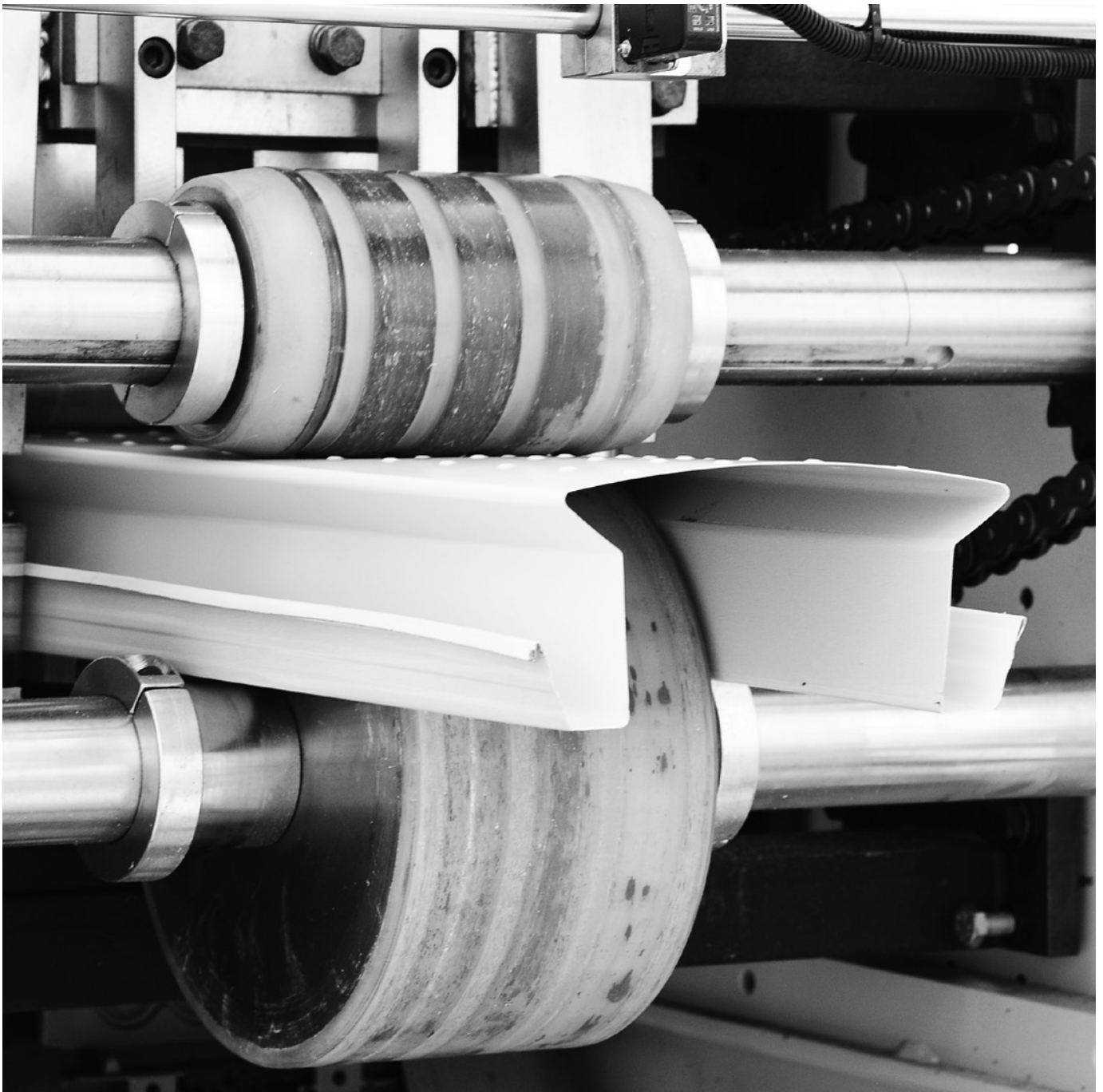

Metal Hydroponics Channel EL HG200





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Metal Hydroponics Channel EL HG200

The metal hydroponics channel is a canal type Ω with raised bottom and two side gutters. It can be installed on special bases or hung on special suspension systems from the greenhouse roof. It is made of pre-galvanized painted high-strength steel with a paint suitable to protect it from corrosion. The special imprintings created during the production process, give improved adhesion and non-slip surface with the plates of the inert culture substrate. Finally, the special ribs on the sides of the gutters give optimal strength and zero deformations and distortions in the channel.

Advantages of elevated hydroponics channel

- Facilitates cultivation. The productivity of the workers increases due to the ease of harvesting and caring for the plants.
- Ideal for recycling the nutrient solution.
- Very good ventilation in the area of the plant base.
- Good lighting at the base of the plant due to reflection in the soil cover fabric of the greenhouse.
- Avoid contact of leaves or fruits with soil.
- Reduction of humidity resulting in the reduction of botrytis infestations.
- Is ideal for a closed culture system with recycling of the effluent solution as it is easy to connect to the collection tubes of the excess nutrient solution.
- The irrigation pipe is placed under the canal and thus is not exposed to direct sunlight.



Metal Hydroponics Channel EL HG200

Advantages of a closed hydroponics system

- Great savings in water consumption due to nutrient solution recycling.
- Economy in the use of fertilizers as the nutrient solution is reused after proper correction.
- Minimal environmental pollution as the nutrient solution is not discharged into the environment.



Advantages of the metal channel EL HG200

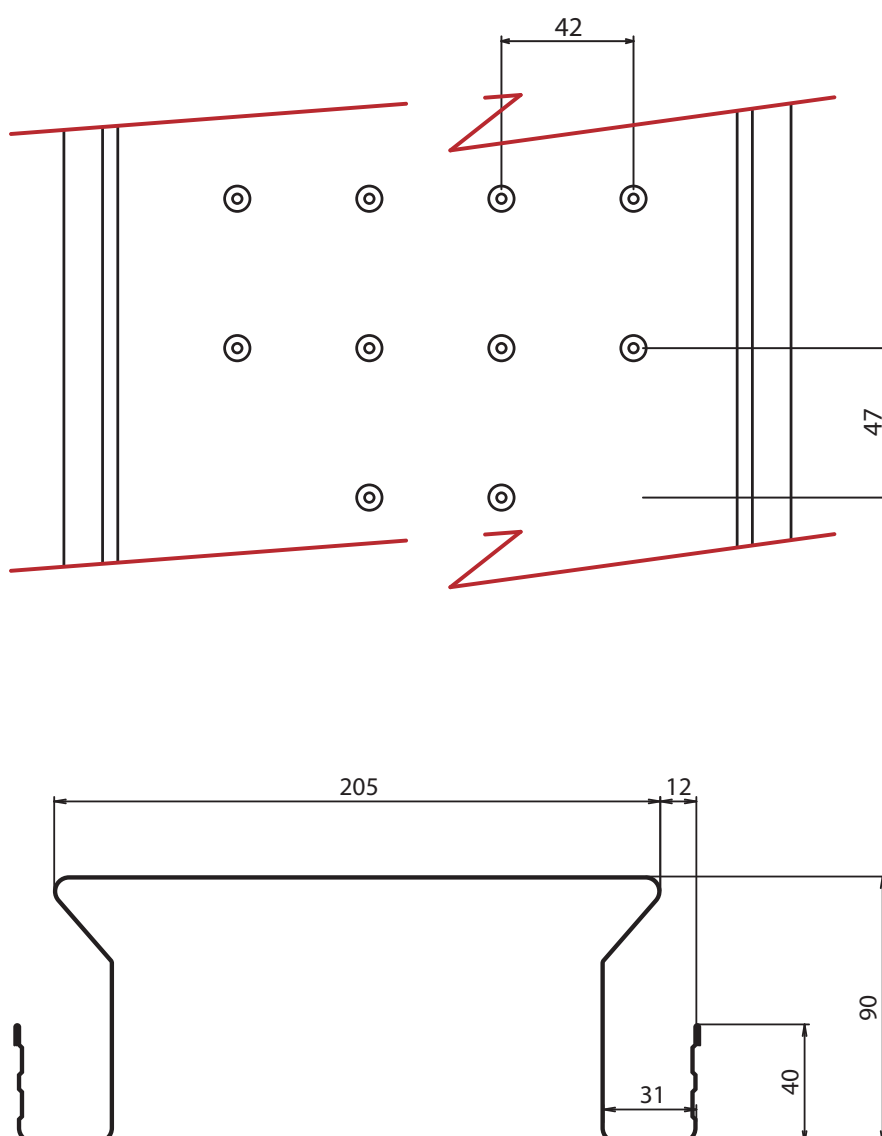
- The production of the profile is done on site, which contributes significantly to the minimization of the points of connection of the channels with each other, thus minimizing the risk of leakage of the effluent solution.
- On-site production results in reduced work on the metal channel joints.
- The effluent solution does not meet the substrate.
- The roots do not penetrate the gutter, thus preventing the spread of diseases of the root environment.
- Due to the shape and construction material offers excellent support to the substrate, thus:
 - The substrate is supported in its entire width.
 - The substrate does not slide over the channel.
 - Uniform distribution of the solution is achieved in the substrate with a better Structure of the root system.
 - It is achieved to avoid excess solution in the substrate.
- High drainage capacity.
- Minimum probability of gutter overflow.
- Easy control of side drainage channels, easy cleaning, and low probability of entrained materials.
- Gutters are essentially covered by the canal surface (upside down D) so they are not exposed to light: low chance of algae formation.
- The metal channel EL HG200 is ideal for cultivation of tomatoes, cucumbers, peppers and others with all substrates (rock wool, perlite, coco palm, etc.).



Metal Hydroponics Channel EL HG200

Technical characteristics of the channel

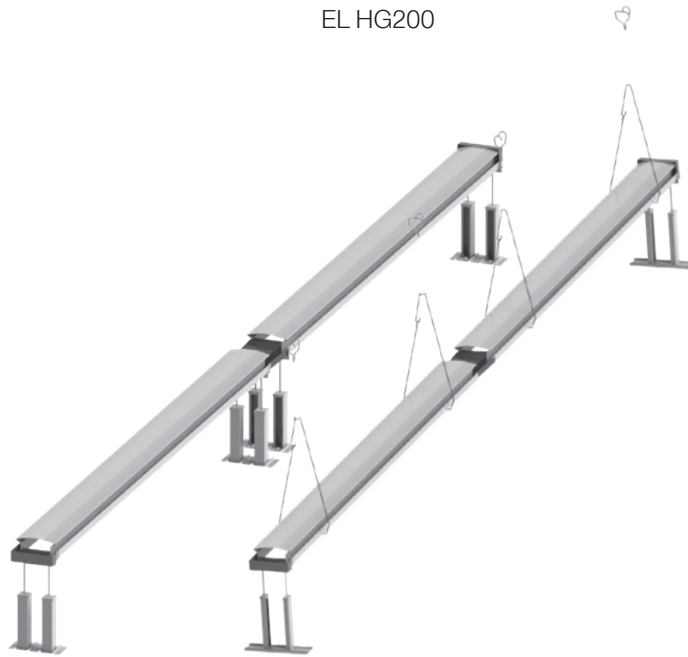
- Pre-galvanized and painted steel S280GD, Z275, primer 7μm, polyester 20μm.
- Nominal plate thickness: 0,60 mm
- Colour: RAL 9002
- Channel width: 205 mm
- Channel height: 90 mm
- Dimensions of side gutters: 31 x 40 mm
- Length: minimum 4 meters, without maximum height restriction



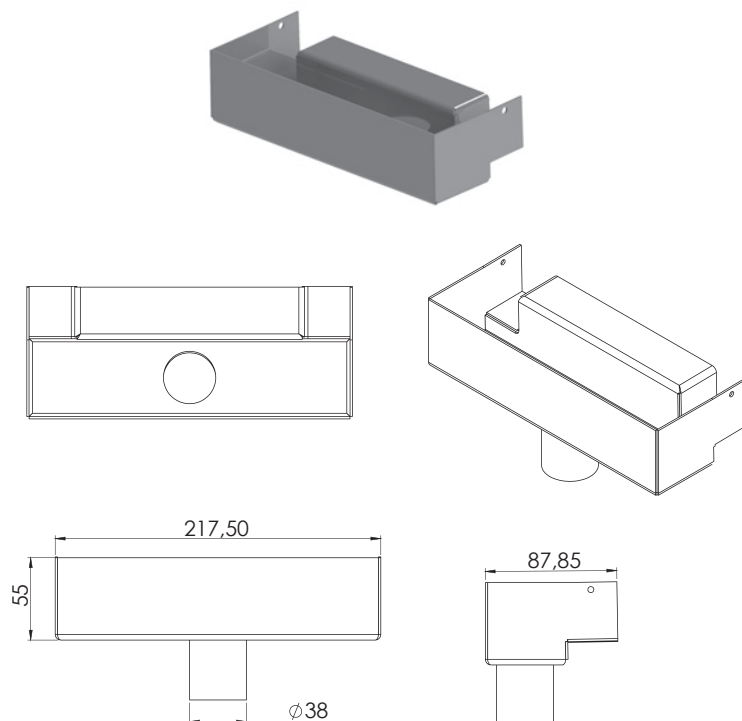
Metal Hydroponics Channel EL HG200

Components

EL HG200



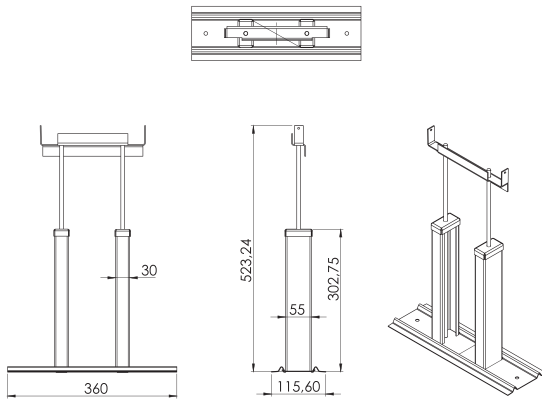
Gutter Drainage



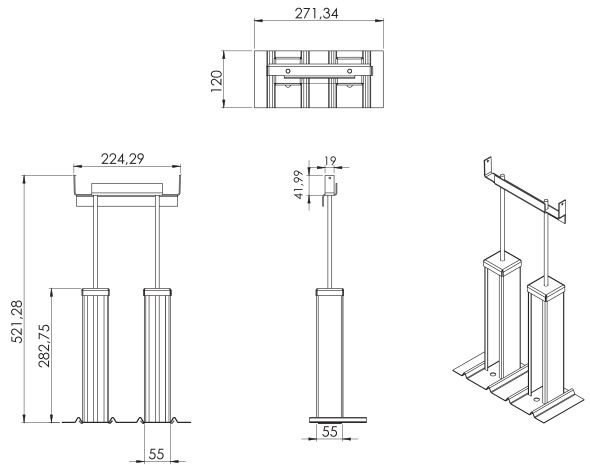
Metal Hydroponics Channel EL HG200

Components

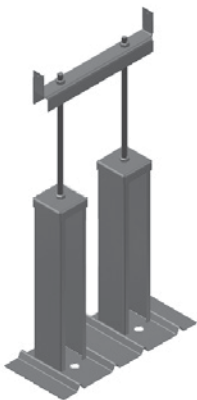
Gutter Support 55x35



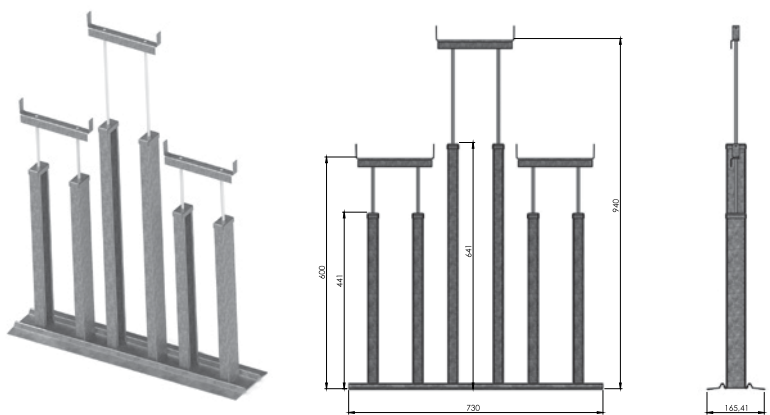
Gutter Support 55x55



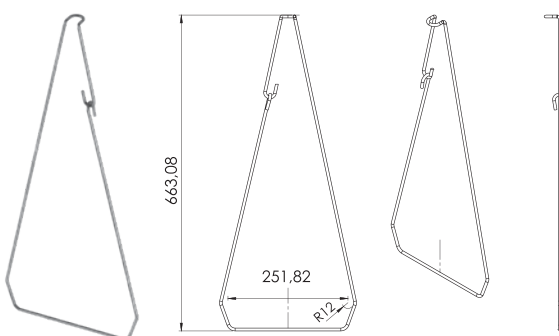
Gutter Support



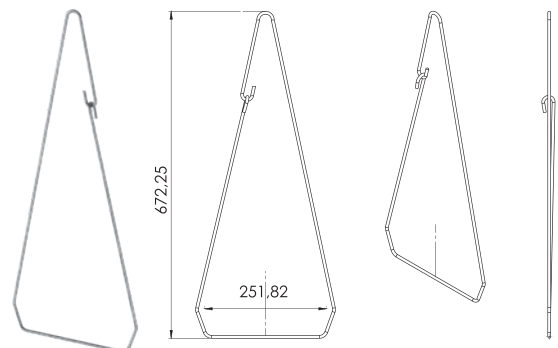
Triple Gutter Support



Triangle bracket for Bolt Plate



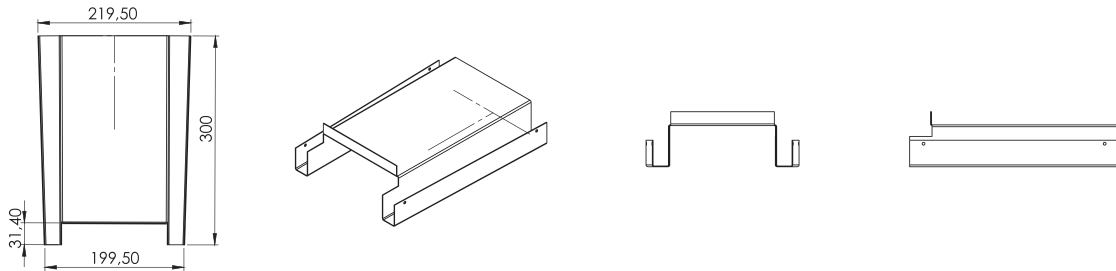
Triangle bracket for Turnbuckle



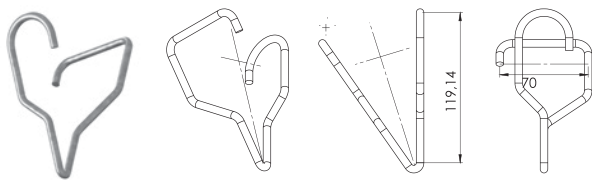
Metal Hydroponics Channel EL HG200

Components

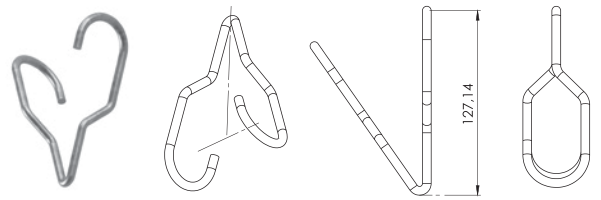
Gutter extension sleeve



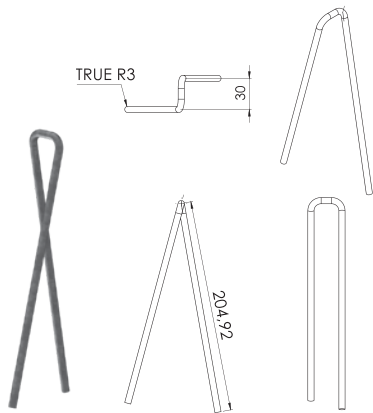
Hook for combined tubes $\Phi 32-40$



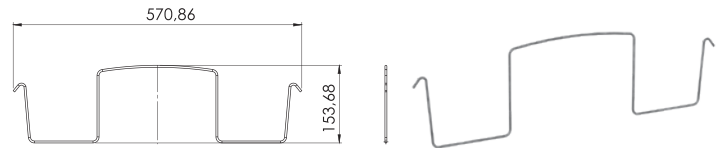
Hook for circular tubes $\Phi 32$



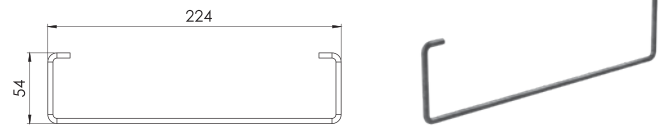
Nail peg



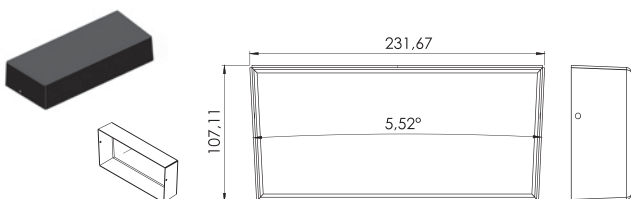
Stem support



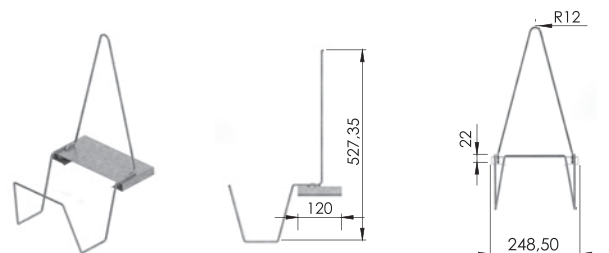
Irrigation bracket



Gutter endcap



Gutter end support for plants



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