

# Timberflex

A bendable substrate material that can be formed first and laminated last

**Timberflex** is ideal for custom fabrication because it is the first and only high-quality 3/4" bendable panel that has a three-ply Italian poplar face ready to paint or laminate without the need for patching or sanding.

**Timberflex** panels can bend to a 5" radius and are perfectly flat without dips, valleys and hard spots often found in bendable plywood.

**Timberflex** is dimensionally sized to have the same thickness throughout to assure excellent seam hiding characteristics.

**Timberflex** performs extremely well in traditional custom fabrication by forming the panel to the desired shape and then painting or laminating with the desired face material. This simple method allows **Timberflex** to conform to your custom shape by the use of horizontal shaping ribs. It was designed so that even a beginner can easily make curved components.

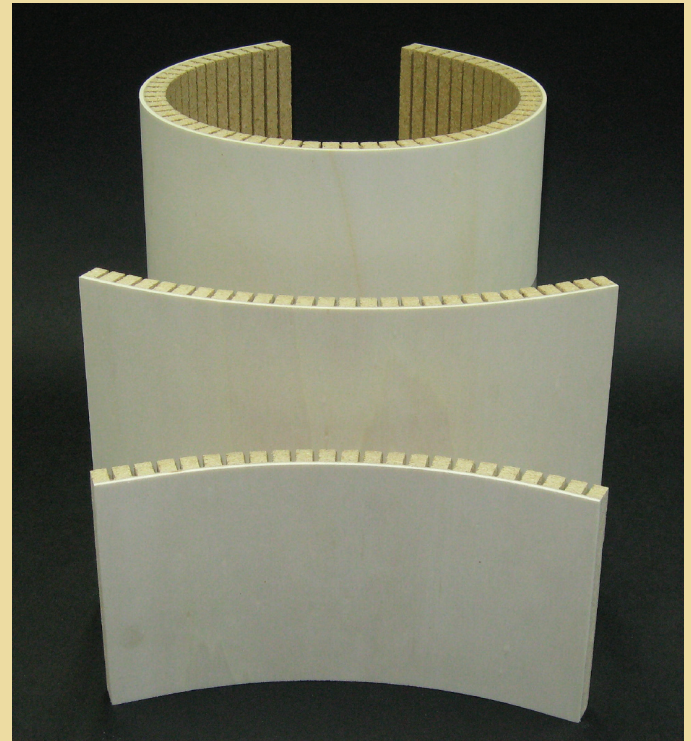


Photo courtesy of M. Bolhke Veneer

**Timberflex** is produced from engineered wood products and will provide a dimensionally stable panel that is consistent in performance and uniformity. It provides the fabricator with the knowledge of knowing how the product will perform time after time.

**Timberflex** provides a higher quality end product and offers a multitude of advantages over conventional bending methods including less labor, no veneer checking or telegraphing, elimination of sanding, patching and laying up multiple layers of plywood. Additional benefits include never "springing back" and always "hanging true". The face of the product accepts contact adhesive and allows users to create interior and exterior radiuses with almost no waste.

**Timberflex** is available in 4'x8' and 8'x4' panel sizes and comes in 1/2", 5/8" and 3/4" thicknesses.

# TIMBERFLEX SPECIFICATIONS

## PRODUCT DESCRIPTION

**Timberflex** is a flexible product designed for use in numerous kinds of radius projects. It consists of a core of kerfed particleboard with an 1/8" thick 3-ply poplar plywood face.

## PRODUCT CHARACTERISTICS

**Timberflex** is designed to be bent first and then apply a face material. It is a very flexible product that can be easily bent and attached to a ribbed frame by the use of nails or staples.

**Timberflex** performs the best with two or three horizontal ribs as this equalizes the bending stresses and will produce a smooth finished surface. After the product is formed, numerous face products such as HPL, veneer, metal or plastics can then be laminated to the smooth and uniform surface by use of a contact adhesive.

**Timberflex** can also be used to make freestanding curved parts such as doors by simply gluing a backing sheet to the rib side of the product while it is bent into the desired curve. The use of a PVA glue to attach this backing sheet is recommended since it will provide a rigid glue bond. A vacuum forming process is very desirable as this will give an extremely uniform finished part with repeatability.

**Timberflex** is available in nominal 4'x8' (column) and 8'x4' (barrel) sizes.

## CORE OPTIONS

**Timberflex** comes standard with a high quality particleboard core. Other core materials are available as required. These options include fiberboard, luan plywood, poplar plywood, FR particleboard, NAF green particleboard and other different core materials.

## BENDING CAPABILITIES

The recommended bending radius obtainable using **Timberflex** is 5 inches. While a smaller radius may be obtainable, it is always best to do a test before proceeding.

## HANDLING

Care should be taken in handling all materials. The size and weight will usually require two people. When moving material, be careful to pick up in such a manner as to not pinch fingers between the ribs. Try not to 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.

## ADHESIVES

All face materials should be applied **after** the **Timberflex** has been formed into the final shape. Any contact cement recommended for use with decorative laminates or veneer should be acceptable. Use of PVA glue is also acceptable for

attaching face material provided it can be used after the **Timberflex** has been formed and adequate pressure applied. The **Timberflex** 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. When forming a free standing part, a rigid glue such as PVA is recommended over a contact adhesive.

Complete technical and fabrication information can be found on our web site [www.kerfkore.com](http://www.kerfkore.com).

## LAMINATING PRESSURE

When applying a face material to **Timberflex** with 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. As with any product, it is best to do a test on a small sample to determine how the materials will work together.

## TEMPERATURE CONDITIONING

**Timberflex** should be acclimated the same as the face material that will be applied to it. Two to three days are recommended for conditioning. You should also review the guidelines recommended by the face material manufacturer relating to conditioning to ensure they are satisfied.

## TIMBERFLEX CLASSIFICATION AND DIMENSIONS

Item #	Core Material	Panel Size	Nominal	Actual	Wt./SF
			Thickness	Thickness	
TF50PB	Particleboard	48"x96"	1/2"	0.52	1.6lbs.
TF50PBX	Particleboard	96"x48"	1/2"	0.52	1.6lbs.
TF62PB	Particleboard	48"x96"	5/8"	0.64	2.0lbs.
TF62PBX	Particleboard	96"x48"	5/8"	0.64	2.0lbs.
TF75PB	Particleboard	48"x96"	3/4"	0.77	2.4lbs.
TF75PBX	Particleboard	96"x48"	3/4"	0.77	2.4lbs.
TF50LP	Luan Plywood	48"x96"	1/2"	0.50	1.3lbs.
TF50LPX	Luan Plywood	96"x48"	1/2"	0.50	1.3lbs.
TF62LP	Luan Plywood	48"x96"	5/8"	0.62	1.6lbs.
TF62LPX	Luan Plywood	96"x48"	5/8"	0.62	1.6lbs.
TF75LP	Luan Plywood	48"x96"	3/4"	0.73	1.9lbs.
TF75LPX	Luan Plywood	96"x48"	3/4"	0.73	1.9lbs.
TF50PP	Poplar Plywood	48"x96"	1/2"	0.50	1.1lbs.
TF50PPX	Poplar Plywood	96"x48"	1/2"	0.50	1.1lbs.
TF62PP	Poplar Plywood	48"x96"	5/8"	0.62	1.3lbs.
TF62PPX	Poplar Plywood	96"x48"	5/8"	0.62	1.3lbs.
TF75PP	Poplar Plywood	48"x96"	3/4"	0.73	1.4lbs.
TF75PPX	Poplar Plywood	96"x48"	3/4"	0.73	1.4lbs.

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