

TEST REPORT

SABS

GINDE PLASTIC PIPE SYSTEM
Att: Mr. Jannie Venter
 P.O Box 4679
 Rietvalleirant
 0174

Your ref : P.P.S No.150
 Our ref : 10H206
 Enquiries : B. Felemu
 Tel no : (012) 428-6962
 Page : 1 of 4
 Date : 14-04-2011

TESTING TO SANS 21003:2008
 REF NO.MARK 8751/ P.P.S150/2011

0 SUMMARY

The partial test for pressure cycling, vacuum, dezincification, marking, and dimension test was performed on the Ginde pipes and fittings submitted. The sample passed these tests. Refer to Clause 4 for the detail of the test performed, clause 9 for a summary of the results.

1 DESCRIPTION OF SAMPLE

The following samples were submitted by N. Samsodeen on behalf of the company Ginde Plastic Pipes.

<u>Sample No.</u>	<u>Size</u>	<u>Sample Description</u>
10H206	16mm	Ginde pipes and fittings

2 REPORT CONDITIONS

The contents of this test report refers to the sample/s detailed above and does not infer that the above samples (or any other similar samples) are SABS approved for quality and/or performance.

In the instance where this report is used to verify compliance with the JASWIC Acceptance Scheme, the validity of the test reports shall not exceed a period of one (1) year.

3 SAMPLE SUBMITTED

The sample was received in good condition and was suitable for testing.

Date sample received : 22-11-2010
 Date test started : 25-01-2011
 Date test completed : 02-02-2011

4 TEST REQUESTED

To test the sample for partial compliance with the requirements of SANS 21003:2008.

5 METHODS OF TESTING

Methods used according to SANS 21003:2008.

6 SUBCONTRACTING OF LABORATORIES

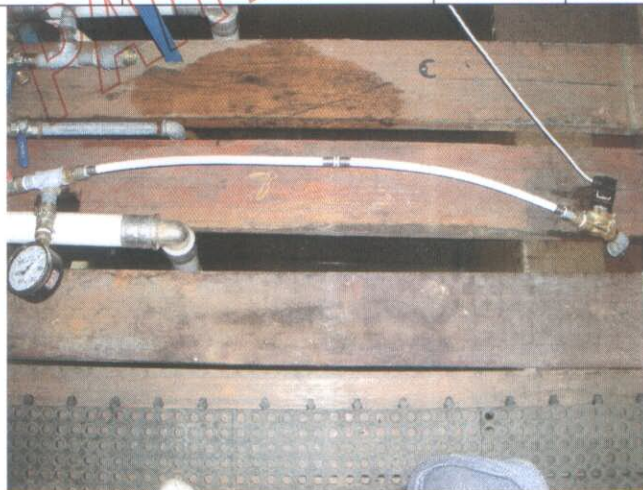
When applicable all tests will be performed by the Mechanical and fluid technology Laboratory. All metallic, tensile and chemical analysis's will be subcontracted to Scrooby's approved subcontracted laboratory

5.6 Pressure cycling test

When tested for leak tightness under pressure cycling in accordance with EN 12295 using the test parameters given in Table 6, the pipes, fittings or joints, as applicable, shall not leakage appear.

Table 6 — Test parameters for pressure cycling

1	2	3	4	5	6
Characteristics	Requirements	Test parameters			Test method
Pressure cycling	No leakage	Test temperature	23°C		EN 12295
		Number of test pieces	3		
		Frequency of test cycles	(30±5) cycles p/m		
		Number of cycle	10 000		
		Test pressure limits for a design pressure of:	Upper limit	Lower Limit	
4 bar	6.0 bar	0.5 bar			
6 bar	9.0 bar	0.5 bar			
8 bar	12.0 bar	0.5 bar			
10 bar	15.0 bar	0.5 bar			



Result: Complied. 15.0 bar.

This test was performed by SABS Commercial (Pty) Ltd.

This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of official test reports.)

5.7 Leak tightness under vacuum

When tested for leak tightness under vacuum in accordance with EN 12294 using the test parameters given in table 7, the change in vacuum pressure shall not be greater than 0,05 bar.

Table 7 — Test parameters for leak tightness under vacuum

1	2	3	4	5
Characteristics	Requirements	Test parameters		Test method
Leak tightness under vacuum	Change in vacuum pressure $\leq 0,05$ bar	Test temperature Number of test pieces Test pressure Test duration	23°C 3 -0.8 bar 1 h	EN 12294

Result: Complied. -0.8 bar.

5.3 Metallic fitting material

Metallic material for fittings intended to be used with components conforming to ISO 21003-5 shall conform to the requirements given in EN 1254-3 or EN 10088-1 as applicable.

Result: Complied. See Test report number 11ft007, dated 2011-02-02.

7.3 Dimensions of metallic fittings

Metallic fittings shall conform to EN 1254-3.

Result: Complied.

11 Marking

11.1 General requirements

11.1.1 Marking elements shall be printed or formed directly on the fitting in such a way that after storage, handling and installation legibility is maintained.

NOTE The manufacturer is not responsible for marking being illegible, due to actions such as painting, scratching, covering of the components or by use of detergent etc. on the components unless agreed or specified by the manufacturer.

Result: Complied.

11.1.2 If printing is used, the colouring of the printed information shall differ from the basic colouring of the fitting.

Result: Complied.

11.1.3 The size of the marking shall be such that the marking is legible without magnification

Result: Complied.

11.2 Minimum required marking

The minimum required marking of the fitting shall conform to table 3.

Result: Complied.

Table 3 — Minimum required marking for fittings

1	2
Aspects	Marking or symbol
Number of this standard	ISO 21003-3
Manufacturer's name and/or trade mark ^a	Name or code
Nominal outside diameter d_n^a	e.g. 32
Nominal wall thickness(es) of the corresponding pipe(s) (for compression or crimped fittings only)	e.g. 2,5
Material identification (for fusion fittings only) ^a	e.g. PE.X
Application class with design pressure	e.g, Class 2/10 bar
Opacity ^a	e.g.. Opaque ^b
Manufactures information ^a	^a
<p>a These aspects (where appropriate) must be marked on the fitting. All other aspects may be marked on the fitting or alternatively put to on a label supplied with the fittings.</p> <p>b If declared by the manufacturer</p> <p>c For providing trace ability the following details shall be given:</p> <ol style="list-style-type: none"> 1) the production period, year and month; in figures or in code; 2) name or a code for the production site if the manufacturer is producing in different sites. 	

Result: Complied.

8 SUMMARY OF RESULTS

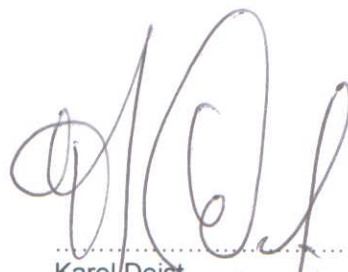
The pressure cycling, vacuum, dezincification, marking, and dimension test tested complied with the partial requirements of SANS 21003:2008.

GENERAL

All tested samples will be disposed of if not collected within 3 months from date of this report



Bonani Pelemu
Technical Signatory
Mech, Fluid & Pipes



Karel Deist
Technical Specialist
Mech, Fluid & Pipes

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