

Foamkore-Green

The environmentally friendly version of Foamkore.

Foamkore-Green is an environmentally NAF (no added formaldehyde) product that provides a lightweight panel with structural integrity at a greatly reduced weight. It consists of a Eucalyptus fiber hardboard face with a polystyrene foam core. This product is made from recovered and recycled materials and can help qualify for LEED credit points for MR 4.1, MR 4.2, and EQ 4.4.

Foamkore-Green provides over 60% weight reduction when compared to particleboard and MDF in 3/4" thickness. Even more weight reduction is obtained when comparing to thicker materials.

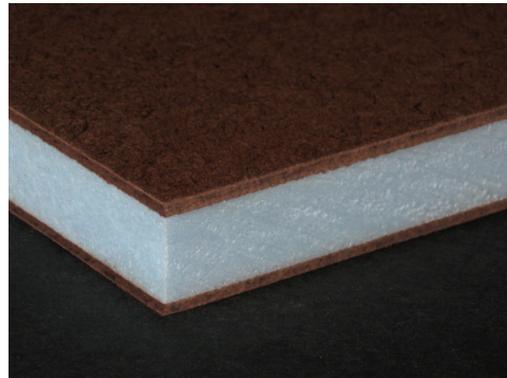


Photo Courtesy of: Geoff Howell Studio

Foamkore-Green will allow for a variety of face materials to be added such as: veneer, laminates, paper, graphics, and other similar thin materials. It can also be special ordered with a veneer pre-laminated to the hardboard so lightweight architectural panels can be produced.

Foamkore-Green applications include: shelving, partitions, ceiling panels, wall systems, signage, displays, theatre props, doors, elevators, kiosks, tabletops, furniture, motor homes, boats and many more lightweight applications.

Panels are available in a nominal size of 4' x 8' and 4' x 10'. Panel thickness can range from 3/4" up to 3" with custom customer thickness easily available. Optional custom sizes, and face options are available upon request.

KERFKORE®

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FOAMKORE-GREEN SPECIFICATIONS

PRODUCT DESCRIPTION

Foamkore-Green is an environmentally NAF (no added formaldehyde) product that provides a structural panel with greatly reduced weight. It is a balanced constructed panel that uses a Eucalyptus fiber hardboard face with a polystyrene foam core.

PRODUCT CHARACTERISTICS

Foamkore-Green is constructed by capturing a lightweight polystyrene foam core with higher density face panels to provide a strong lightweight panel with structural integrity. The core product is an extruded polystyrene foam (XPF) that is closed cell in structure and provides a consistent and very uniform surface to machine. The sandwich panel construction method incorporates the use of thinner outer panels bonded to a thicker lighter core. This construction provides for a strong light panel that can be compared to a truss beam. This panel concept is to space thin stronger face panels apart with a thicker core to ensure the combination will be stiff and strong.

Foamkore-Green is available in nominal 4'x8 and 4'x10' sizes. The product can be produced in any thickness from 3/4" up to 3". Special sizes and other options are available.

LEED and Foamkore-Green

The U. S Green Building Council (USGBC) had established the Leadership in Energy and Environmental Design (LEED) program to provide a qualification for environmentally friendly products. The polystyrene foam in the **Foamkore-Green** product contains up to 40% post-industrial recycled content and along with the face material can help qualify for LEED credits MR4.1 and MR 4.2. The NAF hardboard face along with the NAF foam core allows the product to qualify for LEED credit EQ 4.4.

ATTACHMENT METHODS

The rigid face materials used in the **Foamkore-Green** product provide the ability to use conventional attachment methods. The use of glue, staples, nails, screws and other similar fasteners will allow the panel to be physically and structurally attached to other materials. The big advantage with **Foamkore-Green** is the reduced weight of 60% from conventional panels, This reduced weight will allow for usages where heavier panels would be prohibited therefore making **Foamkore-Green** an excellent product for those areas where weight is a concern.

EDGE TREATMENTS

Foamkore-Green has many options to treat the panel edges.

Edge banding: An edge band can be applied to **Foamkore-Green** by use of a hot melt edgebander. When using this automated equipment, proper adjustments and tests should be made to provide the desired results. Also edge banding by hand with a contact or PVA adhesive is possible. If contact adhesives are used they must be developed for and suitable for polystyrene foam use.

Outer Edge Band: A wooden outer band can be glued to the Foamkore by use of a wood PVC glue. This will allow for more decorative edge machining options.

Edge Capture: There are systems available that allow for the adjoining panels to be joined together by use of rails or channels. This is done often in the exhibit industry by the use of extruded plastic or aluminum rails. This method can provide additional structural support or just a covering or edging for the panels.

Edge Insert: The edge of **Foamkore-Green** can be machined to accept a wooden insert. This insert can be held and glued in place with clamps until the glue has set. The product can also be custom ordered with an internal band when manufactured. The availability of this method will need to be reviewed by the factory for compatibility and performance requirements.

FIRE RATING

The extruded polystyrene core has been ASTM E84 tested with results of 5-10 Flame Spread and 60-200 smoke development which falls in a Class A qualification. However, the addition of the face materials must be taken into consideration for overall fire rating.

LAMINATING METHODS

Most face materials can be easily adhered to the **Foamkore-Green** panels. The addition of balanced materials is recommended. The use of contact adhesive is advisable where possible. It is possible to cold or hot press material but minimum pressure should be used. A pressure of 10-15psi is usually suitable for these applications. An actual test should be used to determine what is best suited for the material you may want to laminate.

CONDITIONING AND STORAGE

Proper conditioning and storage is extremely important with **Foamkore-Green**. The balanced constructed panel should be stored on a flat uniform surface away from direct contact with the floor to allow for proper air circulation. A cover sheet is recommended to help maintain uniform moisture levels. Some weight is desired to keep the cover sheet tight during storage. If panels must be stored in a vertical position make sure this is done without excessive weight to either side.

Item #	Face Material	Nominal Thickness	Nominal Size	WT/SF
FK75HB08	.08 NAF HB	3/4"	4X8	1.0lbs.
FK75HB08/10	.08 NAF HB	3/4"	4x10	1.0lbs.

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