

WORKLITE® GPS FOAMKORE® SPECIFICATIONS

PRODUCT CHARACTERISTICS

Worklite GPS Foamkore reduces material weight up to 80%* by capturing a lightweight core between two thin high-density faces, resulting in a strong lightweight panel. Core material is a graphite-enhanced polystyrene that provides compressive strength, moisture resistance, and Class A fire rating. Due to this polystyrene's reflective property, the core has a stable R-Value at 5.0 per 1" thick. Acceptable decorative surfacing materials for lamination include high-pressure laminates, veneers, metals and many other semirigid materials as well as stain or paint.

*Compared to conventional panels made of plywood, particle board and MDF.

CORE MATERIAL OPTIONS

Standard

GPS Foamkore (Graphite Polystyrene Foam) – Closed cell structure enhanced with high purity graphite.

FACE MATERIAL OPTIONS

Standard: Eucalyptus Hardboard

Options: Fiberboard
Poplar Plywood

DECORATIVE SURFACING MATERIALS

High-Pressure Laminates (vertical, post formable, standard)

Veneer

Metal

Stained

Painted

Other Similar Materials

ADHESIVE OPTIONS

1. Any contact cement recommended for use with decorative laminates or veneers should be acceptable on the face materials when using a J-roller (Solvent or water-based system are both satisfactory). Do not use contact adhesives / petroleum-based adhesives on the foam itself.
2. PVA glue is acceptable for attaching decorative surfacing material when using a press machine.
Note: It is best to test a small sample to determine how materials will work together before proceeding.

LAMINATING PRESSURE

Contact Adhesive

Apply contact adhesive to both materials.

Use LIGHT TO MODERATE pressure when bonding the decorative surfacing material to Worklite.

Use firm hand pressure or moderate pressure with a J-roller.

PVA Glue

Apply glue to one side only, either decorative surfacing material or Worklite material will work.

The use of PVA adhesive with a cold press is recommended.

Adequate uniform pressure should be applied.



Recommended Pressure: 10-15 PSI for GPS Foamkore

Drying Time & Temperature: Use glue manufacturer's recommendations.

DO NOT exceed 15 psi for GPS Foamkore. It's best to test to determine what's best for lamination material.
IMPORTANT: To maintain balance and stability, apply equal material to both sides.

FACTORY FRAME AND INTERNAL BANDING OPTIONS

Custom frames and internal bands can be added during the manufacturing process.

Materials: Solid Finger Jointed Lumber, MDF, Particleboard or Plywood

Procedure

1. Submit Drawing Showing:
 - a. Width and location of frame and interior bands
 - b. Overall panel length, width, and thickness
2. May require additional information to ensure desired outcome

Due to the custom nature of this process, there may be minimum requirements along with set up charges based on size variety and quantities. Please contact Kerfkore for more information about construction and size availability.

CONDITIONING & STORAGE

Proper conditioning and storage are extremely important.

1. **IMPORTANT:** Store panels on a flat uniform surface away from direct contact with the floor. This will allow for proper air circulation.
2. Use a cover sheet to maintain uniform moisture levels. A small amount of weight is required to keep the cover sheet tight during storage.
3. When storing panels vertically, make sure there **NO** excessive weight on either side.
4. If panels are loose, place support sticks between panels to provide even air flow on both sides.

MOISTURE RESISTANCE

1. GPS Foamkore is moisture resistant in most applications.
2. The core material provides an outstanding resistance to water.
3. Moisture resistant glue is used to manufacture GPS, leaving only the faces susceptible to moisture.
4. In tests, the plywood and hardboard faces have performed extremely well.

FLAME SPREAD TEST

Test: ASTM – E84

Product: Graphite Polystyrene

Results: Class A Qualification with a 5 Flame Spread and 25 Smoke Development

NOTE: Addition of the face materials must be taken into consideration for overall fire rating.

Oversized Panels

Sizes: Up to 5' X 12'

Internal Frame Options: MDF, Particle Board or Solid Finger Jointed Wood

Face Material Options: MDF (4' x 12', 5' x 12') and Hardboard (4' X 12')

Other face materials may be available on request.

WORKLITE GPS FOAMKORE CLASSIFICATION AND DIMENSIONS

Item #	Core Material	Face Material	Face Thickness	Nominal Panel Size	Thickness	Weight/ Square Foot
GK75HB08	GPS Foamkore	Hardboard	0.08"	48" x 96"	3/4"	1.0lb
GK75FB12	GPS Foamkore	Fiberboard	1/8"	48" x 96"	3/4"	1.3lb
GK75PP12	GPS Foamkore	Poplar Plywood	1/8"	48" x 96"	3/4"	0.6lb

Additional technical information available at: www.kerfkore.com.