GLASS COATED TANKS

VÍTKOVICE ENVI
GLASS COATED TANKS

Aboveground Glass Coated Bolted Tanks from enameled plates are manufactured in VÍTKOVICE since 1966. With the high quality of production technology, rich experience and good references experts Company VÍTKOVICE ENVI a.s. our products and technologies to worldwide market. The Enameling process is a very good form of corrosion protection. Enamel is a silicon melt, which forms on the steel sheet integral protective coating smooth and glossy character. The Glass Coated Bolted Tanks might be used for storage of liquid or loose materials. The Tanks are also a fundamental building element of environmental technological facilities such as Waste Water Treatment Plants (WWTP) and biogas stations. Tank shell is constructed of double-sided coated plates bolted joints connected and sealed permanently elastic sealant. The Tank shell is reinforced by angles. The bottom consists mostly from reinforced concrete or/and bottom is steel welded or bolted from enameled plates. Accessory of the tank, which is the intended purpose of the tank are Manholes, Ladders, Platforms, Stairs, auxiliary and technological structures, piping, mixers, pumps, insulation, ground etc. The tank may be covered by a different type of roofs. The tanks are designed in accordance with standards of EN and ISO.

CHARACTERISTICS OF GLASS FUSED TO STEEL TANKS BY THE COMPANY VÍTKOVICE ENVI a.s..

- Excellent anti-corrosion properties of the enamel
  - Unparalleled durability
  - Proven durability of tanks for more than 40 years
  - High abrasion resistance and chemical resistance

- High variability of design solutions of Tank shell (diameter, height, pipe connections) and the placement of technological equipment (pumps, mixers, heating ...)
  - Very fast construction and Installation
  - The possibility of rebuilding or relocating already built tanks
  - A simple and inexpensive dismantling and recycling of end of life or usage
  - Permanent visual inspection condition and tightness
  - Small footprint, light weight tank
  - Easy disassembled tanks transport at the destination
  - Experience with installations around the world, even in extreme conditions
COLOR OF ENAMELED
Standard colours are:
- green RAL 6009
- white RAL 9001
- blue RAL 5013
- brown RAL 8017

If a customer requires, any other RAL color can be provided and tank surface can be highlighted with any text or logo.

TYPE OF ROOFS
- self-supporting glass-fused
- plastic
- textile
- aluminum
- trapezoidal
- with integrated gasholder

AUXILIARY STRUCTURES
- ladders
- platforms
- trafficable bridges
- other technical structures

INSULATIONS
- glass Coated Tank can be supplemented with thermal insulation covered with trapezoidal

BOTTOM
- an integral watertight
- concrete slab steel welded
- bolted from Glass Coated steel sheet

JOINT
- sheet are connected by special high-grade bolts with a plastic covered head
- All bonds of sheets are sealed by special elastic silicone or polyurethane sealant

ACCESSORIES
- manholes
- pipe
- agitators
- pumps and others
### Application Options:

- Loose materials
- Liquid
- Agriculture
- Other Application

- limestone
- cement
- fly ash
- wood waste
- sand and gravels
- granules
- salt
- soot

### Glass Coated Tanks

<table>
<thead>
<tr>
<th>THE NUMBER OF SHEETS ABOVE EACH OTHER</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>TANK VOLUME [m³]</td>
<td>1.51</td>
<td>2.94</td>
<td>4.37</td>
<td>5.80</td>
<td>7.23</td>
<td>8.66</td>
<td>10.09</td>
<td>11.52</td>
<td>12.95</td>
<td>14.38</td>
<td>15.81</td>
<td>17.24</td>
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<table>
<thead>
<tr>
<th>TANK DIAMETER [m]</th>
<th>2.04</th>
<th>2.45</th>
<th>2.86</th>
<th>3.27</th>
<th>3.68</th>
<th>4.09</th>
<th>4.50</th>
<th>4.91</th>
<th>5.32</th>
<th>5.73</th>
<th>6.14</th>
<th>6.55</th>
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<td>PR</td>
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<tr>
<td>THE NUMBER OF SHEETS IN A LINE</td>
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<td>12</td>
<td>11</td>
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<td>19</td>
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<td>19</td>
<td>23</td>
<td>28</td>
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<td>37</td>
<td>42</td>
<td>47</td>
<td>51</td>
<td>56</td>
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</tbody>
</table>

**Individual tanks are addressed:**
- If the desired roofing
- If the stored media assumes an increase in chemical or thermal load
- If snow loads are expected
- Wind speed is higher than 110 km/h
- Location of the tank is in a seismically active area

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**Note:**
- Dimensions and volumes are approximate and subject to local regulations and standards.
1. WWTP Kamień, Poland
2. Storage tanks of Liquid Fertilizer, Katusice, Czech Republic
3. Storage tanks of Liquid Fertilizer Dobre Miasto, Poland
4. Gasholder, 5000 m³, Poznan, Poland
5. Distillery Zbiersk, Poland
6. Fermenters Skawina, Poland

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