Solidboard®

easy to clean & sanitize

light weight

non-porous surface

non-corrosive

stain resistant

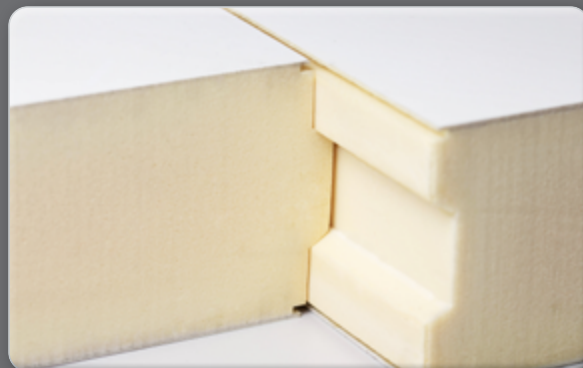hygienically clean

extremely scratch and impact resistant

environmentally compatible

Areas of application

- Cheese-making and dairy processing, meat and fish processing companies
- Baked goods and pasta production
- Beverage producers
- Healthcare industry
- Clean rooms and sanitary facilities
- Cold-storage rooms

Solidboard®

Properties / benefits

- Premium coated surface provides a non-porous finish
- Smooth, easily cleanable, glossy surface
- Corrosion-resistant
- Light weight
- High strength + impact resistant
- Extremely durable to frequent wash downs
- Prevents moisture penetration
- Eliminates the growth of mold and mildew
- Wall cladding with small, tight joints
- Uniform high quality through continuous and permanently controlled manufacturing processes
- Excellent thermal properties
- Low thermal expansion coefficient
- Clean and easy application
- Combination with insulation and sealing materials possible; can be integrated in sandwich-type structures throughout the entire construction width
- Supply in any color (RAL, NCS colors, metallic, dual color and customized colors and shades)
- Environmentally safe
- Subsequent or re-painting is not required

Available designs

- Nominal 1/16" thickness
- Widths up to 8ft-10in
- Plates or rolled
- Various colors; RAL, NCS scale and colors and shades upon customer request
- Other thicknesses or dimensions upon request

Mechanical properties

Mechanical properties	Unit	Value approx.
Density	lbs/in^3	0.047 – 0.0542
Tensile strength (fabric-reinforced)	psi	13,100 – 21,800
Elonigation at break	%	1 – 2
Flexural strength	psi	18,900 – 24,700
Compressive strength	psi	21,800 – 26,100
Impact resistance	ft-lbs/in^2	19 – 29
E-module (bending test)	psi	1,015,000 – 1,450,000
Barcol hardness	Mg	40 – 60

Mechanical properties

Mechanical properties	Unit	Value approx.
Application temperature	°F	-22 to +176
Application limit temperature (temporary)	°F	-58 to +266
Thermal expansion coefficient	°F^{-1}	16-22x10^{-6}
Vapor diffusion resistance coefficient	μ	60,000 – 90,000
Thermal conductivity coefficient	BTU/hr · ft · °F	0.12
Heat transition coefficient	BTU/hr · ft^2 · °F	0.97

Optical properties

	Unit	Value approx.
Light transmission in visible range (380 – 780 nm), colorless material approx. 1mm	%	80 – 90

Heat transition (measured in a range of 200 – 2600 nanometer)

Transmitted transition	%	58
In relation to the solar spectrum	%	84

Fire rating

From a thickness of approx. 1.2 mm		B2
With additional fire-resistance Equipment SL		resistant to sparks, airborne burning particles/radiant heat
Resistant to glow heat		Level 3a

The values are based on a glass content of approx. 28%. The glass contents and therefore the technical values may vary, depending on the product type. The technical values do not represent a guarantee of product characteristics within the scope of a specification. Suitability of the product for the respective purpose or application case must be tested individually by the user based of the various application parameters.
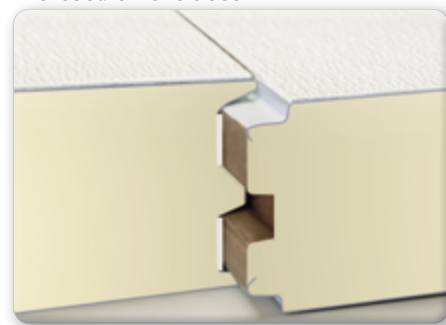

BRUCHA®

Solidboard®

BRUCHA®

- Cover panels made of glass fibre-reinforced synthetic resin
- Food safe compact surface
- Easy to clean + chemical resistant

Design types

- **BRUCHAPaneel Solidboard®**
  for renovation purposes on various substructures,
  such as masonry, tiles, panels, etc.

- **BRUCHAPaneel Solidboard® one-sided**
  factory laminated wall or facade
  panels for indoor applications

- **BRUCHAPaneel Solidboard® double-sided**
  foamed, shear resistant bond with the covers
  core thickness 3-5/32", 3 15/16" and 5-1/2"
  (80, 100, 140 mm) other thicknesses upon request)
  max. panel length - 19.7 ft

- **BRUCHAPaneel Solidboard® EPS**
  - Insulation core made of EPS100/150, flame-retardant,
    limited to cover panels in a shear-resistant manner;
  - Available in insulation thicknesses from 13/16 to 11-13/16".
  - Panel lengths between 6.5 and 39.8 ft.
  - Areas of application: interior finishing of processing and cold-storage rooms

Solidboard - one-sided

Solidboard - double-sided foamed

All information is considered to be subject to errors in composition, printing errors and changes!

US_06/2020

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