

Test report

Test report relating to a glass product according to European standard EN 1279-2, concerning the product marked as: Baiyun SS616 insulating glass silicone sealant, manufactured by: Guangzhou Baiyun Chemical Industry Co., Ltd

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Date	29 July 2013
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Project number	89203667
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1 Introduction

1.1 Purpose

The tests have been performed in order to establish whether or not an insulating glass unit with Baiyun SS616 silicone sealant meets the requirements of the European standard EN 1279-3 [1].

1.2 Description of the samples

General

Name of the manufacturer	Guangzhou Baiyun Chemical Industry Co., Ltd
Address of the manufacturer	No.1 Yunan Road, Guangzhou Civilian Science & Technology Park 510540 Taihe, Guangzhou P.R. China
Production plant of the samples	Anonymus
Line ID where the samples are made	Lisec machine
Production date	not specified
Sampling date	not specified
The product was marked as	Baiyun SS616 insulating glass silicone sealant
System description, file number	N/A
Dimensions of the samples	(502 ±2) mm x (352 ±2) mm

Specific

Type of glass	Clear float glass
Configuration of the samples	4-12-4 mm
DESICCANT	
Trademark / type of desiccant	not specified / molecular sieve
INNER sealant	
Trademark / type of inner sealant	not specified
Kind of inner sealant	polyisobutylene (butyl)
OUTER sealant	
Trademark / type of outer sealant	Baiyun SS616
Kind of outer sealant	silicone
SPACER	
Trademark / type of spacer	metal
Trademark / type of corners	bent

1.3 Sampling procedure

The samples have been submitted by the assignor. The test house, acting as notified test body, has had no influence on the selection of the samples.

1.4 Application

The request for testing was submitted by the assignor on 13 March 2013. Assignment Form number: 13.A019.

1.5 Method of testing

All applicable tests have been performed according to the European standard EN 1279-2 [1].

1.6 Put out to contract

No tests were performed at third parties.

1.7 Privacy statement

Due to privacy reasons, the names of involved personnel that executed the tests, are not disclosed in the report. However, this information is available on internal work sheets, test forms etc. in the project file.

1.8 Remark concerning this ITT report

This report can be used to demonstrate that the outer sealant Baiyun SS616 can pass in an IG system according to EN1279-2 [1].

1.9 Notifications and accreditations

TÜV Rheinland Nederland B.V. has been notified by the Dutch Ministry of Infrastructure and the Environment as Notified Test Body (number 1750) and Notified Certification Body (number 0336) for the European Construction Regulation (EU) No 305/2011.

TÜV Rheinland Nederland B.V. has been accredited by the Dutch Accreditation Council (RvA) as ISO 17025 Test Laboratory (accreditation number L 484) and EN 45011 Certification Body (accreditation number C078). The RvA is signatory of the international ILAC-MRA arrangements for laboratory and inspection accreditation and IAF arrangements for management systems, products, services, personnel and other similar programmes of conformity assessment for global recognition.

TÜV Rheinland Nederland B.V. has been designated as Technical Service (Laboratory) by RDW competent Administrative Department (Approval Authority) for the Netherlands to grant approvals as mentioned in Directive 70/156/etc. and in the 1958 Agreement of the Economic Commission for Europe of the United Nations (UN-ECE) for glass as used in the automotive sector: ECE Regulation 43, safety glazing; EC Directive 92/22, Safety glass; EC Directive 2009/144, Glazing cat. T. (designation number RDW-99050043-01).

2 Test results

Test results after performing all applicable tests according to European standard EN 1279-2 [1].

Requirements and end result

Required	Value of the test	Pass / fail
4.1 Moisture penetration index		
Insulating glass units shall fulfil their functions during an economically reasonable working life. Therefore the following values are verified on test specimens submitted to the climate test described in this Part of the standard.		
The average moisture penetration index I_{av} over the five test specimen shall not exceed 0.20	I_{av} over the five test specimen = 0.09	pass
The unit with the highest moisture penetration index shall have an index value I not exceeding 0.25	Highest moisture penetration index I = 0.14	pass

Prior to ageing, all 15 IGU's were visually inspected. No special deviations above variations due to the production process were found. After the visual inspection the test specimen were analysed on dew points. All IGU's showed dew points lower then -60°C. The test specimens were randomly numbered and the moisture contents (T_i & T_r) were determined. From these results the individual penetration indices I and I_{av} were calculated.

Detailed test results

			T_c^* [%]	20	
Initial values					
Specimen no.	m_o [g]	m_i [g]	m_r [g]	T_i [%]	
7	64.1903	84.2160	83.9628	1.28	
8	66.8855	86.9122	86.6904	1.12	
9	65.6758	85.7227	85.4898	1.18	
10	65.3867	85.4098	85.1838	1.14	
Average				1.18	
After climate exp.					
Specimen no.	m_o [g]	m_i [g]	m_r [g]	T_f [%]	I
4	62.5350	82.5749	82.0363	2.76	0.08
5	67.5716	87.9275	87.4423	2.44	0.07
6	61.6886	81.7079	81.2951	2.11	0.05
11	60.2895	80.4035	79.7570	3.32	0.11
12	66.9536	87.0052	86.2576	3.87	0.14
Average					0.09

* T_c is based on the fixed value of 20% given in the EN1279-2, Annex D.

3 Conclusion

The tested glass product, marked by the client or manufacturer as: Baiyun SS616 insulating glass silicone sealant, manufactured by: Guangzhou Baiyun Chemical Industry Co., Ltd, with inner sealant with trade mark/type: not specified and outer sealant with trade mark/type: Baiyun SS616, meets the applicable requirements as stated in the European standard EN 1279-2 [1].

The test results exclusively relate to the tested objects.


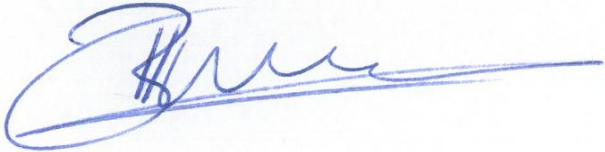
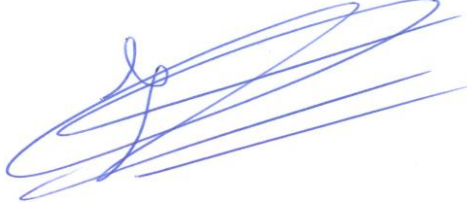
Remark 1

Due to the fact that the purpose of this test report is not an initial type test for a IG manufacturer no system description can be mentioned to be used as reference. This report is thus also not allowed to be used in cascading and/or shared ITT procedures (if allowed or applicable). The identification of the actual IG manufacturer for this ITT report is not relevant and is called anonymous or published only if the IG manufacturer has given written agreement that his/her name is allowed to be mentioned. When this statement is not communicated on forehand to TÜV Rheinland, then anonymous will be used per default.




4 References

- 1 European standard EN 1279-2:2002 (E),
Glass in building – Insulating glass units – Part 2: Long term test method and requirements for
moisture penetration, European Committee for Standardization, November 2002.

5 Signatures

Author Mr. M.A.A.M. Schets, B.Sc.	Signature 
Specialist	
Peer review Mr. R. Brandhorst	Signature 
Specialist	
Approved by Mr. H. van Ginkel	Signature 
Business field manager	

Summary of test results

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Summary of report no: 89203667-04		Date: 29 July 2013	
Insulating glass units - Moisture penetration results according to EN 1279-2 For details is referred to the full test report			
Company (demonstrator):	Name:	Guangzhou Baiyun Chemical Industry Co., Ltd	
	Address:	No.1 Yunan Road, Guangzhou Civilian Science & Technology Park 510540 Taihe, Guangzhou P.R. China	
	Plant:	Name:	Anonymous
		Address:	
System description, file number:		N/A	
	Product name:	The glass product: Baiyun SS616 insulating glass silicone sealant with inner sealant not specified and outer sealant: Baiyun SS616	
System conforms:		YES	
NOTE: Comparisons of moisture penetration indices of different insulating glass unit system are meaningless.			
			
Signature: M.A.A.M. Schets, B.Sc Project leader		Signature: H. van Ginkel Business field manager	

NOTE: This Summary is not a certificate.

End of report