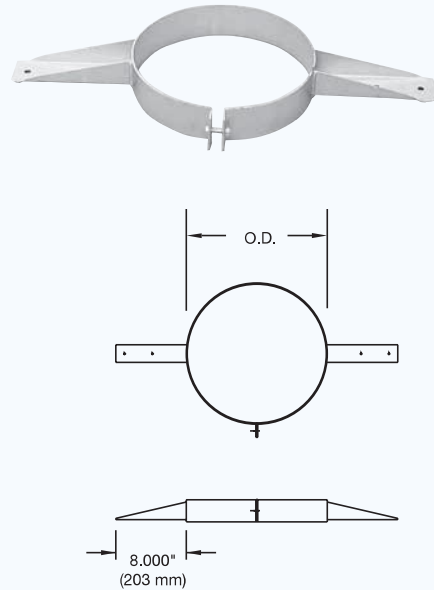
**Includes:**

- 1 Wall bracket
- 1 Stabilizing angle



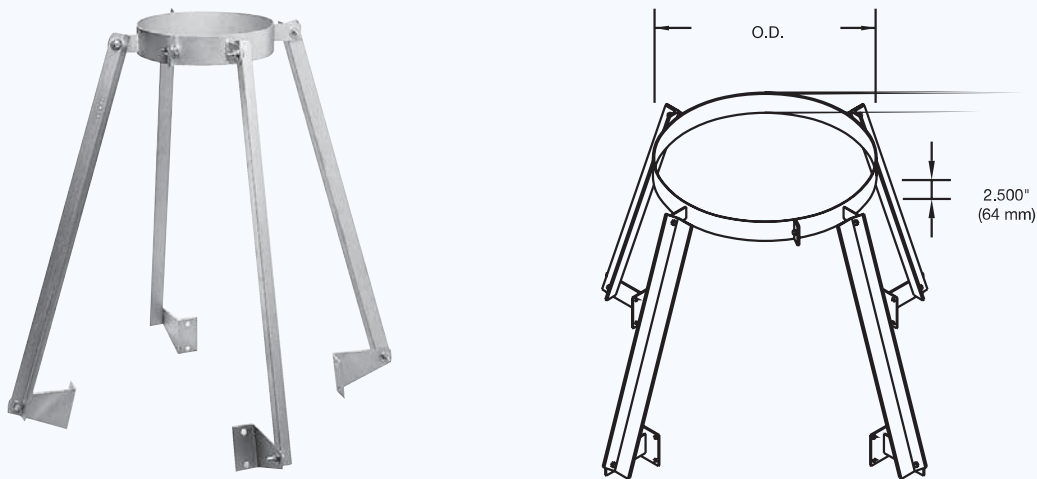
## SUSPENSION BAND • SB

Used to stabilize and support a flue or chimney in vertical runs. It avoids the transfer of the flue weight to the appliance. To be used with threaded rods (not included).



## ROOF BAND • RB

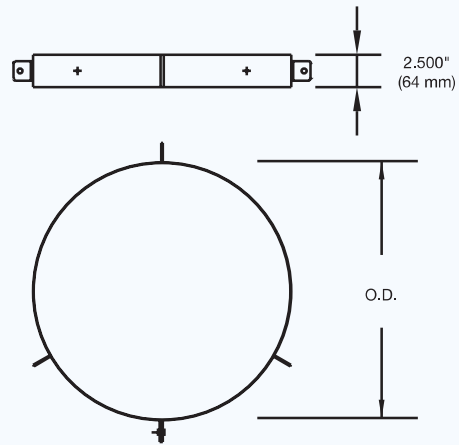
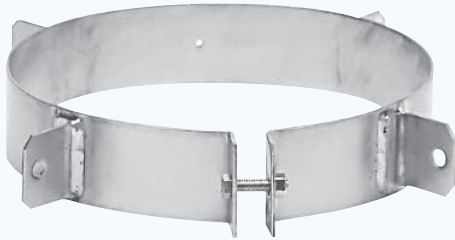
Used to stabilize a chimney laterally where it extends more than 10'-0" (3048 mm) above the roof or for locations exposed to strong winds. It is attached to the chimney and the roof curb and does not require anchoring to the roof.



## BANDS AND FLASHING

### GUY WIRE BAND • GWB

Used to stabilize a chimney laterally where it extends more than 10'-0" (3048 mm) above the roof or for locations exposed to strong winds. It is attached to the chimney and is designed to receive 3 guy wires 120° apart (not included). It may be manufactured to receive 4 guy wires 90° apart.

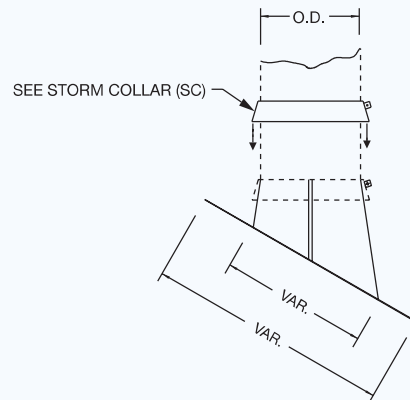


### ADJUSTABLE FLASHING • AF

Used to seal the space between the chimney and the roof. Specify the roof slope when ordering.

**Includes:**

- 1 Storm collar (SC)



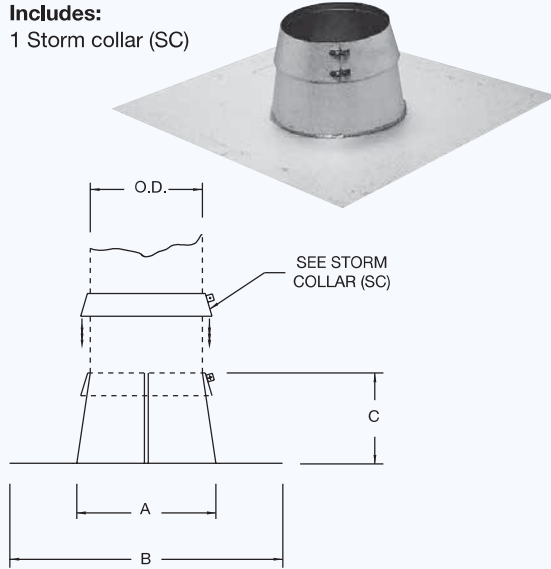
# FLASHINGS

## FLAT FLASHING • F

Used to seal the space between the chimney and the roof.

**Includes:**

- 1 Storm collar (SC)



**HEP, HEPLA, HEPL, HEPL1, HEPL2 :**  
**B = O.D. + 2\*Clearance +16**

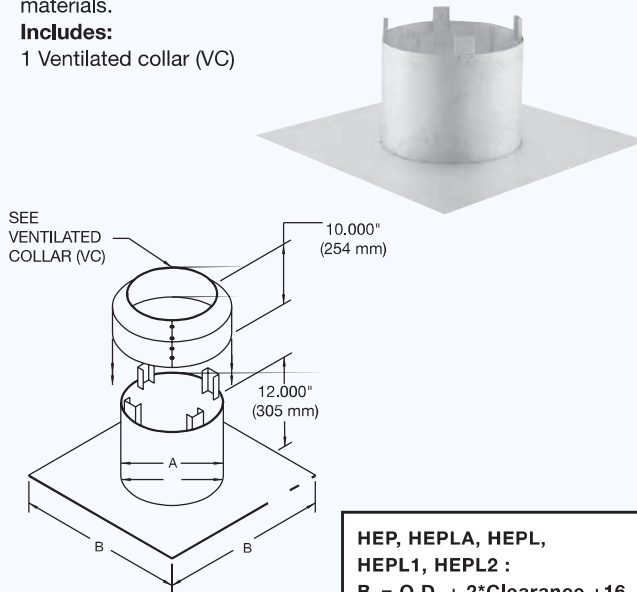
I.D.		HEPL • HEPL2						HEPLA • HEPL1					
		A		B		C		A		B		C	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
6	152	13	330	32	813	12	305	13	330	26	660	12	305
8	203	15	380	36	914	12	305	15	380	28	711	12	305
10	254	17	432	38	965	12	305	17	432	30	762	12	305
12	305	19	483	42	1067	12	305	19	483	32	813	12	305
14	356	21	533	44	1118	12	305	21	533	36	914	12	305
16	406	23	584	46	1168	12	305	23	584	38	965	12	305
18	457	25	635	50	1270	12	305	25	635	40	1016	12	305
20	508	27	686	52	1321	12	305	27	686	42	1067	16	406
22	559	29	737	56	1422	12	305	29	737	46	1168	16	406
24	610	31	787	58	1473	12	305	31	787	48	1219	16	406
26	660	33	838	62	1575	12	305	33	838	50	1270	16	406
28	711	35	889	64	1626	12	305	35	889	52	1321	16	406
30	762	37	940	66	1676	16	406	37	940	54	1372	16	406
32	813	39	991	70	1778	16	406	39	991	56	1422	16	406
34	864	41	1041	72	1829	16	406	41	1041	60	1524	16	406
36	914	43	1092	76	1930	16	406	43	1092	62	1575	16	406
38	965	45	1143	78	1981	16	406	45	1143	64	1626	16	406
40	1016	47	1194	80	2032	16	406	47	1194	66	1676	16	406
42	1067	49	1245	84	2134	16	406	49	1245	68	1727	16	406
44	1118	51	1295	86	2184	16	406	51	1295	70	1778	16	406
46	1168	53	1346	88	2235	16	406	53	1346	74	1880	16	406
48	1219	55	1397	92	2337	16	406	55	1397	76	1930	16	406

## VENTILATED FLASHING • VF

Used to seal and ventilate the space between the chimney and the roof. It reduces the temperature around the roof opening and it prevents excessive accumulation of heat near combustible materials.

**Includes:**

- 1 Ventilated collar (VC)



**HEP, HEPLA, HEPL, HEPL1, HEPL2 :**  
**B = O.D. + 2\*Clearance +16**

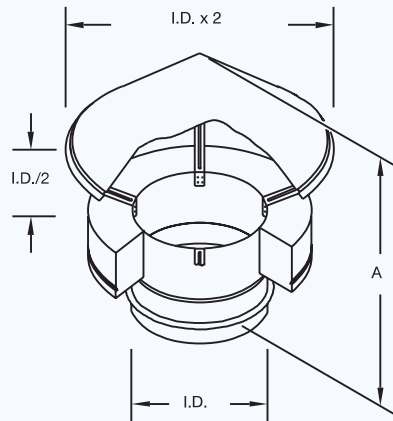
I.D.		HEPLA • HEPL1				HEPL • HEPL2			
		A		B		A		B	
in	mm	in	mm	in	mm	in	mm	in	mm
6	152	12.125	308	26	660	12.125	308	32	813
8	203	14.125	359	28	711	14.125	359	36	914
10	254	16.125	410	31	787	16.125	410	38	965
12	305	18.125	460	33	838	18.125	460	42	1067
14	356	20.125	511	36	914	20.125	511	44	1118
16	406	22.125	562	38	965	22.125	562	46	1168
18	457	24.125	613	40	1016	24.125	613	50	1270
20	508	26.125	664	42	1067	26.125	664	52	1321
22	559	28.125	714	46	1168	28.125	714	56	1422
24	610	30.125	765	48	1219	30.125	765	58	1473
26	660	32.125	816	50	1270	32.125	816	62	1575
28	711	34.125	867	52	1321	34.125	867	64	1626
30	762	36.125	918	54	1372	36.125	918	66	1676
32	813	38.125	968	56	1422	38.125	968	70	1778
34	864	40.125	1019	60	1524	40.125	1019	72	1829
36	914	42.125	1070	62	1575	42.125	1070	76	1930
38	965	44.125	1121	64	1626	44.125	1121	78	1981
40	1016	46.125	1172	66	1676	46.125	1172	80	2032
42	1067	48.125	1222	68	1727	48.125	1222	84	2134
44	1118	50.125	1273	70	1778	50.125	1273	86	2184
46	1168	52.125	1324	74	1880	52.125	1324	88	2235
48	1219	54.125	1375	76	1930	54.125	1375	92	2337

# TERMINATIONS

## RAIN CAP • RC

Installed at the top of the chimney. It prevents entry of rain.

K = 0,5

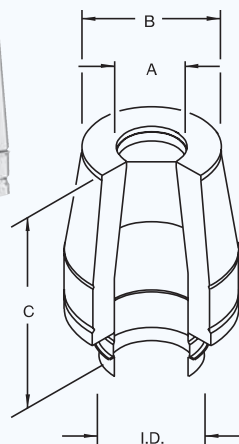


HEPLA • HEPL HEPL1 • HEPL2			
I.D.		A	
in	mm	in	mm
6	152	11.500	292
8	203	13.500	343
10	254	15.500	394
12	305	17.500	445
14	356	19.500	495
16	406	21.500	546
18	457	23.500	597
20	508	25.500	648
22	559	27.500	699
24	610	29.500	749
26	660	31.500	800
28	711	33.500	851
30	762	35.500	902
32	813	37.500	953
34	864	39.500	1003
36	914	41.500	1054
38	965	43.500	1105
40	1016	45.500	1156
42	1067	47.500	1207
44	1118	49.500	1257
46	1168	51.500	1308
48	1219	53.500	1359

## EXHAUST CONE • EC

Installed at the top of the chimney. It improves the draft and increases the speed of exhaust gases by 50%. Installation of a drain-tee cap (DC) or a drain section (DS) at the base of the chimney is required for use of an exhaust cone.

K = 1.25



I.D.	HEPL • HEPL2						HEPLA • HEPL1						
	A		B		C		A		B		C		
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
6	152	5	127	9	229	17.75	451	5	127	7	178	17.75	451
8	203	7	178	11	279	17.75	451	7	178	9	229	17.75	451
10	254	8	203	12	305	17.75	451	8	203	10	254	17.75	451
12	305	10	254	14	356	17.75	451	10	254	12	305	17.75	451
14	356	12	305	16	406	23.5	497	12	305	14	356	23.50	597
16	406	14	356	18	457	23.5	497	14	356	16	406	23.50	597
18	457	16	406	20	508	23.5	497	16	406	18	457	23.50	597
20	508	16	406	20	508	23.5	497	16	406	18	457	23.50	597
22	559	18	457	22	559	23.5	497	18	457	20	508	23.50	597
24	610	20	508	24	610	23.5	497	20	508	22	559	29.50	749
26	660	22	559	26	660	29.5	749	22	559	24	610	29.50	749
28	711	24	610	28	711	29.5	749	24	610	26	660	29.50	749
30	762	24	610	28	711	29.5	749	24	610	26	660	29.50	749
32	813	26	660	30	762	35.5	902	26	660	28	711	35.50	902
34	864	28	711	32	813	35.5	902	28	711	30	762	35.50	902
36	914	30	762	34	864	35.5	902	30	762	32	813	35.50	902
38	965	30	762	34	864	41.5	1054	30	762	32	813	41.50	1054
40	1016	32	813	36	914	41.5	1054	32	813	34	864	41.50	1054
42	1067	34	864	38	965	41.5	1054	34	864	36	914	41.50	1054
44	1118	36	914	40	1016	41.5	1054	36	914	38	965	41.50	1054
46	1168	38	965	42	1067	41.5	1054	38	965	40	1016	41.50	1054
48	1219	40	1016	44	1118	41.5	1054	40	1016	42	1067	41.50	1054

# TERMINATIONS

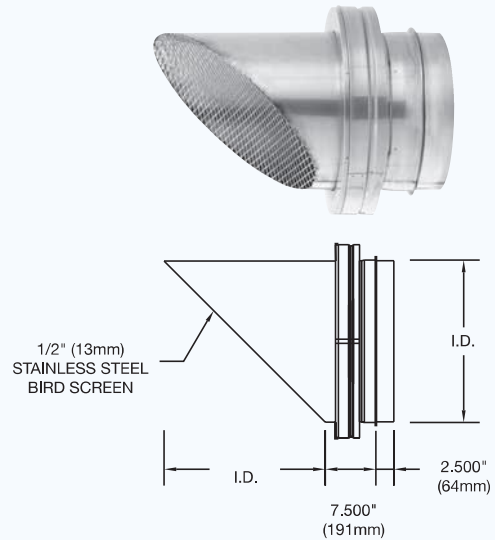
## CLOSURE SECTION • CS

Installed at the top of the chimney. It protects the chimney against water infiltration in the insulation between the inner and outer wall of the chimney. Installation of a drain-tee cap (DC) or a drain section (DS) at the base of the chimney is required for use of a closure section.



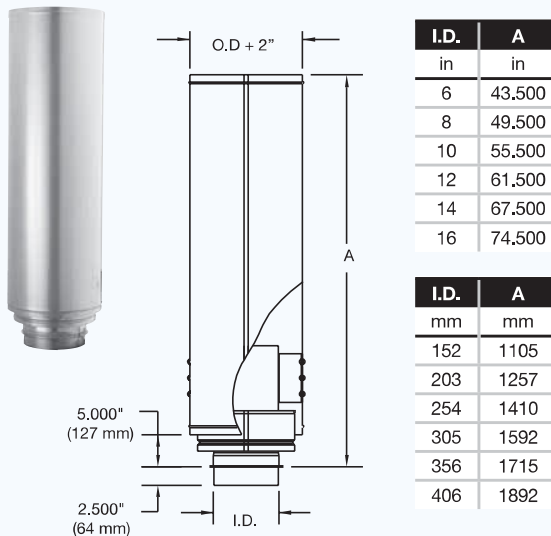
## MITER SECTION • MS

Installed at the end of the chimney in horizontal exhaust applications. To be used with engine exhaust. Diameter range from 6" (152mm) to 16" (406mm).  
K = 1.25



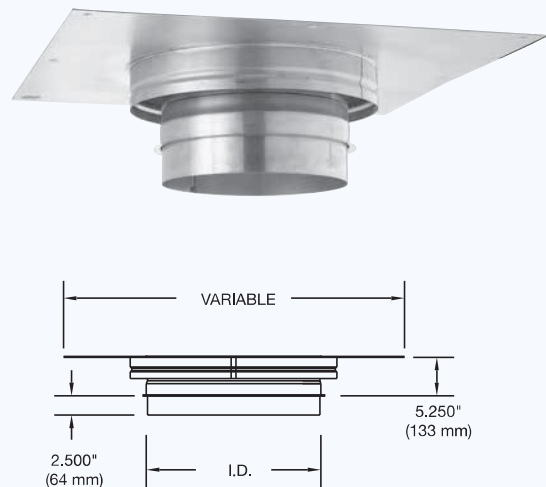
## RAINSHIELD • RSH

Installed at the top of the chimney. It prevents rain penetration when the chimney is installed at a location subject to high wind conditions. Installation of a drain-tee cap (DC) or drain section (DS) at the base of the chimney is required for use of a rainshield. Available from 6" (152 mm) to 16" (406 mm) diameter.



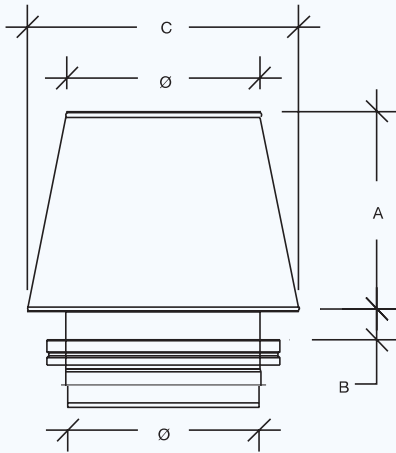
## FAN ADAPTER • FA

Installed at the chimney termination. Used to connect the chimney to an induced draft fan.

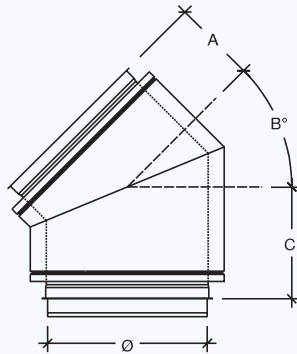


# SPECIAL PARTS

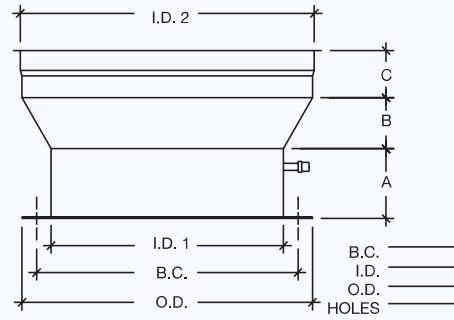
Several special parts are available upon request.  
See some examples below.



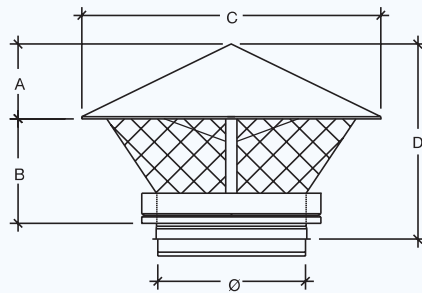
Finishing Cone



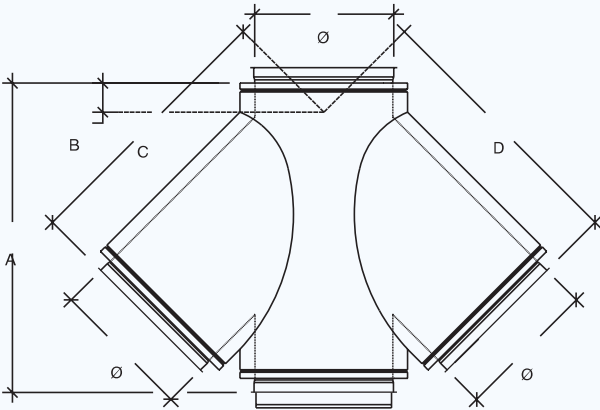
Special Elbow



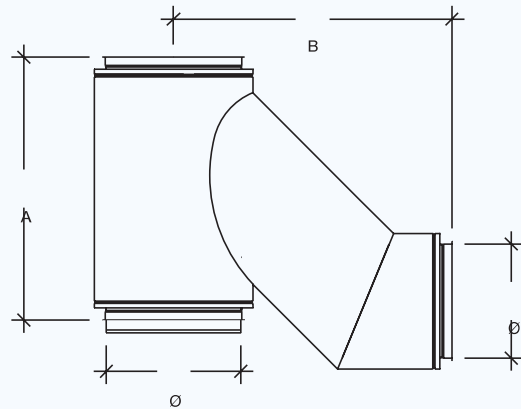
Special Starting Adapter



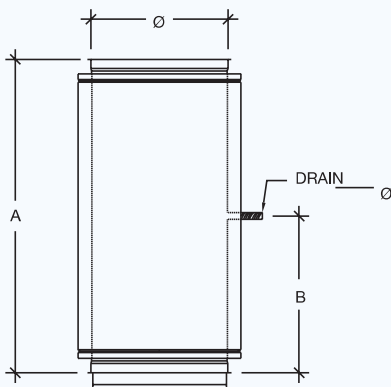
Special Rain Cap with Bird Screen



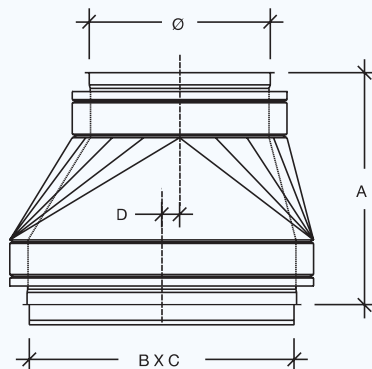
Double 45° Tee



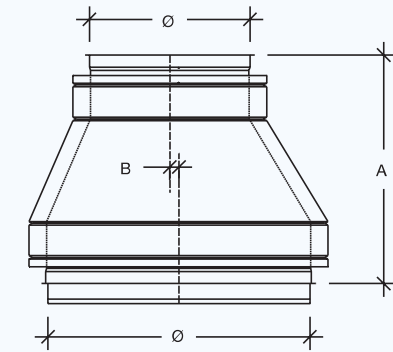
Combination Tee and Elbow



Test and Monitoring Port at any location



Rectangular to Round Transition



Excentric Round to Round Transition

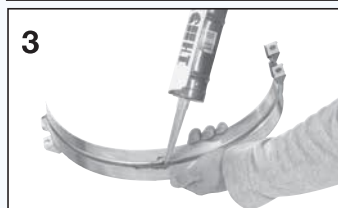
# INSTALLATION GUIDE

## GUIDE TO COMPONENT PARTS

MATERIALS	CODE	PAGE
<b>ADJUSTMENT / EXPANSION</b>		
Adjustable Length	AL	8
Increaser	I	16
Reducer	R	16
Variable Length	VL	8
<b>COMPONENT</b>		
Drain Section	DS	8
Drain-Tee Cap	DC	16
Tee Cap	TC	16
<b>CONNECTING THE FLUE</b>		
Drain Starting Adapter	SAD	19
Starting Adapter	SA	19
<b>CONNECTION / OFFSET</b>		
5° Elbow	E5	11
15° Elbow	E15	12
30° Elbow	E30	13
45° Elbow	E45	14
90° Elbow	2 x E45	15
90° Short Radius Elbow	E90	15
45° Tee	T45	9
90° Tee	T90	10
<b>FIRE PROTECTION</b>		
Firestop	FS	22
Radiant Firestop	RFS	21
Wall Firestop	WFS	21
<b>JOINTING</b>		
Assembly Band	AB	22
Finishing Band	FB	22

MATERIALS	CODE	PAGE
<b>LENGTH</b>		
12" Length	12L	8
24" Length	24L	8
36" Length	36L	8
48" Length	48L	8
<b>SEALING AT ROOF</b>		
Adjustable Flashing	AF	24
Flashing for Flat Roof	F	25
Ventilated Flashing	VF	25
<b>SIDE STABILITY</b>		
Guy Wire Band	GWB	24
Roof Band	RB	23
Wall Band	WB	23
<b>SUPPORT / GUIDE</b>		
Anchor Plate	AP	18
Floor Guide	FG	19
Guiding Spacer	GS	19
Hanger Bracket	HB	18
Horizontal Support	HS	17
Roof Support	RS	18
Suspension Band	SB	23
Wall Guide	WG	20
Wall Support	WS	17
<b>TERMINATIONS</b>		
Closure Section	CS	27
Exhaust Cone	EC	26
Fan Adapter	FA	27
Miter Section	MS	27
Rain Cap	RC	26
Rainshield	RSH	27

## PIPE AND FITTING JOINT ASSEMBLY, STEP BY STEP



1. All components have a male and a female end. The orientation is indicated on the labelling of each section with an arrow. The arrow indicates the direction of the flue gases.
2. Before fitting the large and small ends into one another, a sealant (LTS or HTS) is applied on the male end, at the gap between the inner flange and the inner pipe.
3. Assemble both sections by sliding one section into the other until the flanges meet. A layer of sealant is applied inside the V-Groove of the Assembly band (AB) prior to its installation over the joint.
4. The Assembly Band (AB) is installed and clamped in place with 4 nuts and bolts (supplied).
5. Insert the insulation strip around the inner joint assembly of insulated models HEPL1 and HEPL2.
6. The Finishing Band (FB) is installed by slipping the edges of the band into the outer pipe edges and clamping them with 3 nuts and bolts (supplied).



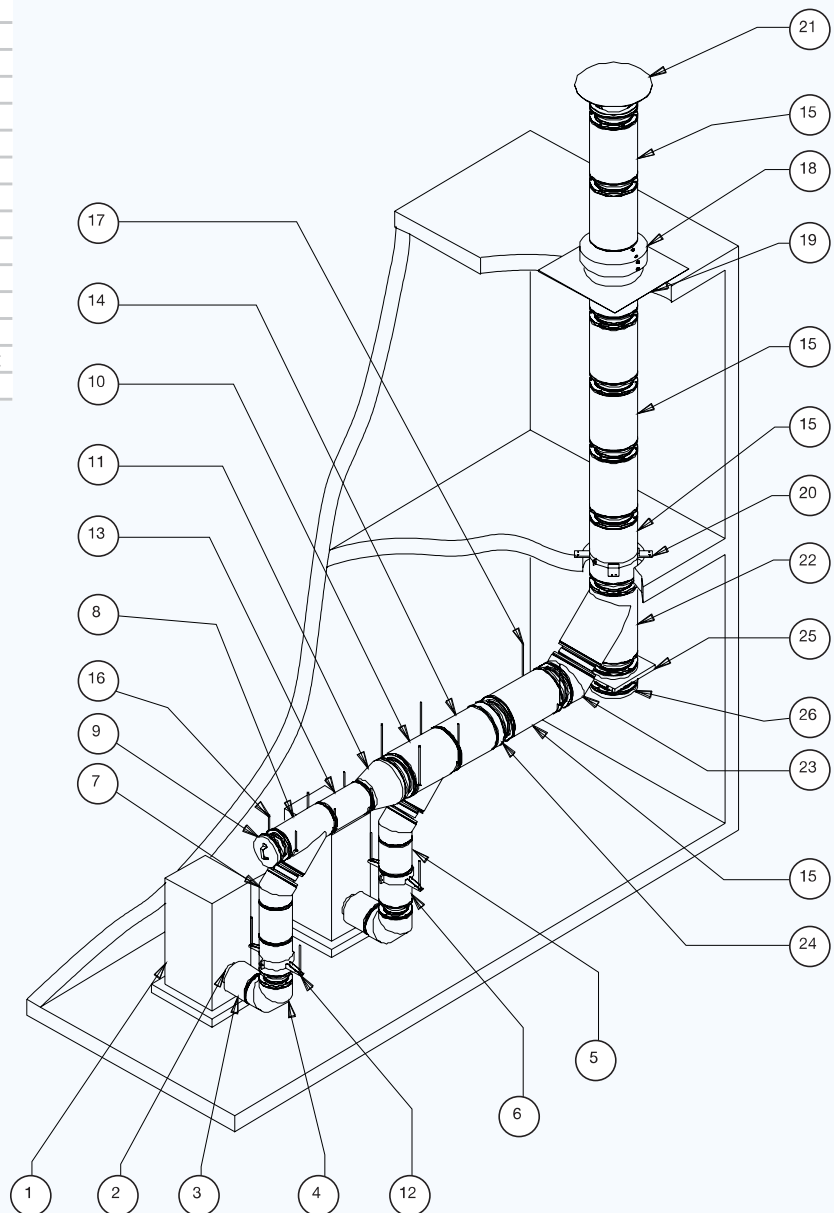
- LTS:** Low Temperature Sealant. 600°F maximum flue gas temperature
- HTS:** High Temperature Sealant. Up to 2000°F flue gas temperature
- ES:** Exterior Sealant. Outer sealant weather proof

7. FOR OUTDOOR INSTALLATION AND BAD WEATHER PROTECTION, AN EXTERIOR SEALANT (ES) IS APPLIED AT THE JOINT BETWEEN THE FINISHING BAND (FB) AND THE OUTER WALL OF THE CHIMNEY.

# SAMPLE DRAWINGS (Roof Termination)

## SAMPLE DRAWINGS

Key No.	Part No.	Description
1	Dynaflames df-750	Boiler (by others)
2	HEPLSAD1004-STD	Starting Adapter
3	HEPLAL1004	Adjustable Length
4	HEPLE91004	90° Elbow
5	HEPL24L1004	24" Length
6	HEPLAL1004	Adjustable Length
7	HEPLE451004	45° Elbow
8	HEPLT451004	45° Tee
9	HEPLTC1004	Tee Cap </td
10	HEPLT45101604	Special Tee 45
11	HEPL101604	Increaser
12	HEPLSB1604	Suspension Band
13	HEPLAL1604	Adjustable Length
14	HEPLHB1004-04	Hanger Bracket
15	HEPL36L1604	36" Length
16	HEPLHB1004-04	Hanger Bracket
17	HEPLHB1604-04	Hanger Bracket
18	HEPLVC1604-04	Ventilated Collar
19	HEPLVF1604-04	Ventilated Flashing
20	HEPLFG1604-04	Floor Guide
21	HEPLRC1604	Rain Cap
22	HEPLT451604	45° Tee
23	HEPLE451604	45° Elbow
24	HEPL12L1604	12" Length
25	HEPLHS1604-04	Horizontal Support
26	HEPLDC1604	Drain-Tee Cap

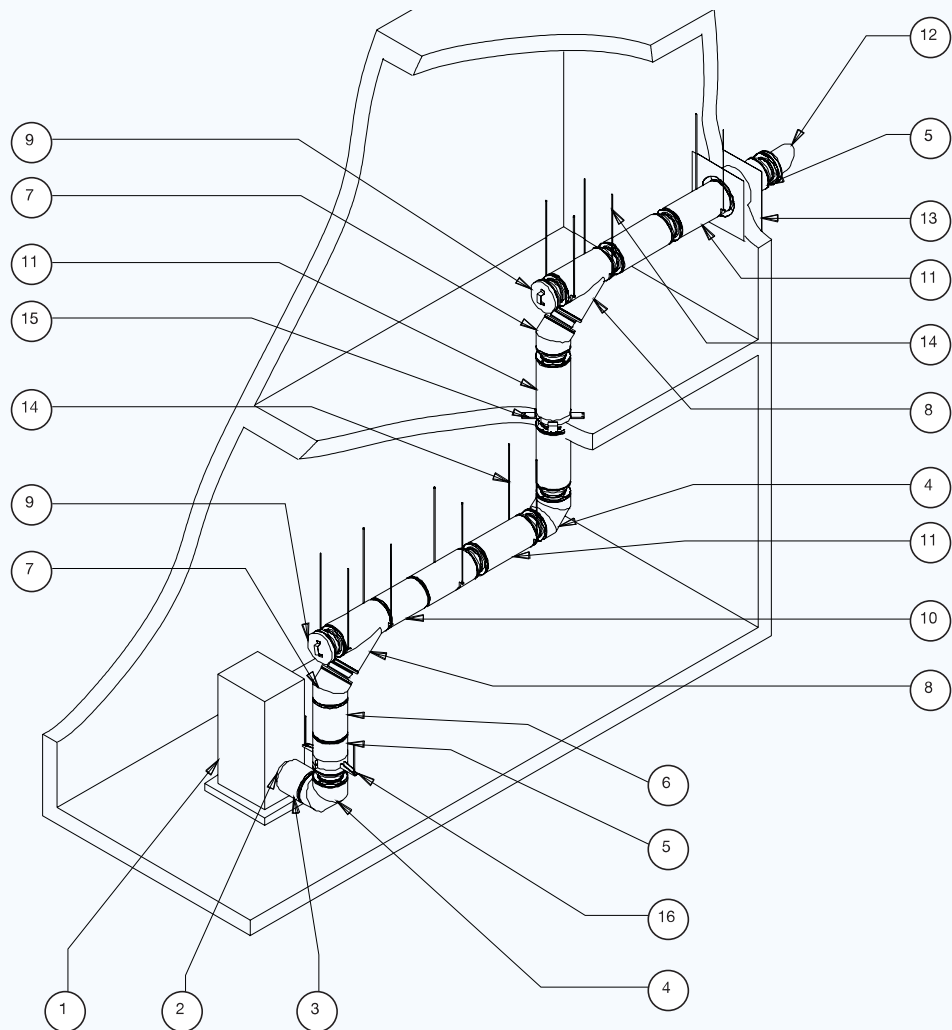




# SAMPLE DRAWING (Sidewall Termination)

## SAMPLE DRAWINGS

Key No.	Part No.	Description
1	Dynaflames df-750	Boiler (by others)
2	HEPLSAD1004-STD	Starting Adapter
3	HEPLAL1004	Adjustable Length
4	HEPLE901604	90° Elbow
5	HEPL24L1004	24" Length
6	HEPLLAL1004	Adjustable Length
7	HEPLE451004	45° Elbow
8	HEPLT451004	45° Tee
9	HEPLTC1004	Tee Cap
10	HEPLAL1004	Adjustable Length
11	HEPL36L1004	36" Length
12	HEPLMS1004	Miter Section
13	HEPLWFS10004-04	Wall Firestop
14	HEPLHB1004-04	Hanger Bracket
15	HEPLRS1004-04	Roof Support
16	HEPLSB1004	Suspension Band



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# 1-YEAR STANDARD WARRANTY

## Models HEP, HEPLA, HEPL, HEPL1 and HEPL2

All components of our models HEP, HEPLA, HEPL, HEPL1 and HEPL2 chimney system have been inspected in our workshop in accordance with our quality standards. Cheminee Lining warrants the chimney/exhaust system and components against defects in material and workmanship for a period of (1) one year from date of delivery to the purchaser. During this period, any system or component supplied by Cheminee Lining failing to perform its intended function of exhausting, without adverse leakage, combustion by-products from engine or heating appliance will be repaired or replaced at the manufacturer option.

This warranty is limited to repair or replacement of any component which has been proven defective by a factory-authorized inspector by Cheminee Lining. This warranty does not cover any labour cost or freight charge for removal or replacement of the defective product, nor does this warranty cover any system component not furnished by Cheminee Lining and installed as part of the system. The warranty on any repaired or replacement component shall be for a duration no longer than the remaining or unexpired term of the original warranty.

This standard warranty is subject to the following conditions:

- a) Generally accepted engineering practices have been followed to determine that sizing and material specifications are suitable for the application and environment involved.
- b) The undamaged components have been correctly installed in accordance with the installation instructions published by Cheminee Lining at the time of shipment.

The standard warranty is extended to a **15-YEAR LIMITED WARRANTY** provided the following conditions are satisfied:

- a) The chimney must have been connected to an appliance listed by a testing authority recognized by the federal government. Also, this warranty is void if the appliance was not installed, used and maintained according to the manufacturer instructions.
- b) The chimney system must have been designed and sized by the engineering department of Cheminee Lining. All design and operating parameters provided to Cheminee Lining must meet the standards of Cheminee Lining and must be accurately representative of the operating conditions.
- c) The undamaged components must have been correctly installed, used and maintained in accordance with the instructions published by Cheminee Lining at the time of shipment.
- d) Air used in combustion must be free from any solvent or refrigerant vapor and from any halogenated compound which might generate acid condensate within the flue or chimney.
- e) Cheminee Lining has supplied the entire chimney or exhaust system from the appliance outlet to the stack termination.
- f) Prior to start-up and thereafter, exposed galvanized and aluminized steel surfaces are at all times protected with a minimum of one base coat primer and one finish coat of heat and corrosion resistant paint.

In no event shall Cheminee Lining be liable for any incidental or consequential damages of any kind or for any damage resulting in whole or in part from misuse, improper installation, removal and/or reuse of components or inadequate maintenance of the system or any component part thereof. In no event shall Cheminee Lining be liable for any cost of installation, removal and reinstallation. Cheminee Lining assumes no liability in case of fire, chimney fire, lightning or act of God. This warranty is in lieu of all other express warranties or guarantees of any kind. All implied warranties, including merchantability and fitness, are limited to the duration of the express warranty contained herein. Cheminee Lining neither assumes nor authorizes any other person to assume on its behalf any other liability in connection with products sold. No agent is authorized to make any modification to this warranty or additional warranties, even if in writing, binding Cheminee Lining

The purchaser or complainant must send all claims under this warranty in writing to Cheminee Lining Customer Service Department.

Warranty



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