

SPECIFIER NOTE: THIS DOCUMENT IS INTENDED TO BE A GUIDE FOR RESEARCHING ENVIRONMENTAL ISSUES RELATIVE TO BUILDING PRODUCTS. ISSUES ARE ORGANIZED UNDER THREE PRIMARY CATEGORIES: RESOURCE MANAGEMENT, TOXICITY, AND PERFORMANCE.

ENVIRONMENTAL IMPACT QUESTIONNAIRE (EIQ)

I. DIRECTIONS

A. Complete the following questionnaire and submit for review to:

Paul Jackson

B. Relate information concerning only one product per questionnaire.

C. All questions may not apply to every product or manufacturer. It is not expected the manufacturer will have addressed all of the environmental concerns expressed in the EIQ.

1. Respond to every question even if response is “not available”, “not applicable”, or “no”.
2. Attach additional sheets as required. Reference additional sheets to correspond with the question number.

II. IDENTIFICATION

A. Material/Product: Origins Restroom Partition

Brand Name: Origins

Manufacturer: Yemm & Hart Ltd

1417 Madison 308

Marquand MO 63655-9153

Tel: 573078305434

Fax: 573-783-7544

Email: yemhart@earthlink.net

Web: www.yemhart.com

What is the primary use or application for this product?

This product is used in restroom facilities to divide or partition them into separate stalls for privacy.

B. Contact for EIQ:

Name: Bridget Goodwin, Anna Pesicka, Laura Oliver Title: Students

Address: 1500 St. Olaf Ave Northfield, MN Zip Code: 55057

Telephone: (605) 310-1775 FAX: _____ Date: January 23, 2006

III. RESOURCE MANAGEMENT

A. Renewable Resources:

1. List renewable resources used as product raw materials. Provide percentage amounts in relation to complete (100 percent) product.

<u>Renewable Resource</u>	<u>Percentage</u>
_____ N/A _____	

2. Does manufacturer obtain raw materials or fabricate this product outside of the United States:

X Y ___ N?

- a. If yes, are United States environmental standards or more strict standards followed in these countries: _X_ Y ___ N?

- b. List countries involved.

B. Managed Resources:

1. Does extraction of product raw materials or fabrication of this product affect endangered specie(s): ___ Y _X_ N?

- a. If yes, list species and describe effect, including methods for negative effects.

<u>Endangered Species</u>	<u>Effect</u>
_____	_____

2. Products Containing Wood: Are wood materials obtained from certified sustainable forestry operations: not applicable

- a. If yes, provide name of certification organization for each wood species being used in this project.

Species

Certification Organization

-
- b. If no, state where the product resources are produced and describe forestry operations.

Product Resources

Forestry Operations

C. Recycled Content:

- 1. List recycled materials used as product raw materials; distinguish pre-consumer and post-consumer materials. Provide percentage amounts in relation to complete (100 percent) product.

Recycled Material

% Pre-Consumer

% Post-Consumer

__100% Post-Consumer__

D. Embodied Energy:

- 1. Product Transport:

- a. Where are raw materials acquired? Identify state and country.

Raw Material

Source (State and Country)

__Regionally sourced – Eastern USA

- b. Describe means of transporting raw materials to the manufacturing plant.

Raw Material

Transportation

_____Truck

- c. Where is product manufactured/fabricated? Identify state and country.

__Scranton PA area

- d. Is the product warehoused locally, regionally, or nationally?

__JIT Manufacturing – not warehoused

- e. Describe means of transporting product to distribution facilities.

- 2. Production Energy: List energy sources used in production process; indicate which are renewable energy sources (e.g. wind, solar). Provide percentage amounts in relation to complete (100 percent) product.

Energy Sources

Renewable

Percentage

__Gas_____

___Y __X__N

____ Electricity _____ ____ Y __X__ N _____

____ Y ____ N _____

3. Provide an embodied energy study of the product from extraction of raw materials through production and assembly. Include an estimate for the total number of BTU's required per pound of finished products. Identify parameters for study.

____ No study available _____

4. Describe measures the manufacturer has taken to minimize energy usage in the production process.

____ Full press loads save energy and production costs _____

E. Reuse/Recyclability/Disposal:

1. Reuse:

a. Can product be reused directly (in same or similar use): __X__ Y ____ N?

b. If yes, discuss the possibility of direct reuse of the product after project demolition.

____ Polyethylene panels can be reused as work surfaces or shelving. _____

2. Recycling:

a. Can product be recycled: __Y__ Y ____ N?

b. If yes, list the parts of the product which can be post-consumer recycled into raw materials for the product and the parts which can be post-consumer recycled into other types of items. Provide percentage amounts in relation to complete (100 percent) product.

<u>Post-Consumer - Raw</u>	<u>Post-Consumer - Other</u>	<u>Percentage</u>
____ Post-Consumer polyethylene _____		____ 100% _____

c. If yes, describe the process of separation of the parts for post-consumer recycling from the product.

___ Remove any metal, wood or adhesive, grind polyethylene panel into small chips. ___

d. If yes, list current markets using recycled materials from the product.

_Scrap plastic market _____

e. If yes, estimate the practical number of times this item can be recycled. __11__

3. Describe the manufacturer's policy and program to facilitate the recycling or reuse of its product by accepting product returns at the end of their "useful life".

___ Assist end-user connecting with a scrap plastic buyer. _____

IV. TOXICITY/HAZARDOUS MATERIALS

A. Toxic/Hazardous By-Products:

1. List the production wastes involved with the manufacture of this item. Distinguish the production wastes between toxic and non-toxic. Provide percentage amounts in relation to complete (100 percent) product.

<u>Toxic</u>	<u>Non-Toxic</u>	<u>Percentage</u>
_____	___ Polyethylene is non-toxic ___	__100%__
_____	_____	_____
_____	_____	_____
_____	_____	_____

2. Estimate the quantity of production waste produced per unit of finished product.

__2%_____

3. Is reclamation of production waste done on site: ___Y ___X___N? With outside services:

_X___Y ___N?

a. If outside services are used, list companies involved.

Domino Plastics

4. Is waste water reclaimed by manufacturer: X Y N?

a. If yes, describe the process of recycling/reuse of waste water.

Steam boiler is used and the steam an water are recirculated

5. Describe the manufacturer's active steps to minimize or eliminate production wastes; include process of liquid and solid waste material treatment or reclamation if performed at manufacturing site.

Carefull measuring and handling of resin to prevent spillage.

6. Describe the manufacturing procedures and chemicals involved that would be considered better than industry standard.

N/A

B. Toxic/Hazardous Contents (carcinogens and other hazards inherent in product/material):

1. Provide a complete chemical profile of the item; include all chemical components and provide percentage amounts in relation to complete (100 percent) product; identify biocides (mildewcides or in-can preservatives) and carcinogens listed by any of the following:

a. United States Environmental Protection Agency (EPA) Carcinogen Assessment Group (CAG) list of carcinogens.

- a. Does the product outgas (emit) carcinogens or other hazardous substances into the air after installation, including final curing/drying: ___Y ___X___N?
- b. If yes, submit IAQ test report.

E. Electromagnetic Radiation:

- 1. Does the product emit electromagnetic radiation: ___Y ___X___N?
- 2. If yes, at what rate per hour? _____
- 3. If yes, describe methods for installation, use, and maintenance of product to minimize generation of and occupant exposure to electromagnetic radiation.

F. Compliance with Regulations (Environmental Statutory Compliance):

- 1. Does the manufacturer meet all federal, state, and local environmental laws, including laws governing air emissions, waste water treatment, and solid waste disposal/treatment: ___Y ___X___N?

- 2. Has the manufacturer met the above criteria for the previous five years: ___Y ___X___N?

- 3. List the applicable standard.

___PA Dept of Enviromental Quality_____

- 4. Does the product meet applicable industry standards, such as ASTM, Green Seal, manufacturing standards, LA or NY research report numbers, and UL approvals: ___Y ___X___N? List these standards.

___ Don't Know _____

V. PERFORMANCE - INSTALLATION

A. Environmental Procedures/Precautions:

1. Describe special procedures and precautions to be used while handling and installing the product:

__N/A_____

2. Identify accessories, such as fasteners, sealers, and adhesives that are non-toxic (or less toxic than industry standard), energy efficient, or recycled or recyclable products?

__Metal fasteners and 3M DP8005 adhesive_____

B. Installation Energy:

1. Product Transport: List the means to transport the finished product to the construction site.

__Truck_____

2. Installation: List energy means and describe energy requirements for installation of the product.

__Standard carpentry tools_____

C. Construction Waste:

1. List the recommended method(s) for proper products disposal; stipulate preferred method and restrictions which might apply.

Contact plastic scrap company_____

2. Comment on the environmental impact of the product as a waste material.

__Benign_____

3. Packaging:

a. Describe packaging for the product.

___Chipboard, wood pallet, steel bands_____

b. Does manufacturer accept return of used packaging for reuse: X Y N?

c. If yes, state limitations and procedures for packaging return.

___Contractors are unwilling to send the packing materials back by truck_____

VI. PERFORMANCE - OPERATIONS

A. Maintenance

1. Describe the recommended cleaning and maintenance for the product using products which have minimal VOC emission.

___Warm water and mild non-abrasive soap_____

2. Estimate the "useful life" expectancy for this product.

___25 years_____

3. Are replacement parts available: X Y N?

a. If yes, can replacement parts be installed in the field: X Y N?

4. Provide a copy of the life cycle analysis for this product. Don't have one

5. Provide a copy of the manufacturer's warranty for this product. See YH website

B. Energy Efficiency (energy required to operate/maintain):

1. Estimate BTU's required to operate the product when new? _____N/A_____ ; after five years?

___N/A_____ ; after ten years? _____

C. Compliance with Regulations (Environmental Statutory Compliance):

1. Does the product meet all federal, state, and local environmental laws, including laws governing energy efficiency and air emissions: X Y N?
2. Has the product met the above criteria for the previous five years: X Y N?
3. List the applicable standards.

Don't know _____

VII. CORPORATE COMMITMENT

A. Corporate Environmental Policy:

1. Provide copy of manufacturer's stated environmental policies.

See YH Website <http://www.yemmhart.com/>

END OF ENVIRONMENTAL IMPACT QUESTIONNAIRE