Structure made of Polycentric arc, consisting of 4 elements, reinforced by rod pipes. This model can be equipped with facades and windows. Anchorage to ground even without the use of concrete, burying the plastic film covering along the lateral sides.

### TUNNELS

#### TN MODEL

#### TECHNICAL SPECIFICATIONS

- **Conformity:**  
  - European norm EN 13031-1 dated 01-11-2004  
  - Greenhouses: Design and construction

- **Materials:**  
  - **first quality** galvanized welded pipe  
  - steel quality E260 (EN 10305)  
  - **galvanization process:** Sendzimir Z 275  
  - high resistance against corrosion

- **Prevailing use:**  
  - Flower, vegetable and mushroom growing  
  - target: flexibility and rapidity - useful life 5 years

#### MEASUREMENTS

<table>
<thead>
<tr>
<th>Model</th>
<th>L (m)</th>
<th>H (m)</th>
<th>F (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TN 6</td>
<td>6</td>
<td></td>
<td>0.60</td>
</tr>
<tr>
<td>TN 7</td>
<td>7</td>
<td></td>
<td>0.80</td>
</tr>
<tr>
<td>TN 8</td>
<td>8</td>
<td>2.35</td>
<td>0.95</td>
</tr>
<tr>
<td>TN 9</td>
<td>9</td>
<td></td>
<td>1.13</td>
</tr>
</tbody>
</table>
Importance of ventilation:
Greenhouse ventilation is useful not only to reduce the inside temperature, but also to decrease the air damp and keep constant the CO$_2$ concentration.

WINDOWS

FRONTS

The front frame is very important for the following reasons:
- it must be enough strong so to transfer to the main structure all the actions coming from outside, especially those one due to strong wind;
- it must be covered by long life materials since it’s so easy to damage them beating with tools or tractors;
- it’s the site where doors and entrances to the greenhouse are usually allocated; these doors can be made of various types.

OPTIONALS FOR TN MODEL

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TUNNELS
SIMPLIFIED PRODUCT
TS MODEL

TECHNICAL SPECIFICATIONS

Conformity:
- European norm EN 13031-1 dated 01-11-2004
  “Greenhouses: Design and construction”

Materials:
- first quality galvanized welded pipe
  steel quality E260 (EN 10305)
- Galvanization process: Sendzimir Z 275
  High resistance against corrosion

Prevailing use:
- vegetable
  target: economy - useful life 5 years

MEASUREMENTS

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<thead>
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<tr>
<td>TS 6</td>
<td>6</td>
<td>3.00</td>
</tr>
<tr>
<td>TS 8</td>
<td>7.8</td>
<td>3.90</td>
</tr>
</tbody>
</table>

Tunnel made with semi-circular arch. This version can’t be equipped with facades and windows. The plastic film covering must be necessary buried along the lateral sides.