

## PRODUCT

Comfort Designs with  
Compression-Molded Solid Surface

## MANUFACTURER

Comfort Designs, Savannah,  
Tennessee with manufacturing  
facilities in Centralia, Illinois.

## PRODUCT COMPOSITION

Comfort Designs Compression-  
Molded Solid Surface is a  
manufactured solid surface that is  
a polyester-based resin blend with  
glass particulate reinforcement. In  
the manufacturing process, Comfort  
Designs Compression-Molded Solid  
Surface transforms into a thermoset  
material that has extreme resistance  
to heat, impact, expansion, and  
chemicals.

## PRODUCT CATEGORY

Comfort Designs Compression-  
Molded Solid Surface is available  
in shower walls, shower bases,  
trench drain shower bases,  
shower accessories, trim kits, wall  
protection, vanity tops, sinks and  
countertops.

## COLORS

Comfort Designs Compression-  
Molded Solid Surface is available  
in a variety of solid and aggregate  
colors.

## WARRANTY

Shower walls and bases, shower  
accessories, wall cladding, trim kits,  
vanity tops and bowls, sinks and  
countertops are covered by a 30-  
year commercial limited warranty.  
Countertops carry a 10-year  
commercial limited warranty.

## APPLICATION

Any interior, horizontal and vertical  
surface application.

## LIMITATIONS

Comfort Designs Compression-  
Molded Solid Surface products  
are not recommended for exterior  
use. Material should not be used  
in areas exposed to sustained  
temperatures exceeding 450  
degrees F. Follow all recommended

installation procedures provided by  
manufacturer.

## FINISH

The surface is a matte finish equal  
to a 320 grit sandpaper (gloss  
reading of 25). A higher sheen can  
be produced by buffing the product  
with commercial rubbing compound.

## AVAILABILITY

Available nationwide through local  
stocking distributors. Contact  
Comfort Designs for your nearest  
distributor.

## INSTALLATION

Consult the specific product  
installation manual for step-by-step  
installation procedures. All manuals  
are available through our website at  
[comfortdesignsbathware.com](http://comfortdesignsbathware.com).

## MAINTENANCE

Clean regularly with common  
household liquid cleaners and rinse  
within five minutes of application.  
Occasional scrubbing with abrasive  
cleaners ensures that the original

luster will be maintained. For hard  
water stains, scale removers can be  
used. If necessary, abrasive cleaners  
can be used with a nylon brush  
or pad to remove build up on the  
shower floor surface. Do not use a  
metal-scouring pad or a wire brush,  
as it will damage the surface. Do not  
use "leave on" cleaning products,  
such as automatic spray shower  
cleaners. Do not use cleaning agents  
that caution use on acrylic, polyester  
or plastics.

In the event of a scratch, start with  
powdered abrasive cleaner and a  
scrubbing pad; if further attention  
is needed, use white automotive  
rubbing compound or light sanding  
with a 400 grit or 40 micron  
sandpaper.

### Chemical And Stain Resistance

Chemical and Stain Resistance—NEMA LD3-3.09 No lasting effect on  
Swan Solid Surface occurred from the exposure to the following.

#### Class I Chemicals

Solvents  
Acetone  
Amyl Acetate  
Benzene  
Carbon Tetrachloride  
Ethyl Ether  
Gasoline/Kerosene  
Ethanol  
Methanol  
Toluene  
Chloroform  
Ethyl Acetate  
Naphtha

#### Other

Ammonia (10%)  
Iodine  
Lye (1%)  
Mercurochrome  
Nail Polish Remover  
Potassium Permanganate  
Silver Nitrate (10%)  
Sodium Bisulfate  
Sodium Hypochlorite (5%)  
Trisodium Phosphate  
Urea (6%)

Vinegar

#### Class II Chemicals

Acids  
Furfural  
Methylene Chloride  
Nitric Acid (30%, 70%)\*  
Phenol  
Acids (99.5%)  
Citric  
Hydrochloric (20%)  
Phosphoric  
Sulfuric (77.96%)\*  
Trichlor Acetic  
Formic  
Hydrogen Peroxide  
  
Alkalies  
Ammonium Hydroxide  
Sodium Hydroxide  
(10% & 40%)  
Sodium Hydroxide Flake

\*May cause slight lightening.

PROPERTY TEST	TYPICAL RESULTS	TEST
Impact Resistance	No damage 1-1/2 Diameter Steel Ball. Over 72"	CSA B45.5/IAPMO Z124-2011
Izod Impact		
Method A (with notch)	3.0 ft. - lb./in.	ASTM D256
Method E (reverse notch)	4.0 ft. - lb./in.	ASTM D256
Stain Resistance	Passes	CSA B45.5/IAPMO Z124-2011
Cigarette Resistance	Passes	CSA B45.5/IAPMO Z124-2011
Boiling Water Resistance	No effect	NEMA LD-3
High Temperature Resistance	Slight effect	NEMA LD-3
Abrasion Assistance	Passes	ASTM D4060
Color Fastness and Aging	No change	NEMA LD-3
Tensile Strength	4439 PSI	ASTM D638
Tensile Modulus	7.48 x 10 <sup>5</sup> PSI	ASTM D638
Tensile Elongation	.45%	ASTM D638
Hardness	Barcol Hardness: 51 Rockwell RB Hardness: 60.5 15-T Hardness: 34.7	ASTM D2583
Slip Resistance	Passes	ASTM F462
Fungus Resistance	Passes: 0 growth	ASTM G21-96
Bacterial Resistance	Passes: 0 growth	ASTM G22-90
Wear and Cleanability	Passes	CSA B45.5/IAPMO Z124-2011
Flexural Strength	8225 PSI	ASTM D790
Flexural Modulus	7.49 x 10 <sup>5</sup> PSI	ASTM D790
Thermal Expansion	1.23 x 10 <sup>-5</sup> in/in/°F	ASTM D696
Gloss (60°)	40	NEMA LD3
Water Absorption	.321%	ASTM D570
Specific Gravity	1.55	

#### FLAMMABILITY

Flame Spread Index	Meets Class A	ASTM E84
Smoke Developed Index	85	ASTM E84
Fire Rating	Class A	

Approximate weight per square foot 2 lbs. for 1/4" sheet. See product guide for actual weights.

#### RATINGS AND LISTINGS

American National Standard  
Institute-ANSI Z124.3 and Z124.6

National Plumbing Code of Canada  
CSA B45 Series

International Association  
of Plumbing and  
Mechanical Officials  
(IAPMO)-listed

NSF Standard 51 Certified  
for Both Food and Splash  
Zone Applications

#### TECHNICAL SERVICES

Please call (800) 443-7269 or visit [comfortdesignsbathware.com](http://comfortdesignsbathware.com) for details, including specifications and drawings.

