

Z-FLEX®
Advanced Venting Solutions



Z-DENS™ Single Wall Rigid
Z-DENS™ Flexible Liner
Z-DENS™ Concentric



**Polypropylene Vent Systems for
High Efficiency Boilers & Water Heaters**

Z-Flex® Joins Forces With Cox Geelen®

Z-Flex® North America's leading independent manufacturer of specialty venting systems for over 35 years; has joined forces with Cox Geelen®, one of Europe's leading innovators and manufacturers of polypropylene venting systems.

Cox Geelen's manufacturing roots date back over a century and are recognized today worldwide for their technical knowledge, OEM experience and environmentally responsible business philosophy in the polypropylene venting industry.

Z-Flex® is proud to offer this polypropylene venting system, branded Z-DENS™, to our highly acclaimed product line-up which includes Z-VENT® and NovaVENT®.

Recent developments in flue systems for use with high efficiency heating appliances, combined with the increased familiarity of use and installer confidence in polypropylene venting systems, has led to the development and continuous improvement of the polypropylene Z-DENS™ system.

Designed and Tested Safe

Unlike PVC and CPVC pipe, Z-DENS™ is specifically designed, tested and listed as a vent system. Z-DENS™ is manufactured from environmentally safe and sustainable fire retardant polypropylene, offering superior performance properties.

The Self-Sealing design significantly reduces installation times and allows immediate system start up. Unlike PVC and CPVC, Z-DENS™ does not require glue and catalyst, eliminating costly cure times.

Z-DENS™ is available in diameters 2" (60 mm), 3" (80 mm), 4" (110 mm), 5" (125 mm), 6" (160 mm), 8" (200 mm) and 10" (250 mm). Z-DENS™ is also fully compatible with Z-DENS FLEX™ and Z-DENS™ CONCENTRIC making for a complete and safe flue gas system.

Approvals

- Tested and Listed to ULC S636.
- Conforms to the UL1738 requirements for category IV condensing appliances.
- CE marked according to the European standard EN 14471.
- Conforms to Gastec Qa 83-1

Recyclable

At the end of its life cycle, Z-DENS™ can be completely recycled.



Z-DENS™
SINGLE WALL



Z-DENS™
CONCENTRIC



Z-DENS™ FLEX

Specification

Approved polypropylene Vent Manufacturers

Supplier	Model
Z-Flex U.S. Inc. 20 Commerce Park N, Bedford, NH, 03110 Ph. 800-654-5600	Z-Dens/Cox Geelen



Z-DENS™ Single Wall

Z-DENS™ is certified for use with condensing oil and gas fired heating appliances having flue gas temperatures up to 248°F (120°C).

Specifications

- Specially developed, fire retardant Polypropylene
- ULC S636 certified for flue temperatures up to 230°F (110°C)
- Guaranteed up to a max flue temperature of 230°F (110°C)
- Cat II, IV Special Gas Vent
- Gas Vent BH, Class IIc
- Suitable for use with negative and positive pressure appliances.
- Available in appliance white finish in diameters 2" and 3".
Diameters 4", 5", 6", 8" and 10" supplied in UV stabilized* grey finish.
- Pressure tested to 20 inches W.C. (5000 pa, level H1).

Significant Advantages

- Complete vent system made from fire retardant polypropylene.
- Long lasting and easy to install, no cure time required.
- Resistant to acidic flue gas condensate reducing boiler contamination.
- In the event of expansion and contraction of the venting run, Z-DENS™ eliminates the inherent dangers found with PVC/CPVC glued pipe joints.
- Special ingredients in the material composition of Z-DENS™ ensure a fire retardant system and therefore is safer to use than other standard polymeric flue gas venting systems.

Safety

All polypropylene material, including PPs, expands and contracts with temperature change. To ensure that the installation initially is and remains completely flue gas tight, it is necessary that the Z-DENS™ bracket is used. For the correct installation of the bracket, follow the instructions in the installation manual (download at www.z-flex.com). Only by following these instructions can Z-DENS™ guarantee a safe and flue gas tight installation. Exclusive use of Z-DENS™ lubricant when installing Z-DENS™ PPs, ensures that a reliable and safe connection is guaranteed.

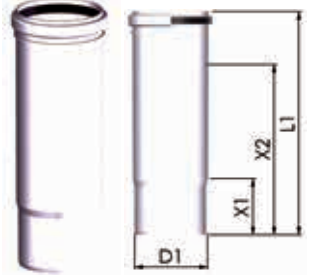
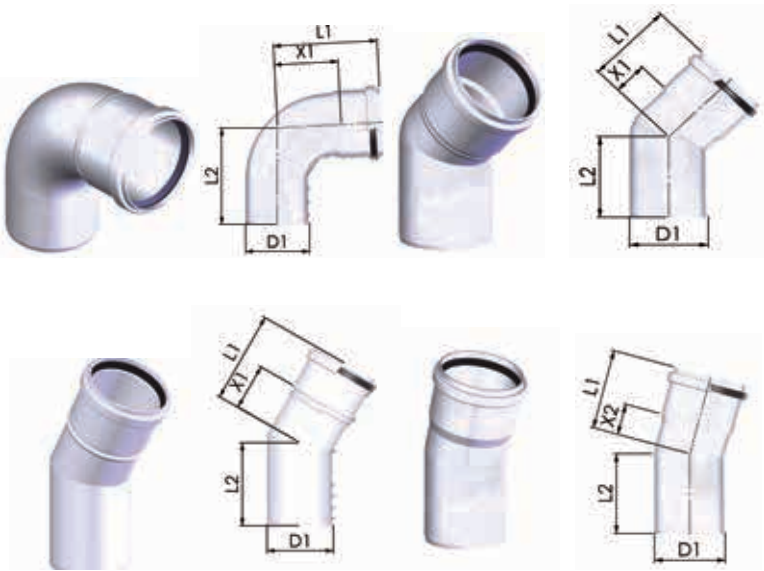
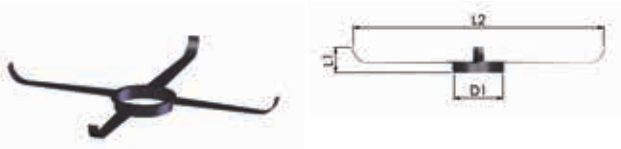
Environment

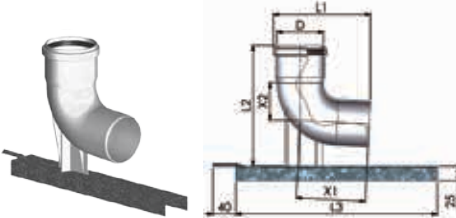
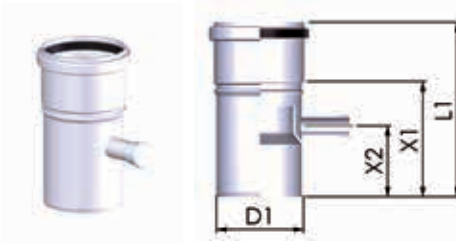
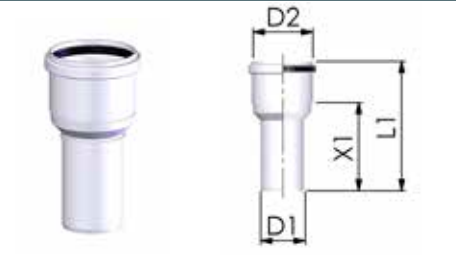
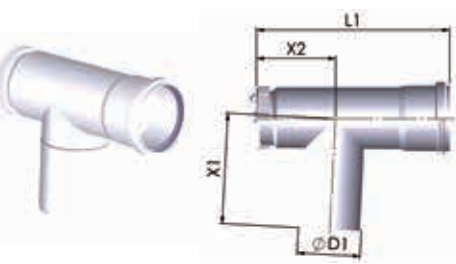
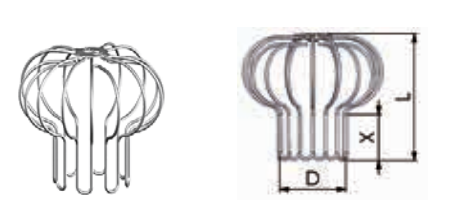
During the production of PPs flue gas systems less CO₂ is produced than with the production of traditional metal flue gas systems.

**UV stabilized parts available.*

Design Considerations

Greater efficiencies and a more aesthetically pleasing presence can also be achieved by using Z-DENS™ as the fresh air inlet.

	PPs Pipe	<table><tr><th>D1</th><th>L1</th><th>X1</th><th>D1</th><th>L1</th><th>X1</th></tr><tr><td>2 (60)</td><td>9.8 (250)</td><td>7.6 (194)</td><td>4.3 (110)</td><td>9.8 (250)</td><td>7.6 (194)</td></tr><tr><td>2 (60)</td><td>19.7 (500)</td><td>17.5 (444)</td><td>4.3 (110)</td><td>19.7 (500)</td><td>17.5 (444)</td></tr><tr><td>2 (60)</td><td>39.4 (1000)</td><td>37.2 (944)</td><td>4.3 (110)</td><td>39.4 (1000)</td><td>37.2 (944)</td></tr><tr><td>2 (60)</td><td>76.8 (1950)</td><td>74.6 (1894)</td><td>4.3 (110)</td><td>76.8 (1950)</td><td>74.6 (1894)</td></tr><tr><td>3 (80)</td><td>9.8 (250)</td><td>7.6 (194)</td><td></td><td></td><td></td></tr><tr><td>3 (80)</td><td>19.7 (500)</td><td>17.5 (444)</td><td></td><td></td><td></td></tr><tr><td>3 (80)</td><td>39.4 (1000)</td><td>37.2 (944)</td><td></td><td></td><td></td></tr><tr><td>3 (80)</td><td>76.8 (1950)</td><td>74.6 (1894)</td><td></td><td></td><td></td></tr></table>	D1	L1	X1	D1	L1	X1	2 (60)	9.8 (250)	7.6 (194)	4.3 (110)	9.8 (250)	7.6 (194)	2 (60)	19.7 (500)	17.5 (444)	4.3 (110)	19.7 (500)	17.5 (444)	2 (60)	39.4 (1000)	37.2 (944)	4.3 (110)	39.4 (1000)	37.2 (944)	2 (60)	76.8 (1950)	74.6 (1894)	4.3 (110)	76.8 (1950)	74.6 (1894)	3 (80)	9.8 (250)	7.6 (194)				3 (80)	19.7 (500)	17.5 (444)				3 (80)	39.4 (1000)	37.2 (944)				3 (80)	76.8 (1950)	74.6 (1894)						
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	PPs Adjustable pipe	<table><tr><th>D1</th><th>L1</th><th>X1</th><th>X2</th></tr><tr><td>2 (60)</td><td>10 (255)</td><td>2.5 (64.5)</td><td>7.9 (200)</td></tr><tr><td>3 (80)</td><td>10 (255)</td><td>2.5 (64)</td><td>7.9 (200)</td></tr><tr><td>4 (110)</td><td>10 (255)</td><td>3.1 (78)</td><td>7.9 (200)</td></tr></table>	D1	L1	X1	X2	2 (60)	10 (255)	2.5 (64.5)	7.9 (200)	3 (80)	10 (255)	2.5 (64)	7.9 (200)	4 (110)	10 (255)	3.1 (78)	7.9 (200)																																									
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	PPs Elbows	<table><tr><th></th><th>D1</th><th>L1</th><th>L2</th><th>X1</th></tr><tr><td rowspan="3">90°</td><td>2 (60)</td><td>4.7 (120)</td><td>4.3 (110)</td><td>2.6 (65)</td></tr><tr><td>3 (80)</td><td>4.7 (120)</td><td>4.7 (120)</td><td>3.1 (77.5)</td></tr><tr><td>4 (110)</td><td>4.7 (120)</td><td>4.7 (120)</td><td>3.1 (77.5)</td></tr><tr><td rowspan="3">45°</td><td>2 (60)</td><td>3.7 (95)</td><td>2.8 (70)</td><td>1.0 (25)</td></tr><tr><td>3 (80)</td><td>4.3 (110)</td><td>3.5 (90)</td><td>1.4 (35)</td></tr><tr><td>4 (110)</td><td>4.3 (110)</td><td>3.5 (90)</td><td>1.4 (35)</td></tr><tr><td rowspan="3">30°</td><td>2 (60)</td><td>3.7 (95)</td><td>3.3 (85)</td><td>1.6 (40)</td></tr><tr><td>3 (80)</td><td>4.3 (110)</td><td>3.9 (100)</td><td>2.2 (55.5)</td></tr><tr><td>4 (110)</td><td>4.3 (110)</td><td>3.9 (100)</td><td>1.6 (40)</td></tr><tr><td rowspan="3">15°</td><td>2 (60)</td><td>3.7 (95)</td><td>3.3 (85)</td><td>1.6 (40)</td></tr><tr><td>3 (80)</td><td>4.3 (110)</td><td>3.9 (100)</td><td>2.2 (55)</td></tr><tr><td>4 (110)</td><td>4.3 (110)</td><td>3.9 (100)</td><td>2.0 (50)</td></tr></table>		D1	L1	L2	X1	90°	2 (60)	4.7 (120)	4.3 (110)	2.6 (65)	3 (80)	4.7 (120)	4.7 (120)	3.1 (77.5)	4 (110)	4.7 (120)	4.7 (120)	3.1 (77.5)	45°	2 (60)	3.7 (95)	2.8 (70)	1.0 (25)	3 (80)	4.3 (110)	3.5 (90)	1.4 (35)	4 (110)	4.3 (110)	3.5 (90)	1.4 (35)	30°	2 (60)	3.7 (95)	3.3 (85)	1.6 (40)	3 (80)	4.3 (110)	3.9 (100)	2.2 (55.5)	4 (110)	4.3 (110)	3.9 (100)	1.6 (40)	15°	2 (60)	3.7 (95)	3.3 (85)	1.6 (40)	3 (80)	4.3 (110)	3.9 (100)	2.2 (55)	4 (110)	4.3 (110)	3.9 (100)	2.0 (50)
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	Support Bracket	<table><tr><th>D1</th></tr><tr><td>2 (60)</td></tr><tr><td>3 (80)</td></tr><tr><td>4 (110)</td></tr></table>	D1	2 (60)	3 (80)	4 (110)																																																					
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	Bracing Bracket	<table><tr><th>D1</th><th>L1</th><th>L2</th></tr><tr><td>2 (60)</td><td>1.9 (47)</td><td>4.7 (120)</td></tr><tr><td>3 (80)</td><td>1.9 (47)</td><td>4.9 (125)</td></tr><tr><td>4 (110)</td><td>2.4 (60)</td><td>5.4 (138)</td></tr></table>	D1	L1	L2	2 (60)	1.9 (47)	4.7 (120)	3 (80)	1.9 (47)	4.9 (125)	4 (110)	2.4 (60)	5.4 (138)																																													
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	Chimney elbow 87° with support	<table><tr><th>D1</th><th>L1</th><th>L2</th><th>L3</th><th>X1</th><th>X2</th></tr><tr><td>2 (60)</td><td>5.8 (148)</td><td>7.1 (180)</td><td>13.8 (350)</td><td>4.3 (110)</td><td>2.6 (65)</td></tr><tr><td>3 (80)</td><td>6.7 (169)</td><td>8.3 (210)</td><td>13.8 (350)</td><td>4.7 (120)</td><td>3.0 (75)</td></tr><tr><td>4 (110)</td><td>6.9 (175)</td><td>9.1 (230)</td><td>13.8 (350)</td><td>4.3 (110)</td><td>2.8 (70)</td></tr></table>	D1	L1	L2	L3	X1	X2	2 (60)	5.8 (148)	7.1 (180)	13.8 (350)	4.3 (110)	2.6 (65)	3 (80)	6.7 (169)	8.3 (210)	13.8 (350)	4.7 (120)	3.0 (75)	4 (110)	6.9 (175)	9.1 (230)	13.8 (350)	4.3 (110)	2.8 (70)
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	PPs Condensation drain	<table><tr><th>D1</th><th>L1</th><th>X1</th><th>X2</th></tr><tr><td>2 (60)</td><td>7.9 (200)</td><td>5.7 (145.5)</td><td>4.1 (105)</td></tr><tr><td>3 (80)</td><td>6.3 (160)</td><td>4.2 (105.5)</td><td>2.6 (65)</td></tr><tr><td>4 (110)</td><td>5.9 (150)</td><td>3.5 (90)</td><td>2.2 (55)</td></tr></table>	D1	L1	X1	X2	2 (60)	7.9 (200)	5.7 (145.5)	4.1 (105)	3 (80)	6.3 (160)	4.2 (105.5)	2.6 (65)	4 (110)	5.9 (150)	3.5 (90)	2.2 (55)								
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	PPs Increaser	<table><tr><th>D1</th><th>D2</th><th>L1</th><th>X1</th></tr><tr><td>2 (60)</td><td>3.1 (80)</td><td>6.9 (175)</td><td>4.5 (114)</td></tr><tr><td>3 (80)</td><td>4.3 (110)</td><td>6.5 (165)</td><td>4.3 (110)</td></tr><tr><td>4 (110)</td><td>4.3 (110)</td><td>6.3 (160)</td><td>4.1 (104)</td></tr></table>	D1	D2	L1	X1	2 (60)	3.1 (80)	6.9 (175)	4.5 (114)	3 (80)	4.3 (110)	6.5 (165)	4.3 (110)	4 (110)	4.3 (110)	6.3 (160)	4.1 (104)								
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	PPs Inspection T-piece	<table><tr><th>D1</th><th>L1</th><th>X1</th><th>X2</th></tr><tr><td>2 (60)</td><td>9.8 (250)</td><td>3.9 (100)</td><td>4.7 (120)</td></tr><tr><td>3 (80)</td><td>10.2 (260)</td><td>4.7 (120)</td><td>4.6 (118)</td></tr><tr><td>4 (110)</td><td>9.6 (245)</td><td>5.5 (140)</td><td>4.5 (114)</td></tr></table>	D1	L1	X1	X2	2 (60)	9.8 (250)	3.9 (100)	4.7 (120)	3 (80)	10.2 (260)	4.7 (120)	4.6 (118)	4 (110)	9.6 (245)	5.5 (140)	4.5 (114)								
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	Chimney cover	<table><tr><th>D1</th><th>L1</th><th>L2</th></tr><tr><td>2 (60)</td><td>14.2 (360)</td><td>5.5 (140)</td></tr><tr><td>3 (80)</td><td>14.2 (360)</td><td>5.5 (140)</td></tr><tr><td>4 (110)</td><td>14.6 (370)</td><td>5.5 (140)</td></tr></table>	D1	L1	L2	2 (60)	14.2 (360)	5.5 (140)	3 (80)	14.2 (360)	5.5 (140)	4 (110)	14.6 (370)	5.5 (140)												
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	Stainless steel terminal guard	<table><tr><th>D1</th><th>L</th><th>X</th></tr><tr><td>2 (60)</td><td>4.7 (120)</td><td>1.9 (47)</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>1.9 (47)</td></tr><tr><td>4 (110)</td><td>5.4 (138)</td><td>2.4 (60)</td></tr></table>	D1	L	X	2 (60)	4.7 (120)	1.9 (47)	3 (80)	4.9 (125)	1.9 (47)	4 (110)	5.4 (138)	2.4 (60)												
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Z-DENS™ FLEX

Z-DENS™ Polypropylene Flex System is engineered for ease of installation and time savings. No cure times required before appliance start-up. By using the pull-in tool, the flexible one piece liner can be installed quickly and easily. In order to assure a perfect position within the chimney, bracing brackets are used. The brackets are fitted to the flexible pipe at 6.5 feet (2 m) spacing.

**Z-Flex(US)® recommends that Z-DENS™ be stored above 32°F (0°C) and the material temperature be above 32°F (0°C) during installation.*

Z-DENS™ flex is a flexible polypropylene vent system specially designed for connection to condensing gas or oil fired heating appliances with a maximum flue temperature of 248°F (120°C)

Specifications:

- Made from flame retardant PP.
- Resistant up to temperature of 248°F (120° C).
- Operates in negative and positive pressure modes.
- Chimney termination is UV resistant, flex is not UV resistant.
- Designed as a vertical flue system installation but is safe to run at angles up to 45° from vertical.
- Available in white.
- Pressure tested to 20" WC (5000 pa, level H1)

Simple installation is ensured with:

- Flexible pipe can be cut to length on site.
- Coupling connectors allow easy joining of shorter lengths which can virtually eliminate waste.
- Lightweight flue system for ease of installation.
- Compact packaging due to its great flexibility.
- Wide range of accessories.

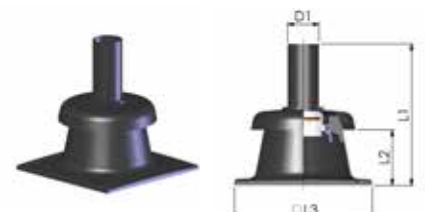
This flexible flue system is available in 3 diameters:

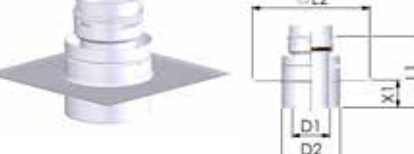
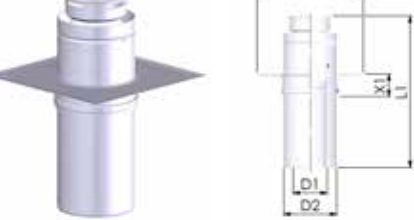
Nominal diameter	2"(Ø 60)	3"(Ø 80)	4"(Ø 110)
Inside diameter (mm)	2"(Ø 50.2)	3"(Ø 77)	4"(Ø 101)
Outside diameter (mm)	2.3"(Ø 58.4)	3.5"(Ø 88.1)	4.5"(Ø 113)
Weight (kg/meter)	<0.4(< 0.2)	<1(< 0.5)	<1.2(< 0.6)

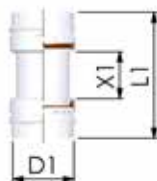
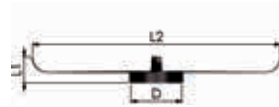
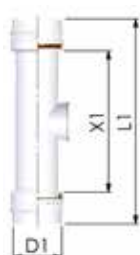
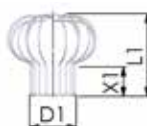
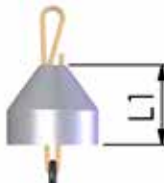
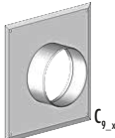
Installation

The installation manual of Z-DENS™ Flex shows just how simple it is to assemble and install the flexible vent system.

Z-DENS™ Flex Installation instructions are available in the download section of our website at www.z-flex.com

		2" - 4" Starter kit flex																																				
		3" Starter Kit Flex																																				
	Z-DENS™ Chimney cover for flexible pipes 2" and 4"	<table><tr><th>D1</th><th>L1</th><th>L2</th><th>L3</th></tr><tr><td>2 (60)</td><td>14.6 (370)</td><td>5.7 (145)</td><td>13.8 (350)</td></tr><tr><td>4 (110)</td><td>14.6 (370)</td><td>5.7 (145)</td><td>13.8 (350)</td></tr></table>	D1	L1	L2	L3	2 (60)	14.6 (370)	5.7 (145)	13.8 (350)	4 (110)	14.6 (370)	5.7 (145)	13.8 (350)																								
D1	L1	L2	L3																																			
2 (60)	14.6 (370)	5.7 (145)	13.8 (350)																																			
4 (110)	14.6 (370)	5.7 (145)	13.8 (350)																																			
	ECONEXT® Flex Chimney Cover 3" for masonry chimneys	<table><tr><th>D1</th><th>L1</th><th>L2</th><th>L3</th><th>L4</th></tr><tr><td>3 (80)</td><td>11 (280)</td><td>4.7 (120)</td><td>13.8 (350)</td><td>9.7 (245)</td></tr></table>	D1	L1	L2	L3	L4	3 (80)	11 (280)	4.7 (120)	13.8 (350)	9.7 (245)																										
D1	L1	L2	L3	L4																																		
3 (80)	11 (280)	4.7 (120)	13.8 (350)	9.7 (245)																																		
	ECONEXT® Chimney Cover 3" for stoneware chimney pot	<table><tr><th>D1</th><th>D2</th><th>L1</th></tr><tr><td>3 (80)</td><td>9.7 (245)</td><td>9.1 (230)</td></tr></table>	D1	D2	L1	3 (80)	9.7 (245)	9.1 (230)																														
D1	D2	L1																																				
3 (80)	9.7 (245)	9.1 (230)																																				
	Z-DENS™ Flex – flexible pipe	<table><tr><th>DN</th><th>D1</th><th>D2</th><th>L1</th></tr><tr><td>2 (DN60)</td><td>2 (50.2)</td><td>2.3 (58.4)</td><td>41 (12.5m)</td></tr><tr><td>2 (DN60)</td><td>2 (50.2)</td><td>2.3 (58.4)</td><td>82 (25m)</td></tr><tr><td>3 (DN80)</td><td>3 (77)</td><td>3.5 (88.1)</td><td>41 (12.5m)</td></tr><tr><td>3 (DN80)</td><td>3 (77)</td><td>3.5 (88.1)</td><td>82 (25m)</td></tr><tr><td>3 (DN80)</td><td>3 (77)</td><td>3.5 (88.1)</td><td>164 (50m)</td></tr><tr><td>3 (DN80)</td><td>3 (77)</td><td>3.5 (88.1)</td><td>2.62 (80m)</td></tr><tr><td>4 (DN110)</td><td>4 (101)</td><td>4.5 (113)</td><td>41 (12.5m)</td></tr><tr><td>4 (DN110)</td><td>4 (101)</td><td>4.5 (113)</td><td>82 (25m)</td></tr></table>	DN	D1	D2	L1	2 (DN60)	2 (50.2)	2.3 (58.4)	41 (12.5m)	2 (DN60)	2 (50.2)	2.3 (58.4)	82 (25m)	3 (DN80)	3 (77)	3.5 (88.1)	41 (12.5m)	3 (DN80)	3 (77)	3.5 (88.1)	82 (25m)	3 (DN80)	3 (77)	3.5 (88.1)	164 (50m)	3 (DN80)	3 (77)	3.5 (88.1)	2.62 (80m)	4 (DN110)	4 (101)	4.5 (113)	41 (12.5m)	4 (DN110)	4 (101)	4.5 (113)	82 (25m)
DN	D1	D2	L1																																			
2 (DN60)	2 (50.2)	2.3 (58.4)	41 (12.5m)																																			
2 (DN60)	2 (50.2)	2.3 (58.4)	82 (25m)																																			
3 (DN80)	3 (77)	3.5 (88.1)	41 (12.5m)																																			
3 (DN80)	3 (77)	3.5 (88.1)	82 (25m)																																			
3 (DN80)	3 (77)	3.5 (88.1)	164 (50m)																																			
3 (DN80)	3 (77)	3.5 (88.1)	2.62 (80m)																																			
4 (DN110)	4 (101)	4.5 (113)	41 (12.5m)																																			
4 (DN110)	4 (101)	4.5 (113)	82 (25m)																																			

	Wall plate B2 single pipe with integrated chimney elbow	<table><tr><th>D1</th><th>L1</th><th>L2</th></tr><tr><td>2 (60)</td><td>9.8 (250)</td><td>9.8 (250)</td></tr><tr><td>3 (80)</td><td>9.8 (250)</td><td>9.8 (250)</td></tr></table>	D1	L1	L2	2 (60)	9.8 (250)	9.8 (250)	3 (80)	9.8 (250)	9.8 (250)															
D1	L1	L2																								
2 (60)	9.8 (250)	9.8 (250)																								
3 (80)	9.8 (250)	9.8 (250)																								
	Wall plate B3 concentric with integrated chimney elbow	<table><tr><th>D1</th><th>D2</th><th>L1</th><th>L2</th></tr><tr><td>2 (60)</td><td>3.9 (100)</td><td>9.8 (250)</td><td>11.8 (300)</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>9.8 (250)</td><td>11.8 (300)</td></tr></table>	D1	D2	L1	L2	2 (60)	3.9 (100)	9.8 (250)	11.8 (300)	3 (80)	4.9 (125)	9.8 (250)	11.8 (300)												
D1	D2	L1	L2																							
2 (60)	3.9 (100)	9.8 (250)	11.8 (300)																							
3 (80)	4.9 (125)	9.8 (250)	11.8 (300)																							
	Wall plate C9 twin pipe with integrated chimney elbow	<table><tr><th>D1</th><th>L1</th><th>L2</th></tr><tr><td>2 (60)</td><td>7.1 (180)</td><td>11.8 (300)</td></tr><tr><td>3 (80)</td><td>7.1 (180)</td><td>11.8 (300)</td></tr></table>	D1	L1	L2	2 (60)	7.1 (180)	11.8 (300)	3 (80)	7.1 (180)	11.8 (300)															
D1	L1	L2																								
2 (60)	7.1 (180)	11.8 (300)																								
3 (80)	7.1 (180)	11.8 (300)																								
	Wall plate C9_x concentric with integrated chimney elbow	<table><tr><th>D1</th><th>D2</th><th>L1</th><th>L2</th></tr><tr><td>2 (60)</td><td>3.9 (100)</td><td>9.8 (250)</td><td>11.8 (300)</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>9.8 (250)</td><td>11.8 (300)</td></tr></table>	D1	D2	L1	L2	2 (60)	3.9 (100)	9.8 (250)	11.8 (300)	3 (80)	4.9 (125)	9.8 (250)	11.8 (300)												
D1	D2	L1	L2																							
2 (60)	3.9 (100)	9.8 (250)	11.8 (300)																							
3 (80)	4.9 (125)	9.8 (250)	11.8 (300)																							
	Ceiling plate C9_x with integrated flex connection	<table><tr><th>D1</th><th>D2</th><th>L1</th><th>L2</th><th>X1</th></tr><tr><td>2 (60)</td><td>3.9 (100)</td><td>6.1 (155)</td><td>9.8 (250)</td><td>2.4 (60)</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>6.1 (155)</td><td>9.8 (250)</td><td>2.4 (60)</td></tr></table>	D1	D2	L1	L2	X1	2 (60)	3.9 (100)	6.1 (155)	9.8 (250)	2.4 (60)	3 (80)	4.9 (125)	6.1 (155)	9.8 (250)	2.4 (60)									
D1	D2	L1	L2	X1																						
2 (60)	3.9 (100)	6.1 (155)	9.8 (250)	2.4 (60)																						
3 (80)	4.9 (125)	6.1 (155)	9.8 (250)	2.4 (60)																						
	Telescopic ceiling plate C9_x concentric with integrated flex connection	<table><tr><th>D1</th><th>D2</th><th>L1</th><th>L2</th><th>X1</th></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>14 (355)</td><td>9.8 (250)</td><td>2 (50)</td></tr></table>	D1	D2	L1	L2	X1	3 (80)	4.9 (125)	14 (355)	9.8 (250)	2 (50)														
D1	D2	L1	L2	X1																						
3 (80)	4.9 (125)	14 (355)	9.8 (250)	2 (50)																						
	Ceiling plate B2 single pipe with integrated flex connection	<table><tr><th>D1</th><th>L1</th><th>L2</th><th>X1</th></tr><tr><td>2 (60)</td><td>6.1 (155)</td><td>9.8 (250)</td><td>2 (60)</td></tr><tr><td>3 (80)</td><td>6.1 (155)</td><td>9.8 (250)</td><td>2 (60)</td></tr></table>	D1	L1	L2	X1	2 (60)	6.1 (155)	9.8 (250)	2 (60)	3 (80)	6.1 (155)	9.8 (250)	2 (60)												
D1	L1	L2	X1																							
2 (60)	6.1 (155)	9.8 (250)	2 (60)																							
3 (80)	6.1 (155)	9.8 (250)	2 (60)																							
	PPs chimney elbow 87° with galvanized support	<table><tr><th>D1</th><th>L1</th><th>L2</th><th>L3</th><th>L4</th><th>X1</th></tr><tr><td>2 (60)</td><td>4.7 (120)</td><td>4.3 (110)</td><td>7.1 (180)</td><td>15.4 (390)</td><td>2.6 (65)</td></tr><tr><td>3 (80)</td><td>5.1 (130)</td><td>4.7 (120)</td><td>8.3 (210)</td><td>15.4 (390)</td><td>3 (75)</td></tr><tr><td>4 (100)</td><td>4.7 (120)</td><td>4.3 (110)</td><td>9.1 (230)</td><td>15.4 (390)</td><td>2.6 (65)</td></tr></table>	D1	L1	L2	L3	L4	X1	2 (60)	4.7 (120)	4.3 (110)	7.1 (180)	15.4 (390)	2.6 (65)	3 (80)	5.1 (130)	4.7 (120)	8.3 (210)	15.4 (390)	3 (75)	4 (100)	4.7 (120)	4.3 (110)	9.1 (230)	15.4 (390)	2.6 (65)
D1	L1	L2	L3	L4	X1																					
2 (60)	4.7 (120)	4.3 (110)	7.1 (180)	15.4 (390)	2.6 (65)																					
3 (80)	5.1 (130)	4.7 (120)	8.3 (210)	15.4 (390)	3 (75)																					
4 (100)	4.7 (120)	4.3 (110)	9.1 (230)	15.4 (390)	2.6 (65)																					

 	PPs coupling flex-flex	<table><tr><th>D1</th><th>L1</th><th>X1</th></tr><tr><td>2 (60)</td><td>5.5 (140)</td><td>2.8 (70)</td></tr><tr><td>3 (80)</td><td>5.5 (140)</td><td>2.8 (70)</td></tr><tr><td>4 (110)</td><td>5.5 (140)</td><td>21.8 (70)</td></tr></table>	D1	L1	X1	2 (60)	5.5 (140)	2.8 (70)	3 (80)	5.5 (140)	2.8 (70)	4 (110)	5.5 (140)	21.8 (70)						
D1	L1	X1																		
2 (60)	5.5 (140)	2.8 (70)																		
3 (80)	5.5 (140)	2.8 (70)																		
4 (110)	5.5 (140)	21.8 (70)																		
 	PPs coupling flex-rigid	<table><tr><th>D1</th><th>L1</th><th>X1</th></tr><tr><td>2 (60)</td><td>4.3 (110)</td><td>2 (50)</td></tr><tr><td>3 (80)</td><td>4.3 (110)</td><td>2 (50)</td></tr><tr><td>4 (110)</td><td>4.3 (110)</td><td>2 (50)</td></tr></table>	D1	L1	X1	2 (60)	4.3 (110)	2 (50)	3 (80)	4.3 (110)	2 (50)	4 (110)	4.3 (110)	2 (50)						
D1	L1	X1																		
2 (60)	4.3 (110)	2 (50)																		
3 (80)	4.3 (110)	2 (50)																		
4 (110)	4.3 (110)	2 (50)																		
 	PPs adapter flex for chimney elbow	<table><tr><th>D1</th><th>L1</th><th>X1</th></tr><tr><td>2 (60)</td><td>3.9 (100)</td><td>2.4 (60)</td></tr><tr><td>3 (80)</td><td>3.9 (100)</td><td>2.4 (60)</td></tr><tr><td>4 (110)</td><td>3.9 (100)</td><td>2.4 (60)</td></tr></table>	D1	L1	X1	2 (60)	3.9 (100)	2.4 (60)	3 (80)	3.9 (100)	2.4 (60)	4 (110)	3.9 (100)	2.4 (60)						
D1	L1	X1																		
2 (60)	3.9 (100)	2.4 (60)																		
3 (80)	3.9 (100)	2.4 (60)																		
4 (110)	3.9 (100)	2.4 (60)																		
 	PPs bracing bracket flex	<table><tr><th>D</th><th>L1</th><th>L2</th></tr><tr><td>2 (60)</td><td>1.8 (45)</td><td>15.8 (400)</td></tr><tr><td>3 (80)</td><td>1.8 (45)</td><td>15.8 (400)</td></tr><tr><td>4 (110)</td><td>1.8 (45)</td><td>15.8 (400)</td></tr></table>	D	L1	L2	2 (60)	1.8 (45)	15.8 (400)	3 (80)	1.8 (45)	15.8 (400)	4 (110)	1.8 (45)	15.8 (400)						
D	L1	L2																		
2 (60)	1.8 (45)	15.8 (400)																		
3 (80)	1.8 (45)	15.8 (400)																		
4 (110)	1.8 (45)	15.8 (400)																		
 	PPs inspection piece flex	<table><tr><th>D</th><th>L1</th><th>X1</th></tr><tr><td>2 (60)</td><td>12.4 (315)</td><td>240</td></tr><tr><td>3 (80)</td><td>13.2 (335)</td><td>240</td></tr><tr><td>4 (110)</td><td>13.4 (340)</td><td>260</td></tr><tr><td>1</td><td>L1</td><td>L2</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>13 (330)</td></tr></table>	D	L1	X1	2 (60)	12.4 (315)	240	3 (80)	13.2 (335)	240	4 (110)	13.4 (340)	260	1	L1	L2	3 (80)	4.9 (125)	13 (330)
D	L1	X1																		
2 (60)	12.4 (315)	240																		
3 (80)	13.2 (335)	240																		
4 (110)	13.4 (340)	260																		
1	L1	L2																		
3 (80)	4.9 (125)	13 (330)																		
 	Stainless Steel terminal guard	<table><tr><th>D1</th><th>L1</th><th>X1</th></tr><tr><td>2 (60)</td><td>4.7 (120)</td><td>1.9 (47)</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>1.9 (47)</td></tr><tr><td>4 (110)</td><td>5.4 (138)</td><td>2.4 (60)</td></tr></table>	D1	L1	X1	2 (60)	4.7 (120)	1.9 (47)	3 (80)	4.9 (125)	1.9 (47)	4 (110)	5.4 (138)	2.4 (60)						
D1	L1	X1																		
2 (60)	4.7 (120)	1.9 (47)																		
3 (80)	4.9 (125)	1.9 (47)																		
4 (110)	5.4 (138)	2.4 (60)																		
 	Pull-in tool for flex	<table><tr><th>D1</th><th>L1</th></tr><tr><td>2 (60)</td><td>3.7 (95)</td></tr><tr><td>3 (80)</td><td>3.7 (95)</td></tr><tr><td>4 (110)</td><td>3.7 (95)</td></tr></table>	D1	L1	2 (60)	3.7 (95)	3 (80)	3.7 (95)	4 (110)	3.7 (95)										
D1	L1																			
2 (60)	3.7 (95)																			
3 (80)	3.7 (95)																			
4 (110)	3.7 (95)																			
 	Wall plate concentric																			
	Wall plate single wall																			

Z-DENS™ CONCENTRIC

Z-DENS™ CONCENTRIC is especially designed for use with condensing gas and oil heating appliances.

Certified to ULC S636 and CE Marked to the European standards EN 1856-1 and EN 14471.

Z-DENS™ CONCENTRIC, through continuous improvement is engineered for optimum performance.

The outer pipe is aluminum and the inner flue pipe is manufactured in fire retardant polypropylene. Please note that Z-DENS™ CONCENTRIC can only be selected for use with high efficiency/condensing appliances.

The inner pipe is centred in the outer pipe by the patented connection (Patent number: NL C 1022411). This system is available in concentric diameter sizes 2"/4" (60/100) 3"/5" (80/125) and 4"/6" (110/160 mm). Colour of outer pipe is white (RAL9016).

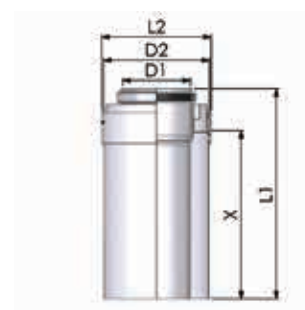
Significant Advantages

- The system is easy to assemble.
- The system is particularly rigid.
- It is modern in appearance.
- The same system can be used indoors as well as outdoors.
- Patent number: NL C 1022411.
- Certified to ULC S636 Gas Vent-BH Class II C - 110°C/ 230°F.
- CE Marked according the European standards EN 1856-1 and EN 14471.

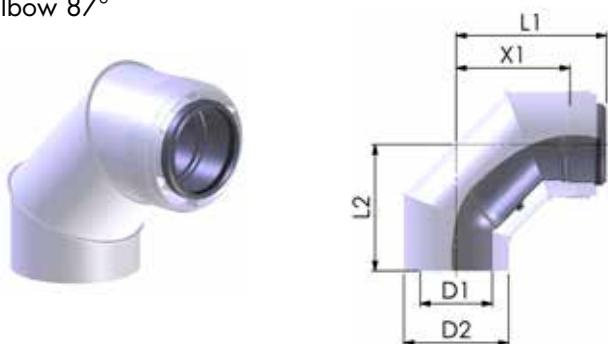


Z-DENS™ CONCENTRIC

Pipe

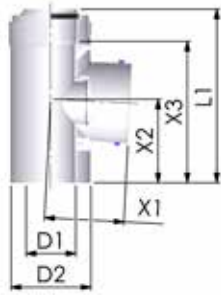


D1	D2	L1	L2	X
2 (60)	3.9 (100)	9.8 (250)	4.1 (105)	7.9 (200)
2 (60)	3.9 (100)	19.7 (500)	4.1 (105)	17.7 (450)
2 (60)	3.9 (100)	39.4 (1000)	4.1 (105)	37.4 (950)
3 (80)	4.9 (125)	9.8 (250)	3.1 (130)	7.9 (200)
3 (80)	4.9 (125)	19.7 (500)	3.1 (130)	17.7 (450)
3 (80)	4.9 (125)	39.4 (1000)	3.1 (130)	37.4 (950)
4 (110)	6.3 (160)	9.8 (250)	6.5 (165)	7.9 (200)
4 (110)	6.3 (160)	19.7 (500)	6.5 (165)	17.7 (450)
4 (110)	6.3 (160)	39.4 (1000)	6.5 (165)	37.4 (950)

Pipe		<table><tr><th>D1</th><th>D2</th><th>L1</th><th>X1</th></tr><tr><td>2 (60)</td><td>3.9 (100)</td><td>9.8 (250)</td><td>7.9 (200)</td></tr><tr><td>2 (60)</td><td>3.9 (100)</td><td>19.7 (500)</td><td>17.7 (450)</td></tr><tr><td>2 (60)</td><td>3.9 (100)</td><td>39.4 (1000)</td><td>37.4 (950)</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>9.8 (250)</td><td>7.9 (200)</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>19.7 (500)</td><td>17.7 (450)</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>39.4 (1000)</td><td>37.4 (950)</td></tr><tr><td>4 (110)</td><td>6.3 (160)</td><td>9.8 (250)</td><td>7.9 (200)</td></tr><tr><td>4 (110)</td><td>6.3 (160)</td><td>19.7 (500)</td><td>17.7 (450)</td></tr><tr><td>4 (110)</td><td>6.3 (160)</td><td>39.4 (1000)</td><td>37.4 (950)</td></tr></table>	D1	D2	L1	X1	2 (60)	3.9 (100)	9.8 (250)	7.9 (200)	2 (60)	3.9 (100)	19.7 (500)	17.7 (450)	2 (60)	3.9 (100)	39.4 (1000)	37.4 (950)	3 (80)	4.9 (125)	9.8 (250)	7.9 (200)	3 (80)	4.9 (125)	19.7 (500)	17.7 (450)	3 (80)	4.9 (125)	39.4 (1000)	37.4 (950)	4 (110)	6.3 (160)	9.8 (250)	7.9 (200)	4 (110)	6.3 (160)	19.7 (500)	17.7 (450)	4 (110)	6.3 (160)	39.4 (1000)	37.4 (950)
D1	D2	L1	X1																																							
2 (60)	3.9 (100)	9.8 (250)	7.9 (200)																																							
2 (60)	3.9 (100)	19.7 (500)	17.7 (450)																																							
2 (60)	3.9 (100)	39.4 (1000)	37.4 (950)																																							
3 (80)	4.9 (125)	9.8 (250)	7.9 (200)																																							
3 (80)	4.9 (125)	19.7 (500)	17.7 (450)																																							
3 (80)	4.9 (125)	39.4 (1000)	37.4 (950)																																							
4 (110)	6.3 (160)	9.8 (250)	7.9 (200)																																							
4 (110)	6.3 (160)	19.7 (500)	17.7 (450)																																							
4 (110)	6.3 (160)	39.4 (1000)	37.4 (950)																																							
Elbow 87°		<table><tr><th>D1</th><th>D2</th><th>L1</th><th>L2</th><th>X1</th></tr><tr><td>2 (60)</td><td>3.9 (100)</td><td>4.3 (110)</td><td>4.7 (120)</td><td>2.8 (70)</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>4.7 (120)</td><td>5.1 (130)</td><td>3.1 (80)</td></tr></table>	D1	D2	L1	L2	X1	2 (60)	3.9 (100)	4.3 (110)	4.7 (120)	2.8 (70)	3 (80)	4.9 (125)	4.7 (120)	5.1 (130)	3.1 (80)																									
D1	D2	L1	L2	X1																																						
2 (60)	3.9 (100)	4.3 (110)	4.7 (120)	2.8 (70)																																						
3 (80)	4.9 (125)	4.7 (120)	5.1 (130)	3.1 (80)																																						
Elbow 87°		<table><tr><th>D1</th><th>D2</th><th>L1</th><th>L2</th><th>X1</th></tr><tr><td>4 (110)</td><td>6.3 (160)</td><td>9.1 (230)</td><td>7.2 (184)</td><td>6.7 (171)</td></tr></table>	D1	D2	L1	L2	X1	4 (110)	6.3 (160)	9.1 (230)	7.2 (184)	6.7 (171)																														
D1	D2	L1	L2	X1																																						
4 (110)	6.3 (160)	9.1 (230)	7.2 (184)	6.7 (171)																																						
Elbow 45°		<table><tr><th>D1</th><th>D2</th><th>L1</th><th>L2</th><th>X1</th></tr><tr><td>2 (60)</td><td>3.9 (100)</td><td>3.1 (80)</td><td>2.8 (70)</td><td>.79 (20)</td></tr><tr><td>3 (80)</td><td>4.9 (125)</td><td>3.5 (90)</td><td>3.5 (90)</td><td>1.6 (40)</td></tr></table>	D1	D2	L1	L2	X1	2 (60)	3.9 (100)	3.1 (80)	2.8 (70)	.79 (20)	3 (80)	4.9 (125)	3.5 (90)	3.5 (90)	1.6 (40)																									
D1	D2	L1	L2	X1																																						
2 (60)	3.9 (100)	3.1 (80)	2.8 (70)	.79 (20)																																						
3 (80)	4.9 (125)	3.5 (90)	3.5 (90)	1.6 (40)																																						
Elbow 45°		<table><tr><th>D1</th><th>D2</th><th>L1</th><th>L2</th><th>X1</th></tr><tr><td>4 (110)</td><td>6.3 (160)</td><td>4.7 (120)</td><td>4 (110)</td><td>6.3 (70)</td></tr></table>	D1	D2	L1	L2	X1	4 (110)	6.3 (160)	4.7 (120)	4 (110)	6.3 (70)																														
D1	D2	L1	L2	X1																																						
4 (110)	6.3 (160)	4.7 (120)	4 (110)	6.3 (70)																																						

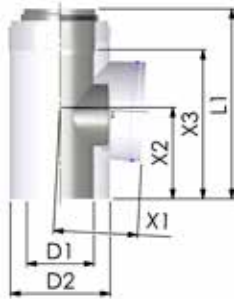
Z-DENS™ CONCENTRIC

Inspection Piece



D1	D2	L1	X1	X2	X3
2 (60)	3.9 (100)	9.8 (250)	3.9 (100)	4.7 (120)	7.9 (200)
3 (80)	4.9 (125)	10.6 (270)	4.7 (120)	5.1 (130)	8.67 (220)

Inspection Piece



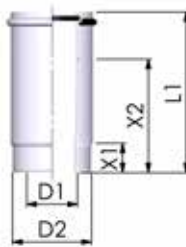
D1	D2	L1	X1	X2	X3
4 (110)	6.3 (160)	11.9 (303)	5.5 (140)	5.5 (140)	9.5 (244)

Inspection Elbow 87°



D1	D2	L1	L2	X1
2 (60)	3.9 (100)	4.7 (120)	4.3 (110)	2.8 (70)
3 (80)	4.9 (125)	5.1 (130)	4.7 (120)	3.1 (80)

Adjustable Pipe



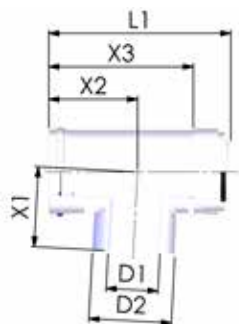
D1	D2	L1	X1	X2
2 (60)	3.9 (100)	10 (255)	1.6 (40)	8.09 (205.5)
3 (80)	4.9 (125)	10 (255)	1.6 (40)	8.09 (205.5)

Adjustable Pipe



D1	D2	L1	X1	X2
4.3 (110)	6.3 (160)	10.8 (275)	3.3 (85)	8.88 (225.5)

Inspection Piece



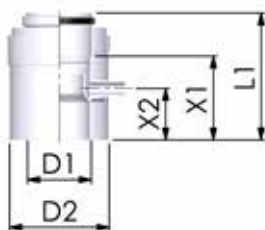
D1	D2	L1	X1	X2	X3
2 (60)	3.9 (100)	9.8 (250)	3.9 (100)	4.7 (120)	7.9 (200)
3 (80)	4.9 (125)	10.6 (270)	4.7 (120)	5.1 (130)	8.67 (220)

Inspection T-Piece



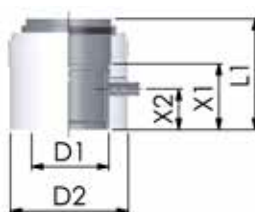
D1	D2	L1	X1	X2	X3
4.3 (110)	6.3 (160)	11.57 (294)	5.62 (143)	5.2 (132)	9.6 (244)

Condensation Drain



D1	D2	L1	X1	X2
2 (60)	3.9 (100)	6.9 (175)	4.9 (125)	3.1 (80)
3 (80)	4.9 (125)	6.3 (160)	4.3 (110)	2.6 (65)

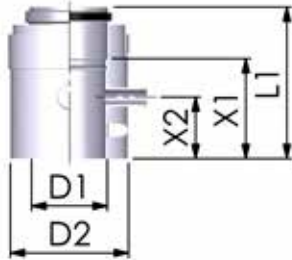
Condensation Drain



D1	D2	L1	X1	X2
4.3 (110)	6.3 (160)	5.9 (150)	3.9 (100)	2.2 (55)

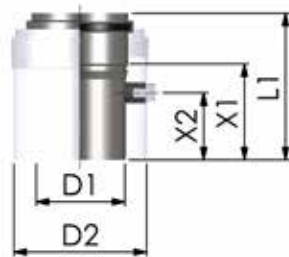
Z-DENS™ CONCENTRIC

Test Port



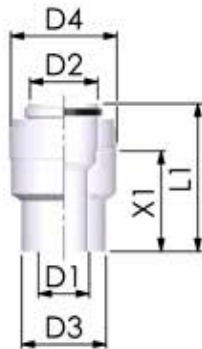
D1	D2	L1	X1	X2
2 (60)	3.9 (100)	6.9 (175)	4.9 (125)	3 (80)
3 (80)	4.9 (125)	6.3 (160)	4.3 (110)	2.2 (55)

Test Port



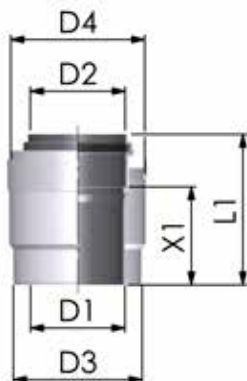
D1	D2	L1	X1	X2
4 (110)	6.3 (160)	6.9 (175)	4.9 (125)	3.1 (80)

Increaser



D1	D2	D3	D4	L1	X1
2 (60)	3.1 (80)	3.9 (100)	4.9 (125)	6 (175)	4.9 (125)

Increaser



D1	D2	D3	D4	L1	X1
4 (110)	4.3 (110)	5.9 (150)	6.3 (160)	6.9 (175)	4.9 (125)

Z-FLEX®

The Engineered Venting Systems Specialists

Z-FLEX®, part of the Novaflex Group of companies, is the leading manufacturer of specialty venting systems for furnaces, boilers, water heaters, oil heaters, fireplaces, and more.

Z-FLEX® has been providing flexible answers to gas, oil, pellet and wood venting applications since 1979. We have pioneered flexible chimney liner solutions and Special Gas Vent (ferritic stainless steel). A variety of innovations in materials and construction have led to products that deliver:

- Superior performance and increased efficiency
- Easier handling and faster, simpler installation
- Greater reliability, safety and increased service life

To that we add responsive customer service and expert technical support.

The NovaFlex Group® is a privately held company committed to continuous advancement in venting, HVAC, hose and connector solutions. NovaFlex® has one of the broadest product ranges available in the hose and ducting marketplace as well as in the HVAC, Industrial Venting and Hose Industries and in Commercial Exhaust Venting Systems.

It is impossible to test all NovaFlex® and Z-Flex® products under all of the conditions to which they might be subjected in the field. It is therefore the buyer and/or end users' responsibility to test all products under conditions that duplicate service conditions prior to installation. Due to continuous improvements, technical data in this brochure is subject to change without notice. It is incumbent on installer to determine suitability of product for application and adhere to all local building codes that may or are applicable. Please defer to Novaflex & Z-Flex terms and conditions of sale located at: www.novaflex.com/TermsConditions/



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