Flamefast (UK) Limited
1 Heaton Court
Risley Road
Birchwood
Warrington
WA3 6QU

www.flamefastextractionsolutions.co.uk

L.E.V THOROUGH EXAMINATION AND TEST IN ACCORDANCE TO HSG 258

Customer Name & Address	Date of Test	11 July 2018
Bimeda Telsol Ltd	Order Number	Commissioning
23-24 Colomendy Ind Est	Contact Name	Ian Hardy
Rhyl Road	Telephone	
Denbigh	Mobile	
LL16 5TA	Fax	
	Email	

The LEV System is Classified as	PASSED

LEV Number	FFDT110718-1	LEV Type	Extraction Canopy
Serial No	FF LEV3	LEV Location	Rear of Kiln

Description	Part Detail	Passed	Comments
Extraction Fan/Unit	Fan Engineering-FE47307	PASSED	420BL100 - 5.5Kw
Mainline Ductwork	300mm 400mm	PASSED	
Drop Ductwork	N/A		
System Couplings	N/A		
System Hose	N/A		
System Funnels	N/A		
System Filters	HEPA 13		H7 Prefilters
Specials (If Any)	Filter box mounted o/s, canopy i/s		Flame retardent Clear curtain.
Fan Rotation	correct		

Type of Airborne Contaminant	Duct Size	Velocity Pressure at Inlet	Static Pressure at Inlet	Static Pressure at Outlet	Volume Flow at Inlet	
Fume/ Dust	400	195	1205	1205	2.26	m³/s

Results at the time of the Test	2	Points in Use out of	2

Test Point	Size of Hood or Enclosure	Face Velocity (m/s)	Hood/Duct Static Pressure (Pa)	Duct Dimensions	Volume Flow Rate (m³/s)	Recommended Minimum Transport Velocity (m/s)	Recorded Transport Velocity (m/s)
TP1	2.6 x 0.22	0.65	n/a	Front face	0.37	0.3	0.65
TP2	300	15.1	n/a	300	1.06	10	15.1
TP3	300	15.1	n/a	300	1.06	10	15.1
TP4	400	18	1205	400	2.26	15	Total
TP5							
TP6							
TP7							
TP8							
TP9							
TP10							

Test Information Carried onto the Next Page | FFDT110718-1 | Rear of Kiln | Extraction Canopy

Flamefast (UK) Limited
1 Heaton Court
Risley Road
Birchwood
Warrington
WA3 6QU

www.flamefastextractionsolutions.co.uk

Examiners Statement and Supporting Evidence

LEV Report

Objectives

1) To assess performance of the local exhaust ventilation (LEV) and suitability for purpose.
2) To evaluate overall control of contaminates.

The data obtained will enable the user to assess compliance with section 9 of the COSHH regulations..

All test results and relevant site observations were recorded in order to compile an interpretive report, highlighting any areas where remedial actions may be required.

The monitoring programme was undertaken on the **11th July 2018**, under the overall supervision of David Taylor (Flamefast P601/602 Accredited Engineer)

Fume Extraction System-Kiln Room

LEV system technical performance

A thorough examination and test of the extraction system was carried out in accordance with the Control of Substances Hazardous to Health (COSHH) Regulation 2002 (as amended) during this visit

The system was visually examined and a simple line drawing of the system can be found within this LEV record file.

The minimum duct velocity of **15.1m/s** (TP1) exceeds the minimum **10m/s** transport velocity for fume & smoke as stated within HSG258 second edition.

Control Effectiveness

Qualitative assessments were carried out at the face of the hood spigots and directly inside the duct using a hot wire anemometer. All tests demonstrated effective aiflow movement for the effective capture of contaminant clouds.

Report on Findings

1) Refer to this LEV exam and test report
2) The system was tested with the extraction points fully open, therefore 100% useage.

This system has **PASSED**

Remedial Works Quotation-If Applicable

Description	No Req'd	Price Each	Total Price
	0	£0.00	£0.00
	0	£0.00	£0.00
	0	£0.00	£0.00
	0	£0.00	£0.00
	0	£0.00	£0.00
	0	£0.00	£0.00
	0	£0.00	£0.00
	0	£0.00	£0.00
	0	£0.00	£0.00
	0	£0.00	£0.00
Quotation Total (Not Inc Vat & Delivery)			**£0.00**

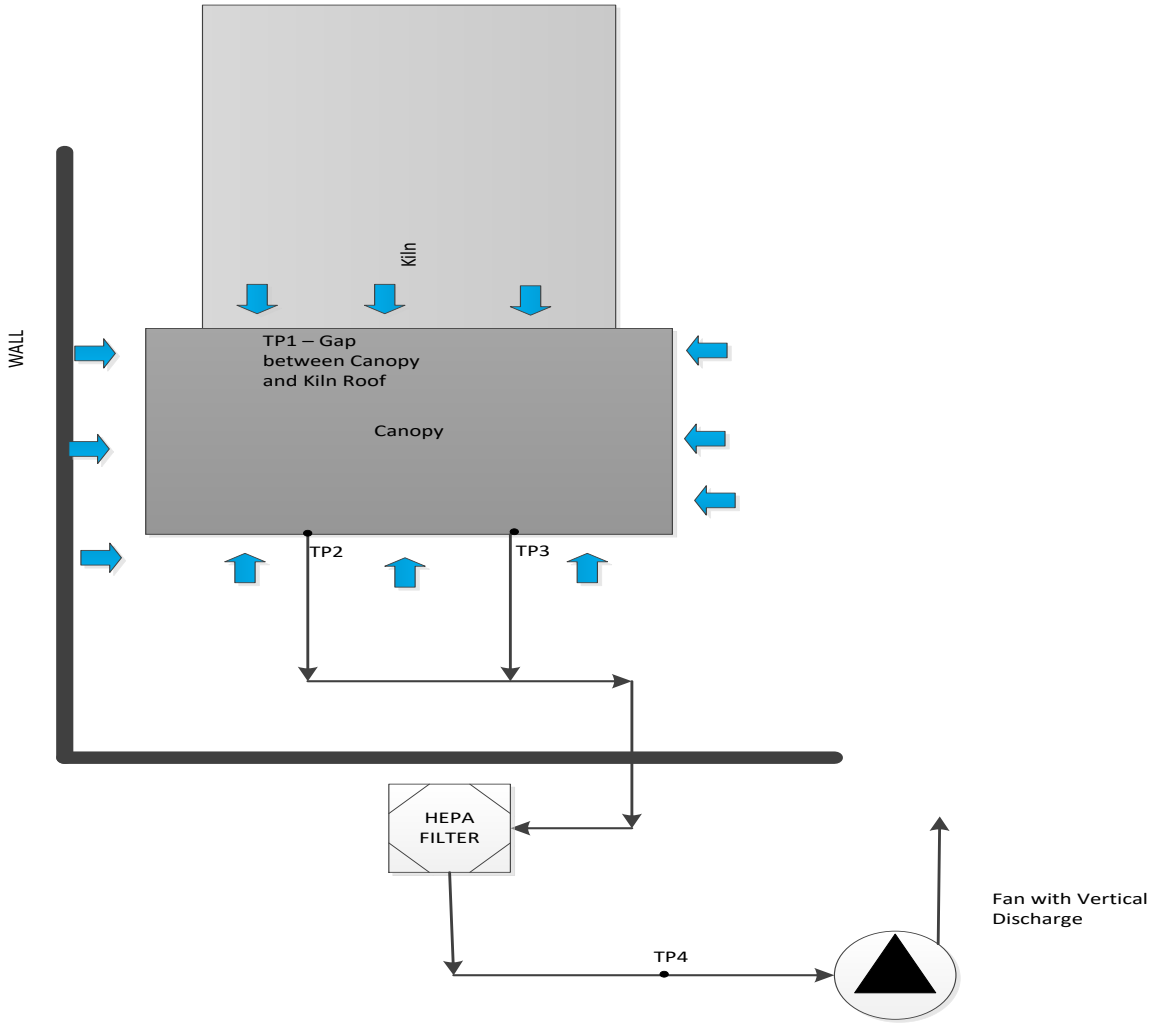
Test Information Carried onto the Next Page

FFDT110718-1	Rear of Kiln	Extraction Canopy

Flamefast (UK) Limited
1 Heaton Court
Risley Road
Birchwood
Warrington
WA3 6QU

www.flamefastextractionsolutions.co.uk

SCHEMATIC PLAN OF LEV



Method of Test	Serial Number	Calibration Due Date
Hot Wire Anemometer	TA4301146008	17th November 2018
Pitot Tube	3898985/201	17th November 2018

Tested During: July 2018

COSHH Engineer: Dave Taylor

Authorised Signature

Test Information from Previous Pages	FFDT110718-1	Rear of Kiln	Extraction Canopy