

Certificate

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Certificate No: 54986/1 Edition 2

Issue No: 1

Date of issue: 18 April 2011

This certificate replaces 54986/1. An explanation is given on page 2

This is to certify that

BSRIA Limited

Has tested a sample of the product described below in accordance with the test methods contained within EN 13181 : 2001 and have determined the item met the detailed classification shown on pages 3 and 4 of this certificate. For further details of the test item see Page 2 of this certificate

Manufacturer/Agent	Colt International Ltd Overseas Division New Lane Havant Hampshire PO9 2LY
Product	Sandbar
Test location	BSRIA Old Bracknell West Bracknell Berkshire RG12 7AH
Date of test	5 April 2011
Expiry date	18 April 2014
Test engineer	A Freeth
Quality approved	Phil Stonard Laboratory Manager MicroClimate & Test

This certificate must not be reproduced except in full without the written approval of an executive director of BSRIA. It is only intended to be used within the context described in the text.

TEST ITEM INFORMATION

Contract	54986A	
Date	21 March 2011	
Manufacturer	Colt International Ltd	
Louvre Model	Sandbar	
Sand type	Standard test sand	
Material	Aluminium	
Painted	No	
Blade Height	950	mm
Blade Width	1040	mm
Blade Depth	40 (front)	mm
Frame Depth	137	mm
No.of Blades	6	
Blade Pitch	165	mm
No.of Banks	2	
Guard Type	Bird/Vermin	
Guard Spacing	No spacing	
Side Channels	No	
Catchment Tray	Yes	
Blade Orientation	Vertical	



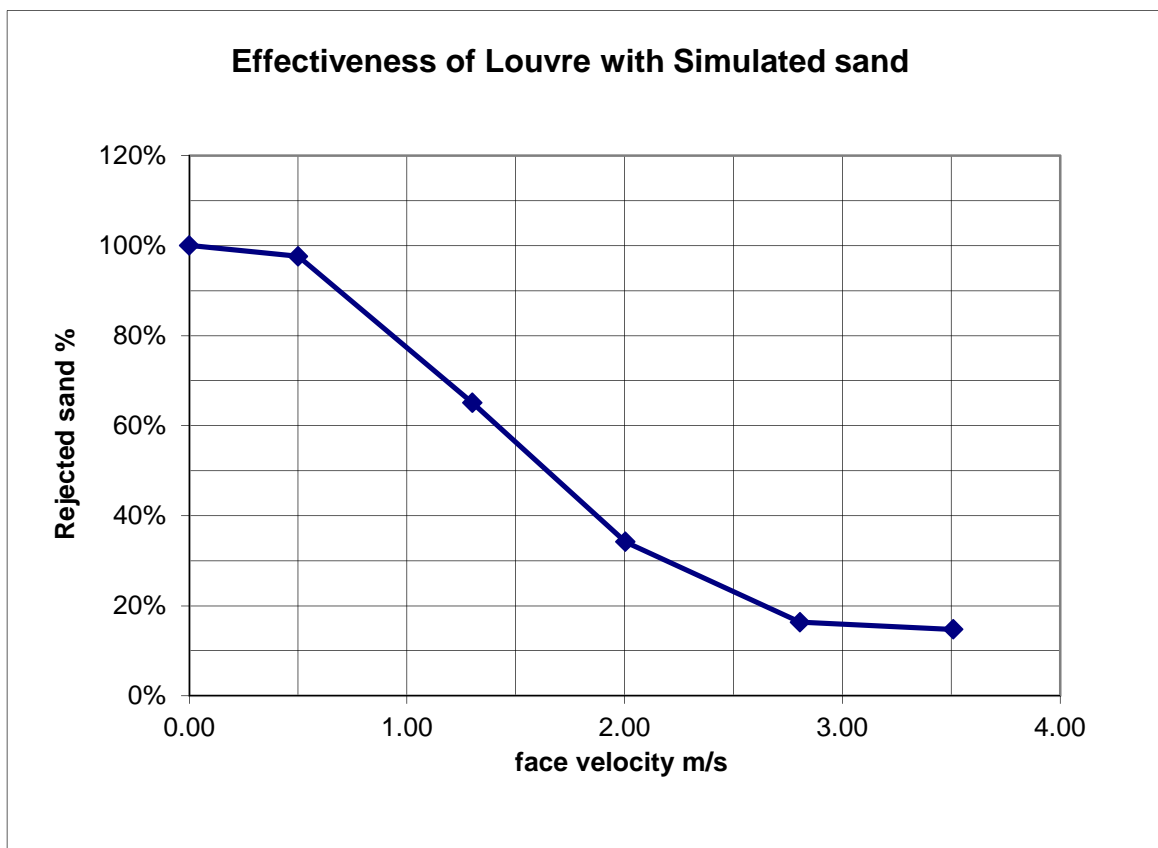
The injected and rejected sand mass values were shown in grams, with the column titled as Kg. The values are now changed to read correctly. This does not alter the results in any way.

MANUFACTURER Colt
 MODEL Sandbar

Date 05/04/2011
 Contract 54986

louvre height 950 mm
 louvre width 1040 mm
 louvre area 0.988 m²

VENTILATION RATE		SAND MASS		Effectiveness
Volume m ³ /s	Velocity m/s	Injected kg	Rejected kg	
0.00	0.00	1.00	1.00	100.0%
0.49	0.50	1.00	0.98	97.6%
1.29	1.30	1.00	0.65	65.1%
1.98	2.00	2.00	0.68	34.2%
2.77	2.81	2.00	0.33	16.3%
3.47	3.51	2.00	0.29	14.7%



ENTRY LOSS COEFFICIENT

MANUFACTURER Colt
 MODEL Sandbar

Date 05/04/2011
 Contract 54986

air temperature 13.5 °C louvre height 950 mm
 barometer 1030 mbar louvre width 1040 mm
 air density 1.247 kg/m³ louvre area 0.988 m²

louvre pd Pascals	louvre face velocity	air flow rate		coefficient C _e
	m/s	test m³/s	theoretical m³/s	
394.0	3.78	3.73	24.84	0.150
349.0	3.55	3.51	23.38	0.150
304.0	3.32	3.28	21.82	0.150
261.0	3.06	3.02	20.22	0.149
218.0	2.82	2.79	18.48	0.151
174.0	2.51	2.48	16.51	0.150
131.0	2.19	2.16	14.32	0.151
mean C _e				0.150

