Richelieu

Product Guide Specification

SECTION 06400 (06 40 00)

ARCHITECTURAL WOODWORK

Specifier Notes: This section covers the following Kerfkore Bendable substrate materials:

1. Kerfkore (single sided, double sided)
2. Kerfkore Green (single sided, double sided)
3. Flexboard
4. Flexboard Green
5. Timberflex
6. Econokore

Consult Kerfkore for assistance in editing this section for the specific application.

PART 1   GENERAL

1.1   SECTION INCLUDES

  A.   Bendable Products:

1. Kerfkore – substrate that enables lamination first with HPL, metal, veneer and other semi rigid materials and then bending down to 3-1/2". Available with a semi rigid back side to keep the material stiff until the kerf is removed.
2. Kerfkore Green – NAF core (100% recovered and recycled). Substrate that enables lamination first with HPL, metal, veneer and other semi rigid materials and then bending down to 3-1/2".
3. Flexboard – substrate that has a uniform and stable overlay that allows for traditional face lamination after forming with a radius of 10". If laminated flat before bending, a 16" radius can be achieved.
4. Flexgreen - NAF core (100% recovered and recycled). Substrate that has a uniform and stable overlay that allows for traditional face lamination after forming with a radius of 10". If laminated flat before bending, a 16" radius can be achieved.
5. Timberflex – superior substrate product that utilizes an Italian poplar face ready to be formed first then laminated traditionally. Radius to 5".

1.2   RELATED SECTIONS

A.   Section 06220 (06 22 00) – Millwork (Millwork).

B.   Section 06250 (06 25 00) – Prefinished Paneling.

C.   Section 06260 (06 26 00) – Board Paneling.

D.   Section 06410 (06 41 00) – Custom Cabinets (Architectural Wood Casework).

E.   Section 06415 (12 36 23.13) – Countertops (Plastic-Laminate-Clad Countertops).

F.   Section 06420 (06 42 00) – Paneling (Wood Paneling).

G.   Section 06430 (06 43 13) – Wood Stairs (Wood Stairs).

H.   Section 06440 (06 44 00) – Wood Ornaments (Ornamental Woodwork).

I.   Section 09740 (09 74 00) – Flexible Wood Sheets.

J.   Section 09770 (09 77 00) – Special Wall Surfaces (Special Wall Surfacing)

K.	Section 10440 (10 14 00) – Interior Signage (Signage).

L.	Section 12300 (12 30 00) – Manufactured Casework (Casework).

M.	Section 12500 (12 50 00) – Furniture (Furniture).

N.	Section 12700 (12 59 00) – Systems Furniture.

## 1.3	REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

A.	ANSI A208.1 – Particleboard, Mat-Formed Wood.

B.	ANSI A208.2 – Medium Density Fiberboard for Interior Use.

C.	ASTM D 1037 – Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.

D.	ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.

## 1.4	SUBMITTALS

A.	Comply with Section 01330 (01 33 00) – Submittal Procedures.

B.	Product Data: Submit manufacturer's product data.

Specifier Notes: Delete samples if not required.

C.	Samples: Submit manufacturer's samples, minimum 2 inches by 7 inches.

D.	Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.

E.	Material Certifications: Submit material certifications.

F.	Warranty: Submit manufacturer's standard warranty.

## 1.5	QUALITY ASSURANCE

A.	Manufacturer's Qualifications: Manufacturer regularly engaged, for preceding 20 years, in manufacture of bendable architectural woodwork materials of similar type to that specified.

## 1.6	DELIVERY, STORAGE, AND HANDLING

A.	Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage:
 1. Store materials in clean, dry area indoors in and away from direct contact with the floor to allow for air circulation.
 2. Store materials on flat, level surface with adequate support to prevent sagging.

C. Conditioning: Condition materials to final environment for 48 to 72 hours before installation and finishing.

D. Handling: Protect materials during handling and installation to prevent damage.

PART 2   PRODUCTS

2.1   MANUFACTURER

A. Kerfkore Company, 2630 Sidney Lanier Dr., Brunswick, GA., 31525. Phone (800)–637-3539, Fax (912)-262-9763. Email: info@kerfkore.com. Website: www.kerfkore.com.

2.2   Products

A. Kerfkore Single Sided
 1. Material:

Specifier Notes: Specify Core Type.

   a. Core: [Standard Particle Board], [Particle Board Fire Rated], [Fiber Board], [Fiber Board Fire Rated], [Luan Plywood], [Poplar Plywood].
   b. Face: Flexible Latex Impregnated Paper

Specifier Notes: FSC-Certified wood is an option. Delete if not required. Consult Kerfkore for more information.

   c. FSC Certified.

Specifier Notes: Specify panel thickness.

 2. Panel Thickness:
   a. Particle Board: [1/2 inch], [5/8 inch], [3/4 inch]
   b. Fiber Board: [1/4 inch], [1/2 inch], 5/8 inch], [3/4 inch]
   c. Luan Plywood: [1/2 inch] [5/8 inch] [3/4 inch]
   d. Poplar Plywood: [1/2 inch] [5/8 inch] [3/4 inch]
   e. Thickness Tolerance: Plus or minus 0.02 inch, average from nominal or deviation from average.
 3. Panel Size:
   a. Particle Board: 49 inches x 97 inches
   b. Fiber Board: 48 inches x 96 inches
   c. Luan Plywood: 48 inches x 96 inches
   d. Poplar Plywood: 48 inches x 96 inches

4. Physical Properties:
   a. Flame Spread Rating, ASTM E 84: Standard Class C (3). Fire Rated Class A (1)
   b. Moisture Content: 4 to 6 percent average, oven-dry basis.
   c. Radius bendable to 3.5 inches

B. Kerfkore Two Sided.
   1. Material:

<table>
<tr><td>Specifier Notes: Specify Core Type.</td></tr>
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   a. Core: [Standard Particle Board], [Particle Board Fire Rated], [Fiber Board], [Fiber Board Fire Rated], [Luan Plywood], [Poplar Plywood].
   b. Top Face: Flexible Latex Impregnated Paper

<table>
<tr><td>Specifier Notes: FSC-Certified wood is an option. Delete if not required. Consult Kerfkore for more information.</td></tr>
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   c. FSC Certified.
   d. Back Face: Semi Rigid Phenoilc Impregnated Paper Sheet

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<tr><td>Specifier Notes: Specify panel thickness.</td></tr>
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   2. Panel Thickness:
      a. Particle Board: [1/2 inch] [5/8 inch] [3/4 inch]
      b. Fiber Board: [1/4 inch], [1/2 inch], 5/8 inch], [3/4 inch]
      c. Luan Plywood: [1/2 inch] [5/8 inch] [3/4 inch]
      d. Poplar Plywood: [1/2 inch] [5/8 inch] [3/4 inch]
      e. Thickness Tolerance: Plus or minus 0.02 inch, average from nominal or deviation from average.
   3. Panel Size:
      a. Particle Board: 49 inches x 97 inches
      b. Fiber Board: 48 inches x 96 inches
      c. Luan Plywood: 48 inches x 96 inches
      d. Poplar Plywood: 48 inches x 96 inches

   4. Physical Properties:
      a. Flame Spread Rating, ASTM E 84: Standard Class C (3). Fire Rated Class A (1)
      b. Moisture Content: 4 to 6 percent average, oven-dry basis
      c. Once backing sheet is removed, radius to 3.5 radius.

C. Kerfkore Green Single Sided.

   1. Material:

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      a.   Core: [No Added Formaldehyde Particleboard (100 percent post-industrial recycled wood fiber)], [No Added Formaldehyde Particleboard Fire Rated]

      b.   Top Face: Flexible Latex Impregnated Paper.

      c.   FSC Certified.

2.   Panel Thickness:
      a.   NAF Particleboard: [1/2 inch] [5/8 inch] [3/4 inch]
      b.   NAF Particle Board Fire Rated: [1/2 inch], [5/8 inch], [3/4 inch]
      c.   Thickness Tolerance: Plus or minus 0.02 inch, average from nominal or deviation from average.

3.   Panel Size:
      a.   NAF Particle Board: 49 inches x 97 inches
      b.   NAF Particle Board Fire Rated: 49 inches x 97 inches

4.   Physical Properties:
      a.   Flame Spread Rating, ASTM E 84: Standard Class C (3). Fire Rated Class A (1)
      b.   Moisture Content: 4 to 6 percent average, oven-dry basis
      c. .   Radius bendable to 3.5 inches

D.   Flexboard

1.   Material:

      a.   Core: [Standard Particle Board], [Particle Board Fire Rated], [Standard Fiber Board], [Fiberboard Fire Rated], [[Luan Plywood], [Poplar Plywood].

      b.   FSC Certified
      c.   Top Face: .080 Inch Semi Rigid Eucalyptus Hardboard

2.   Panel Thickness:

  a. Particle Board: [1/2 inch] [5/8 inch] [3/4 inch]
  b. Fiber Board: [1/2 inch], 5/8 inch], [3/4 inch]
  c. Luan Plywood: [1/2 inch] [5/8 inch] [3/4 inch]
  d. Poplar Plywood: [1/2 inch] [5/8 inch] [3/4 inch]
  e. Thickness Tolerance: Plus or minus 0.02 inch, average from nominal or deviation from average.

Specifier Notes: Specify panel size.

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3. Panel Sizes:
  a. Standard Particle Board: 48 inches x 96 inches, 96 inches x 48 inches, 48 inches x 120 inches (3/4 inch only), 120 inches x 48 inches (3/4 inch only)
  b. Particle Board Fire Rated: 49 inches x 97 inches
  c. Fiber Board: 48 inches x 96 inches, 96 inches x 48 inches
  d. Luan Plywood: 48 inches x 96 inches, 96 inches x 48 inches
  e. Poplar Plywood: 48 inches x 96 inches, 96 inches x 48 inches

4. Physical Properties:
  a. Flame Spread Rating, ASTM E 84: Standard Class C (3). Fire Rated Class A (1)
  b. Moisture Content: 4 to 6 percent average, oven-dry basis
  c. . Radius bendable to 10 inches

E. Flexboard Green

1. Material:
  a. Core: [No Added Formaldehyde Particleboard (100 percent post-industrial recycled wood fiber)], [No Added Formaldehyde Particleboard Fire Rated]

Specifier Notes: FSC-Certified wood is an option. Delete if not required. Consult Kerfkore for more information.

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  b. FSC Certified
  c. Top Face: .080 Inch Semi Rigid Eucalyptus Hardboard

Specifier Notes: Specify panel thickness.

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2. Panel Thickness:
  a. Particle Board: 3/4 inch
  b. Particle Board Fire Rated: 3/4 inch
  c. Thickness Tolerance: Plus or minus 0.02 inch, average from nominal or deviation from average.

Specifier Notes: Specify panel size.

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4. Panel Sizes:

      a.   Particle Board: 48 inches x 96 inches, 96 inches x 48 inches, 48 inches x 120 inches, 120 inches x 48 inches

      b.   Particle Board Fire Rated: 48 inches x 96 inches, 96 inches x 48 inches, 48 inches x 120 inches, 120 inches x 48 inches

5.   Physical Properties:
      a.   Flame Spread Rating, ASTM E 84: Standard Class C (3). Fire Rated Class A (1)
      b.   Moisture Content: 4 to 6 percent average, oven-dry basis
      c.   Radius bendable to 10 inches

F.   Timberflex

   1.   Material:
      a.   Core: [Standard Particle Board], [Particle Board Fire Rated], [Fiber Board], [[Luan Plywood], [Poplar Plywood]

Specifier Notes: FSC-Certified wood is an option. Delete if not required. Consult Kerfkore for more information.

      b.   FSC Certified
      c.   Top Face: .125 Inch 3 ply Italian Poplar Plywood

Specifier Notes: Specify panel thickness.

   2.   Panel Thickness:
      a.   Particle Board: [1/2 inch] [5/8 inch] [3/4 inch]
      b.   Fiber Board: [1/2 inch], 5/8 inch], [3/4 inch]
      c.   Luan Plywood: [1/2 inch] [5/8 inch] [3/4 inch]
      d.   Poplar Plywood: [1/2 inch] [5/8 inch] [3/4 inch]
      e.   Thickness Tolerance: Plus or minus 0.02 inch, average from nominal or deviation from average.

Specifier Notes: Specify panel size.

   5.   Panel Sizes:
      a.   Particle Board: 48 inches x 96 inches, 96 inches x 48 inches
      b.   Fiber Board: 48 inches x 96 inches, 96 inches x 48 inches
      c.   Luan Plywood: 48 inches x 96 inches, 96 inches x 48 inches
      d.   Poplar Plywood: 48 inches x 96 inches, 96 inches x 48 inches

   4.   Physical Properties:
      a.   Flame Spread Rating, ASTM E 84: Standard Class C (3). Fire Rated Class A (1)
      b.   Moisture Content: 4 to 6 percent average, oven-dry basis
      c. .   Radius bendable to 5 inches

G.   Econokore

   1.   Material:

a. Core: [Standard Fiber Board], [Fiber Board Fire Rated]

Specifier Notes: Specify top face.

b. Top Face: [.0625 inch high density overlay], [.125 Inch 3 ply Italian Poplar Plywood],

Specifier Notes: Specify panel thickness.

2. Panel Thickness:
   a. Fiber Board: [1/4 inch], [3/8 inch]
   b. Thickness Tolerance: Plus or minus 0.02 inch, average from nominal or deviation from average.

Specifier Notes: Specify panel size.

6. Panel Size:
   a. Fiber Board: 48 inches x 96, 96 inches x 48 inches

4. Physical Properties:
   a. Flame Spread Rating, ASTM E 84: Standard Class C (3). Fire Rated Class A (1)
   b. Moisture Content: 4 to 6 percent average, oven-dry basis
   c. . Radius bendable to 5 inches

PART 3 EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

A. Compliance: Comply with manufacturer's product data, including product technical information, product catalog installation instructions and product carton instructions for installation.

3.02 PREPARATION

A. Surface Preparation: [Specify applicable product preparation requirements].
B. Comply with manufacturer's instruction on tools and methods to use for cutting and drilling panels.

Specifier Notes: Coordinate Article below with manufacturer's recommended installation details and requirements.

3.03 INSTALLATION

A.   Install in accordance with manufacturer's instructions.

B.   Finish materials on all ends and sides and ends. Factory finishing is an option.

3.04 PROTECTION

A. Protection: Protect installed product and finish surfaces from damage during construction.

END OF SECTION

Specifier Notes: Prepare PART 3 – EXECUTION of this guide specification for the specific application of the specified Kerfkore architectural woodwork materials. Include text as required to properly specify the installation of the specific application incorporating the Kerfkore bendable panels.

END OF SECTION