



# Decotone Surfaces

SPECIFICATION INFORMATION

*Decotone Chopped Cans Translucent Panels*

January 2016

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## **Decotone Chopped Cans Translucent Panels Design by Fabrice Covelli**

### **PRODUCT IDENTIFICATION:**

DECOTONE CHOPPED CAN PANELS SUSPENDED IN A BLEND OF CLEAR ACRYLIC AND POLYESTER RESIN

### **MANUFACTURING AND MARKETING:**

DECOTONE CHOPPED CAN PANELS DISTRIBUTED AND MARKETED BY

### **DECOTONE SURFACES**

520 SOUTH AVE.

GARWOOD, NJ 07004

Phone: (908) 301-0600

Fax: (908) 301-0601

### **STANDARD AVAILABLE PANEL THICKNESS (see also next page)**

THICKNESS

7/8" thick

### **STANDARD AVAILABLE PANEL SIZES**

LENGTH X WIDTH

4' x 8'



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NOTE: CUSTOM SIZE AND THICKNESS ARE AVAILABLE IN PANELS OR CUT TO YOUR SPECIFICATIONS ON OUR CNC

## APPROXIMATE WEIGHT

THICKNESS (IN INCHES)	WEIGHT (LB/SF)	GLASS COMPARISON (LB/SF)
1/4" / 0.236 INCH	1.5 LB/SF	3.3 LB/SF
3/8" / 0.354 INCH	2.25 LB/SF	4.9 LB/SF
1/2" / 0.472 INCH	3 LB/SF	6.4 LB/SF
3/4" / 0.708 INCH	4.5 LB/SF	9.6 LB/SF
1" / 0.944 INCH	6 LB/SF	12.8 LB/SF

## APPROXIMATE IMPACT

MATERIAL	THICKNESS (IN INCHES)	STEEL BALL DROP (LB)
DECOTONE TRANS. PANEL	1/4" / 0.236 INCH	5.0 LB
WINDOW GLASS	1/8" / 0.125 INCH	0.25 LB
PLATE GLASS	1/4" / 0.25 INCH	0.25 LB

NOTE: **DECOTONE CHOPPED CAN PANELS** MEETS ANSI Z 97.1 SAFETY GLAZING MATERIAL USED IN BUILDING STANDARDS

**DECOTONE CHOPPED CAN PANELS** ARE SUITABLE FOR USE IN CONSUMER PRODUCTS SAFETY COMMISSION, SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIAL UNDER 16 CFR 1201, CAT. I & II



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## PHYSICAL PROPERTIES

NOTE: BASED ON 1/4" / 0.236" DECOTONE CHOPPED CAN PANELS THICKNESS

SPECIFIC GRAVITY ASTM D-792	1.19
REFRACTIVE INDEX ASTM D-542	1.49
LIGHT TRANSMISSION ASTM D-1003	92%

## CONTRACTION AND EXPANSION

NOTE: DECOTONE CHOPPED CAN PANELS WILL EXPAND AND CONTRACT WITH CHANGES IN TEMPERATURE

THE COEFFICIENT OF THERMAL EXPANSION FOR DECOTONE CHOPPED CAN PANELS IS .00004

EQUATION: PANEL SIZE (IN) X CHANGE IN TEMPERATURE (°F) X COEFFICIENT (.00004) = MOVEMENT (IN)

EXAMPLE: 48" X 96" DECOTONE SURFACES CHOPPED CAN PANEL AT 32°F (96") X (32°F) X (.00004) = .123" (1/8")

## MECHANICAL SPECIFICATIONS

TENSILE STRENGTH ASTM D-638	10,000 PSI
MODULES OF ELASTICITY	400,000 - 450,000 PSI
COMPRESSION STRENGTH ASTM D-695	17,000 - 18,000 PSI
FLEXURAL STRENGTH ASTM D-790	16,000 - 17,000 PSI
ROCKWELL HARDNESS ASTM D-785	M90 - M94

MAXIMUM CONTINUOUS SERVICE TEMPERATURE 215°F

COEFFICIENT OF THERMAL EXPANSION  
ASTM D-696  $4 \times 10^{-5}$  IN/IN °F

COEFFICIENT OF THERMAL CONDUCTIVITY 1.3 BTU-IN/HR-FT SQ-°F



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## **FLAMMABILITY**

SMOKE DENSITY ASTM D-2843 4% - 10%

HORIZONTAL BURN (0.125") ASTM D-635 1.0 - 1.2 IN/MIN

SELF IGNITION TEMPERATURE ASTM D-1929 850°F - 910°F

## **DRILLING**

IF HOLES ARE TO BE DRILLED INTO **DECOTONE CHOPPED CAN PANELS** FOR BEST RESULTS USE DRILLS THAT ARE SPECIFICALLY DESIGNED FOR PLASTICS (60° - 90° TIP ANGLE).

## **FASTENING SYSTEM**

**DECOTONE CHOPPED CAN PANELS** CAN BE INSTALLED USING MECHANICAL FASTENERS, SUCH AS STANDOFFS OR BOLTS. WHEN INSTALLING HARDWARE, DO NOT OVER-TIGHTEN THE FASTENERS. NYLON OR RUBBER WASHERS OR GROMMETS MAY BE USED.

## **ROUTING OR CUTTING**

**DECOTONE CHOPPED CAN PANELS** CAN BE ROUTED BY USING PORTABLE ROUTERS. THIS METHOD CAN BE USED FOR CUTTING PANELS TO SIZE, TRIMMING PANELS, AND CUTTING OPENINGS AND HOLES. ROUTING IS THE BEST METHOD FOR TRIMMING THE EDGE OF A PANEL.



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## **MAINTENANCE AND CLEANING**

**DECOTONE CHOPPED CAN PANELS** CAN BE RESTORED TO ITS ORIGINAL FINISH BY USING A 3M GREEN PAD.

FOR DEEP SCRATCH REMOVAL, USE 320 GRIT AND 400 GRIT SAND PAPER FOLLOWED BY A 3M GREEN PAD TO ACHIEVE THE SAME SATIN FINISH.

EVERY DAY CLEANING CAN BE ACCOMPLISHED BY WASHING WITH WARM WATER AND A MILD SOAP OR DISHWASHING LIQUID.

CAUTION: DO NOT USE SOLVENTS SUCH AS ACETONE, LACQUER THINNER, GASOLINE, UNDILUTED ALCOHOL OR BENZENE ON **DECOTONE CHOPPED CAN PANELS** SURFACES OR PANELS

## **TABLE AND COUNTERTOP**

IT IS NOT RECOMMENDED THAT HOT COOKWARE OR PANS BE PLACED DIRECTLY ON THE SURFACE. ALWAYS USE A HOT PAD UNDER PANS AND COOKWARE THAT ARE TO BE PLACED DIRECTLY ON A **DECOTONE CHOPPED CAN PANELS**® TABLE OR COUNTER.

## **SUSTAINABILITY**

**DECOTONE CHOPPED CAN PANELS** CAN BE RECYCLED IF RETURNED TO US AFTER THE LIFE OF THE PROJECT HAS ENDED.

OTHER DESIGNS AND COLORS AVAILABLE

**DECOTONE TRANSLUCENT PANELS** CAN BE PRODUCED TO MORE THEN 3,500 + BENJAMIN MOORE COLORS.