

EVALUATION OF "GREENNESS"

DATE 4/5/2005
VERSION 1.0



COMPANY NAME: Fi-Foil Company, Inc.

PRODUCT NAME: VR Plus Shield

COMPONENT PRODUCTS/RAW MATERIALS:

CP1. <u>Flange Board</u>	<u>41</u> %	CP5. _____	_____ %
CP2. <u>Foil</u>	<u>18</u> %	CP6. _____	_____ %
CP3. <u>Paper</u>	<u>38</u> %	CP7. _____	_____ %
CP4. <u>Glue</u>	<u>03</u> %	CP8. _____	_____ %

CATEGORY 1 – COMPONENT PRODUCTS/RAW MATERIALS

CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	
<u>*</u>	<u>N</u>	<u>N</u>	<u>N</u>	_____	_____	_____	_____	1. Are the resources used to make this component renewable?
<u>N</u>	<u>N</u>	<u>N</u>	<u>N</u>	_____	_____	_____	_____	2. Does the manufacture of this component at its source cause significant emission of pollutants into the air or water?
<u>N</u>	<u>N</u>	<u>*</u>	<u>N</u>	_____	_____	_____	_____	3. Does this material create a waste product that must be disposed of in a landfill?
<u>Y</u>	<u>Y</u>	<u>*</u>	<u>Y</u>	_____	_____	_____	_____	4. Is this component mined, refined or otherwise produced in accordance with regulations of a recognized government regulatory body, such as the Environmental Protection Agency?
<u>N</u>	<u>N</u>	<u>N</u>	<u>N</u>	_____	_____	_____	_____	4a. Does the mining, refining, etc. of this component negatively impact endangered species?
<u>N</u>	<u>Y</u>	<u>N</u>	<u>N</u>	_____	_____	_____	_____	4b. Does the mining, refining, etc., of this component result in permanent damage to area from which it was obtained?
<u>N</u>	<u>N</u>	<u>N</u>	<u>N</u>	_____	_____	_____	_____	5. Has any part of the extraction or processing technology for this product been identified as toxic or listed as carcinogenic by an accredited source?
<u>N</u>	<u>N</u>	<u>*</u>	<u>Y</u>	_____	_____	_____	_____	6. Does this particular supplier adhere to regulations established by a trade organization or other non-government organization (NGO) which are more strict than those required by OSHA and EPA?

An asterisk (*) denotes question answered "Don't Know" or unanswered.

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CATEGORY 2 – MANUFACTURING

- N 7. Are there CFCs, HCFCs or other materials listed on the EPA Toxics Release Inventory, used in your manufacturing process?
- N 8. Are significant amounts of water necessary for the processing, cleaning or cooling of this product?
- * 8a. Is this water drawn from a natural source (spring, river, aquifer, etc)?
- * 8b. Is this water recycled for re-use?
- * 8c. Is this water eventually restored to its original state of purity and returned to the natural eco system?
- N 9. Does your manufacturing process utilize more than average amounts of electrical energy for baking, electroplating and/or similar operations?
- N 10. Does the manufacturing of this product create more than minimal waste that must be directed to a landfill?
- Y 11. Is your company a member of the U.S. Green Building Council?
- N 12. Does your company adhere to regulations established by a trade organization or other non-government organization (NGO) which are more strict than those required by OSHA and EPA?
- * 13. Do you have procedures and the necessary equipment in place to eliminate or significantly reduce the discharge of pollutants into the air and/or water?
- N 14. Do you have procedures and equipment in place to eliminate or significantly reduce odors, noise and other emissions that could potentially affect plant workers?
- Y 15. Does the product meet established standards such as ASTM, Green Seal, UL and/or other applicable government and/or NGO guidelines?
- N 16. Has this product or the process by which it is produced been changed within the past two years to meet more stringent environmental standards?
- N 17. Does this product utilize packaging materials that must be discarded after delivery to the jobsite?
- N 18. Is there a program in place at your manufacturing facility for the ongoing conservation and wise use of energy and natural resources, including electricity and water?
- Y 19. Does your industry maintain published standards for the manufacture of your product in terms of environmental performance and/or government regulation?
- N 20. Within the past 24 months, have you changed your product formulation or altered your manufacturing process to make it more environmentally friendly?
- Y 21. Have you taken any measures within the past year to eliminate or reduce the amount of packaging associated with your product?
- N 22. Have you taken any measures within the past two years to switch your packaging material to one that is recyclable and/or biodegradable?
- * 23. Does your product and/or manufacturing process utilize chemicals or other material components that are imported from another country?

CATEGORY 3 – RECYCLABILITY

- Y 24. Do you maintain a program which allows distributors to return unused product, wasted product and product material remnants which would otherwise be disposed of in a landfill for recycling back into your manufacturing process?
- N 25. Can your product be directly reused?
- 0 % 26. What percentage of recycled materials does your product contain?
- Y 27. Can any portion of your finished product be recycled after achieving its useful life cycle?
- N 28. Is there an interim step or steps required before your product can be recycled?

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CATEGORY 3 – RECYCLABILITY (continued)

- N 29. Does your product contain any toxic substance that would prevent it from being recycled?
Y 30. Does your product utilize packaging materials that are recyclable?
N 31. Does your manufacturing facility take part in a recycling initiative for items that are *not* part of the manufacturing process, such as drink cans, cardboard boxes and paper products?
* 32. Does your company maintain a written environmental policy, which includes a recycling plan?

CATEGORY 4 – PRODUCT PERFORMANCE

- N 33. Does this product require the use of any special equipment, clothing or protective devices during the installation process?
N 34. Does this product require the use of any toxic materials for proper installation?
N 35. Does the installation of your product generate any extraordinary waste materials?
N 36. Does your product require the use of any toxic or hazardous chemical or similar substance in its normal maintenance?
Y 37. Can your product be cleaned or otherwise maintained with cleaning products that do not contain VOC emissions?
Y 38. Is the life expectancy of your product equal to or greater than that of the overall structure in which it is installed?
Y 39. Is your product classified as energy efficient?
Y 40. Does your product qualify for rating by the EPA Energy Star or similar government program?
Y 41. Is your product rated for its efficiency or environmental performance by some non-governmental rating organization (NGO)?
N 42. Is your product a roofing material?
* 42a. When installed, is emissivity at least 0.9?
* 42b. Does the installation process require hot mopping, heat welding or coating with chemical sealers?
Y 43. Can your product be a component of an HVAC system?
Y 43a. Does it comply with appropriate ASHRAE standards?
Y 43b. Does the performance of your product allow for more natural ventilation and less forced air into the interior environment?
Y 43c. Does the performance of your product require the interior environment to use less air conditioning in summer and less heat in winter?
Y 44. Is your product free of HCFC'S?
Y 45. Is your product free of halons?
Y 46. Can the performance of your product be measured or verified through an industry accepted method?
Y 47. Can your product be removed and re-installed in a similar structure at the end of the current structure's life cycle?
Y 48. Does the performance of your product create an interior environment that allows for the use of more natural light and less electric lighting?
N 49. Does the use of your product offer the alternative of more renewable resources and less resource depletion?
Y 50. Is the performance of your product required to meet an ASTM or similar specification?
Y 51. Is your product installed/used indoors?
N 51a. Does installation involve a caulking, gluing, curing or sealing process?
N 51b. After installation, does your product release fibers, emit odors and/or otherwise emanate particles or gases into the interior environment?

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CATEGORY 4 – PRODUCT PERFORMANCE (continued)

- N 51c. Does the product require frequent (once a month or more) polishing or refinishing?
N 51d. Does the product require any sanding or finishing after installation but prior to use?
Y 51e. Does the product contain additives, or has it been engineered, to prevent mold and mildew growth?
N 51f. Does the product contain any more than trace amounts of lead, asbestos, mercury, hexavalent chromium or cadmium?
N 51g. Is the end user (building tenant) furnished with written directions for the proper cleaning and maintenance of the product?

CATEGORY 5 – OTHER FACTORS

- N 52. Does your product come with a written performance warranty?
M 53. Is this product shipped to the jobsite directly from the point of manufacture or from a regional warehouse? **Manufacturer** or **Warehouse**
T 54. What is your primary method of shipment from the point of manufacture? **Truck** or **Rail**
N 55. Does your company maintain more than one manufacturing plant in more than one location?
N 56. Does your company maintain more than one distribution facility?
Y 57. Does your product require the generation of a Material Safety Data Sheet?
Y 58. Does your company maintain written documentation verifying the content, testing and environmental performance issues of your product?

VERIFIED DATA

CERTIFICATIONS:

ASTM Standard Tests

The information on this form is totally dependent on the manufacturer's reporting. Please be advised that neither LEAD DOG GQ nor PRB Design take any responsibility for the accuracy of this information. The building team is advised to request product certifications and other substantiated documentation from the manufacturer for product data verification.

"GREENNESS" SUMMARY:

SCORE

- 7 CATEGORY 1 – COMPONENTS/RAW MATERIALS
14 CATEGORY 2 – MANUFACTURING
7 CATEGORY 3 – RECYCLABILITY
36 CATEGORY 4 – PRODUCT PERFORMANCE
3 CATEGORY 5 – OTHER FACTORS
67 "GREEN" QUOTIENT

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