

## TECHNICAL SPECIFICATION

### PVC Gas Venting System Royal GVS-65™ Schedule 40 Pipe and Fittings

#### **SCOPE**

This specification covers the requirements for PVC (polyvinyl chloride) GVS-65™ pipe and fittings. The pipe and fittings are available in nominal sizes of 1 ½", 2", 2 ½", 3" and 4". The pipe and fittings are certified together as a system by Intertek Testing Services to CAN/ULC S636 as a Type BH, Class IIA, Gas Vent, for use with appliances with flue gas temperature of up to and including 65°C. This product requires zero clearance to combustibles. The pipe and fittings are certified as a system and cannot be installed with pipe and fittings produced by other manufacturers. The pipe and fittings shall be assembled using only primer (purple) and solvent cement (grey) listed as part of the Royal GVS-65™ system.

#### **MATERIALS**

The pipe and fittings are manufactured from virgin PVC compound meeting the cell classification requirements of 12454 as defined by the American Society of Testing and Materials (ASTM) standard D 1784: *Standard Specification for Rigid PVC Compounds and CPVC Compounds*.

#### **MARKING**

Pipe and fitting markings are as specified in CAN/ULC S636.

#### **PIPE**

The pipe is manufactured as a plain end, Schedule 40 pipe with dimensions as shown below.

#### **FITTINGS**

The fittings are manufactured to meet Schedule 40 fitting dimensions. The fitting types and sizes that are available as part of this system are shown below.

#### **TEST REQUIREMENTS**

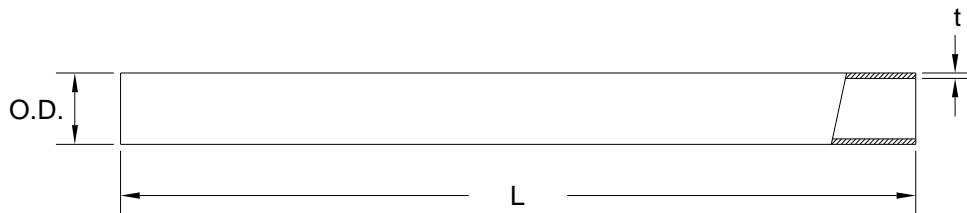
Quality testing is as per Royal's Quality Assurance program.

## **FLAME SPREAD AND SMOKE DEVELOPED RATING**

This pipe is certified by Intertek Testing Services to ULC S102.2 with a flame spread (FS) rating of 10 and a smoke developed (SD) rating of 320.

## **PIPE DIMENSIONS**

Nominal Size in (mm)	Outside Diameter (O.D.) in	Wall Thickness (t) in	Overall Length (L) ft
1-1/2 (40)	1.894 – 1.906	0.145 – 0.165	10 Plain End
2 (50)	2.369 – 2.381	0.154 – 0.174	10 Plain End
2 ½ (65)	2.868 - 2.882	0.203 - 0.227	10 Plain End
3 (75)	3.492 – 3.508	0.216 – 0.242	10 Plain End
4 (100)	4.491 – 4.509	0.237 – 0.265	10 Plain End



## **FITTINGS**

Type	Sizes
Coupling	1 ½", 2", 2 ½", 3", 4"
Increaser	2 x 1 ½", 3" x 2", 4" x 3"
90 Degree Elbow (H x H)	1 ½", 2", 2 ½", 3", 4"
90 Degree Elbow (Sp x H)	2", 3"
90 Degree Long Sweep Elbow (H x H)	2", 3"
45 Degree Elbow (H x H)	1 ½", 2", 2 ½", 3", 4"
Reducer Bushing	2 x 1 ½", 1 ½" x ½", 2 ½" x 2", 2 ½" x 1 ½", 3" x 2", 3 x 2 ½"
Tee	1 ½", 2", 2 ½", 2" x 1 ½", 3" x 1 ½", 4" x 2", 3", 4"
Female Adapter	2"
Cap	4"