



12 through 24 inch diameter Type-A Vent for Atmospheric Venting



Ci HIGH-RESISTANCE INDUSTRIAL CHIMNEY:

Safety, Durability and Efficiency

For over 50 years, Security Chimneys has been an innovator in the venting field and a market leader in North America. Instrumental in the company's growth has been the introduction of new products and improvements to existing lines. This unrelenting quest for excellence has now given rise to the Ci insulated chimney, a high-quality product designed to deliver optimal performance. This new chimney system ensures outstanding venting while minimizing condensation.

FIELD OF APPLICATION

The **c**i chimney system is to be used with residential, commercial or industrial heating appliances powered by either liquid or gas fuels. Its sealing efficiency makes it suitable for negative appliances.

It has been tested by Warnock Hersey, according to UL-103 HT (ø 305mm to 610mm / 12 to 24 inches) for use with masonry fireplaces (solid fuel appliances) USA only.

DESIGN

Security Chimneys' **Ci** chimney is a stainless steel double-wall flue with thermal insulation provided by a mineral-fibre liner between its outer and inner walls. It has a mechanical locking seam.

CONSTRUCTION

The external casing of the **Ci** chimney carries the structural load. The inner lining is free floating and attached only to the male coupler at the top, allowing it to expand and contract as flue gas temperatures change, therefore eliminating the need for special expansion joints.

COMPOSITION

The **Ci** chimney system is available with:

- INNER CASING
- 304 / .024"
- OUTER CASING
- 430 / .018"
- Galvalume

INSULATION

The **Ci** insulated chimney is lined with 2 inches of the highest quality insulation, densely packed to ensure low heat loss, maximum draft, minimal condensation and a 50mm (2 inches) close clearance to combustible materials.

For wood-burning fireplaces (Ø 305mm to 610mm / 12 to 24 inches) a 100mm (4 inch) clearance to combustible is required.

INSTALLATION

The **Ci-50** Ø 305 mm to 610 mm (12 to 24 inches) is assembled using a centering coupler system. Lengths and fittings slip=fit together, centering automatically with their extended 76 mm (3 inches) inner wall.

All **Ci-50** insulated chimney lengths and fittings are delivered with a self-locking sealing band which must be installed on all joints to ensure gas tightness and sturdy assembly.

WARNING

- For industrial application, not to be installed in a combustible chase.
- For residential application, can be enclosed with combustible materials at 50 mm (2 inches) clearance Ø 305 mm to 457 mm (12 to 18 inches) only.

TECHNICAL SUPPORT

Security Chimneys' Engineering Department is available to help you analyse your needs and make recommendations on your particular application.

CERTIFICATION

THE **Ci** chimney system is listed as an Industrial chimney by **Underwriters Laboratories ULC in** Canada and UL in the United States to two standards. Also listed as a Type-A to standard UL-103 and ULC-S604 305 mm to 457 mm (12 to 18 inches) for residential and building heating appliances. It is also listed for venting wood-burning fireplaces by Warnock Hersey for diameters of 305 mm to 610 mm (12 to 24 inches)

Tested to:

305 to 457 mm
(12 to 18 inches)
305 to 610 mm (12 to 24 inches)
· /
305 to 457 mm
(12 to 18 inches)
305 to 610 mm
(12 to 24 inches)
305 to 610 mm
(12 to 24 inches)

Allowable flue gas temperature

Maximum	n Continuous	
	Residential	Industrial
	540°C (1000°F)	760°C (1400°F)
Brief ford	ce firing	
	Residential	Industrial
	760°C (1400°F)	927°C (1700°F)
Tested to	o: 1150°C (2100°F)

SPECIFICATION EXAMPLE

- 1.1 The pre-fabricated chimney, breeching and components shall be listed as an industrial chimney by ULC in Canada and by UL in the United States
- It shall be listed for 760°C (1400°F) under continuous firing and 1.2 927°C (1700°F) in brief forced firing

CONSTRUCTION

- 2.1 Each section must be made of two cylinders separated by 50mm (2 inches) of insulation for diameters 305 to 610 mm (12 to 24 inches)
- 2.2 The inner casing shall be made of 304 stainless steel, 0.60 mm (0.024 inch) thick. The outer casing must be made of 430 stainless steel, 0.45 mm (0.018 inch). The optional outer casing may be made of Galvalume steel, 0.45 mm (0.018 inch).
- 2.3 The seam must be double-folded mechanical locking type.
- 2.4 Coupling shall be provided to center the sections and to ensure proper spacing between the outer casing and flue pipe.
- 2.5 The insulating material shall possess a thermal conductivity factor of 0.034 W/m² K or less with output temperature of at least 1000°C (1832°F). Glass fiber insulation is not acceptable.
- 2.6 Each section shall allow the flue pipe to expand into the next section. For diameters 305 to 610 mm (12 to 24 inches), flue pipes shall overlap by at least 76 mm (2^{15/16} inches)

INSTALLATION

- 3.1 The installation shall be in accordance with the manufacturer's installation instructions.
- 3.2 All sections shall be held together by locking bands

WARRANTY

Security Chimneys guarantees its Ci chimney for a period of 10 years from the date of purchase. This warranty is limited to the replacement of only the chimney lengths deemed defective, provided it has been properly installed and used as intended. The complete system must have been designed and sized by Security Chimneys' engineers who will base the sizing on the operating parameters provided by the customer. The entire chimney system, including breeching as required, must consist of Ci chimney components. This warranty cannot be extended by our representatives. Warranty can be modified by our Engineering Department depending on the use of the Ci chimney.

A NEW LINE OF FLUES FOR A NEW GENERATION OF HEATING APPLIANCES

In an effort to provide greater energy conservation, manufacturers have sought to design heating appliances offering a higher level of performance. In the process, conventional chimney flues have been rendered obsolete. Security Chimneys developed the **Ci** chimney in response to these changing needs. It is designed for easy installation in new construction.

1 > Coupler system for fast assembly

The Ci features an assembly system for fast and easy installation requiring no screws or other attachments



■ Ø 305 to 610 mm (12 to 24 in.): assembly with centering coupler with an extended inner wall + locking band. Overlap: 75 mm (2.94 in.)

2 > Stainless steel inner lining with low reaction to heat

- Inner lining for immediate heating
- Smooth surface: very slight heat loss to flue gases.
- Possible offset to 45°
- Outstanding corrosion resistance

3 > Densely-packed insulation of the highest quality

- No settling of the insulation
- Minimal cooling of flue gases which stabilize at high temperatures
- Absence of condensate and soot

4 > Stable, high-speed exhaust of flue gases

- Smaller flue diameter required
- Space savings
- Stable and powerful draft
 Easier and more accurate setting of the burner: reduced fuel consumption

5 > Outer casing

- Low surface temperature
- Minimum 50 mm (2 inch) safety clearance from combustible materials

6 > Inner lining unattached to female coupler

- Free-floating inner wall eliminates the need for expansion joints
- Unhindered expansion with rising temperatures
- 75 mm (3 inch) longer than outer casing for sturdy assembly

7 > Lightweight

- Ease of installation
- No support foundation required: a wall support is generally used



INSTALLATION INFORMATION

INSTALLATION

Assembly always requires the male coupler to be positioned upwards in the direction of the gas flow.

All lengths in the CI chimney system are effective lengths.

A locking band must always cover the joint where the lengths and fittings come together to ensure the tightness and sturdiness of the assembly.

No joint is to be positioned in the space between floors, ceilings and walls.

SAFETY

Security Chimneys' insulated **CI** chimney can be installed as close as 50 mm (2 inches)* from combustible materials. The installation of firestop spacers and radiation shields automatically maintains correct clearances as the chimneys pass through combustible floors or partitions.

* The clearance is 100 mm (4 inches) for venting a masonry fireplace in diameters of 305 to 610 mm (12 to 24 inches)

SUPPORT

Different types of supports are available to meet the requirements of various types of installations (see LOADBEARING CAPACITY table on next page)

- anchor plate
- floor support
- wall support
- adjustable wall support
- roof support
- suspension band

STABILITY

a) Chimney along a vertical surface

Wall bands ensure adequate clearance as well as the stability of the chimney. These are not loadbearing components.

They should be installed every 2.5 m (8 ft.) from any support in exterior installations, and 3 m (10 ft.) from supports in interior installations.

Also available is a wall band extension which is used in combination with a wall band to extend the clearance between the chimney and wall surface by 50 mm to 135 mm (2 to 5.25 inches).

b) Chimney section above the roof line:

No support is required for free standing chimneys extending up to 1.5 m (5 feet) beyond the roof line in areas with normal weather conditions.

* Roof brace 1.5 to 3 m (5 to 9 feet):

In coastal areas or regions subject to high winds, the chimney should be stabilized using a roof brace. Angled telescopic legs allow the brace to adapt to any roof pitch.

On sloped roofs, it is used to stabilize chimneys between 1.5m and 3m (5 and 9 feet) beyond the roof.

* Guy-wire band 1.50m to 4m (5 to 13 feet):

Beyond 1.50m (5 feet) from the last brace or support point, the chimney length can be stabilized using one guy-wire band every 1.50m (5 feet) to a maximum height of 4m (13 feet).

* Wall band beyond 4m (13 feet):

Beyond 4m (13 feet), the chimney should be stabilized using wall bands attached to a metal structure or mast.

ADJUSTMENT

To facilitate the installation of horizontal or diagonal sections, an insulated adjustable length is available. Regardless of the length of the adjustment, insulation must remain firmly packed inside the ring area.

OFFSET

Elbows angled at 15°, 30° or 45° are available to offset the **CI** chimney used either vertically or horizontally. Vertically, a maximum offset of 45° is allowed.

ASSEMBLY

The use of a 90° or 135° insulated tee makes it possible to laterally connect an appliance outlet to a vertical chimney. It is also suited to breech different appliances.

CHIMNEY SIZING

A chimney flue must be well suited to installation requirements in terms of its geometric profile and combustion parameters. For more technical information, contact our Engineering Department.

CONNECTION

Adaptors are needed to connect the chimney flue to the appliance.

We supply the most commonly used flue adaptors and flue extensions. For more information on adaptors see page 16 of this catalogue.

WATERTIGHTNESS ON THE ROOF

Roof penetration by a **CI** chimney requires the installation of a roof flashing for weather protection. Three types of flashings are available:

- flat roof flashing
- adjustable roof flashing: 5° to 30° pitch
- adjustable roof flashing: 30° to 45° pitch

Each flashing comes with a storm collar. To ensure waterproofing, the joint between the collar and chimney section must be sealed using a silicone caulking.

TERMINATION

Several types of chimney termination caps are available and must be used at the top of the installation.

WARNING

* Only use CI components

* Follow install instructions, failure to do so could void the certification and warranty.

- * Access should be provided for inspection and cleaning of the chimney.
- * Chimney should be cleaned at least once a year.
- * Not to be enclosed in a combustible chase for industrial application.
- * Contact local building or fire officials about applicable installation regulations.

TECHNICAL DATA

CI	-50
U	

Model	int.Ø mm (in.)	ext. Ø mm <i>(in.)</i>	insulation thickness mm (in.)	flue area cm² <i>(in.²)</i>	weight in kg <i>(lb./ft.)</i> per linear m.	twist-lock assembly	centering coupler system
CI 12	305 (12)	406 (16)	50 <i>(2)</i>	731 (113.3)	11.9 (8)		yes
CI 14	355 (14)	457 (18)	50 (2)	990 (153.4)	13.6 (9.2)		yes
CI 16	406 (16)	508 (20)	50 (2)	1295 (200.7)	15.3 (<i>10.3</i>)		yes
CI 18	457 (18)	559 (22)	50 <i>(2)</i>	1640 (254.2)	17.1 (11.6)		yes
CI 20	508 (20)	610 (24)	50 (2)	2027 (314.2)	19.1 (12.9)		yes
CI 22	559 (22)	660 (26)	50 <i>(2)</i>	2454 (380.4)	20.8 (15.2)		yes
CI 24	610 (24)	711 (28)	50 (2)	2923 (453)	22.6 (16.5)		yes

LOADBEARING CAPACITY

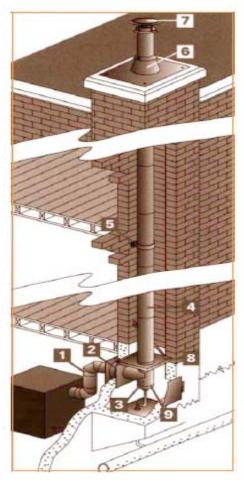
	CI-50						
			Maxi	num h	eight		
Diameter (mm)	305	355	406	457	508	559	610
(in.)	12	14	16	18	20	22	24
SUPPORT							
Anchor plate (m)	19	16.5	14.5	13	12	11	10
(ft.)	62	54	48	43	39	36	33
Floor support (m)	15	13	11.5	10.5	9.5	8.5	8
(ft.)	49	43	38	34	31	28	26
Wall support point upward (m)	16	14	12.5	11.5		9.5	8.5
(ft.)	52	46	41	38	33	31	28
point downward (m)							
(ft.)							
Roof support (m)	10.5	9.5	8.5			6.0	5.5
(ft.)	34.4	31.2	27.9	24.6	21.4	19.7	18
Roof support, suspended (m)							
(ft.)							
Suspension band (m)	1.8			1.8		1.8	1.8
(ft.)	6	6	6	6	6	6	6
TEES							
T 90(m)	16	14		11	10		8
(ft.)	52	46	43	36	33	29	26
T 135(m)	12	11	10	8	7	7	6
(ft.)	39	36	33	26	23	23	20



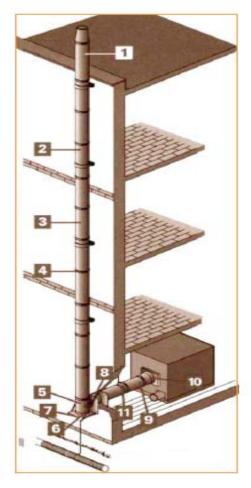
TYPICAL INSTALLATIONS

INTERIOR INSTALLATION OF CI FLUE TO A BASEMENT APPLIANCE.

EXTERIOR INSTALLATION OF CI FLUE FOR VENTING A BOILER.

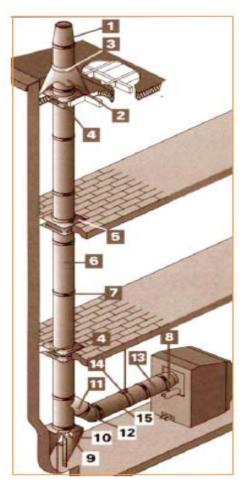


- 1. Connector
- 2. Wall radiation shield
- 3. 90° tee
- 4. Insulated length
- 5. Wall band
- 6. Flat roof flashing
- 7. Regular rain cap
- 8. Wall support
- 9. Insulated drain tee cap



- 1. Finishing cone
- 2. Wall band
- 3. Insulated length
- 4. Locking band
- 5. 90° tee
- 6. Insulated drain tee cap
- 7. Wall support
- 8. Wall radiation shield
- 9. Insulated length (breeching)
- 10.Flue extension
- 11.Suspension band

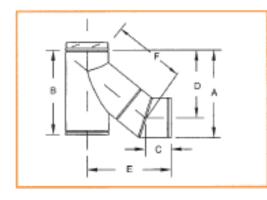
INTERIOR INSTALLATION OF CI FLUE THROUGH NON-COMBUSTIBLE FLOOR FOR VENTING A BOILER.



- 1. Finishing cone
- 2. Flat roof flashing
- 3. Storm collar
- 4. Firestop radiation shield
- 5. Floor support
- 6. Insulated length
- 7. Locking band
- B. Increaser
- 9. Insulated drain tee cap
- 10. Wall support
- 11. 136° tee
- 12. 45" insulated elbow
- 13. Insulated length
- (breeching)
- 14. Suspension band 15. Adjustable length
 - deserve miller

OFFSET CHART

For ease of dimensioning the assembly of a T135 and 45 elbow, please reference the chart below.



CI-50	Ass	embling	j a 135°	tee and a	45° elb	0W	
INT. Ø (mm)	305	355	406	457	508	559	610
(inch)	12	14	16	18	20	22	24
EXT. Ø (mm)	406	457	508	559	610	661	712
(inch)	16	18	20	22	24	26	28
A	946	1050	1122	1225	1303	1403	1484
	37.2	41.3	44.2	48.2	51.3	55.2	58.4
8	810	860	899	975	1064	1102	1140
	31.9	33.8	35.4	38.4	41.9	43.4	44.9
C	188	188	213	213	213	274	274
	7.4	7.4	8.4	8.4	8.4	10.8	10.8
D	743	821	868	945	998	1072	1128
	29.2	32.3	34.2	37.2	39.3	42.2	44.4
E	720	787	849	915	961	1108	1152
	28.3	31	33.4	36	37.8	43.6	45.3
F	753	847	899	993	1058	1180	1242
	29.6	33.3	35.4	39	41.6	46.4	48.9
				METRIC	IN	ICHES	/FT.

LENGTHS

INSULATED LENGTHS



Available in 7 diameters and 3 standard effective lengths of 290mm (12"), 440mm (18") and 900mm (36")

ALL LENGTHS ARE EFFECTIVE METRIC SIZES AFTER ASSEMBLY.

These components can be combined to meet the needs of any horizontal, diagonal or vertical installation. They come complete with a locking band which must properly cover each assembly joint.

Ref.: L	CI-50)					
Interior Ø (mm)				457		559	
(inch)	12	14	16	18	20	22	24
Exterior Ø (mm)		457		559	610		
(inch)	16	18	20	22	24	26	28
Insulation (mm)			50				
(inch)	2	2	2	2	2	2	2
Weight (kg/m)		13.6				20.8	22.6
(Ib/ft.)	8	9.2	10.3	11.6	12.9	15.2	17

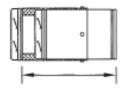
							CI-50	0					
Interior (Ø (mm)						305			457		559	610
Effective length	(cm)						-	-			-	-	-
							-				-	-	-
I I							-				-	-	-
±							-	-	-	-	-	-	-
LENGTH	29	-	-	-	-	-	yes	yes	yes	yes	yes	yes	yes
	44	-	-	-	-	-	yes	yes	yes	yes	yes	yes	yes
	90	-	-	-	-	-	yes	yes	yes	yes	yes	yes	yes

ADJUSTABLE INSULATED LENGTH

The extension for CI-50 varies from 50 to 240 mm (2 to 9 inches). This component must overlap the preceding one by at least 75 mm (3 inches). Self-taping screws lock the sections together, ensuring the sturdiness of the assembly.

The length comes with a locking band that must properly cover each assembly joint.





MIN

50 NBJ

IMPORTANT: The adjustable insulated length is not designed as a loadbearing component. Its vertical installation requires an appropriate support on the section above it to bear the weight of the remaining installation.

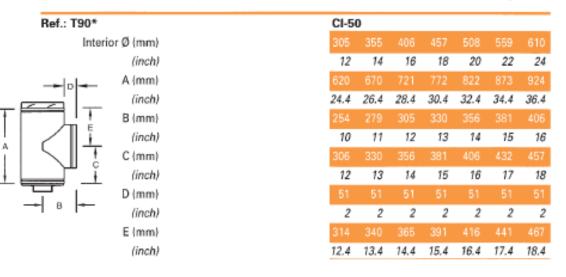
	Ref.: LA	CI-50)					
	Interior Ø (mm)	305			457	508		610
	(inch)	12	14	16	18	20	22	24
)	Minimum adjust.(mm)	50	50	50	50	50	50	50
7	(inch)	2	2	2	2	2	2	2
	Maximum adjust.(mm)	240	240	240	240	240	240	240
	(inch)	9	9	9	9	9	9	9

TEES

90° TEE



Most often located at the base of a chimney, it makes it possible to connect the flue to the heating appliance. It can be installed at any horizontal or vertical point along the chimney to connect a length or ensure access for inspection or cleaning. May be used in breeching a chimney to allow installation of a draft damper. The 90° tee comes complete with an inspecting tee cap (TV). (Loadbearing capacity: see chart on page 6)



It performs the same function as the 90° tee, but is designed for diagonal connections that reduce heat loss and facilitate the upward flow of gases.

It is generally used in conjunction with a 45° elbow to permit the connection of a horizontal flue (for listing of assembly sizes, see chart on page 9). The 135° tee comes complete with an inspecting tee cap (TV).

(Loadbearing capacity: see chart on page 6)

Ref.: T135*	CI-5	D					
Interior Ø (mm)	305		406		508		610
(inch)	12	14	16	18	20	22	24
A (mm)	810	860	899	975	1064	1102	1140
(inch)	31.9	33.8	35.3	38.4	41.9	43.4	44.5
B (mm)	400	466	485	552		640	
(inch)	15.7	18.3	19	21.7	23.5	25.2	27
C (mm)	199	172	182	180	216	224	206
(inch)	7.8	6.8	7.2	7	8.5	8.8	8.1
D (mm)	565	659	686	780	845	906	968
(inch)	22	26	27	30.7	33.2	35.7	38
E (mm)	599	638	667	732	814	864	890
(inch)	23.6	25	26.2	28.8	32	34	35
F (mm)	211	222	232	243	250	238	250
(inch)	8.3	8.7	9	9.5	9.8	9.4	9.2

*Note:

Both the T90 and T135 are available with a smaller-sized throat (branch). In such case, dimensions remain the same except for inside and outside diameters of the throat (branch) section.



INSULATED TEE CAP	Designed to seal the base or lateral o gases. It is removable, providing easy acces								
	Ref.: TI	a for chinney mar	ntenan	Le of	mape	ction	•	-	
	171 mm 6 34 mj)							
NSULATED DRAIN	This component is fitted at the base collect and drain rain water and cond		ertically	. It m	akes	it pos	sible	to	
	Removable, it provides easy access for chimney maintenance or inspection. Threaded nipple (Ø 1 in11% NPT)								
	Ref.: TPI	/			_			-	
	Ref.: TPI	D 26/34 mm 10 310 - 41 3/2 NPT1 150							
	Ref.: TPI	Fitted over each a		ly joir	nt to e	ensure	e the		
	Ref.: TPI	Fitted over each a less of the assembly	γ.					int.	
	Ref.: TPI	Fitted over each a ess of the assembly and positions itsel	γ. f aroun	d the	secti	on at	the jo		
OCKING BAND	Ref.: TPI	Fitted over each a ess of the assembly and positions itsel	γ. f aroun chimne	d the	secti	on at	the jo		
COCKING BAND	Ref.: TPI	 In the second sec	γ. faroun chimne	d the y con	secti	on at	the jo		
	Ref.: TPI	Fitted over each a efitted over each a ess of the assembly and positions itsel lly comes with all CI-50	y. f aroun chimne) 355 14	d the ty con 106 16	secti npon 457 18	on at ents e 508 20	the jo except	the	
LOCKING BAND	Ref.: TPI It is imperative that a locking band be tightness of the joint and the sturding Featuring a ceramic felt gasket, the b Made of stainless steel, it automatications. Ref.: BS Interior Ø (mm)	Fitted over each a efitted over each a ess of the assembly and positions itsel Ily comes with all CI-50	γ. f aroun chimne	d the y con	secti npon 457	on at ents e	the jo except	the	

C1-50

ELBOWS

15° INSULATED ELBOW



Allows the 15° offset of a horizontal or vertical section.

It can be used in combination with other elbows to form offsets at specific angles (no attachment notches in the female coupler) or to deviate the chimney.

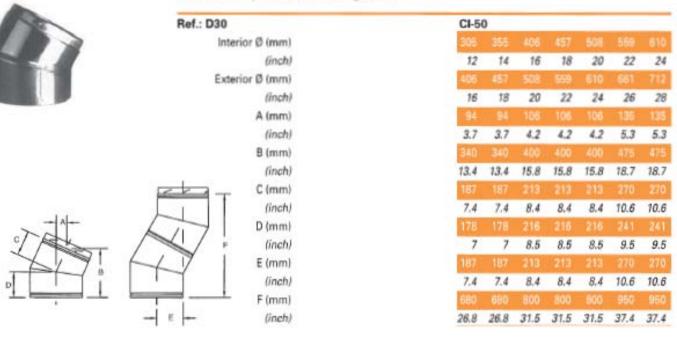
It comes complete with a locking band.

Ref.: D15	CI-5	0					
Interior Ø (mm)	305			457			
(inch)	12	14	16	18	20	22	24
Exterior Ø (mm)	406	457	508	559	610	661	712
(inch)	16	18	20	22	24	26	28
A Offset (mm)	- 35	36	36	36	45	45	49
(inch)	1.4	1.4	1.4	1.4	1.8	1.8	1.9
B (mm)	272	272	272	272	343	343	368
(inch)	10.7	10.7	10,7	10.7	13.5	13.5	14.5
C (mm)	138	138	138	138	175	175	187
(inch)	5.4	5.4	5.4	5.4	6.9	6.9	7.4
a D(mm)	138	138	138	138	175	175	187
(inch)	5.4	5.4	5.4	5.4	6.9	6.9	7.4

Allows the 30° offset of a horizontal or vertical section.

It can be used in combination with other elbows to form offsets at specific angles (no attachment notches in the female coupler) or to deviate the chimney.

It comes complete with a locking band.



ELBOWS

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45° INSULATED ELBOW

Allows the 45° offset of a horizontal or vertical section.

It can be used in combination with other elbows to form offsets at specific angles (no attachment notches in the female coupler) or to deviate the chimney. It comes complete with a locking band.

	Ref.: D45	CI-5	0					
	Interior Ø (mm)	305	355	406	457	508	559	610
	(inch)	12	14	16	18	20	22	24
	Exterior Ø (mm)	406	457	508	559	610	661	712
	(inch)	16	18	20	22	24	26	28
	A (mm)	132	132	150	150	150	194	194
	(inch)	5.2	5.2	5.9	5.9	5.9	7.6	7.6
	B (mm)	320	320	363	363	363	468	468
	(inch)	12.6	12.6	14.3	14.3	14.3	18.4	18.4
	C (mm)	188	188	213	213	213	274	274
\times	(inch)	7.4	7.4	8.4	8.4	8.4	10.8	10.8
	D (mm)	188		213	213	213	274	274
	(inch)	7.4	7.4	8.4	8.4	8.4	10.8	10.8
	E (mm)	264	264	300	300			388
	(inch)	10.4	10.4	11.8	11.8	11.8	15.3	15.3
	F (mm)	640	640	726	726	726	935	935
	(inch)	25.2	25.2	28.6	28.6	28.6	36.8	36.8
ŕ	G (mm)	452	452	513	513	513	662	662
	(inch)	17.8	17.8	20.2	20.2	20.2	26	26
	H (mm)	452	452	513	513	513	662	662
	(inch)	17.8	17.8	20.2	20.2	20.2	26	26

SUPPORTS

ANCHOR PLATE



Ā

It is sealed to the lintel of a masonry chimney or provides a positive connection between
the chimney and a boiler. It receives and supports the first section of the assembled
chimney. (See loadbearing chart on page 6) Made of galvanized steel.

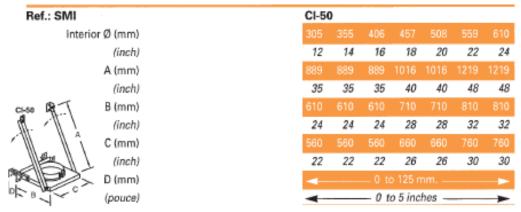
Ref.: SA		CI-50	0					
Inter	ior Ø (mm)	305			457	508		610
	(inch)	12	14	16	18	20	22	24
	A (mm)	432	483	533	584	635	686	737
	(inch)	17	19	21	23	25	27	29
· 1	B (mm)	432	483	533	584	635	686	737
- 8	(inch)	17	19	21	23	25	27	29
9.H	. C (mm)	22	22	22	22	22	22	22
<u> </u>	(inch)	.9	.9	.9	.9	.9	.9	.5

SUPPORTS

WALL SUPPORT



Supports the chimney at the base of the installation, or along a wall or other vertical surface serving as an intermediate support. This support is attached to the wall structure. It comes with a tightening collar locked around the chimney and secured by self-taping screws (supplied). the collar rests on the horizontal plate. When used as a base support, it lends itself to the addition of an insulated tee-cap or drain tee-cap. Available in galvanized steel (SMIF) or stainless steel (SMIC).



Complementary support usually attached to a roof structure.

Two adjustable plates screwed to the structure adapt to the pitch of the roof. A tightening collar attached to these two plates locks around the flue and is secured by self-taping screws (supplied). (See loadbearing chart on page 6) Made of galvalume steel.

Ref.: ST/STHT*

100 mm (4 po) 200 mm 18 003

Supports the flue on a slab, floor or joist. Provides a minimum 50 mm (2-inch) clearance between the outer casing of the chimney and combustible materials around it. A tightening collar, locked around the flue and secured to the chimney by self-taping screws (supplied), rests on a horizontal plate screwed or nailed to the floor. (See loadbearing chart on page 6) Made of galvanized steel. Can be used with a firestop spacer attached beneath the ceiling, making it possible to position the chimney and seal the space around the opening.

Ref.: SD	CI-50)					
Interior Ø (mm)	305		406	457	508	559	610
(inch)	12	14	16	18	20	22	24
A (mm)	560	610	610	710	760	810	860
(inch)	22	24	24	28	30	32	34



ADAPTORS								
FLUE EXTENSION	This cylindrical component is designed to connection identical Ø, or to a tapered adapting sleeve made				to an	outle	t havi	ng a
	The crimped end is slightly tapered for ease of a	assemb	ly.					
	Ref.: RS	CI-5	0					
	Interior Ø (mm)	305	355	406	457	508	559	610
	(inch)	12	14	16	18	20	22	2
- Mar	A (mm)	85	85	85	85	85	85	85
(A)	(inch)	3.4	3.4	3.4	3.4	3.4	3.4	3.4
📥 1 ((A)	B (mm)	310	360		462	513	564	615
C1-50 + 4 M	(inch)	12.2	14.2	16.2	18.2	20.2	22.2	24.2
	Note: The flue extension on the C	I-50 is i	incorp	orate	d in ev	/ery le	ength∙	
EDUCER / INCREASER	It is designed with a tapered shape to connect the sizes greater or smaller.	he CI c	himne	y to a	n out	let on	e or tv	vo
	Example: To order a reducer 16 in. to 14 in.→ Cl To order an increaser 16 in. to 20 in.→							
	Ref.: RI CI-80			1	step	2 s	tep	
	<u></u> т							
	í li							
	C1-40		C (mr (inc		187 7.4		238 9.4	
TEP INCREASER	The step increaser is needed for differences of r	nore th	ian tw	o step	s in s	ize ar	e requ	ired
	Example: To order a step increaser 12 in. to 16 in.	> CI12	SI16					
	Ref.: SI							
E.)		•	156 mm					
	CHE	0	T (8.7 %)					
	Note: Adaptors can be customized to your requ Department for assistance.	iremen	ts. Co	ntact f	the En	ginee	ering	
DAPTOR CI/CT	This adaptor is designed to connect the CI chimn	ey to a	CT ch	imney	/ havir	ng an	identi	cal Ø
	Ref.: RCT	CI-5	0					
	Interior Ø (mm)	305			457			610
	(inch)	12	14	16	18	20	22	24
	A (mm)	313	313	313	313	313	313	313
CI-50	(inch)	12.3	12.3	12.3	12.3	12.3	12.3	12.3
A								
ADAPTOR CT/CI	This adaptor is designed to connect the CT chime	ney to a	CI ch	imney	/ havii	ng an	identi	cal Ø
The second	Ref.: CT Ø RCI	CI-5						
	Interior Ø (mm)	305	355	406	457	508	559	610
	(inch)	12	14 114	16 114	18 114	20	22 114	24
	A (mm) (inch)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
CI-50	(mostly	4.0	4.0	7.0	7.0	4.0	4.0	7.5
Direction of flow								

FIRESTOPS

RADIATION SHIELD

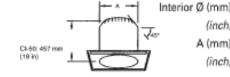
Protects combustible materials when the chimney passes through a floor, ceiling or an attic.

The radiation shield ensures a 50 mm (2-inch) safety clearance between the outer

No insulation should be inserted between the outer casing of the chimney and the

interior surface of the radiation shield. Made of galvalume steel.

casing of the flue and surrounding materials.



Ref.: FP/FPHT*

	2						
	CI-50)					
n)	305		406	457			610
h)	12	14	16	18	20	22	24
n)	508	559	610	660	711	762	813
h)	20	22	24	26	28	30	32

* FPHT for UL-103 HT application on mansonry fireplace only. Ensures a 100 mm (4-inch) clearance to combustibles.

WALL RADIATION SHIELD

Protects combustible materials when the chimney passes through a horizontal opening.

A decorative plate painted in matte black provides an interior finish. Supplied only in sizes of 152, 178, 203 and 254 mm (6, 7, 8 and 10 inches). The shield ensures a 50 mm (2-inch) safety clearance between the outer casing of the flue and surrounding materials. Adjustable to adapt to the thickness of the wall. Made of galvalume steel.

	CI-50	0					
terior Ø (mm)	305*	355*	406+	457*			610*
(inch)	12	14	16	18	20	22	24
A (mm)	560	610	660	710		810	
(inch)	21.8	23.8	25.7	27.7	29.6	31.6	33.5
B (mm)	406	457	508	559	610	660	711
(inch)	16	18	20	22	24	26	28
C min. (mm)	200	200	200	200	200	200	200
(inch)	7.8	7.8	7.8	7.8	7.8	7.8	7.8
C max. (mm)	307	307	307	307	307	307	307
(inch)	12.1	12.1	12.1	12.1	12.1	12.1	12.1
	A (mm) (inch) B (mm) (inch) C min. (mm) (inch) C max. (mm)	terior Ø (mm) 305* (inch) 12 A (mm) 560 (inch) 21.8 B (mm) 406 (inch) 16 C min. (mm) 200 (inch) 7.8 C max. (mm) 307	terior Ø (mm) 305* 355* (inch) 12 14 A (mm) 560 610 (inch) 21.8 23.8 B (mm) 406 457 (inch) 16 18 C min. (mm) 200 200 (inch) 7.8 7.8 C max. (mm) 307 307	terior Ø (mm) 305* 355* 406* (inch) 12 14 16 A (mm) 560 610 660 (inch) 21.8 23.8 25.7 B (mm) 406 457 508 (inch) 16 18 20 C min. (mm) 200 200 200 (inch) 7.8 7.8 7.8 C max. (mm) 307 307 307	terior Ø (mm) 305* 355* 406* 457* (inch) 12 14 16 18 A (mm) 560 610 660 710 (inch) 21.8 23.8 25.7 27.7 B (mm) 406 457 508 559 (inch) 16 18 20 22 C min. (mm) 200 200 200 200 (inch) 7.8 7.8 7.8 7.8 C max. (mm) 307 307 307 307	terior Ø (mm) 305* 355* 406* 457* 508* (inch) 12 14 16 18 20 A (mm) 560 610 660 710 760 (inch) 21.8 23.8 25.7 27.7 29.6 B (mm) 406 457 508 559 610 (inch) 16 18 20 22 24 C min. (mm) 200 200 200 200 200 (inch) 7.8 7.8 7.8 7.8 7.8 C max. (mm) 307 307 307 307 307 307	terior Ø (mm) 305* 355* 406* 457* 508* 559* (inch) 12 14 16 18 20 22 A (mm) 560 610 660 710 760 810 (inch) 21.8 23.8 25.7 27.7 29.6 31.6 B (mm) 406 457 508 559 610 660 (inch) 16 18 20 22 24 26 C min. (mm) 200 200 200 200 200 200 200 (inch) 7.8 7.8 7.8 7.8 7.8 7.8 7.8 C min. (mm) 307 307 307 307 307 307 307

*Not UL / ULC listed.

FIRESTOP RADIATION SHIELD

Attached on and/or under a floor or on both sides of a partition (CI-50), it serves to position the chimney whenever it passes through a floor, slab or joist, maintaining a minimum 50 mm (2-inch) clearance between the external casing of the flue and surrounding combustible materials. No section joint must be in the ceiling/floor space. Made of galvalume steel.

Ref.: FEA	CI-50)					
Interior Ø (mm)	305		406	457			610
(inch)	12	14	16	18	20	22	24
A (mm)	560	610	660	710	760	810	860
(inch)	22	24	26	28	30	32	34



Réf.: F	EAHT*	CI-50)					
7-/	Ø Interior (mm)	305		406	457			610
i/101	(inch)	12	14	16	18	20	22	24
A	A (mm)	710	760	810	860	910	960	1010
CI-50	(inch)	 28	30	32	34	36	38	40

*FEAHT for UL-103HT application on masonry fireplace only. Ensures a 100 mm (4-inch) clearance to combustibles.

STABILIZING BANDS

WALL BAND

Designed for interior or exterior use, this band stabilizes the chimney along a vertical or diagonal surface: wall, mast, partition, joist...

The band also ensures a minimum clearance of 50 mm (*2 inches*) between the outer casing of the chimney and the surface to which it is attached. A greater clearance requires the use of a wall band extension. Wall bands should be installed every 2.5 m (8 ft.) from any support in exterior installations, and 3 m (10 ft.) from supports in interior installations.



Exterior use: band and attachment made of 304 stainless steel (BMC). Interior use: band made of galvalume steel and attachment made of galvanized steel (BMEF).

Ref.: BM		CI-5	0					
Inter	ior Ø (mm)	305	355		457			610
	(inch)	12	14	16	18	20	22	24
	A (mm)	323	358	396	432	467	503	538
	(inch)	12.7	14.1	15.6	17	18.4	19.8	21.2
LBN	B (mm)	274	310	348	384	419	455	490
	(inch)	10.8	12.2	13.7	15.1	16.5	17.9	19.3
澳乡	C (mm)	50	50	50	50	50	50	50
2 r	(inch)	2	2	2	2	2	2	2
	D (mm)	50	50	50	50	50	50	50
	(inch)	2	2	2	2	2	2	2

WALL BAND EXTENSION

Attached to the wall band, it is designed to extend the clearance between the chimney and wall surface by 50 mm to 85 mm (*2 to 3.25 inches*). A bolt and slot configuration allow the adjustment. **Should always be used in UL-103HT application on masonry fireplace.**



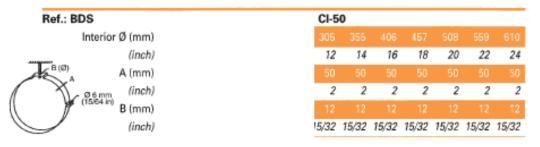
Keeps the outer casing of the flue 100 mm to 135 mm (4 to 5.25 inches) from the wall surface. Made of stainless steel BEC (exterior use) or galvanized steel BEF (interior use).

Ref.: BE		CI-5	0					
Inte	rior Ø (mm)	305	355	406	457		559	610
	(inch)	12	14	16	18	20	22	24
161	A (mm)	328	363	401	437	472	508	544
	(inch)	12.9	14.3	15.8	17.2	18.6	20	21.4
	B (mm)	274	310	348	384	419	455	490
(5.5 in)	(inch)	10.8	12.2	13.7	15.1	16.5	17.9	19.3
	C (mm)	50	50	50	50	50	50	50
	(inch)	2	2	2	2	2	2	2

STABILIZING BANDS

SUSPENSION BAND

Stabilizes and supports the **CI** chimney section used in a horizontal application. Makes it possible to suspend **CI** chimney sections using a threaded rod attach to the ceiling of the boiler room or any point. This support is needed every 2.00 m ($\delta.\delta ft$) or **CI-50** flue). Made of stainless steel (BDSC). Also available in galvalume (BDSE).



GUY WIRE BAND



Attached to the outer casing of the chimney, it is designed to hold 3 guy wires at a 120-degree angle to stabilize a **CI** chimney section extending from 1.5 metres (*5 ft.*) to 4 metres (*13 ft.*) beyond the last rooftop support (guy wires not included). Use three 5 mm (*3/16 inch*) guy wires, 120 degrees apart.

Made of stainless steel.





ROOF BRACE

This component comes complete with tightening collar and adjustable legs.

Used to stabilize the **CI** chimney section extending beyond the roof in areas subjected to high winds or lengths extending 1.5 m to 3 m (*5 to 10 ft.*) from the last support or attachment point. * The legs are adjustable from 850 mm to 1500 mm (*33 to 60 inches*)

Made of galvalume steel.

Ref.: BT





ROOF FLASHINGS

STORM COLLAR

Designed to fit over flashings of any kind, it ensures a watertight seal between the chimney's external casing and the flashing. The storm collar must be sealed with silicone caulking. Provided with all roof flashings.

Ref.: EC		CI-5	D					
Inter	ior Ø (mm}	305	355	406	457			610
	(inch)	12	14	16	18	20	22	24
	A (mm)	114						
	(inch)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
\Longrightarrow	B (mm)	123	123	123	123	123	123	123
€ DT	(inch)	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	C (mm)	46	46					
	(inch)	1.8	1.8	1.8	1.8	1.8	1.8	1.8

FLAT ROOF FLASHING



The roof plate, the flashing cone and the storm collar are made of galvalume steel.



It comes complete with a storm collar. The storm collar must be sealed with silicone caulking.

Ref.: EP			CI-5	0					
Interi	or Ø (mm)					457			610
	(inch)		12	14	16	18	20	22	24
M	A (mm)		279	279	279	279	279	279	279
ЬĄ	(inch)		11	11	11	11	11	- 11	11
	B (mm)		508				771	762	813
	(inch)		20	22	24	26	28	30	32
-8-	C (mm)		914			1067	1067	1067	1067
	(inch)		36	40	40	42	48	48	48

ADJUSTABLE ROOF FLASHING 5° TO 30°

This component seals a chimney length extending from a roof with a 5° to 30° pitch.

The roof plate is made of galvalume or aluminum while the flashing cone and the storm collar are made of galvalume steel.



It comes complete with a storm collar. The storm collar must be sealed with silicone caulking.

Ref.: E30		CI	CI-50						
In	terior Ø (mm)	30			457	508			
\sim	(inch)	1	2 1	4 16	18	20	22	24	
	A (mm)	59	4 65	5 711	772	833	889	950	
7	(inch)	23.	4 25.	8 28	30.4	32.8	35	37.5	
-	B (mm)	101	6 106	7 1067	1270	1168	1346	1473	
ιfι.	(inch)	4	04	2 42	50	46	53	58	
17	C (mm)	23	8 24	8 254	262	270	278	286	
\sim	(inch)	9.	4 9.	7 10	10.3	10.6	10.9	11.2	

ROOF FLASHING

ADJUSTABLE ROOF FLASHING 30° TO 45°

This component seals a chimney length extending from a roof with a 30° to 45° pitch.

The roof plate is made of galvalume or aluminum while the flashing cone and the storm collar are made of galvalume steel.

It comes complete with a storm collar. The storm collar must be sealed with silicone caulking.

Ref.: E45			CI-5	0					
Interio	r Ø (mm)					457	508		610
ല	(inch)		12	14	16	18	20	22	24
<u>⊨</u>	A (mm)		744	823	899	978	1057	1133	1212
<u> </u>	(inch)		29.3	32.4	35.4	38.5	41.6	44.6	47.7
Ξ\ģ	B (mm)		1219		1321	1219	1219	1346	1524
A A	(inch)		48	46	52	48	48	53	60
*~>	C (mm)			414	434	453	473	492	512
Y	(inch)		15.5	16.3	17	17.8	18.6	19.4	20.1

TERMINATION CAPS

A number of termination caps are available with CI chimney system. The purpose of a termination cap is to protect a male coupler and protect the chimney opening from rain, snow and leaves. It also provides an attractive finishing element.

FINISHING CONE

This finishing cone is secured to the last length of the chimney by centering coupler + locking band (NOT SUPPLIED)



The interior wall is flush with the inner lining of the chimney length, therefore producing a better draft: only the outer casing is cone-shaped. When the chimney system is terminated with a finishing cone, an insulated drain tee cap must be installed.

Ref.: CF		CI-50	D					
Interi	or Ø (mm)	305		406	457			610
	(inch)	12	14	16	18	20	22	24
Þт	A (mm)	323	323	323	323	323	323	323
	(inch)	12.7	12.7	12.7	12.7	12.7	12.7	12.7
\ î	B (mm)	305	355	406	457	508	559	610
\checkmark	(inch)	12	14	16	18	20	22	24

TERMINATION CAPS

SHORT TERMINATION



The short termination cap is secured to the last length of the chimney by a centering coupler + locking band (not supplied) available for **CI-50**. When the chimney system is terminated with a short termination, an insulated drain tee cap must be installed.

Ref.: CR	CI-50)					
Interior Ø (mm)	305			457	508		610
(inch)	12	14	16	18	20	22	24
🗩 🕂 A (mm)		457	508		610	660	
(inch)	16	18	20	22	24	26	28
— B (mm)	152						
← ∧ ── → (inch)	6	6	6	6	6	6	6

REGULAR RAIN CAP

The regular rain cap is secured to the last length of the chimney by twist-lock assembly (**CI-25**) or centering coupler (**CI-50**) + locking band (not supplied). The CU2 rain cap comes with a spark arrester for \emptyset 305 to 457 mm (12 to 18 inches).

Interior Ø (mm)

(inch) A (mm) (inch) B (mm) (inch)

C (mm) (inch)



Ref.: CU Ø 500 à 610 mm (Ø 20 m, à 24 m.)

CI-50)					
305			457	508*		610*
12	14	16	18	20	22	24
127			127		125	125
5	5	5	5	4.8	4.8	4.8
267	267	267		425	425	425
10.5	10.5	10.5	10.5	16.5	16.5	16.5
737	737	838	838			
29	29	33	33	34.7	36.6	38.6

TECHNICAL INFORMATION

E	Engineering Department										
	Technical Information and Quotation										
security	Fax: (514) 687-9569										
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Company Name:	Division:										
Address:											
Postal Code: Phone:		Fax:									
Required by:	Contact:										
Job name:	No.:	Closing Date: _									
Stack sizing required:											
Yes 🔲 No 💷				+							
Inner flue material:											
Outer casing material:											
Type of appliance:											
Natural draft 🗋 Negative pressure 🗋 Positive p	ressure 🖵										
Type of fuel:											
Input power:											
Stack configuration (offset, tee, etc.) Description (or o	Irawings):										
				+							
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Breeching configuration (connectors, tee, etc.) Descri											
(or drawings):											
				+-+-+							
				++							
Stack height:											
Stack diameter:				+-+-+							
Note: In order to guarantee a quick and accurate quo	tation,										
please send complete information and specifications detailed drawings.	with										

Established in Canada for over 30 years, Security Chimneys is a North American leader in the production of factory-built venting systems and fireplaces.

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ASHT+		
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		Available in diameters of 152 to 457 mm (6 to 18 in.)
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		For use with efficient solid fuel appliances.
		Listed to ULC-S629M standard.
		Available in diameters of 152 mm, 178 mm, and 203 mm (6, 7 and 8 in.)
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		Compatible with all gas appliances.
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		For use in vertical tubing for masonry chimneys.
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		Available in diameters of 127 to 610 mm (5 to 24 in.)
TUBINOX		
		To reline an existing masonry chimney, or to substitute the clay liner in a new masonry chimney.
		Listed to ULC-S635M, UL-1777 and ULC-S640M standards.
	_	A sufficient of a state of a state of a state of the stat

Available in diameters of 127 to 203 mm (5 to 8 in.)

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