



ENVIRONMENT - 1

Overview:

As a company engaged in wood products manufacturing, **it is our policy to be responsible in the use of our natural resources and to protect the environment in the communities where we work and live.**

Perhaps the best thing that we at Magna Design can do for the environment is to produce **products that last.** Magna Design has always had a reputation for exceptionally durable furniture, which goes back to the strength of our construction methods, and the durability of our materials.

Recycled content of our products

A workstation or table product is made up of **90-95% core materials by volume.** Our standard core material is engineered board **composed of 100% recycled and recovered wood fibers.** This material meets the current requirements concerning urea formaldehyde and other materials used in its production.

Additionally, our products are 99% recyclable by weight.

Our wood **scrap** which includes our sheet material with particleboard core, our wood edge scraps, and our sawdust is separated from our other materials and **sent to a recycler.**

A Task Force with representatives from different departments throughout the company provides direction and monitors our policy.

Magna Design has taken a leadership position in wood waste recycling by working with the South Snohomish County Economic Development Council in forming the Northwest By-Products Association and our Production Manager has served as a Chairman of the group. With several others members of that group the Company hired a consultant who conducted a study resulting in developing a program to recycle our manufacturing wood waste back into new manufactured product in the particleboard industry and to be used as fuel.

The Company has also installed **computerized optimizing and cutting equipment** in order to minimize the wood waste.

Alternative core materials, certified by SCS Scientific Certifications Systems

The company has two alternative core materials .

One is the **'Skyblend' particleboard core that is SCS certified** 100% pre-consumer recycled wood fiber particleboard that has no urea formaldehyde added during the manufacturing process.

Third party testing verifies Skyblend urea formaldehyde emissions (0.00 to 0.01 ppm) are no greater than levels occurring in outdoor ambient air conditions. Skyblend emissions compare favorably with agri-fiber products and wood based composite panels using MDI resin.

Two is the **"Arreis SDF"** sustainable design fiberboard manufactured by SierraPine.

SierraPine, the leader in sustainable and environmentally preferable composite panels introduces a new breed of No-Added Formaldehyde medium density fiberboard...ARREIS.

Engineered to meet the growing demand for sustainable products, ARREIS SDF, also known as Sustainable Design Fiberboard, has the same performance characteristics of standard MDF yet is produced with a formaldehyde-free adhesive system and 100% post-industrial recycled wood fiber.

ARREIS contributes to the following LEED Credits

- Materials & Resources (4.1, 4.2, 5.1, 5.2)
- Indoor Environmental Quality (4.4)



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Earth friendly materials:

Laminates:

WoodPlus laminates consist of Alpha cellulose wood and paper fibers fused with phenolic resins - 30-40% recycled content. All of our standard high pressure laminates are Greenguard certified.

Leatherlam:

Recycled leather fibers. 100% post-industrial waste.

WoodPlus2 Laminates:

PVC based thermofoil. Carcinogen free. Emits no VOCs.

Core materials:

Industrial particleboard

A workstation or table product is made up of 90-95% core materials by volume. We use engineered board composed of 100% recycled and recovered wood fibers.

Skyblend Particleboard

The company offers the alternative 'Skyblend' particleboard core that is SCS certified 100% pre-consumer recycled wood fiber particleboard, that has no urea formaldehyde added during the manufacturing process.

Steel BASES and HARDWARE:

Cold-rolled steel. 30-100% recycled content.

Steel base finishes:

Electrostatically applied polyester powder-coating. Emits no VOCs.

Edgebanding, wood:

Hardwood is harvested from sustained-yield forests.

Edgebanding, PVC:

Emits no VOCs.

Adhesives, Edges :

Hot melt glue is solvent and carcinogenic free. Emits no VOCs. Non-toxic water based adhesives that emit no VOCs.

Scrap and Waste Materials:

The **majority** of our wood scrap and sawdust is diverted to alternative uses such as fuel, mulch, and animal bedding products.

Fabric:

Most of the fabrics we use are made from 100% recycled or compostable materials using increasingly sustainable processes that reduce water, waste, air pollution and electrical consumption.

Other than COM fabrics, we use GUILFORD of MAINE panel fabrics. For the period Jan to April of 2006, 93.5% of the fabric used is the GUILFORD 100% RECYCLED POLYESTER in their TERRATEX program.

Low-volume, High-performance packaging:

90% of our products are shipped blanket wrapped. Our standard shipping is by blanket wrap. Most of our orders to Hawaii and Alaska are blanket wrapped directly into the ocean freight company's trailer.

We combine corrugated board with recyclable stretch wrap to reduce the volume of material that requires disposal at the installation site. We incorporate as much recyclable material as possible into our packaging.

We are actively seeking **local manufacturers to reduce the cost and pollution of shipping long distances.** We have already moved several component parts from Asian sources to regional suppliers (within 200 miles).



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Recycling/Conservation activities in our facility

The company has implemented **waste paper and cardboard recycling** throughout the office and plant with the use of separate containers and has contracted with a Waste Management firm that collects the materials. In our manufacturing facility we have **installed better efficiency low watt lighting**. In 2005 we installed current technology (high efficiency) lighting that increased light and decreased energy consumption by nearly 50%. Gone are all the old fixtures and light tubes that may have contained mercury and PCB's. All fixtures and lights were sent to a recycler. We are looking to install current technology lighting outside the building.

Heating and Cooling

Magna's offices are heated and cooled with heat pumps using no fossil fuel in their operation.

EnviroStars program

Participating in the EnviroStars program, a nationally recognized regional program for pollution prevention and reduction of hazardous waste, **Magna Design has been certified as a 5 Star EnviroStar (highest level)**.

Climate change:

1. **The city of Lynnwood** has signed on to the US Mayors Climate Protection Agreement which officially endorses the Kyoto Protocol goal of reducing greenhouse gas emissions to pre 1990 levels by 2012.
2. **Washington State** is the only state in the union that receives a majority of its power from a non-polluting source (hydro-electric). That being said the mere reduction in electrical consumption will not directly affect the amount of pollution going into the air.
What reducing electric consumption will do is postpone the need for new electric generating sources. As large dams have adverse environmental impacts and are extremely expensive, there is little likelihood that any significant new dams will be built. This means that in order to accommodate the expected 1.4 million new inhabitants of the state (projected over the next 10 years) other sources of energy will need to be developed, most likely coal fired or nuclear plants. The alternative to new generating plants and more pollution is to **reduce consumption by about 20%** allowing the current infrastructure to serve for at least the next ten years.
3. Magna will be **replacing of all standard incandescent lights** sources within the company with compact fluorescent bulbs.
4. Single pane windows will be replaced over time with energy efficient **multi pane designs**.
5. CRT's will be replaced with **flat panel monitors**..