

# DuraGrain™ - Fiber Series

## Technical Data

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### Manufacturing Contact

Deco Technologies Inc.  
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### General Product Description

#### Recommended Uses

DuraGrain™- Fiber Series is a veneered flexible surface cladding material ideally suited for use in furniture, wainscoting, store fixtures, casework, columns, cladding, interior architectural applications, displays, signage, interior doors, wall systems, etc.

#### Product Composition

Multi-layer, Olefin based (NON- PVC) scratch resistant printed artwork, is bonded to a patented highly flexible polymer impregnated Kraft liner board using a proprietary bonding process. DuraGrain™ - Fiber Series has no added formaldehyde.

#### Basic Limitations

DuraGrain™- Fiber Series is for interior use, non-structural applications. DuraGrain™ Fiber Series is not intended to be used as a structural component or in applications involving high abrasion such as kitchen countertops and flooring. DuraGrain™ - Fiber Series must be bonded to a suitable substrate.

DuraGrain™ - Fiber Series should not be subjected to extremes in humidity, temperatures higher than 160°F (71°C) for substantial periods of time, or direct sunlight.

#### Finishes

DuraGrain™ Series are available in 2 standard finishes.

Wood Finishes – 2 standard wood grain finishes (see sample fandeck)

#### Custom Finish Availability

Nineteen (19) custom finishes are available. Due to the nature of the printing process, custom DuraGrain™ Finishes - Fiber Series are subject to minimum order quantities. Please contact your local INGRAIN™ distributor or [decotechnologiesinc.com](http://decotechnologiesinc.com) for additional information.

#### Standard Sizes

Sheets	Rolls
49" x 97" Sheets	49" x 50' Roll*
49" x 121" Sheets	* larger rolls available

**Typical Properties of Surface**

Test	Standard	DuraGrain™ -Fiber Series
<b>Abrasion Test 1</b>	JAS Special Plywood Abrasion A-test	<b>More Than 100 - Abrasion Loss Less Than 0.1 grams.</b>
<b>Anti-Scratch 1</b>	Pencil Hardness JIS-K5400 (500 grams of weight)	<b>B – 2B</b>
<b>Anti-Scratch 2</b>	Hoffman Scratch Test (WT)	<b>200 – 300 grams No Appreciable Change</b>
<b>Steel Wool</b>	Steel Wool (# 0000, 1.5kg of WT)	<b>No Appreciable Change</b>
<b>Color Fastness</b>	Xenon-meter	<b>No Appreciable Change 300hrs</b>
<b>Heat Stability</b>	NEMA 11-14-95	<b>No Appreciable Change</b>
<b>Chemical Resistance</b>	NEMA 11-14-95	<b>No Appreciable Change</b>
<b>Benzene</b> <b>Ethanol</b> <b>n-Hexane</b> <b>HCl – 10%</b> <b>NaOH – 10%</b> <b>H<sub>2</sub>SO<sub>4</sub> – 10%</b> <b>Ca(OH)<sub>2</sub> - Saturated</b>		
<b>Solvent Resistance</b>	NEMA 11-14-95	<b>Some Change</b>
<b>Toluene</b> <b>MEK</b> <b>Ethyl Acetate</b> <b>Acetone</b>		
<b>Abrasion Resistance</b>	ASTM-D1044	<b>5000 cycles minimum</b>
<b>Impact Resistance</b>	8 oz Steel Ball Dropped 2”	<b>No Appreciable Change</b>
<b>Stain Resistance</b>	EN 438/2.15 NEMA LD3.4	<b>No Appreciable Change</b>
<b>Distilled Water</b> <b>Orange Peel</b> <b>Lemon Peel</b> <b>Mineral Oil</b> <b>Cloudy Ammonia</b> <b>Chlorox (disinfecting &amp;</b> <b>Cleaning)</b> <b>Milk</b> <b>Cola</b> <b>Coffee</b> <b>Tea</b> <b>Ketchup</b> <b>Prepared Mustard</b> <b>Bacon Grease</b> <b>Hamburger Grease</b>		

**Typical Properties of Substrate**

FEATURES	DuraGrain™ Fiber Series	Typical Vertical Grade HPL
<b>Nominal Thickness</b> (inches)	0.024”-.030”	.024”-.031”
<b>Density</b> (lbs/cu ft)	65-69	75
<b>Dimensional Stability</b> % Water absorption in 50-90% relative humidity	7%	3%
<b>Water Absorption</b> % Weight gained w/2-hour soak	30%	16%
<b>Volatile Content (%)</b>	0	unknown

**Codes and Certifications**

**General Standards**

DuraGrain™ - Fiber Series conforms to the voluntary standards of the American National Standards Institute and/or National Electrical Manufacturers Association, for dimensional tolerance, performance, and surface appearance specifications.

**Installation Fabrication and Assembly Recommendations**

Assembled pieces should meet the specifications of “Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program” of the Architectural Woodwork Institute where applicable.

DuraGrain™ - Fiber Series must be bonded to a substrate for proper installation. Use of high quality substrates such as particleboard, medium density Fiber Series (MDF), high-density Fiber Series (HDF), fiber reinforced gypsum board (FRG), straw/wheat stalk board, or “A” sided plywood will provide the best results. DuraGrain™- Fiber Series can be applied to plaster, high-pressure laminate, and concrete substrates, provided that all cracks or porous areas are filled with the appropriate filler to provide a smooth bonding surface, and an adhesive compatible with the substrate is used. DuraGrain™ - Fiber Series may not be used as structural members or components.

Bond with adhesives and follow the techniques recommended by the adhesive manufacturer. Recommended adhesives are permanent types, such as urea and polyvinyl acetate (PVA). Spray contact adhesives such as 3M Super 90®, and Sta-Put® brands also work well provided an even edge-to-edge coat is applied to both surfaces. Glue overspray can be removed by using non-acetone containing solvents.

DuraGrain™ - Fiber Series should not be subjected to extremes in humidity, temperatures higher than 160°F (71°C) for substantial periods of time.

Screws should be slightly countersunk into the face side of a veneer-clad substrate. Allow 1/16” per side for panel expansion in framed panel applications.



Take care to ensure an appropriate acclimation between the veneer and the substrate prior to fabrication. The face and backing veneers and the substrate should be conditioned in the same environment for 48 hours before fabrication.

Recommended conditioning temperature is 75°F (24°C). Veneers should be conditioned at 45% to 55% relative humidity.

When routing or sawing, use of carbide-tipped saw and router blades is advisable. High tool speed and low feed speed will produce the best results. To prevent tearing of the INGRAIN™ surface or the substrate layer, use clamps or other hold-down devices when sawing, routing, or drilling.

### **Warranty**

Manufacturer warrants that, DuraGrain™ - Fiber Series under normal use, will conform to the standards set forth on the DuraGrain™ - Fiber Series technical data sheets for a period of twelve (12) months from the date of sale to the first consumer purchaser. In the event that this product does not perform as warranted, the first purchaser's sole remedy shall be limited to repair or replacement of all or any part of the product that is defective, at the manufacturer's sole discretion.

This warranty applies only to product in its original installed form from the first consumer buyer. This warranty is not transferable, and expires upon resale or transfer by the first consumer purchaser. This warranty shall not apply to defects or damage arising for any of the following caused by accidents, abuse, improper installation or fabrication, misuse, or failure to properly prepare the bonding surface.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE MADE. UNDER NO CIRCUMSTANCES SHALL QUALITY EDGE INC. BE LIABLE FOR ANY LOSS OR DAMAGE ARISING FROM THE PURCHASE, USE OR INABILITY TO USE THIS PRODUCT, OR FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES. NO FABRICATOR, INSTALLER, DEALER AGENT OR EMPLOYEE OF MANUFACTURER HAS THE AUTHORITY TO MODIFY THE OBLIGATIONS OR LIMITATIONS OF THIS WARRANTY.

This warranty gives you specific legal rights, and you also may have other rights that vary from state to state; therefore, some of the limitations stated above may not apply to you. It is to your benefit to save your documentation upon purchase of a product.

### **Care and Maintenance**

The decorative surface may be cleaned with warm water and mild detergents or dishwashing soaps. Do not use cleansers that contain abrasives, they will scratch or damage the decorative surface. Household cleaners such as Fantastik®, 409®, and other like products may be used on stubborn

stains. Always test any new cleaner in an inconspicuous spot to ensure no degradation of the surface will occur.

Do **not** allow any of the following chemicals to **remain** in prolonged contact with the decorative surface:

- Acetone
- Bleach (except for disinfecting)
- Greater than 10% solutions of, hydrochloric, sulfuric, or nitric acid
- Caustic solutions containing lye (drain cleaners commonly use lye)
- Sodium bisulfate
- Potassium permanganate



Juice from staining berries  
Violet (genetian)  
Bluing  
Fabric dye  
Alcohol containing iodine  
Hydrogen peroxide solutions

### **Repair and Finishing**

DuraGrain™ - Fiber Series can be finished with many urethane-based topcoats for higher gloss and shine. Finishing steps must be in accordance with the manufacturer's application instructions and performed when the veneer is in its final bonded position. Cracking, crazing, or complete delamination of the topcoat will occur if applied to the veneer sheet prior to bonding or forming. Always test any topcoat bond and finish on a sample to ensure topcoat meets desired finish quality.

Repair of scratches and gouges can be done through the use of high quality furniture repair kits. Follow repair kit instructions. Avoid repair kits that use an iron in direct contact with the veneer surface as this may increase the gloss level of the finish in that area. Please note that this method will not provide a complete repair if damage is extensive. In such cases, see your local INGRAIN™ distributor or [decotechnologiesinc.com](http://decotechnologiesinc.com) for a replacement sheet or roll.

### **Technical Questions**

For technical assistance with any of the following technical specifications, please contact us at (616)-719-5104, Monday through Friday, 8 a.m. – 5 p.m. EST