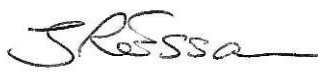



Report No	2381/7781010	This Report consists of 4 pages
Client	Fenesta Building Systems (A Division of DCM Shriram, Consolidated Ltd) Shriram Nagar Kota Rajasthan 324004 India	
Authority & date	BSI Quotation Acceptance Form No BSI 0000349934 Dated 14 October 2011 Equipment Record Number 10132825	
Items tested	PVC-U Profiles	
Specification	BS EN 12608:2003 Clause 5.8.3 (BS EN 513:1999) Direct Commission Test	
Results	See text	
Prepared by	G R Essam 	Principal Engineer
Authorized by	F Merrison 	Laboratory Manager
Issue Date	08 March 2013	
Conditions of issue	This Test Report is issued subject to the conditions stated in current issue of CP0322 'Conditions of Contract for Testing'. The results contained herein apply only to the particular sample/s tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of the Managing Director, BSI Testing Services, who reserves the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.	

TESTING AND EXAMINATION OF PVC-U PROFILES SUBMITTED AS DIRECT COMMISSION TEST SAMPLES

INTRODUCTION

At the request of Fenesta Building Systems the PVC-U Profiles, detailed below and received on 12 December 2011, were tested against the method detailed in BS EN 12608:2003 (BS EN 513:1999), as indicated below and on the following pages of this Report. This request was made in a BSI Quotation Acceptance Form No BSI 0000349934 dated 14 October 2011. It is emphasized that assessments were not made against the other clauses of the Specification.

This Report only relates to the actual samples which have been tested and assessed. The results obtained do not necessarily relate to samples from the production line and in no way imply that the performance or quality of the continuing production will be maintained.

The testing was externally subcontracted

TEST ITEMS

5 off 50mm x 50mm samples of white PVC-U profile referenced B-1, B-2, B-3, B-4 and B-5

EXAMINATION AND TEST

TEST METHOD

The five samples of white PVC-U profile were artificially weathered in accordance with the method detailed in BS EN 12608:2003 Clause 5.8.3 and BS EN 513:1999 Procedure 2 using the simulation of severe climate S for 8000 hours. This equated to a total irradiance of 16kJ/m² in the range 300nm to 800nm. Instrumental colour readings from the wavelengths 360nm to 750nm were taken every 1000 hours following the method detailed in ISO 7724-3:1984 using a D65 illuminant, gloss inclusion and an observing angle of 10°. The results are shown in the table following.

EXAMINATION AND TEST (CONTINUED)**TEST RESULTS**

Sample B1					
Exposure time (hours)	Irradiation dose (GJ/m²)	Delta L*	Delta a*	Delta b*	Delta E*
1000	2	0.1	-0.2	-0.3	0.4
2000	4	0.2	-0.1	-1.4	1.4
3000	6	0.2	-0.1	-1.4	1.4
4000	8	0.2	-0.1	-1.0	1.0
5000	10	0.1	-0.1	-1.3	1.3
6000	12	0.2	-0.2	-1.2	1.2
7000	14	0.2	-0.2	-1.1	1.1
8000	16	0.2	-0.2	-0.8	0.9
Sample B2					
Exposure time (hours)	Irradiation dose (GJ/m²)	Delta L*	Delta a*	Delta b*	Delta E*
1000	2	0.4	-0.1	-0.5	0.7
2000	4	0.4	-0.1	-1.2	1.3
3000	6	0.4	-0.1	-1.0	1.1
4000	8	0.5	-0.1	-0.9	1.0
5000	10	0.4	-0.1	-1.1	1.2
6000	12	0.5	-0.1	-1.1	1.2
7000	14	0.5	-0.1	-0.9	1.0
8000	16	0.5	-0.1	-0.9	1.0
Sample B3					
Exposure time (hours)	Irradiation dose (GJ/m²)	Delta L*	Delta a*	Delta b*	Delta E*
1000	2	0.4	-0.1	-0.8	0.9
2000	4	0.2	-0.2	-1.3	1.3
3000	6	0.2	-0.2	-1.2	1.2
4000	8	0.2	-0.2	-1.1	1.1
5000	10	0.2	-0.2	-1.3	1.3
6000	12	0.3	-0.2	-1.3	1.3
7000	14	0.2	-0.2	-1.2	1.2
8000	16	0.2	-0.3	-1.1	1.2

EXAMINATION AND TEST (CONTINUED)**TEST RESULTS (CONTINUED)**

Sample B4					
Exposure time (hours)	Irradiation dose (GJ/m²)	Delta L*	Delta a*	Delta b*	Delta E*
1000	2	0.5	-0.2	-0.8	1.0
2000	4	0.3	-0.2	-1.5	1.5
3000	6	0.4	-0.2	-1.4	1.5
4000	8	0.4	-0.2	-1.2	1.3
5000	10	0.4	-0.2	-1.4	1.5
6000	12	0.4	-0.3	-1.4	1.5
7000	14	0.4	-0.3	-1.4	1.4
8000	16	0.4	-0.3	-1.3	1.4
Sample B5					
Exposure time (hours)	Irradiation dose (GJ/m²)	Delta L*	Delta a*	Delta b*	Delta E*
1000	2	0.5	-0.1	-0.9	1.0
2000	4	0.5	-0.2	-1.3	1.4
3000	6	0.5	-0.2	-1.3	1.4
4000	8	0.6	-0.2	-1.2	1.4
5000	10	0.5	-0.2	-1.4	1.5
6000	12	0.6	-0.2	-1.4	1.5
7000	14	0.6	-0.2	-1.4	1.5
8000	16	0.6	-0.3	-1.3	1.5

End of Report