



Eggers Industries

Turning nature's beauty into works of art



Eggers Industries manufactures architectural wood doors, panels and veneered components for premier commercial projects. Traditional craftsmanship and cutting edge technology work hand-in-hand to provide competitive production capabilities and extensive customization. Each *Eggers News* will highlight a feature project, technical and industry information that showcases Eggers' design solution opportunities.

 **INSIDE THIS ISSUE**

FSC Certified SCL Core Now Available
Page 1

Opening Preparation Critical to Field Performance of Acoustical Doors
Understanding critical factors in acoustical field performance
Page 2

Touch-Ups on LEED Projects
Ensuring your touch up stain, varnish, or paint meets LEED job site requirements
Page 3

Formaldehyde Bill heads for President's Signature
Bill would implement nationwide formaldehyde standards
Page 3

Green Highlight: FSC, STC, and Mineral Cores on Government Projects
Understanding the effect of special constructions on FSC projects
Page 4

Immediate Inspection Critical to the Success of Freight Claims
Simple steps can ensure a successful claim
Page 4

Eggers Industries Earns "Energy Efficiency Champion" Award
Award recognizes recent energy saving initiatives
Page 5

FSC® Certified SCL Core Now Available

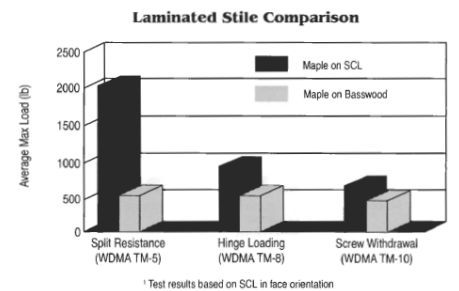
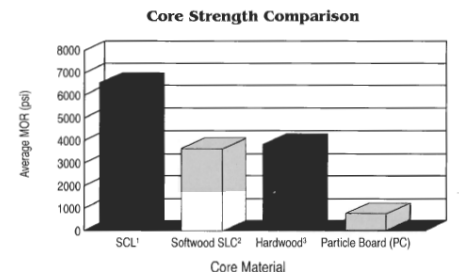
Eggers Industries is now offering FSC certified structural composite (SCL) lumber core flush doors. This SCL is the same product that Eggers Industries has been supplying on projects for the last decade. Our current SCL supplier has successfully completed their FSC application and audit process as of June 1st of 2010.

This product is American made which is another important attribute for the "Buy American Act" and can contribute to the LEED regional credit for projects where applicable.

Structural Composite Lumber (SCL) is manufactured with a network of lumber strands laminated together with a waterproof adhesive to form a single, solid, stable door core, reducing the risk of telegraphing or warp. SCL core offers superior stability and screw holding power when compared to either stave or particleboard core. Now available as FSC certified, FSC certified SCL core is a perfect alternative to FSC certified stave core or FSC certified particleboard when screw holding, machining, and duty level are concerns.



FSC certification ensures responsible use of forest products.
©1996 Forest Stewardship Council A.C. SW-COC-000729
Ask us for FSC Certified Products



For more Eggers news and event information, visit www.eggersindustries.com and choose About Eggers.

Opening Preparation Critical to Field Performance of Acoustical Doors

Regardless of the STC rating of an acoustical door, the door's actual acoustical performance is reliant on the proper installation of the entire opening. Understanding how an opening must function can help ensure that the opening will allow for proper installation and better acoustic performance.

There are three principal elements of the acoustic assembly: the frame, the door and the seals. All three of these elements contribute to the acoustic performance of the opening based on their individual characteristics as well as the way they interact with one another. For the most part these characteristics are determined by their construction. The STC rating achieved in a lab test, however, represents only the potential acoustic performance of the assembly. The actual performance is determined by the final installation.

The performance of the door is relatively fixed at the time of manufacture. Unless its construction is modified, it will deliver a known sound reduction. In a similar way, once the frame is installed its performance is "fixed" by the materials used. By virtue of their role in the assembly, the seals are the key variable in the installation. Consider their role. The seals must maintain the acoustic performance of the assembly when the door is closed, but must also allow the door to be operable. For this reason, acoustic openings are very sensitive to improper specification and construction. The field performance most closely matches the lab performance when the field installation most closely resembles the lab installation. So what should the opening look like?

When acoustic doors are tested to the ASTM E-90 laboratory test method they are installed in a controlled environment where every effort is made to insure the framed opening is square, plumb and with a flat, level sill. When the opening is correct the installed seals allow the door to operate while at the same time forming a repeatable seal when the door is closed. Part of the acoustic test involves repeated opening and closing of the assembly without adjustments.

A frame that is out of square will typically result in binding or excessive sound leaks. Tolerances are tight and seals typically do not have the ability to "fill" an excessive clearance. On the other hand, they will bind and fail to operate properly where clearances are too tight. Frames that are out of plumb will make a seal to one area of the door but will hold the rest of the door away from the frame and the seals mounted on it. This also will result in excessive sound leaks. A floor that is not level can result in uneven sealing of the bottom clearance. In extreme cases it will require trimming and re-machining of the door. In all of these cases considerable effort will be required to locate, adjust, shim, trim or re-machine some component(s) of the assembly to compensate for an improper opening. Where such effort is not spent, the opening will not perform as designed or expected.

Ultimately, the opening preparation and installation control the actual field performance of an acoustic assembly. This is truly a case where an ounce of prevention is worth a pound of cure. By taking these steps and precautions you can ensure your opening provides you with the highest acoustical performance possible.



A properly prepared opening and the proper installation of gasketing (above) are critical to the field performance of an acoustical door.

Touch-Ups on LEED Projects

The US Green Building Council requires that all paints and adhesives used at LEED jobsites meet certain VOC emission levels. To ensure these requirements are met in a convenient manner, Sherwin Williams has LEED compliant materials available at their retail outlet paint stores. The recommended finish products are:

Stains: Minwax Wood Finish 250 VOC formula

Varnish: Minwax Water-Based Polyurethane 143 Series Varnish

Opaque: ProMar 200 Latex B20W and B31W Series

To secure the appropriate color, take the approved sample to any Sherwin Williams retail store and ask to have the color and gloss matched using a LEED approved finish material.

Formaldehyde Bill Signed Into Law

WASHINGTON -- On July 7, President Barack Obama signed into law the Formaldehyde Standards for Composite Wood Act, thereby leveling the playing field between domestic and imported products made from composite panels.

The bipartisan legislation establishes national air emission standards for products sold and distributed throughout the United States that contain particleboard, MDF and hardwood plywood. The bill also directs the U.S. Environmental Protection Agency (EPA) to establish implementation, testing and compliance provisions for the standard that can be implemented on a national level.

“High levels of formaldehyde are a health threat,” Klobuchar said. “This bill will establish national standards that will both protect public health and ensure an even playing field between domestic wood products and foreign imports.”

“The health threats posed by formaldehyde have been around us in products such as shelving, cabinets and particleboard furniture,” Sen. Crapo commented. “Our responsible domestic wood products producers adopted these safety standards years ago and it is now fitting that this new law will stop imports of these potentially dangerous products from foreign nations as well.”

About the standard

The Formaldehyde Standards for Composite Wood Act establishes national emission standards under the Toxic Substances Control Act (TSCA) for formaldehyde in new composite wood products (secondhand products and antiques are exempted.)

Under the legislation, by Jan. 1, 2013, these products sold in the U.S. would have to meet a formaldehyde emission standard of about 0.09 parts per million. Collectively, these would be the toughest standards in the world.

In addition to establishing the national standards, this legislation:

- Requires third-party testing and certification to ensure that products with formaldehyde comply with the national standards; and
- Directs the EPA to work with Customs and Border Protection and other relevant federal agencies to enforce the standards for imported wood products.

For more information, please click [here](#) and [here](#) for the full articles.

FSC, STC, and Mineral Core on Government Projects

More and more government projects are requesting FSC door constructions in order to meet government mandates for LEED certified buildings. In most cases this is not an issue, since Eggers can manufacture and supply FSC doors and jambs in several door types. The key component in our FSC doors are the cores, whether it be particleboard, structural composite lumber or stave lumber core. Some door types required for high security projects do not have core components available as FSC certified and contribute little if any to the LEED calculations for certified wood content.

The two most common door constructions which do not have FSC cores available are fire-rated mineral doors and high rated STC acoustical doors. This is important to consider when bidding for a project which has a large number of STC doors and/or fire rated doors. These doors are usually higher priced than our FSC door constructions and can offset the value of the FSC doors bid for the project.

The dollar value is the key in calculating whether a project meets the LEED certified wood credit or not. For example, if your project has \$100,000 of STC or mineral core doors and only \$10,000 of FSC particleboard doors it would be difficult to meet the requirement that 50% of the door values need to be FSC certified. If you are not sure about a specific project, Eggers would be happy to assist you in evaluating the FSC credit. This way your customer is aware of the situation at bid time and you can avoid issues after the project is awarded. For any questions or concerns regarding these topics, please contact Mike Miller, Director of Environmental Stewardship at 920.722.6444 ext. 109 or mmiller@eggersindustries.com.

Immediate Inspection Critical to Success of Freight Claims

Eggers Industries often times plays the role of middle man when it comes to freight claims submitted by Eggers' customers to the shipping companies. In doing so Eggers consistently sees the same issues costing you, Eggers' customers, time and money; in response to that concern this article is aimed at outlining the necessary steps to successfully process a freight claim.

First and foremost is the need for immediate inspection. If you sign off on a shipment as "free and clear of all encumbrances" only to find freight damage several weeks later your odds of a successful freight claim are greatly diminished. If, however, you perform even a very brief immediate inspection of the condition of the packaging before signing for it many incidents of freight damage could be handled immediately and with greater success.

The next step, which should be performed within 48 hours of receipt, is to actually open the load and perform a closer inspection of the product for freight damage that may not have been visible with the original inspection. By having that inspection performed within 48 hours compared to a week or more your chances of a successful freight claim rise exponentially.

It has always been, and will always be, Eggers' goal to provide you with worry free and damage free products and Eggers' seeks out improvement opportunities each and every day aimed at doing just that. However since Eggers does not have control of the product once it leaves an Eggers' facility the need for proper facilitation of delivery and receipt is critical.

Eggers Industries Earns “Energy Efficiency Champion” Award

Being a “Green” company isn’t just about producing green products. It’s about producing products in a way that is green. Eggers Industries has long been dedicated to providing our customers with the most comprehensive selection of environmentally friendly products while manufacturing them in a way that reduces waste and minimizes Eggers’ environmental impact.

On May 24th, Eggers was awarded the “Energy Efficiency Champion Award” by the City of Two Rivers and WPPI Energy for its most recent energy saving efforts. The award was the result of several initiatives Eggers has implemented over recent years.

About the Award

The Energy Efficiency Awards are the result of a project the City of Two Rivers began 5 years ago. Eggers Industries, along with several other businesses within the community, participated in an energy audit in which WPPI assisted in identifying opportunities for increased energy efficiency.

Over the next several years, various businesses voluntarily took action to improve their energy efficiency. Three years ago, the City of Two Rivers began tracking the energy savings of these companies. As a result of the improvements 1,851,131 kilowatt hours were saved annually. Of the companies that participated, 5 exceeded 100,000 kilowatt hours of savings.

The City of Two Rivers honored these 5 companies. Each participant was honored with an “Energy Efficiency Improvement” award. Eggers was instead awarded the “Energy Efficiency Champion” award. This outstanding honor was a result of the drastic energy savings Eggers had accomplished.

The combined savings of the 5 honored companies was 1,436,151 kilowatt hours. Eggers’ contribution to that total was 718,000 kilowatt hours—almost triple that of the next highest savings of 252,500 kilowatt hours. It is estimated that this reduction will yield \$70,000 in energy savings annually.

Investing In Energy Efficiency

Eggers’ path to energy savings was focused on improvements in 4 key areas: air leaks, air compressors, lighting, and painting. All the projects were taken on by Eggers voluntarily and many were sponsored in part by Focus on Energy grants.

Air Leaks: When an energy audit was conducted at the company’s West Plant location, a number of air leaks that had formed over time were identified. Eggers’ maintenance used this information to plug such leaks and improve the efficiency of the building.

Air Compressor: The air compressor upgrades at the Eggers West Plant go hand in hand with the plugging of air leaks. As a result of resolving these air leak issues, Eggers was able to replace two inefficient older air compressors with one variable speed drive compressor without losing any productivity.

Lighting: One of the most strongly suggested improvements that resulted from the audit was the replacement of lighting at both the Eggers East and West Plant facilities. Per the audit recommendations, the lighting at both facilities was replaced with T8 lighting, which is an extremely energy efficient fluorescent lighting. This lighting reduced energy consumption by 52% over the last two years.

Painting: When used in combination with the new T8 lighting, painting the facility walls bright white created a greater reflection of the light being used, reducing the amount of lighting needed over all.

