

Kerfed Foamkore-Green

The environmentally friendly version of Foamkore.

Kerfed Foamkore-Green combines the lightweight advantages of **Foamkore-Green** with the bend ability of **Kerfkore** to produce a structural lightweight bendable panel. This environmentally friendly product can help qualify for LEED credits MR4.1, MR4.1 and EQ4.4. It gives the fabricator the ability to create curves needed by his customer but at a much reduced weight for applications that are normally extremely difficult to achieve.

Kerfed Foamkore-Green can be fabricated and formed into fixed curved items as with our other kerfed products. The hardboard face allows for painting or for different face material applications with contact adhesive. It is ideal for custom fabrication where weight is a concern. Weight reduction of over 60% is easily achieved when compared to other similar size products.

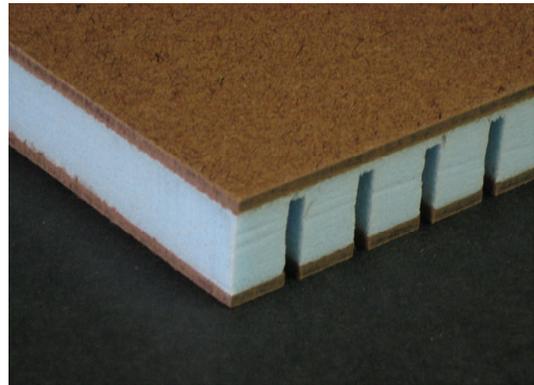


Photo Courtesy of: ASI Displays

Kerfed Foamkore-Green panels are available in a nominal panel size of 4' x 8' and 4' x 10' in 3/4" thickness. This panel can be bent to an 8" radius and is designed to be laminated after bending.

This product allows for a variety of face materials to be added such as veneer, laminates, vinyl, paper and other thin materials. It provides an excellent product for elevated applications such as signs, curved beams, ceilings, columns, wall panels and others weight concerning areas. Installations of these projects are much easier and safer with this lightweight product.

KERFKORE®

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KERFED FOAMKORE-GREEN SPECIFICATIONS

PRODUCT DESCRIPTION

Kerfed Foamkore-Green is an environmentally friendly lightweight Foamkore product that has been kerfed to allow for usage in curved and radius applications. It consist of a NAF (no added formaldehyde) .080 hardboard face material with a NAF polystyrene core.

PRODUCT CHARACTERISTICS

Kerfed Foamkore-Green is constructed by capturing a lightweight polystyrene foam core with higher density face panels and then kerfing one side to provide a strong lightweight bendable panel with excellent structural integrity. The core material is an extruded polystyrene foam (XPF) that is closed cell in structure and provides the stable lightweight center. The hardboard face allows the panel to bend while still maintaining a stable surface to apply many different face materials.

Kerfed Foamkore-Green is available in standard 3/4" thickness with nominal 4' x 8' and 4' x 10 sizes.

ATTACHMENT METHODS

Kerfed Foamkore-Green is a very flexible product that can be easily bent and attached to a ribbed frame. The rigid face material used provides the ability to use conventional attachment methods. The use of glue and clamps will allow the panel to be physically and structurally attached to other materials. Horizontal ribs spaced about 16" to 24" apart will be needed as this equalizes the bending stresses and will produce a smooth finish surface. The big advantage with **Kerfed Foamkore-Green** is the reduced weight from 50-80% from conventional panels, This reduced weight will allow for usages where heavier panels would be prohibited. **Kerfed Foamkore-Green** is also suitable to make freestanding curved parts such as doors and panels by simply gluing a backing sheet to the rib side of the product while it is bent into the desired shape. The use of a rigid setting glue to attach this backing sheet is recommended as it will provide a stronger bond.

LEED INFORMATION

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 **Kerfed 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.

BENDING CAPABILITIES

The recommended bending radius obtainable using **Kerfed Foamkore-Green** is 8 inches. While a smaller radius may be obtainable, it is best to do a test before proceeding to ensure the performance of the materials will be acceptable.

ADHESIVES

Kerfed Foamkore-Green's stable hardboard face allows for the use of any contact adhesive suitable for face attachment of decorative laminates or other desired face materials. Please follow the adhesive manufacturer's directions to obtain the proper results. However, care should be taken with the core material as the foam is susceptible to damage if a solvent based adhesive comes into direct contact with it. Use of other glues is also acceptable for attaching face material provided they can be used after the product has been formed. As with any product, it is best to do a test on a small sample to determine how the materials will work together.

LAMINATING METHODS

Kerfed Foamkore-Green allows many different face materials to be easily adhered to the panel. The use of contact adhesive is advisable where possible. When using a contact adhesive, light to moderate pressure is adequate. Firm hand pressure or moderate pressure with a J-roller works well. The use of a pinch roller is not suggested as this could cause compression of the foam kore. An actual test should be used to determine what is best suited for the material you may want to laminate.

STORAGE

Proper storage is important as with any material. The balanced constructed panel should be stored on a uniform surface so to prevent any compression of the foam material. A cover sheet is recommended to maintain uniform levels and 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.

CONDITIONING

Kerfed Foamkore-Green should be acclimated to the same as the face material that will be applied. You should review the guidelines recommended by the face manufacturer the ensure these conditions are satisfied.

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 hardboard face materials must be taken into consideration for overall fire rating.

KERFED FOAMKORE-GREEN CLASSIFICATIONS AND DIMENSIONS

Item #	Face Material	Panel Size	Thickness	Wt.SF
FK75HB08K	.08 Hardboard	4X8	3/4"	1.00lb.
FK75HB08k/10	.08 Hardboard	4X10	3/4"	1.00lb.

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