

October 25, 2016

Director
Environmental Approvals Branch
Manitoba Conservation and Water Stewardship
Suite 160, 123 Main Street, Box 80
Winnipeg, Manitoba R3C 1A5

RE: Notice of Alteration – Licence No 3169 – Decoral Process

Dear Tracey Braun,

This letter is to provide notification, per the Notice of Alteration requirements, that Price Industries would like to add a Decoral process. This process is a finishing process that uses heat-transfer technology. It will be used to decorate Prices' parts with different effects and patterns such as wood grain. Prior to using the Decoral process the first step will be to powder coat the parts with Price's existing powder coating line. The Decoral process will then involve wrapping the parts with film material and then heating this film material so that it adheres to the parts. Below is a link to a youtube video that demonstrates this process.

<https://www.youtube.com/watch?v=OD5UtQ7DT6A>

This process does not induce any hazardous waste, nor does it require any sewer discharge. The only route of discharge is from the stack connected to the oven that will be used to heat up the film that adheres to the product. Included with this cover letter is an emission report that was conducted by Betalab on the oven emissions that were emitted at one of Decoral's plants in Italy. The main difference between the oven that was tested and the oven that Price would use is that the oven that was tested was 24' long and the oven Price would use is only 12' long.

Please do not hesitate to contact me if you would like more information regarding this application. I can be reached at 204-654-8560 or by e-mail at MauriceA@priceindustries.com.

Yours truly,



Maurice Arnaud,

Environmental Coordinator



betalab di Lossi Anna Maria & C. Snc

sede legale via Fiume Mella n. 22 25060 Villa Carcina (Bs) *laboratori* via Fiume Mella n. 26
P.IVA 00640670980 Cod. Fisc. 01591940174 REA 250106 Reg. Imprese 01591940174 A. A. 106297
Tel. 030-8901097 r.a. **fax 030-801050** e-mail betalab@betalab.it

AZIENDA CON SISTEMA DI QUALITA'
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CSICERT N. SQ 01569
Servizi di analisi e caratterizzazione di
Materiali e Matrici Ambientali **EA 35**

TECHNICAL REPORT N. 0401131

VIV DECORAL S.p.a.
5, del lavoro Avenue - Arcole (Vr)

Automatic furnace system 801-2 matr.239
GASEUOS EMISSIONS CHARACTERIZATION

Villa Carcina, settembre 14, 2004

Technical Director
Abatti Flavia

Managing Director
Dott. Realini Franco



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1 – INTRODUCTION

Business direction request a research of pollution agents in gaseous flows coming from the automatic furnace system 801-2 matr.239 installed in production unit Viv Decoral s.p.a., Arcole (Vr), 5, del lavoro Avenue

2 - PRODUCTION PROCESS DESCRIPTION

The company product decoration of aluminum profile and his alloy.

Unit	Machinery	Raw Material
Decoration	Automatic furnace system 801-2 matr.239	Coupled Duplex powder varnish Pur-Tra C.15 VD brown base

Production process :

- Profiles inserted in colored plastic bags
- Bags vacuum
- profiles heating
- profiles cooling
- bags removing

Job conditions

- furnace temperature: 255 °C
- piece temperature: 194 °C
- cycle baking: 5-6' medium (min 265 °, max 540°)
- film type: cupled walnut B, 40cm x 5.5m
- aluminum profiles: 15 prepainted/pieces trailer

Informations came from mr. Bona



3 - DRAWING DATA - RESULTS

EMISSION OF AUTOMATIC FURNACE SYSTEM 801-2

Date of drawing: 02 august 2004

Production line : automatic furnace system 801-2 matr. 239
Dust extracting plant : absent
Stack height : 20 m
Stack dimension in the drawing point : 22x25 cm
Determinations : **DUST - PHTHALATES - VOLATILE ORGANIC COMPOUDS - ISOCYANATES (MDI)**

Effective capacity : 560 mc/h
Normalized capacity. : 273 °K
101.323 KPa : 480 Nmc/h
Temperature : 42 °C

DRAWING DATA - DUST - PHTHALATES

Drawing rate : 19 l/min
Drawing start : h 10:15/12:34
Drawing end : h 12:03/13:15

DRAWING DATA VOLATILE ORGANIC COMPOUNDS

Drawing rate : 0.5 l/min

A

(amberlite tube)

Drawing start : h. 10:25/12:34
Drawing end : h. 12:03/13:16

B

(coconut charcoal tube)

Drawing start : h 10:25/12:34
Drawing end : h 12:03/13:16

DRAWING DATA ISOCYANATES(MDI)

Drawing rate : 0.3 l/min
Drawing start : h 10:30/12:34
Drawing end : h 12:03/13:20



PARAMETERS	u.m.	ANALYTICAL RESULTS
Dust	mg/Nm ³	0.14
Phthalates: Dimetil phthalate Dietil phthalate Di-n-butyl phthalate Benzil butil phthalate Bis(2-etilexil) phthalate	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³	< 0.0008 < 0.0008 < 0.0008 < 0.0008 < 0.0008
Isocyanates(MDI)	mg/Nm ³	< 0.044
Drawing A <i>Qualitative analysis - GC-MS Screening</i> <i>(from AMU 40 to 400)</i> Metilisobutylketone Heptane-2.2.4.6.6-pentamethyl Dimetil phthalate Dietil phthalate Di-n-butyl phthalate Benzil butil phthalate Bis(2-etilexil) phthalate	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³	(*) < 0.6 traces < 0.6 traces < 0.6 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03
Drawing B <i>Qualitative analysis - GC-MS Screening</i> <i>(from AMU 40 to 400)</i> Dimetil phthalate Dietil phthalate Di-n-butyl phthalate Benzil butil phthalate Bis(2-etilexil) phthalate	mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³ mg/Nm ³	(*) < 0.6 < 0.03 < 0.03 < 0.03 < 0.03 < 0.03

(*) approximate concentration



4 – INSTRUMENTATION EMPLOYED

- ZAMBELLI Data Processor mod. 5005 N. 17598
- ZAMBELLI Isokinetics Pitot tube - 050204
- Zambelli Probe i ZB 1 max capacity 30 l/min
- Zambelli Probe CHRONOS max capacity 6 l/min
- Zambelli Probe EGO max capacity 6 l/min

5 – DRAWING AND ANALYSIS METHOD

PARAMETERS	DRAWING METHOD	ANALYSIS METHOD
Sampling point selection general criterion	UNI-UNICHIM 10169:01	--
Speed and capacity determination of gaseous emission	UNI-UNICHIM 10169:01	--
Dust determination in gaseous emission Isokinetics sampling Separate Pitot tube – gravimetric method	UNI EN 13284-1:2003	UNI EN 13284-1:2003 Gravimetry
Volatile Organic Compounds– Qualitative analysis	UNI EN 13649: 2002 drawing on active carbon vial ed in amberlite (XAD7)	GC - MS
Phthalates	UNI EN 13284-1:2003	NIOSH 5020
Isocyanates(MDI)	UNICHIM 429	UNICHIM 429 Colorimetry



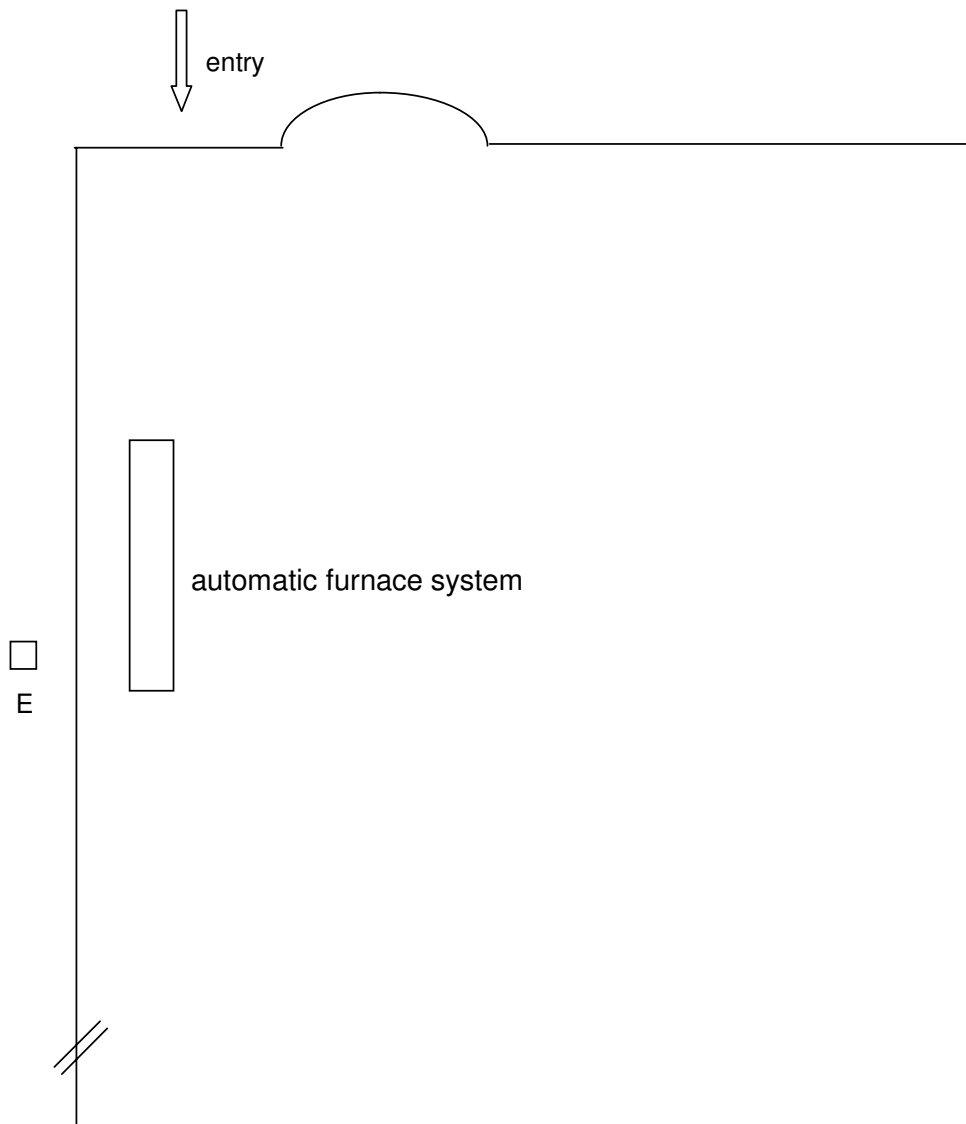
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6 - L A Y O U T

Customer: Viv Decoral S.p.a. Arcole (Vr)



Beshada, Eshetu (SD)

From: Maurice Arnaud [<mailto:MauriceA@priceindustries.com>]
Sent: November-09-16 9:13 AM
To: Beshada, Eshetu (SD)
Subject: RE: Notice of Alteration - Licence No 3169 - Decoral Process

Hi Eshetu,

We have 1 project that will take about 4 months to complete. We are planning 7 days, 2 shifts totaling 152 hours per week. Monday to Thursday will be 20 hours and Friday to Sunday will be 24 hours. Once this project is complete the equipment will sit idle until we can find another job.

In regards to volume I have attached a drawing of the product that will require the decoral process. Our customer has asked that the blades on this grill have a wood finish look. We would be looking at 3000 to 4000 blades per week.

It should also be noted that we have an outside vendor in the United States who will also help us decoral finish these blades but at this time we suspect that Price will need to do the bulk of the work.

Please let me know if you have any other questions.

Thanks,

From: Beshada, Eshetu (SD) [<mailto:Eshetu.Beshada@gov.mb.ca>]
Sent: Tuesday, November 08, 2016 9:35 AM
To: Maurice Arnaud
Subject: RE: Notice of Alteration - Licence No 3169 - Decoral Process

Hello Maurice,

I reviewed the NoA you submitted. I have a question.

- What is the quantity of the product undergoing the decoral process?
- What is the decoral processing schedule? Is it every day or how many days a week and how many hours a day?

Regards

***Eshetu Beshada, PhD, PEng.
Environmental Engineer***

**Ph: (204) 945-7023
Fx: (204) 945-5229**

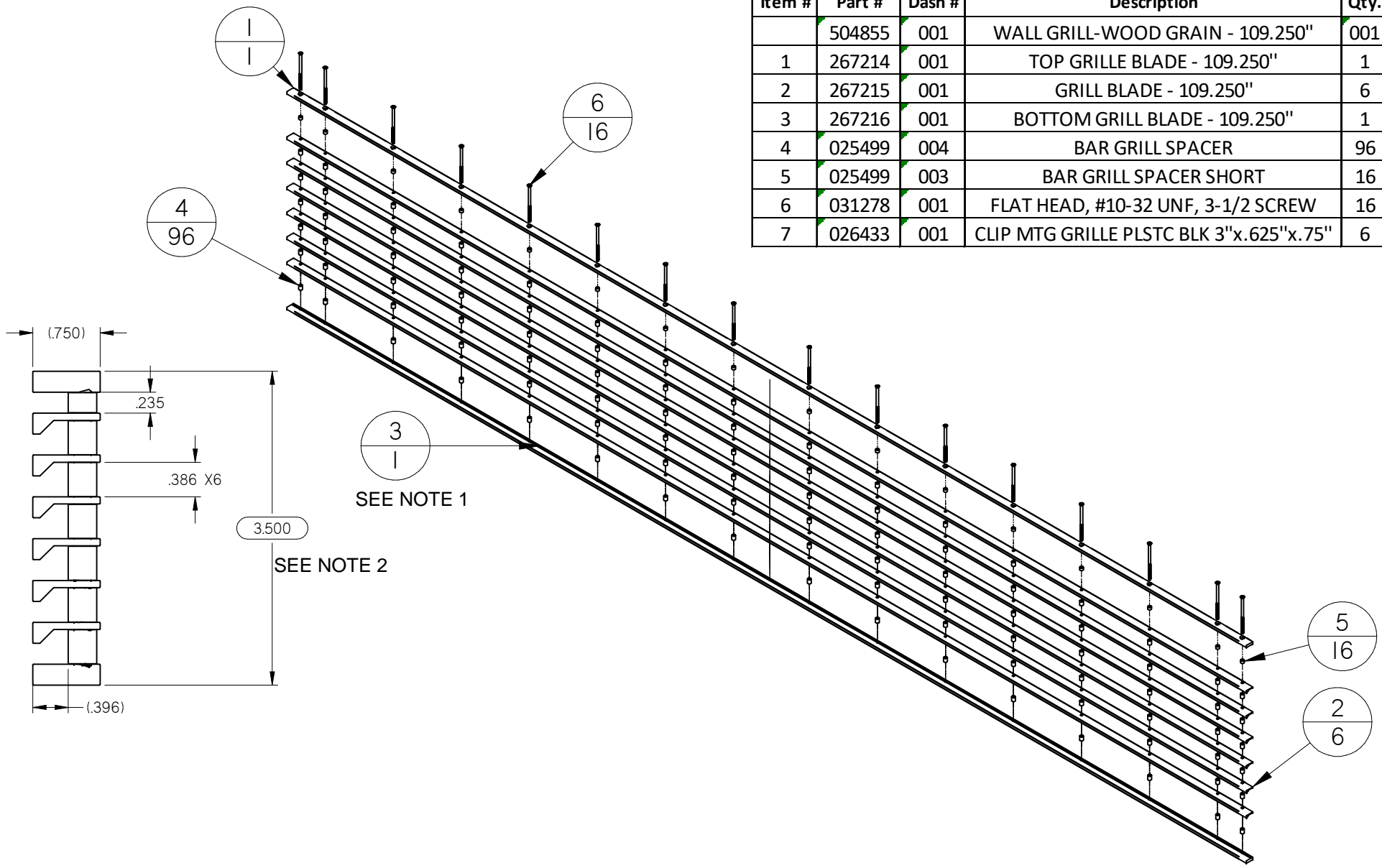
From: Maurice Arnaud [<mailto:MauriceA@priceindustries.com>]
Sent: October-25-16 1:41 PM
To: Braun, Tracey (SD)
Cc: Beshada, Eshetu (SD); Olafsson, Krista (SD)
Subject: Notice of Alteration - Licence No 3169 - Decoral Process

Hi,

My name is Maurice Arnaud and I am the Environmental Coordinator for Price Industries, with license no. 3169. I have attached a Notice of Alteration for the addition of a Decoral Process and have also mailed this information.

Thanks,

Item #	Part #	Dash #	Description	Qty.
	504855	001	WALL GRILL-WOOD GRAIN - 109.250"	001
1	267214	001	TOP GRILLE BLADE - 109.250"	1
2	267215	001	GRILLE BLADE - 109.250"	6
3	267216	001	BOTTOM GRILLE BLADE - 109.250"	1
4	025499	004	BAR GRILL SPACER	96
5	025499	003	BAR GRILL SPACER SHORT	16
6	031278	001	FLAT HEAD, #10-32 UNF, 3-1/2 SCREW	16
7	026433	001	CLIP MTG GRILLE PLSTC BLK 3"x.625"x.75"	6



See Page 2 for Mounting Clip Details (Part # 7)

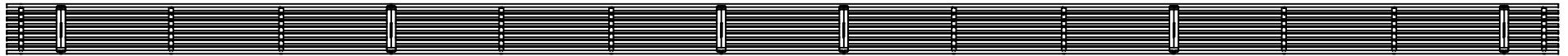
NOTE:

1. APPLY LOCTITE 263 ON BOTTOM GRILLE BLADE THREADS BEFORE INSERTING SCREWS.
2. USE TOOL TO ENSURE THE HEIGHT OF 3.500" IS ACHIEVED.

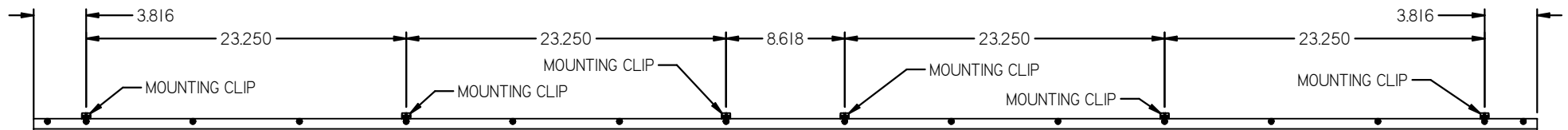
Rev	Description	ECN	Date (y/m/d)	By
B	Revised Notes	161594	10/26/2016	VLD
A	Added clip	161454	10/3/2016	VLD
0	Initial Release	130789	9/23/2016	VLD

price		Description AC-2 PROJECT			
Drawn by HL		Scale NTS		MAIN BUILDING	
Status VO		Date (mm/dd/yyyy) 10/26/2016		Drawing no. 504855-001	
		Revision B		Sheet 1 of 2	

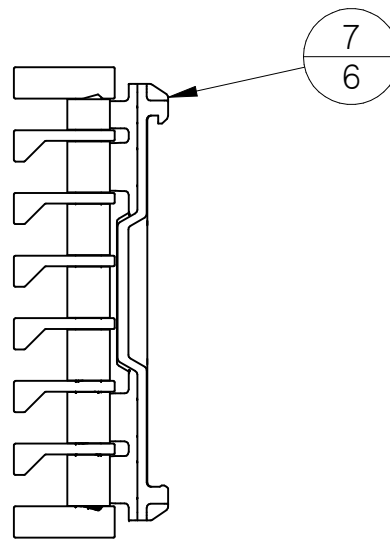
BACK VIEW:



TOP VIEW:



SIDE VIEW:



Network File Location: T:\CA CAMPUS\ - Master Production files\Wall Diffusers\FD-AX-Grilles\STANDARD DRAWINGS\504855-001-B.dft

B	Revised Notes	161594	10/26/2016	VLD
A	Added clip	161454	10/3/2016	VLD
0	Initial Release	130789	9/23/2016	VLD
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		Revision B		Sheet 2 of 2	