

# TEST REPORT

(This Report is issued subject to the terms & conditions set out below)

**Setesco Services Pte Ltd**  
531 Bukit Batok Street 23  
Singapore 659547  
Tel : (65) 6566 7777  
Fax: (65) 6566 7718  
www.setesco.com  
Business Reg. No. 196900269D

Date: 12<sup>th</sup> August 2022

Your Ref: PO22000036  
Dated: 14/01/2022

Our Ref: MM-8500212753/CY/2

Page 1 of 3

**Subject** : Testing of uPVC Fitting submitted by SNOW Pte Ltd on 19<sup>th</sup> May 2022.

**Tested for** : **SNOW PTE LTD**  
15A Tuas Ave 18 #03-01 & #04-01  
Singapore 638905  
**Attn:** Mr Huang Sheng Jie

**Date & Place of Test** : 24<sup>th</sup> May 2022 at Setsco Laboratory

**Method of Test** : SS 213: 1998  
1) Dimensional Measurement

**Description of Sample** : One (01) uPVC Fitting (see photographs) was received as follows:

S/No.	Sample Reference	Sample Marking	Qty
1	uPVC Offset Pan Collar	SNOW 100mm	01



CHEN YU  
Testing Officer



CHENG KWANG MENG  
Senior Manager (Mechanical Testing)  
Mechanical Technology Division

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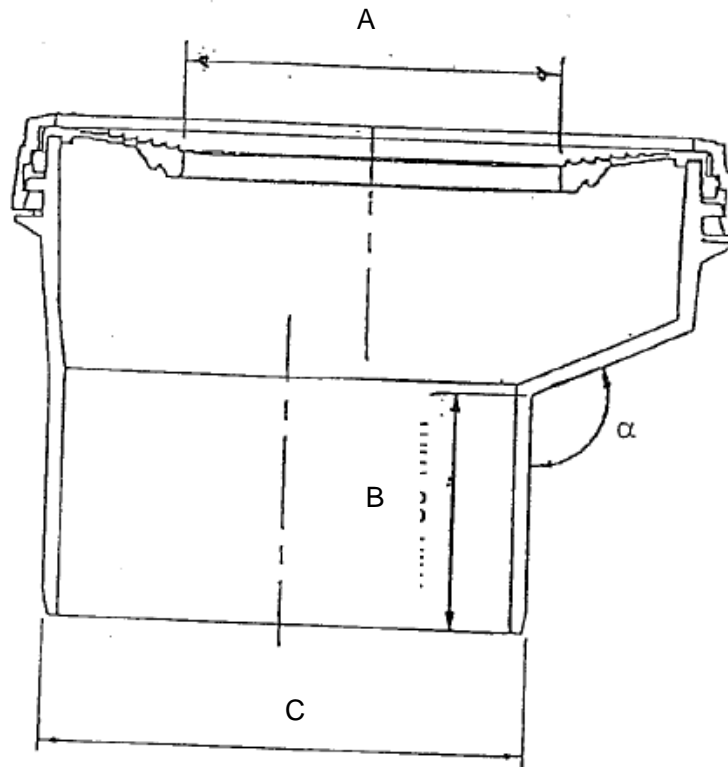
LA-1993-0051-C LA-1988-0144-D  
LA-1993-0067-G LA-2000-0181-F  
LA-1994-0068-A LA-2012-0519-E  
LA-1987-0001-B

**Results:**

**Table 1: Dimensional Measurement Test**

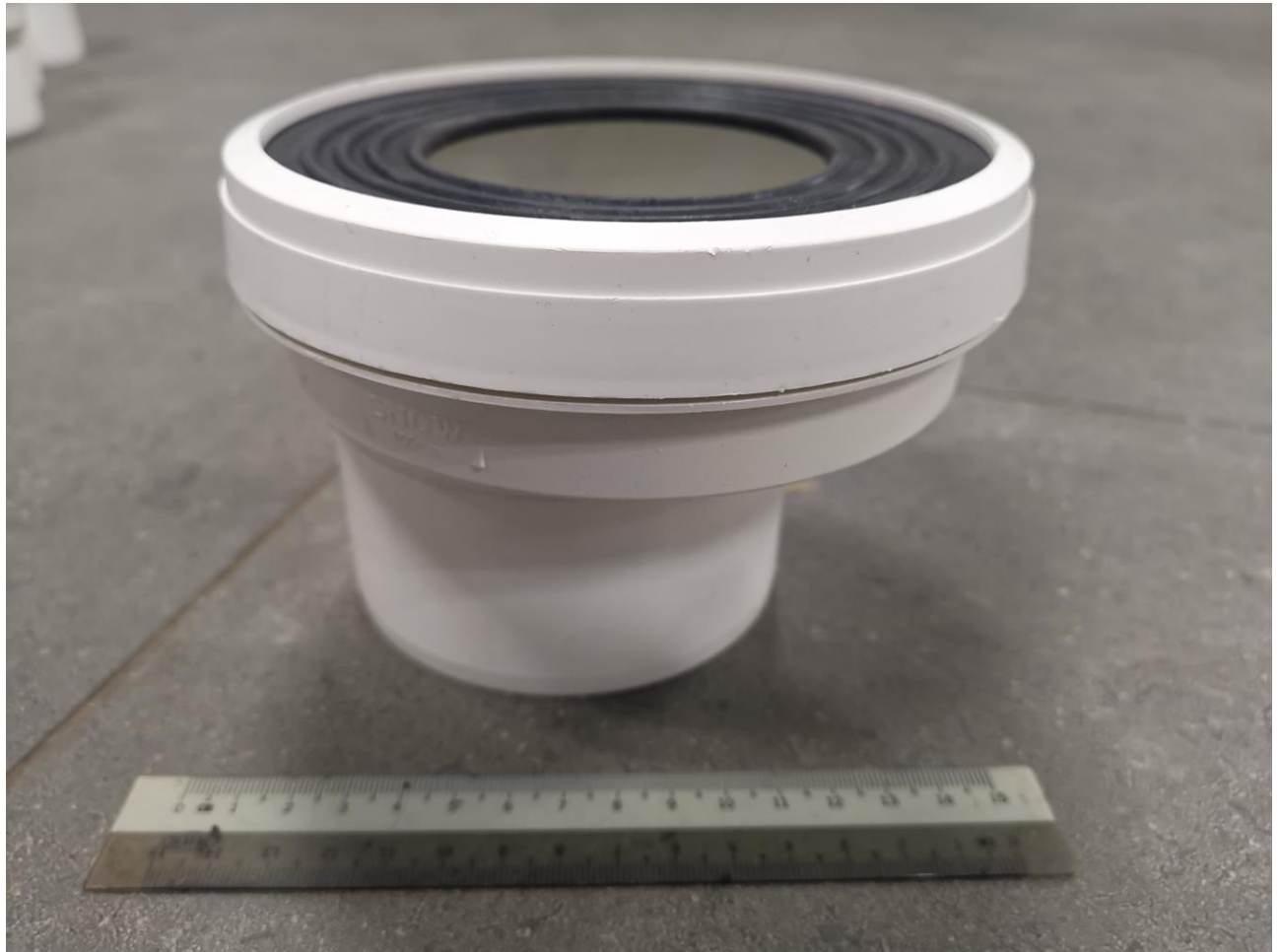
Sample Reference		uPVC Offset Pan Collar			SS 213 : 1998 Requirements (Figure 2.15)	
		Point 1	Point 2	Point 3		
Wall Thickness (mm)	Individual	3.48#	3.20#	3.21#	Min. : 3.2	
	Average	3.30#				
Dimension	A (mm)	Individual	78.40	77.81	78.39	Max. : 83
		Average	78.2			
	B (mm)	Individual	48.32	48.70	48.05	Min. : 30
		Average	48.36			
	C (mm)	Individual	102.38	102.36	102.04	102±1.0
		Average	102.26			
	$\alpha$ (°)	Individual	113.9	114.7	115	Min. : 92
		Average	114.5			

# Measurement is done at pipe connection portion.



*Gy.*

**Appendix**



**Photographs showing submitted uPVC Straight Pan Collar**

Gy.

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Date: 12<sup>th</sup> August 2022

Your Ref: PO22000036  
Dated: 14/01/2022

Our Ref: MM-8500212753/CY/4

Page 1 of 3

**Subject** : Testing of uPVC Fitting submitted by SNOW Pte Ltd on 19<sup>th</sup> May 2022.

**Tested for** : **SNOW PTE LTD**  
15A Tuas Ave 18 #03-01 & #04-01  
Singapore 638905  
**Attn:** Mr Huang Sheng Jie

**Date & Place of Test** : 26<sup>th</sup> to 27<sup>th</sup> May 2022 at Setsco Laboratory

**Method of Test** : SS 213: 1998  
1) Stress relief test  
2) Hydrostatic pressure test  
3) Opacity test  
4) Freedom from defects

**Description of Sample** : Two (02) uPVC Fittings (see photographs) were received as follows:

S/No.	Sample Reference	Sample Marking	Qty
1	uPVC Offset Pan Collar	SNOW 100mm	02

  
CHEN YU  
Testing Officer

  
CHENG KWANG MENG  
Senior Manager (Mechanical Testing)  
Mechanical Technology Division

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LA-1994-0068-A LA-2012-0519-E  
LA-1987-0001-B

**Results:****Table 1: Stress Relief**

Sample Reference	Observation		SS 213 : 1998 Requirements
	Weld line	Injection point	
uPVC Offset Pan Collar	Passed	Passed	<p>No point along its length shall the 'Weld Line' open through the complete thickness of the fitting.</p> <p>Any surface damage around the injection point shall not penetrate to a depth greater than 50% of the wall thickness at that point</p>

**Table 2: Hydrostatic Pressure Test**

Sample Reference	uPVC Offset Pan Collar	SS 213 : 1998 Requirements
Pressure (kPa)	70	-
Duration (secs)	60	Min.: 15secs Max.: 60secs
Observation	Passed	Shall show no signs of leakage or any defects

**Table 3: Opacity Test**

Sample Reference	uPVC Offset Pan Collar	SS 213 : 1998 Requirements
Opacity Test	Passed	Shall not transmit 0.2% of visible light

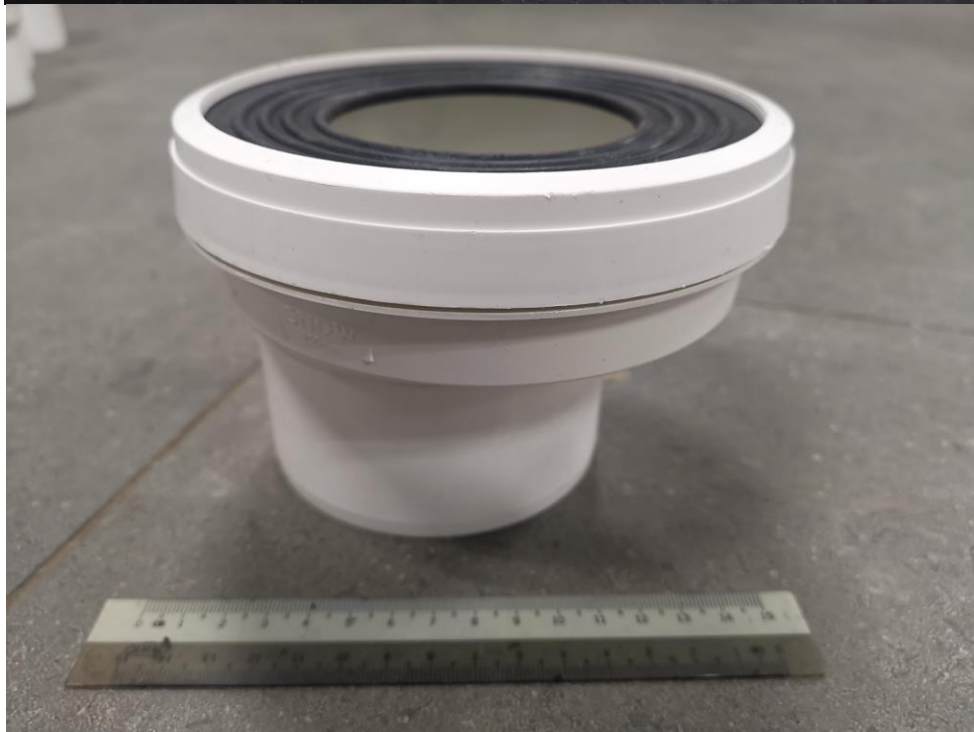
**Table 4: Freedom from defects**

Sample Reference	uPVC Offset Pan Collar	SS 213 : 1998 Requirements
Freedom from defects	Passed	The internal and external surfaces of the fittings shall be clean, smooths and reasonably free from grooving and other defects.

Remark: The above is not an accredited test.

Gy.

**Appendix**



**Photographs showing submitted uPVC Offset Pan Collar**

Gy.

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Business Reg. No. 196900269D

**Our Ref : MM-8500212753/2-2/RH**

**Date : 06/06/2022**

Page 1 of 1

**Subject :** Determination of PVC and titanium dioxide (TiO<sub>2</sub>) content of sample submitted by SNOW PTE LTD on 25/05/2022 and test commenced on 25/05/2022.

**Test For :** **SNOW PTE LTD**  
15A Tuas Ave 18  
#03-01 & #04-01  
Singapore 638905  
**Attn : Mr Huang Sheng Jie**

**Method of Test :** SS 272 Annex C : 2012

**Sample Description :** Offset Pan Collar  
Brand : SNOW

**Results :**

Determination	Result	SS 213 : 1998 Requirement
PVC Content (% , m/m)	85.2	Min. 83.3
Titanium Dioxide Content (per 100 parts by mass of PVC)	4.2	Min. 2

  
KUEH HUI LIN  
EXECUTIVE CHEMIST

**BIOLOGICAL AND CHEMICAL TECHNOLOGY DIVISION**

  
RENNY HUSNI  
PRINCIPAL CHEMIST

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