“STS” – Thermal and Sound Barrier
Acousticore

We help you manage the properties of sound and heat

*24 Hour Lab Turn-Around*

ACOUSTICS  ──  For Both  ──  INSULATION

<table>
<thead>
<tr>
<th>Interior / Exterior</th>
<th>Thermal Barrier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perforations (Invisible)</td>
<td>Hot or Cold - Wet or Dry</td>
</tr>
<tr>
<td>Honeycomb – ¼” to 5” thick</td>
<td>Basalt / Matt or Fibers (Hydrophobic)</td>
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<tr>
<td>Fibers &amp; Fiber Matts (3D-shapes)</td>
<td>Jute, Kanauf, Wood / 3-D Fiber Matts</td>
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<tr>
<td>Low Density Matts – Stable - Flat</td>
<td>Cotton with Aluminum Foil</td>
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<tr>
<td>Moldable</td>
<td>Newspaper (Recycled)</td>
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<tr>
<td>Western Red Cedar (any size/shape)</td>
<td>2 – 17# Density / cu ft</td>
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<tr>
<td>Rubber Sheets (Recycled/Ground Tires)</td>
<td>3.7 R Factor Per Inch .8 NRC@ 1”</td>
</tr>
<tr>
<td>Honeycomb (Paper, Plastic, Aluminum)</td>
<td>Foils / Films (Adhesive Backed)</td>
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<tr>
<td>Powders (Reinforce, Stiffen, Bond)</td>
<td>Reflective &amp; Air Flow Resistant</td>
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<td>Extrusions (Any shape/Plastic – aluminum)</td>
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</tbody>
</table>

Resistant to Mold/Fungi  Flat or 3D Prototypes Available
Extreme Water Resistance Models Made
Breathable                Light Weight
Breathable                Practical Results

CLASS “A” FIRE RETARDANT AVAILABLE

Add a Skin of Perforated Wood Veneer or Fabric

*SPECIAL ADHESIVES FOR BONDING TO ANYTHING*

12 / 2016
Insulation
Thermal Barriers
3D Shapes, Models, Prototypes
*A PRACTICAL APPROACH*

Basalt Matt or Fiber

Fiber Matts – Molds to 3D Shapes
Jute, Kenaf, Wood, Coconut

Newspaper (Recycled) 2 to 17#/cu ft
3.7 R Factor per Inch
.8 NRC@ 1”

Western Red Cedar
Tiles, Panels, Blocks, Veneers, Shapes

Honeycomb
¼” to 5” thick/Paper, plastic, Aluminum

Polyester Fiber Matt
No Off Gas / Printable
1”, 2”, 3”, 4” Thickness
Won’t Mold or Mildew
Does Not Absorb Water
Recyclable

Energy Saver Select
Multilayer – Foils and Cottons
Polyester-Deco Outer Layers Available
.200” (full fluff)
Spot Sonic Welded – 6 Layer

Pure Quiet Ultra-soft USA Cotton
.100” Thick (at full loft)
Washable/Dry Cleanable
Needle Punched with thin Polypropylene Scrim
(for flatness and stability)

Polyester Fleece
.125” Thick (at full loft)
Sewable or Heat Activated
Adhesive 2 sides = Fusible
Stackable for Thicker Lay Up

Insulated Lining
Polyester Face and Back (Resists Conduction)
Inner Reflective Foil
Reflects / Radiant Energy – Needle Punched
.100” (at full loft)
Sew-able

Reflective Foil & Polyester Loft
.125” Maximum Thickness
.005” Foil Outer Layer (1-side)
.120” Polyester “Loft”
Waterproof
Sew-able
Spot Sonic Welded

Available Services and Products:
ADHESIVES SAMPLES SIZING
PROTOTYPE SHAPES MODELS 3D FOLD or MOLD
CLASS “A” FIRE RETARDANT AVAILABLE

All of the above can be added to Backers, Overlays, 3D Fold or Mold, Deco Layers, Wood Veneers, and Adhesives. Powder Adhesives can be applied to add rigidity (for shapes).