Flexboard

A bendable substrate with a hardboard face that can be formed first and laminated last

Flexboard is a low-cost alternative to bending plywood for radius fabrication.

Flexboard provides 10-inch radius fabrication quickly and easily with no sanding, patching, multiple layers, special installation, or odor.

Flexboard reduces cost, scrap, and weight and can be used for radius applications as vast as one's imagination.

Flexboard can be bent and attached to a ribbed frame easily with staples and nails.

Flexboard is an eco friendly product with a NAF face material and core made from 100% recovered and recycled fiber content.

Flexboard is available in nominal, 4'x8' and 8'x4' sizes with a particleboard, MDF, or plywood core and an .080 thick hardboard face. The hardboard surface is ideal for painting or laminating paper, vinyl, veneer, HPL, and metal.

Flexboard is calibrated for uniform thickness throughout the manufacturing process. Consistent thickness results in excellent seam hiding qualities without filling or sanding.

Flexboard's seaming abilities allow for easy splicing in both the vertical and horizontal direction. Its substrate allows for repeatable symmetrical bending.

Flexboard's stable hardboard face allows the attachment of face veneer materials, by use of hot or cold press, and then bending into the desired shape.

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FLEXBOARD SPECIFICATIONS

PRODUCT DESCRIPTIONS

Flexboard is a flexible product designed for use in numerous kinds of radius projects. It consists of a core of kerfed particleboard with a .080 thick hardboard face.

PRODUCT CHARACTERISTICS

Flexboard is a flexible product that can be easily bent and attached to a ribbed frame by the use of nails or staples. **Flexboard** requires two or three horizontal ribs as this equalizes the bending stresses and will produce a smooth finish surface. Normal application involves the forming of **Flexboard** to a rigid structure and then the attachment of a face grade veneer, HPL, metal or other decorative face material by the use of contact adhesive. Thin face materials may allow for flat lamination prior to bending.

Flexboard with standard particleboard core is available in nominal 4'x8', 4'x10', 8'x4' and 10'x4' sizes. Other core materials may also allow for 10' size.

CORE OPTIONS

Flexboard comes standard with a high quality particleboard core. Other core materials are available as required. These include fiberboard, luan plywood, FR particleboard and other core materials.

BENDING CAPABILITIES

The recommended bending radius obtainable using **Flexboard** is 10 inches. **Flexboard** does allow for the flat lamination of a single ply veneer with hot or cold press. After flat lamination a radius of 16 inches should be obtainable. While a smaller radius may be obtainable, it is best to do a test before proceeding.

FLEXBOARD CLASSIFICATION AND DIMENSIONS

Item #	Core Material	Panel Size	Nominal Thickness	Actual Thickness	Wt./SF
FB50PB	Particleboard	48"x96"	1/2"	0.475	2.2lbs.
FB50PB/10	Particleboard	48"x120"	1/2"	0.475	2.2lbs.
FB50PBX	Particleboard	96"x48"	1/2"	0.475	2.2lbs.
FB50PBX/10	Particleboard	120"x48"	1/2"	0.475	2.2lbs.
FB62PB	Particleboard	48"x96"	5/8"	0.60	2.2lbs.
FB62PB/10	Particleboard	48"x120"	5/8"	0.60	2.2lbs.
FB62PBX	Particleboard	96"x48"	5/8"	0.60	2.2lbs.
FB62PBX/10	Particleboard	120"x48"	5/8"	0.60	2.2lbs.
FB75PB	Particleboard	48"x96"	3/4"	0.725	2.4lbs.
FB75PBX	Particleboard	96"x48"	3/4"	0.725	2.4lbs.
FB75PB/10	Particleboard	48"x120"	3/4"	0.725	2.4lbs.
FB75PBX/10	Particleboard	120"x48"	3/4"	0.725	2.4lbs.
FB50LP	Luan Plywood	48"x96"	1/2"	0.49	1.3lbs.
FB50LPX	Luan Plywood	96"x48"	1/2"	0.49	1.3lbs.
FB62LP	Luan Plywood	48"x96"	5/8"	0.57	1.6lbs.
FB62LPX	Luan Plywood	96"x48"	5/8"	0.57	1.6lbs.
FB75LP	Luan Plywood	48"x96"	3/4"	0.69	1.9lbs.
FB75LPX	Luan Plywood	96"x48"	3/4"	0.69	1.9lbs.

Note: Product identified as 48" x 96" will bend like a column, 96" x 48" will bend like a barrel

ADHESIVES

Any contact cement recommended for use with decorative laminates should he acceptable. Use of PVA glue is also acceptable for attaching face material provided they can be used after the **Flexboard** 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.

The kerfed core material can be formed and held in position with the use of most any adhesive and staples when necessary. The use of horizontal ribs for attachment is preferred, as this will provide the best support to allow the material to achieve the smoothest radius possible.

TEMPERATURE CONDITIONING

Flexboard should be acclimated the same as the face materials that will be applied to it. If available, use the guidelines recommended by the face material manufacturer.

LAMINATING PRESSURE

When using contact adhesive, light to moderate pressure is adequate. Firm hand pressure or moderate pressure with a J-roller works well. When using a PVA glue, make sure the glue is transferred to both materials and that adequate uniform pressure can be applied for the required amount of time.

Because of the stable hardboard face on **Flexboard**, it is possible to laminate a single ply veneer or a paperback veneer directly to the hardboard by use of a cold press or hot press prior to forming. This should be applied with a pressure of 100 psi. using the glue mfg. recommendations as far as time and temperature requirements. When using this process, the resulting bending radius is approx. 16". It is always best to first perform a test on the process you plan to use prior to starting your project.

HANDLING

Care should be taken in handling all materials. The size and weight will usually require two people. When moving either material, be careful to pick up in such a manner as to not pinch fingers between the ribs. Try to not over flex the material or bend it past the recommended radius when handling.

STORAGE

All products should be stored flat with the face material side facing up. Keep in a dry area and away from direct contact with the floor to allow for air circulation.

For more information, questions, or assistance, please contact us:

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