

# Foamkore

A new lightweight cost-effective alternative to traditional panels



- Up to 80% reduced weight when compared to conventional panels of plywood, particle board, and MDF.
- Rigid face materials provide the ability to use conventional methods of attachment. The stable panel provides the ability to apply a variety of edging options including edge insert, outer edge band and conventional edge banding.
- The balanced panel allows for a variety of face materials to be added such as veneer, laminates, paper, graphics and other thin materials.
- Foamkore panels are available in a nominal panel size of 4'X8'. Panels are available in thicknesses from 3/4" up to 3". Optional custom sizes, thickness and face options are available upon request.
- Panels are available with an optional internal edge band that can allow for more conventional assembly construction methods. Internal bands are available in MDF, plywood and solid lumber.

- Foamkore consists of a balanced constructed foam board that provides a structural panel with greatly reduced weight. It consists of a polystyrene foam core and thin face materials.
- Foamkore is available with numerous thin face materials. These include Hardboard, Fiberboard, MDF, TFM, Luan Plywood, Poplar Plywood and other materials as needed.
- Foamkore-Green is available with NAF (no added formaldehyde) face materials that can contribute to LEED credit points MR 4.1, MR 4.2, and EQ 4.4.



## KERFKORE®

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# FOAMKORE SPECIFICATIONS

## PRODUCT DESCRIPTION

**Foamkore** is a balanced constructed foam board that provides a structural panel with greatly reduced weight. It consists of a polystyrene foam core and thin rigid face materials.

**Foamkore-Green** is an environmentally friendly NAF (no added formaldehyde) product. It consists of a Eucalyptus fiber hardboard face with the foam core and can help qualify for LEED credits MR 4.1, MR 4.2 and EQ 4.4.

**Kerfed Foamkore-Green** is a version of Foamkore-Green that provides a structural bendable panel with the same environmental and lightweight advantages.

## PRODUCT CHARACTERISTICS

**Foamkore** is constructed by capturing a polystyrene foam core with higher density face panels to provide a strong lightweight panel with structural integrity. Two core materials are available in this product. One is an extruded polystyrene foam (XPS) that is closed cell in structure and provides a consistent and uniform surface to machine. The other product is an expanded polystyrene foam (EPS). The sandwich panel construction method incorporates the use of thinner outer panels bonded to a thicker lighter core to provide for structural strong light weight panels.

## PANEL DIMENSIONS

**Foamkore** is available in a nominal 4 x 8 and 4 x 10 sizes depending upon the face. It can be produced in thickness ranging from 3/4" up to 3". Special sizes and other options may be available as requested.

**Kerfed Foamkore-Green** is available in 1/2", 3/4", and 1" thicknesses.

## ATTACHMENT METHODS

The rigid face materials used in the **Foamkore** 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** is the reduced weight from

50-80% from conventional panels, This reduced weight will allow for usages where heavier panels would be prohibited.

## 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.

## MOISTURE RESISTANCE

In most applications, **Foamkore** is a moisture resistant material. The core material provides outstanding resistance to moisture. The face panels are laminated with moisture resistant glue leaving only the face susceptible to moisture. In tests, all the plywood face materials have performed well when exposed to these conditions.

## CONDITIONING AND STORAGE

Proper conditioning and storage is extremely important with **Foamkore**. 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.

## LAMINATING METHODS

Most face materials can be easily adhered to the **Foamkore** panels. The use of contact adhesive is advisable where possible. It is also possible to cold or hot press material but pressure and temperature restrictions must be used. A maximum pressure of 20psi recommended for these applications. An actual test should be used to determine what is best suited for the material you may want to laminate. Also, it is important to remember that **Foamkore** is a balanced constructed panel and the need to keep it stable may require equal material to be applied to both sides.

## EDGE TREATMENTS

The solid foam edge provides many user options when edging **Foamkore**.

**Edge banding:** An edge band can be applied by use of an automated edgebander or by hand with a contact or PVA adhesive. When using automated edge banding equipment, proper adjustments and tests should be made to provide the desired results. Thicker band material is recommended to provide a more durable finished product. If using contact adhesives it must be suitable for polystyrene foam.

**Outer Edge Band:** Outer wooden bands can be attached to the **Foamkore** by use of PVA glue. This will allow for more edge machining options.

**Inside Corner Post:** The ability to remove a small area of the core and one side allows for the attachment by glue an insert strip to serve as a post to provide the means to attach panels with other material.

## FACTORY EDGE TREATMENTS

**Interior Solid Band (Optional):** An interior solid band of wood, MDF, PB or plywood can be factory provided as required. This will require drawings and additional information to ensure that desired component part can be constructed properly. The factory should be contacted for more information about this process.

## FOAMKORE CLASSIFICATIONS AND DIMENSIONS

Item #	Face	Nominal Size	Thickness	Wt./SF
<b>Foamkore with extruded polystyrene core</b>				
FK75HB08	.080 Hardboard	4X8	3/4"	1.00lb
FK75HB08/10	.080 Hardboard	4X10	3/4"	1.00lb
FK75FB12	1/8" Fiberboard	4X8	3/4"	1.00lb
FK75LP12	1/8" Luan Plywood	4X8	3/4"	.75lb
FK75PP12	1/8" Poplar Plywood	4X8	3/4"	.625lb
FK75CB18	3/16" Birch Plywood	4X8	3/4"	1.30lb
<b>Foamkore with expanded polystyrene core</b>				
FKW75HB08	.080 Hardboard	4X8	3/4"	1.00lb
FKW75HB08/10	.080 Hardboard	4X10	3/4"	1.00lb
<b>Kerfed Foamkore-Green</b>				
FKW75HB08K	.080 Hardboard	4X8	3/4"	1.00lb
FKW75HB08K/10	.080 Hardboard	4X10	3/4"	1.00lb

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