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Date
1. Application of Hygienic Doors

We make Hygienic Doors out of Glass fiber reinforced polyester. For example, applications are Food Processing, Abattoirs, Dairies, Bakeries, Hospitals, Kitchens, Pharmaceutical facilities, Supermarkets. Glass fiber reinforced polyester advanced the mechanical strength, mechanical life is long, weight is light, strengthen. Glass fiber reinforced polyester is no warping or corrosion or change due to temperature and humidity. It has excellent shock-absorption and stability under severe condition due to using updated complex material. It has excellent heat retention and sound proof in by a 100% internal compact structure.

GRP Door

2. Industry Codes and Standard

The Work shall conform to the applicable requirements of the following documents and applicable supplements. The construction is followed next standards.

- KS L 2327 Glass fiber
- KS M 3305 Polyester
- KS D 3503 Rolled steel plate
- KS D 3512 Coiled rolled steel plate
- ASTM D 2000 Rubber products in automotive applications
- SHQAM Quality Assurance Manual
- SHQCP.WP Quality Control Procedure

3. Door-blade

Seamless glass fiber reinforced polyester(3mm Thickness) Molded around a core of closed cell rigid PVC, Internal are compacted of adiabatic Hard urethane. Total thickness of door is 40mm. Most absorption of each material under 0.12%.
Important chemical factor followed next component.

**CHEMICAL COMPONENT PERCENT**

- Glass fiber ratio ---------------66.80%
- Polyester ratio ---------------33.08%

4. Inspection and Testing

If user want test for material inspection of Hygienic doors, test sample piece (300m/m x 300m/m) of equal material followed next test at Korea Testing and Research institute for Chemical industry.

<table>
<thead>
<tr>
<th>Sponsor Number</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS M 3305</td>
<td>Glass fiber Reinforced Polyester</td>
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<tr>
<td></td>
<td>Liquid state unsaturated Polyester resin</td>
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</tbody>
</table>

Test piece Quantity

- Tensile strength, Compressive strength------ Each 4 Q'ty
- Bending strength, Bending elasticity ratio--- Each 2 Q'ty

<table>
<thead>
<tr>
<th>Sponsor Number</th>
<th>Result</th>
<th>Subject</th>
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<tbody>
<tr>
<td>KS M 3305</td>
<td>39 kg f/mm sq. over</td>
<td>Tensile strength</td>
</tr>
<tr>
<td>KS M 3305</td>
<td>46 kg f/mm sq. over</td>
<td>Bending strength</td>
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<tr>
<td>KS M 3305</td>
<td>2900 kg f/mm sq. over</td>
<td>Bending elasticity ratio</td>
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<tr>
<td>KS M 3305</td>
<td>13 kg f/mm sq. over</td>
<td>Compressive strength</td>
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<tr>
<td>KS F 4811</td>
<td>6 series</td>
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</table>

0.12% max Absorption ratio

5. Frames

Glass fiber reinforced polyester with insert for screw fixing direct to structure, or supplied hollow with back plates for "Grouting in" to brick/block-work.

Shall be Reinforced materials supplied for fixing to it, constructed hardware (Door close etc)

6. Silence Rubber

Rubber materials shall meet all service conditions including accident temperatures specified in this specification.

Gasket material shell conforms to the requirements of ASTM D 2000 or ASTM D 1506
7. Hardware

Hygienic Doors consists of next Hardware.

ⓐ Door closer
ⓑ Mortise door lock
ⓒ Lock guard
ⓓ Spring hinges
ⓔ Coordinator(Double doors)
ⓕ Flush bolts(Double doors)
ⓖ Door stop
ⓗ Silence Rubber

8. Finish

Smooth non porous get coat fish with built in color. selection color is followed next series of color.

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<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Light / Gray</td>
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<td>Light / Green</td>
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<td>6</td>
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<td>Light / Blue</td>
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<td>10</td>
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</tr>
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</table>

Light / Oak