Flexalen® 600 Short Length Package
Pre-insulated piping system by Thermaflex®

All-in-one pre-insulated pipe package for quick and efficient A to B connections

Benefits

- Flexible, pre-insulated plastic pipe system Flexalen® 600 with high pressure rating 95°C/8bar
- The only Cradle to Cradle™ certified pre-insulated pipe system in the world
- Delivered in cardboard box, convenient for storage and transport
- Fast and easy installation

Set Content

- Flexalen® 600 double pipe with oxygen barrier
- 4x compression fitting SDR11 male thread
- 2x rubber end cap for double pipe
- 1x trace warning tape, 100m roll

Design Flexalen® 600
- Polyethylene corrugated pipe, PE
- Flexibility and mechanical protection
- Polyolefin foam
- Closed-cell, CFC-free
- Polybutene service pipe, PB-1
- With oxygen barrier

Applications

- Geothermal heat distribution lines
- Connection of adjacent buildings
- Heat pumps
- Pellet plants

Disclaimer
All recommendations and information provided on this data sheet are based on our knowledge and experience. Product specifications are intended as guidelines. Since conditions of service are beyond our control, users must satisfy themselves that products are suitable for the intended use. No guarantee or warranty is given or implied on that any use of products will not infringe rights belonging to other parties. We reserve the right to change product design and properties without notification.
Technical Properties Flexalen® 600

Flexalen® 600 is a pre-insulated flexible plastic pipe system produced conform the European standard EN15632-1,3 and KIWA system certified as well as third-party controlled according BRL KOMO 5609-2.

### PB-1 service pipe (EN-ISO 15876)
- Max. service temperature: 95°C
- Continuous operating temperature: 80°C
- Max. operating pressure: 8bar (95°C)

### Thermal insulation
- Polyolefin foam
- Closed-cell structure, CFC-free
- Water vapor diffusion $\mu \geq 3,500$

### Flexalen® 600 Heat losses

**Heat loss $q$ [W/m]** for one Double line

<table>
<thead>
<tr>
<th>Flexalen® 600</th>
<th>Average operating temperature $T$ [°C]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double line</td>
<td>20°C</td>
</tr>
<tr>
<td>25 x 25 / 125</td>
<td>3.0</td>
</tr>
<tr>
<td>32 x 32 / 125</td>
<td>3.9</td>
</tr>
<tr>
<td>40 x 40 / 160</td>
<td>3.4</td>
</tr>
</tbody>
</table>

**Calculation parameter:**
- $A_{\text{wall}}$: 1.00 W/m·K
- $R$ soil surface to ambient air: 0.0085 m²·K/W
- $T_{\text{inc}}$: 10.0°C
- Soil covering: 0.8 m

The heat loss characteristics are in accordance with the European standard for flexible heating pipes systems EN15632. During the expected lifetime of the product these values will increase by 7-10 %.

### Flexalen® 600 Pressure rating

![Pressure rating graph](attachment: pressure_rating.png)

**Up to OD 110:** 20°C/16 bar 95°C/8 bar
**≥ OD 125:** 20°C/10 bar 95°C/6 bar

### Availability

**Flexalen® 600 double line**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Service pipe OD x s [mm]</th>
<th>Jacket pipe OD [mm]</th>
<th>Min. bending radius [m]</th>
<th>Length [m]</th>
<th>Dimensions [cm]</th>
<th>weight [kg]</th>
<th>Product code</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 x 25 / 125</td>
<td>25 x 2.3</td>
<td>125</td>
<td>0.6</td>
<td>8</td>
<td>145 x 145 x 35</td>
<td>21.7</td>
<td>1033-125025-020</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12</td>
<td>145 x 145 x 35</td>
<td>27.4</td>
<td>1033-125025-035</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16</td>
<td>145 x 145 x 50</td>
<td>33.8</td>
<td>1033-125025-040</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20</td>
<td>145 x 145 x 50</td>
<td>39.5</td>
<td>1033-125025-045</td>
</tr>
<tr>
<td>32 x 32 / 125</td>
<td>32 x 3.0</td>
<td>125</td>
<td>0.6</td>
<td>8</td>
<td>145 x 145 x 35</td>
<td>23.5</td>
<td>1033-125032-020</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12</td>
<td>145 x 145 x 35</td>
<td>30.0</td>
<td>1033-125032-035</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16</td>
<td>145 x 145 x 50</td>
<td>37.2</td>
<td>1033-125032-040</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20</td>
<td>145 x 145 x 50</td>
<td>43.7</td>
<td>1033-125032-045</td>
</tr>
<tr>
<td>40 x 40 / 160</td>
<td>40 x 3.7</td>
<td>160</td>
<td>0.8</td>
<td>8</td>
<td>145 x 145 x 35</td>
<td>32.2</td>
<td>1033-160040-020</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>12</td>
<td>145 x 145 x 50</td>
<td>42.1</td>
<td>1033-160040-035</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16</td>
<td>145 x 145 x 50</td>
<td>51.7</td>
<td>1033-160040-040</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20</td>
<td>4.2</td>
<td>43.0</td>
<td>1033-160040-045</td>
</tr>
</tbody>
</table>

1 Fixed length, other lengths available on request.
2 delivered on coil, without cardboard box.

- Full range of accessories and tools
- Wall entries
- Restraining clamps (recommended)