

**Technical Data Sheet**

**September 2014**

**Product:**

**BLACK HYDROPONIC CULTIVATION TROUGHS AND DRAIN WATER COLLECTION GUTTERS PROTECTED AGAINST UV RADIATION**

**Description:** Plastic troughs and gutters, plain or pre-folded, with optional grooves and drainage holes

**Applications:** Hydroponic cultivation of plants (vegetables, herbs, ornamentals, cut flowers, etc) in loose soilless medium or grow bags.

**UV Resistance:** 5 years for moderate exposure in UV radiation.

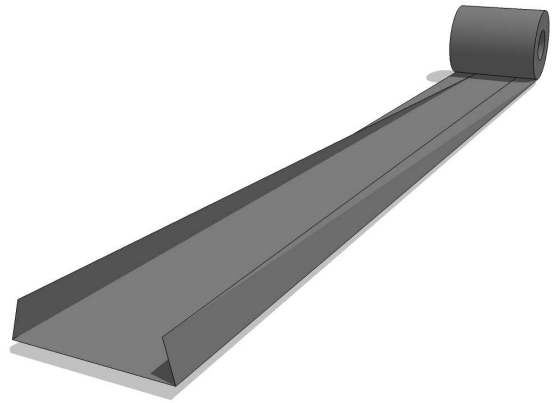
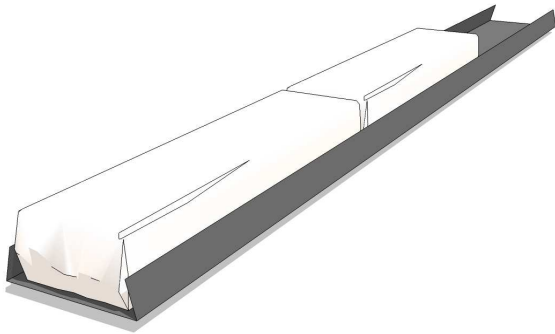
**1. Technical properties\*.**

<b>Test</b>	<b>Conditions</b>	<b>Result</b>
<b><u>1. Tensile properties (ASTM D638)</u></b>		
<b>Tensile strength at yield</b>	23° C	22 N/mm <sup>2</sup>
<b>Tensile strength at yield</b>	23° C	17%
<b>Young's modulus</b>	23° C	300 N/mm <sup>2</sup>
<b>Tear resistance :</b>		Max strength > 80 N/mm <sup>2</sup>
<b>Flexural modulus ISO 178</b>		1150 MPa
<b>Izod impact D256</b>	23° C	500 J/m
<b>2. Thermal properties</b>		
<b>Vicat softening point (ASTM D1525)</b>		145° C
<b>Heat deflection Temp. (ISO 75-2/B)</b>		82° C
<b>Specific gravity ISO 1183</b>		~0.905 gr/cm <sup>3</sup>

\* Tests were made on 0.8 mm thick sheets.



Prefolded Drainage gutters  
for grow bags of up to 20cm wide.  
Type 7cm x 20cm x 7cm



spacers for grow bags 60mm high

