

## Submittal

### Z-DENS

A revolutionary self sealing Type BH Venting System that dramatically reduces the cost of an installed vent system.

- Gasketed connections
- NO sealant and cure time for quick system start up
- NO toxic or explosive primers and cements
- NO chlorides to leach out
- Recyclable - environmentally friendly
- Manufactured from fire retardant polypropylene
- Field cut or adjustable length; saving time and money
- Pressure rating exceeds industry standards
- Singlewall manufactured in 2" to 8" diameters
- Flexible manufactured in 2", 3" and 4" diameters
- Concentric manufactured in 2"/4", 3"/5" and 4"/6" diameters.

### Double Fail Safe™ Connections

**Z-DENS** components are supplied with self sealing gasket connections that installs in a fraction of the time as compared to field primed/glued and sealed systems. The special design of the gaskets, along with precision engineered close tolerance construction of components, ensures a reliable seal and a tight fit.

### High Pressure

**Z-DENS** components are supplied with factory installed, fail safe seals tested to 20"W.C. which exceeds industry standards.

### Intertek Tested and Listed

**Z-DENS** Polypropylene vent is tested and listed by Intertek to ULC-S636 Type BH Venting System to Class IIC with a maximum flue gas temperature of 230°F (110°C) and certified to zero clearance to combustible construction.



Z-DENS  
SINGLE WALL RIGID



Z-DENS  
CONCENTRIC



Z-DENS FLEXIBLE

### Suggested Specification

Venting shall be: **Z-DENS: as supplied by Z-FLEX U.S. Inc. (800)654-5600**. The vent system shall consist of factory pipe and fittings incorporating a factory fitted fail safe sealing gasket which, when installed in accordance with the manufacturers installation instructions, will seal joints without the use of field applied primer/glue or sealant.

The vent system shall be leakage tested to 20" W.C. positive pressure. The vent system shall be tested and listed by Intertek to ULC-S636 with a maximum allowable continuous flue gas temperature to 230°F and certified to zero clearance to combustible construction.



# Technical Data Sheet

## APPLICATION

Z-DENS is a ULC-S636 listed polypropylene gas venting system suitable for venting positive or negative pressure residential and commercial gas and oil fired Category II and IV condensing heating appliances with a maximum continuous flue gas temperature of 230°F (110°C).

### Single Wall

Available in appliance white non UV stabilized polypropylene and black UV stabilized polypropylene in 2" and 3" diameters. Available in grey UV stabilized polypropylene in 4", 5", 6" and 8" diameters. The vent system is certified to zero clearance to combustible construction. See appliance manufacturer's instructions for recommended clearances.

### Flexible

Available in 2", 3" and 4" diameters. Designed for vertical chimney or chase flue system installations but is safe to run at an angle up to 45° from vertical. The vent system is certified to zero clearance to combustible construction. See appliance manufacturer's instructions for recommended clearances.

### Concentric

Available in 2"/4", 3"/5", and 4"/6" concentric diameters. The vent system is certified to zero clearance to combustible construction. See appliance manufacturer's instructions for recommended clearances.

## CONSTRUCTION

The flue is manufactured from polypropylene. Polypropylene has excellent resistance to corrosive condensate from gas and oil fired condensing heating appliances, is fire retardant and is certified for a maximum flue gas temperature of 230°F (110°C). Polypropylene is resistant up to a maximum flue gas temperature of 248°F (120°C). The unique built-in gasket system provides air and water tight connections with no primers, glues or sealant and is leakage tested to 20" W.C.

## U.S.A.

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## CANADA

452 Attwell Drive, Etobicoke, ON M9W 5C3  
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*Details subject to change without notice.  
Dimensions are nominal.*

## MATERIAL SPECIFICATION

FIRE RETARDANT POLYPROPYLENE AND UV STABILIZED WHERE SPECIFIED.

## SEALING SYSTEM

Z-DENS components are supplied with factory installed, self-sealing gaskets. The gaskets special design along with precision engineered close tolerance construction ensure a reliable air and water tight seal which is tested to 20" W.C.

## APPROVAL

Z-DENS is listed by Intertek under Spec ID 35440 and 35498 (Concentric) to ULC-S636 as a Class IIC Type BH Venting System with a maximum flue gas temperature of 230°F (110°C) and certified to zero clearance to combustible construction.

Z-DENS is attested by CSA Group under Certificate 70113759 as a direct replacement for comparable PVC and CPVC appliance vent currently approved on CSA Certified gas burning appliances without further retesting of the appliance.

Z-DENS is approved by Massachusetts Plumbing Board under approval code G3-0417-538 as a polypropylene gas vent system.

**Please note:** Different manufacturers have different joint systems and adhesives. Do not mix pipe, fittings or joining methods from different manufacturers without an approved adapter, as doing so will void any and all warranties.

The information provided within is for informational purposes only. We have made every effort to ensure the accuracy of the provided information and assume no responsibility for any loss or damage due to errors or omissions or to the use or misuse of any information supplied. It is impossible to test all products under all 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 the conditions that duplicate the service conditions prior to installation. All improvements, all specifications are subject to change without prior notice. It is the buyer and/or end users' responsibility to review our complete **Terms and Conditions of Sale** located on our web sites at: [www.novaflex.com](http://www.novaflex.com) | [www.z-flex.com](http://www.z-flex.com) | [www.flexmaster.com](http://www.flexmaster.com).



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