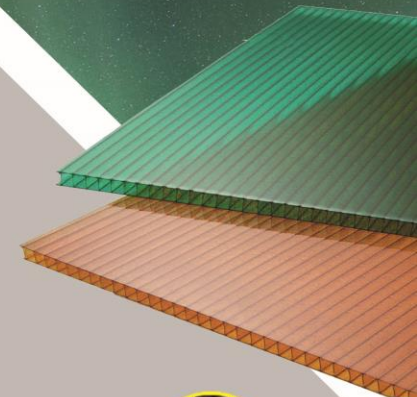


# Mahmi Catalog




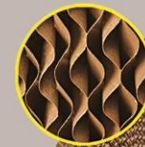
 **Mahmi**

we aspire to be leaders in high-tech  
greenhouses and hydroponic systems  
design, manufacture, supply and installation

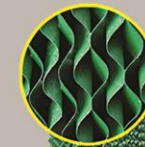
 [www.mahmi.met](http://www.mahmi.met)

 [info@mahmi.net](mailto:info@mahmi.net)

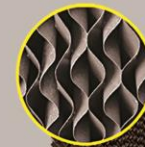
 +46 755 777 955



Brown cooling pad



Green cooling pad



Black cooling pad

## Our vision Is “to provide services that meet the requirements of both the farmers and those interested in agriculture”

- Mahmi was established to be able to supply products and services that can achieve the best specifications in the field of greenhouses manufacturing and designing, and all greenhouse supply.
- We design, manufacture and supply high-tech cooled greenhouses, net houses and irrigation/control systems.
- We design and supply high-tech fertilization tools.
- We cooperated with major international companies in the field of greenhouses cooling system and accessories.
- We offer all solutions related to the field of cooled greenhouses, net houses and all greenhouse supplies and accessories.
- We choose the best factories, suppliers and raw materials , and we keep up with the latest technological developments in the field of greenhouses.
- We offer consultations in the field of vegetables and poultry farms establishments.
- Our brand products are manufactured according to the European specifications and standards that are applied in the best factories globally, with a reasonable to provide high value products.
- We have a strategic partnership policy with factories to manufacture all types of greenhouses, fans, cooling pads and greenhouses covering materials according to European specifications and standards.

### Our top priority is:

- 1- High quality specifications
- 2- Quality of sale and post sale services
- 3- Good, stable relationships with manufacturers and customers
- 4- Competitive and reasonable prices

To manufacture our products, we rely on our partners in the best factories around the world which manufacture our products according to European specifications and standards under the name of our brand.

**Our product list includes:**

- 1- Greenhouse
- 2- Net houses
- 3- Cooling fans
- 4- Cooling pads
- 5- Coco peat grow bags
- 6- Polycarbonate double wall (6-8-10) mm
- 7- Polyethylene 200 micron three layers
- 8- Insect and shading nets
- 9- Home greenhouses



## Greenhouses :

- We design and manufacture all types of greenhouses as well as supervise installation throughout Europe, Africa, the Middle East and Asia.
- Our designs are made according to the customer's requirements and in accordance to the weather in the region.
- We also provide feasibility studies for greenhouse projects.





## Cooling fans :

We produce all types of ventilation fans, which are used inside the greenhouse, livestock and poultry farms according to European specifications and standards.



### MAHMI SERIES CIRCULATION FAN



#### [ Performance characteristics ] :

- ◆ Features the excellent "Haier" brand electronics.
- ◆ International advanced energy conservation technology tested.
- ◆ Light aluminum board punch press fan blazer: exhibits a wide angle, large air pressure and low noise.
- ◆ Outer covering is stainless steel. Steel spraying is also available.
- ◆ Equipped with beautiful and convenient button type hanging articles.
- ◆ Long service life: over 10 years.

#### [ Technical parameters ] :

Type	Diameter blades	AirVolume	Power	Voltage	motor rotation	HZ
MS-300	300	2880	150	220 (380)	1400	50
MS-400	400	4180	250	220 (380)	1400	50
MS-500	500	5300	250	220 (380)	1400	50
MS-600	600	6500	370	220 (380)	1400	50



## Cooling fans :

We produce all types of ventilation fans, which are used inside the greenhouse, livestock and poultry farms according to European specifications and standards.

### MSC - CENTRIFUGAL EXHAUST FAN



[Structure and principle] :

**MSC** - High Class Fan is composed of a blade, motor, outer frame protecting nets and supporting frames and shutters. The shutters are opened by the Push-pull Centrifugal system. The major parts are made of galvanized steel sheets (180g/275g/m<sup>2</sup> zinc coating) and stainless steel sheets. Based on sound aerodynamic principles, wind resistance is minimized and efficient airflow is achieved. All products are used in a wide range of settings, including various types of farms, greenhouses and factory buildings.

[Application examples] :

[Technical parameters] :

Model specifications	Diameter blades (mm)	Blades rotational speed rpm	Motor rotational speed rpm	Air flow (m <sup>3</sup> /h)	(Pa) Total pressure	Noise decibels	(W) Import power	(V) Rated voltage	(mm) Height	(mm) Width	(mm) Thickness
MSC-800	710 (28")	650	1400	18000	60	≤70	370	380	800	800	450
MSC-1000	910 (36")	650	1400	26000	60	≤70	550	380	1000	1000	450
MSC-1100	1000(40")	600	1400	33000	70	≤70	750	380	1100	1100	450
MSC-1220	1100(43")	440	1400	39500	50	≤70	1100	380	1220	1220	450
MSC-1380	1270(50")	440	1400	43500	56	≤70	1100	380	1380	1380	450
MSC-1530	1400(55")	420	1400	51000	56	≤75	1500	380	1530	1530	450

[Performance characteristics] :



Fan Blade: composed of Krupp stainless steel, made by punch forming, ensuring no dust. Attractive and durable. The special blade shape design ensures large air volumes, no deformation and a continuous, consistent rate of air flow.



Motor: both Chinese famous motors and Siemens motors are available. Motor voltage and frequency may be customized. The Chinese famous motors are especially designed for the fan, and is the first of its kind with protection device which could power off during a shortage of electricity. Motor protection grade: IP55; Insulation class: Grade F



Fan Belt Pulley: composed of high strength aluminum-magnesium alloy by die-casting which reduces the weight of the blade impeller and provides it with complete, high corrosion resistance. It utilizes a special "three reinforced ribs pulley" design. Blast-sanding treatment is done to provide an attractive appearance, as well as eliminate internal stress, improving its own rigidity and stability to minimize breakage.



Fan Bearing: adopts imported double-row bearings with special waterproof design, ensuring water does not enter. Exhibits high strength, lower noise, is maintenance free and has a long service life.



Centrifugal System: opens the shutters at complete 90 degree angles to ensure the lowest air resistance while maximizing air volume. When closed, the sealing can efficiently block light and wind into the poultry farm house. It is the first to adopt high quality, 100% nylon to ensure long service life. The fasteners of the centrifugal system are made of copper rivets which confer flexibility while providing water and dust resistance. The guide rod is made of 304 high strength, rust-resistant stainless steel which reduces friction.

[Production equipment] :



## Cooling fans :

We produce all types of ventilation fans, which are used inside the greenhouse, livestock and poultry farms according to European specifications and standards.

MSH- SERIES HEAVY HAMMER EXHAUST FAN



MSH - Fan is mainly composed of a blade, motor, outer frame protecting nets and supporting frames and shutters. The motor drives blade to cause air flow and shutters can open and close automatically to keep the dust from entering. The major parts are made of galvanized steel sheets and stainless steel sheets.

[ Technical parameters ] :

Model specifications	Diameter blade (mm)	Blade rotational speed rpm	Motor rotational speed rpm	Air flow (m <sup>3</sup> /h)	(Pa) Total pressure	Noise decibels	(W) Input power	(V) Rated voltage	(mm) Height	(mm) Width	(mm) Thickness
MSH -620	500 (20")	1400	1400	5700	55	≤60	370	380	620	620	370
MSH -800	710 (28")	650	1400	18000	75	≤60	370	380	800	800	400
MSH -900	750 (30")	650	1400	20000	60	≤60	550	380	900	900	400
MSH -1000	900 (36")	610	1400	23000	70	≤60	550	380	1000	1000	400
MSH -1100	1000(39")	600	1400	32500	70	≤60	750	380	1100	1100	400
MSH -1220	1100(43")	460	1400	38000	73	≤60	1100	380	1220	1200	400
MSH -1380	1250(50")	439	1400	44000	60	≤60	1100	380	1380	1380	400
MSH -1530	1400(55")	439	1400	55800	60	≤60	1500	380	1530	1530	400



Fan Blade: composed of Krupp stainless steel, made by punch forming, ensuring no dust. Attractive and durable. The special blade shape design ensures large air volumes, no deformation and a continuous, consistent rate of air flow.



Motor: both Chinese famous motors and Siemens motors are available. Motor voltage and frequency may be customized. The Chinese famous motors are especially designed for the fan, and is the first of its kind with protection device which could power off during a shortage of electricity. Motor protection grade: IP55; Insulation class: Grade F



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Fan Bearing: adopts imported double-row bearings with special waterproof design, ensuring water does not enter. Exhibits high strength, lower noise, is maintenance free and has a long service life.



Drop Hammer: using high strength nylon, this swung drop hammer opening device ensures the flexibility of the opening and closing of the shutters.



Belts: imported belts that exhibit long service life, ensuring minimal maintenance.

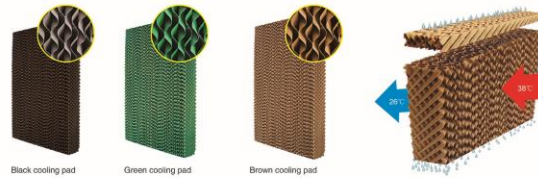


## Cooling pads:

We produce greenhouse cooling pads using the highest quality paper with a density of 105 and 95 grams per square meter. Furthermore, we produce sizes as per customer's request.

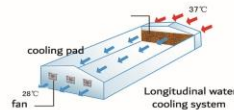
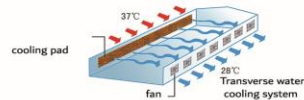


### MAHMI COOLING PAD



### [ Performance characteristics ] :

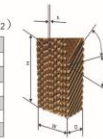
- ◆ Adopting imported European fiber paper, our pad exhibits high absorbability and water resistance. It uses anti-mildew and moth-preventive material to ensure long life service.
- ◆ Using spatial crossing linking technology and a large evaporation area, cooling efficiency is increased to as high as 80%.
- ◆ Our cooling pad involves active surface agents which absorb water naturally, allowing for rapid penetration and lasting effectiveness. A drop of water can diffuse in 4-5 seconds. Limit of water absorption: 60-70 mm/ 5 minutes, 200mm/1.5 hours – consistent with international standards.
- ◆ Our cooling pad does not contain phenol, which is irritant to the skin. It is harmless to humans and animals and is free of poisons.
- ◆ Available colors: brown and green coats.



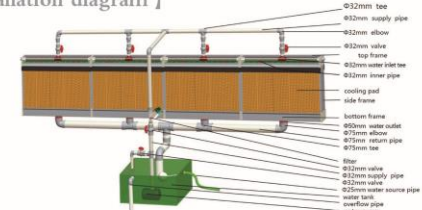
### [ Specifications ] :

	H Height	W Width	D Thickness
	h Flute high	l Across angle (1)	β Across angle (2)
	model7090	model7090	model5990
H (mm)	1500, 1800, 2000	1500, 1800, 2000	1500, 1800, 2000
W (mm)	600, 300	600, 300	600, 300
D (mm)	100, 150, 200	100, 150, 200	100, 150, 200
h (mm)	7	7	5
α (°)	45	45	45
β (°)	45	15	45

### [ Application examples ] :



### [ Installation diagram ]



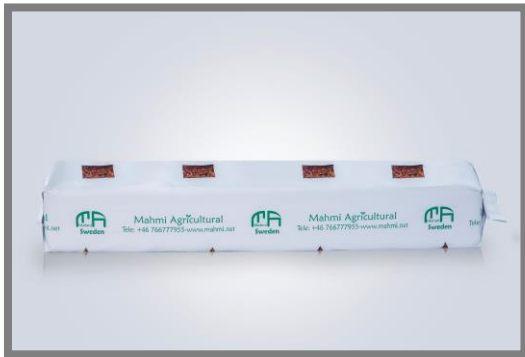
### [ Cooling Pad Production Line ]



## Coco Peat Growbags :

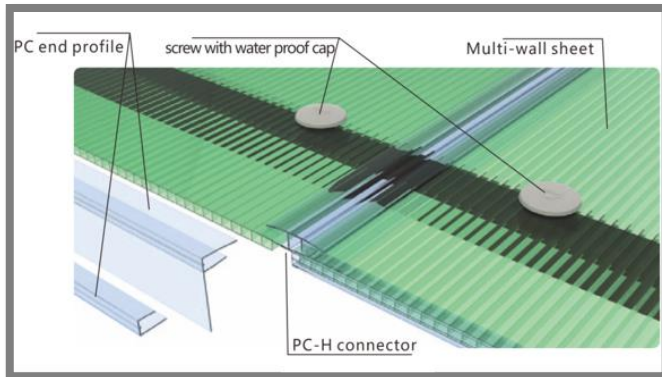
The coco-peat growing media is recognized as the world's best soil-less growing media, due to its natural properties that help plant growth and maintain a good environment.

With Sri-Lanka being the best and biggest high-quality coco-peat coir producer in the world, we have built a strategical partnership with the best producers there in order to be able to satisfy our costumers' needs, with what they deem as suitable for optimal productivity in their facilities.



## Polycarbonate two-wall sheets :

Since it was founded, our company has built a long-term partnership with one of the biggest and best producers of polycarbonate sheets, which are produced specifically to cover greenhouses. This enables us to cover our projects and costumers' requirements of polycarbonate products, according to international standards and specifications, while ensuring the best quality and services for the least prices.



**Mahmi** Multiwall Polycarbonate Sheet combines the characteristic strength of polycarbonate with insulation. This yields a strong, insulating lightweight, attractive sheet for varied roofing, cladding, and glazing. **Mahmi** Multiwall Polycarbonate Sheet is used in markets as diverse as construction, agriculture, industry, DIY and advertising.

### Product Features

- High thermal insulation
- Light weight and impact resistant
- High light transmission
- Weather and UV resistance
- Easy to handle and install
- High fire performance rating

### Applications

- Architectural roofing and glazing
- Skylights and sidelights
- Displays, signage and decorations
- Industrial roofing and glazing DIY
- Covered swimming pools
- Agricultural greenhouses

### MAHMI POLYCA

RBNATE ANTI-DRIP SHEET PROVIDED AN OPTIMAL CULTIVATION ENVIRONMENT

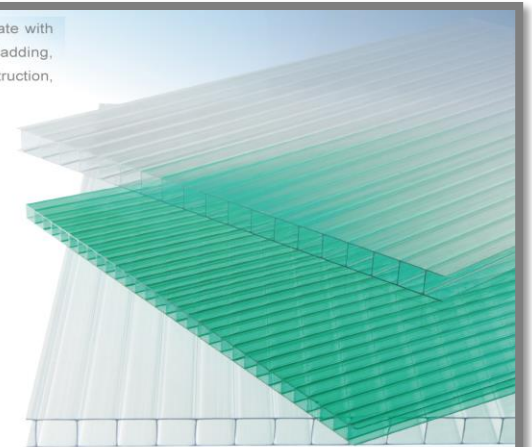
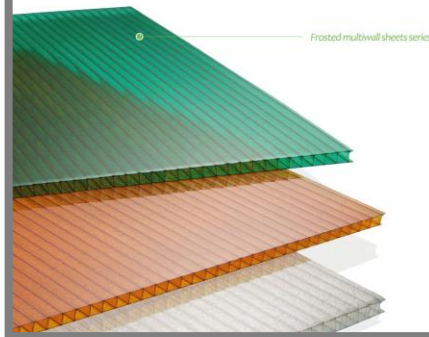
BY COMBINING HIGH LIGHT TRANSMISSION, EXCELLENT WEATHER RESISTANCE AND A SPECIAL ANTI-DRIP FEATURE.

THE CELLULAR MULTI-LAYER STRUCTURE REDUCES HEATING COSTS IN WINTER WHILE MINIMIZING EXCESSIVE HEAT

IN SUMMER AND A SPECIAL COATING ON THE BOTTOM SIDE ELIMINATES CONDENSATION DRIPPING.

MAHMI POLYCARBONATE ANTI-DRIP SHEET BLOCKS ULTRAVIOLET RAYS THAT BURN PLANTS AND LIVING TISSUES

AND TRANSMITS ONLY BENEFICIAL RADIATION.



## Multiwall Polycarbonate Sheet

Frosted multiwall sheets series has the features of brightness and shiny, making the penetrated light softer, which eliminates light band, decrease light pollution and provides better visual effects and abrasion resistance.

Walls	Grade name	Thickness(mm)	Weight(kg/m <sup>2</sup> )	Rib distance (mm)	U-value (W/m <sup>2</sup> .K)	UV Side	LT(%) clear	LT(%) opal
2-wall R-structure	RGL42RS85	4	0.85	6	3.96	1/2	78	47
	RGL452RS10	4.5	1.0	6	3.86	1/2	77	47
	RGL62RS13	6	1.3	6	3.56	1/2	77	46
	RGL82RS15	8	1.5	10	3.26	1/2	76	44
	RGL102RS17	10	1.7	10	3.02	1/2	73	44

## Polyethylene 200 micron three layers :

Mahmi is committed to providing first-class agricultural films and solutions for end-users.

Mahmi has devoted itself to deeply understand the actual needs of end-users and the specific environmental characteristics. Based on the rigorous scientific research and continuous innovation.

Our partners have developed many advanced agricultural films, providing the most comprehensive and scientific product mix for end-users and earning high praise from the international market.

Our manufacturing partners use a full set of advanced equipment imported from Europe and the United States, that has been verified by the ISO 9001 Quality Management System and the OHSAS 18001 (Occupational Health and Safety Assessment Series 18001). Its products are tested based on the ASTM testing standards.



### PRODUCT DATA SHEET

PRODUCER	Mahmi by HiTEC
PRODUCT TYPE	UV2982AD

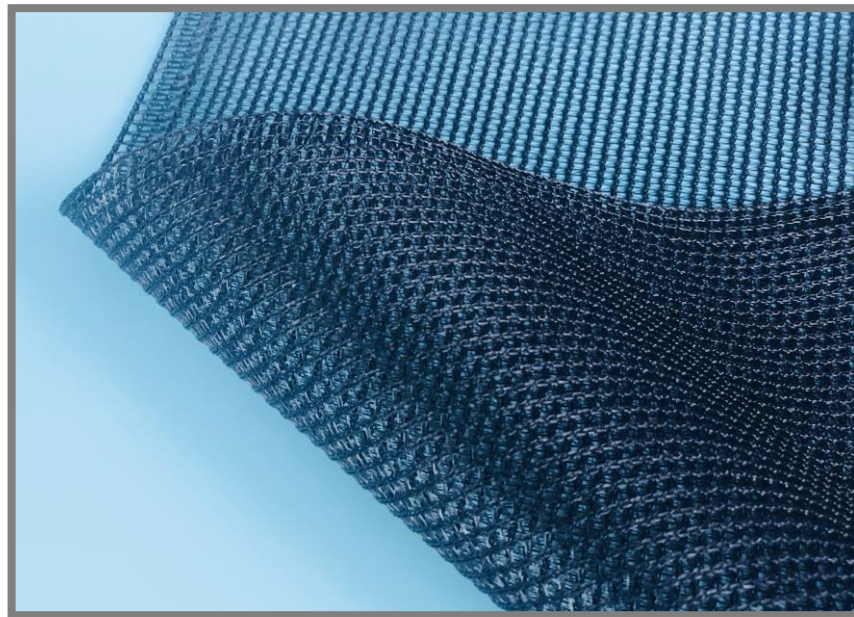
PRODUCT DESCRIPTION	3-LAYER, LONG-LIFE, COLORLESS, HIGH DIFFUSING, ANTI-DIPPING GREENHOUSE FILM	
RESINS	LDPE/LLDPE	
NOMINAL THICKNESS ( mic)	200	
AVERAGE THICKNESS TOLERANCE	± 5% ON NOMINAL THICKNESS	
MECHANICAL PROPERTIES	TEST METHOD	TYPICAL VALUES
TENSILE STRENGTH @ BREAK (MPa)	ASTM D882	
-MACHINE DIRECTION		25
-TRANSVERSAL DIRECTION		25
ELONGATION @ BREAK (%)	ASTM D882	
-MACHINE DIRECTION		600
-TRANSVERSAL DIRECTION		700
TEAR RESISTANCE (gf/ mic)	ASTM D1922	10.0
DART DROP (g)	ASTM D1709	600
OPTICAL PROPERTIES		
LIGHT TRANSMISSION (%) (400-700 nm)	TN2155-5	≥ 88
DIFFUSION (%) (400-700 nm)	TN2155-9	70-72

## Insect nets and shading nets :

1- Mahmi insect nets are ventilation screens for keeping harmful insects outside the greenhouse and useful insects inside PLP. Insect nets are available with three popular types providing a secure barrier for your conditions.

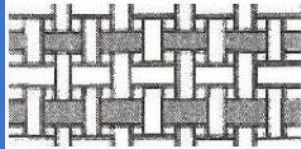




2- Mahmi shading screens have daytime cooling and shading effects in summer. Moreover, it helps reduce radiant heat loss from plants at night. Our shading nets can protect the greenhouses and the plants inside from the damage caused by rain, hail and fallen materials..



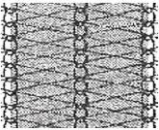
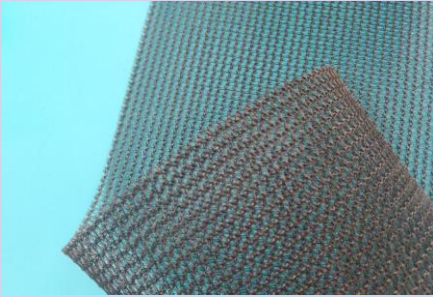
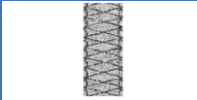
## Insect nets and shading nets :

1- Mahmi insect nets are ventilation screens for keeping harmful insects outside the greenhouse and useful insects inside PLP. Insect nets are available with three popular types providing a secure barrier for your conditions.

Product Information		Insect net - MS-PLP 50	
			
 <p>Woven structure</p>			
Function			
Material composition		100% polyolefin	
Standard width		3m, 3.5m, 4.5m, 5m	
Flame retardant		No	
<b>Specification</b>			
Properties		Value	Test Methods
Weight		132±5g/m2	electronic balance
Warp density		20yarns/cm	measuring scale
Weft density		10yarns/cm	measuring scale
Opening		0.27×0.77 mm	measuring scale
Ventilation reduction		32%	Mahmi method
Shrinkage (≤)		3%	Mahmi method
Warranty		Warranty five years outside use. exceptions reference to Mahmi guarantee letter.	

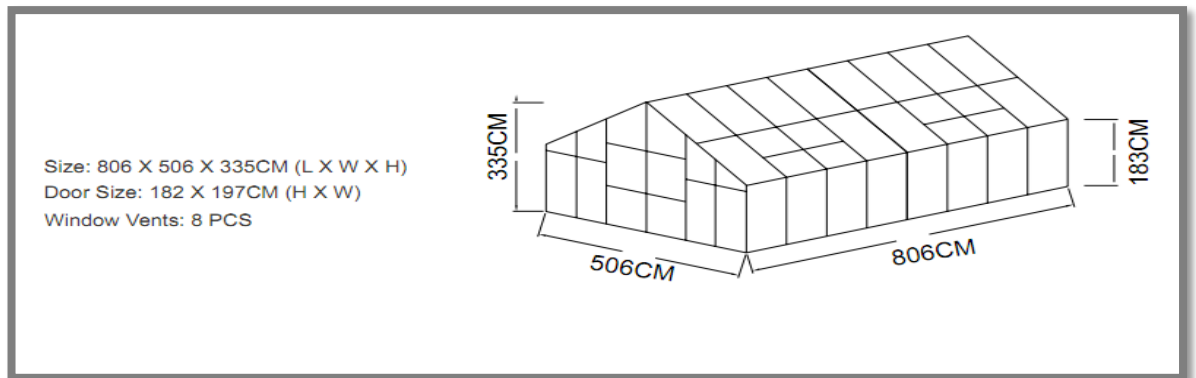
## Insect net and shading net :

2- Mahmi shading screens have daytime cooling and shading effects in summer. Moreover, it helps reduce radiant heat loss from plants at night. Our shading nets can protect the greenhouses and the plants inside from the damage caused by rain, hail and fallen materials..

Product Information	shading net - Mahmi- 7	
		
 black monofilament knitting		
Function	shading, hail, and downpour protection	
System	sliding, rolling, hanging	
Material composition	polyolefin	
Standard width	4.3m	
Flame retardant	No	
Specification		
Properties	Value	Test Methods
Shading level	65%	integrated sphere
UV light transmission	35%	integrated sphere
Energy saving	22%	simulation method
Shrinkage ( $\leq$ )	2%	Mahmi method
Warranty	Warranty five years used outside. exceptions reference to Mahmi guarantee letter.	

## Home greenhouses :

Our company is developing greenhouses specifically for use inside homes, suitable for use within the European Union and the Middle East regions.



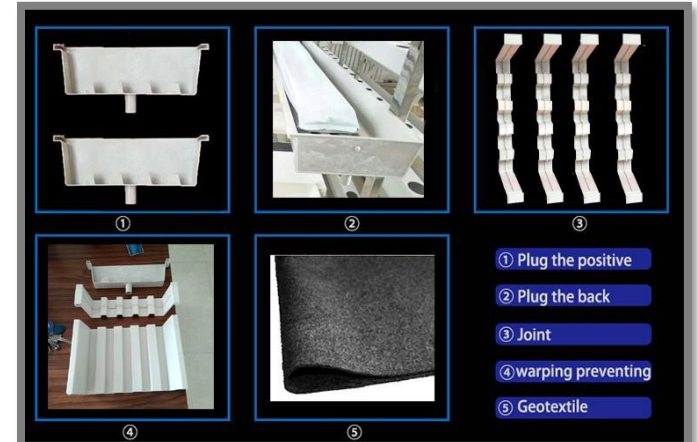
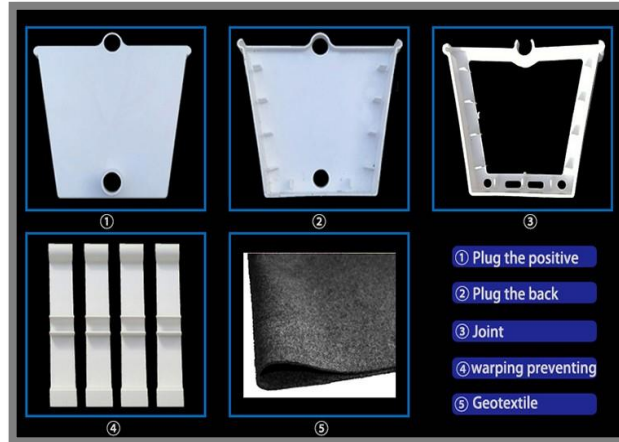


## Hydroponic systems :

Our company designs and provides all growth complexes and accessories for all hydroponic systems.

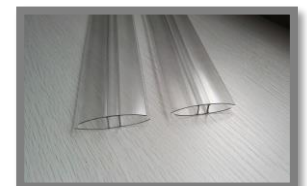
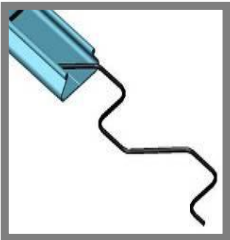
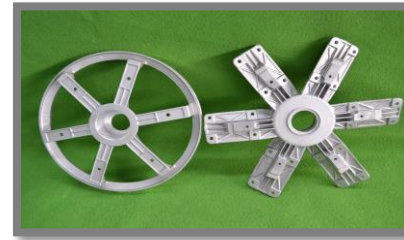
## Control systems :

In the present time we provide fertilization, irrigation and climate control systems in addition to cooling systems for our projects only.



**Accessories :**

Our company is committed to provide all supplies, accessories and spare parts for all the products under its brand.



## Feasibility studies :

Mahmi does feasibility studies for all types of agricultural projects and greenhouse projects. Especially for hot and desert climate areas in the Middle East and Africa.

Additionally, Mahmi provides solutions to reach the best quality and the optimal level of production in greenhouses.

Our designs are distinguished by their achievement of a period of investment and operation of facilities in no less than 20 years.



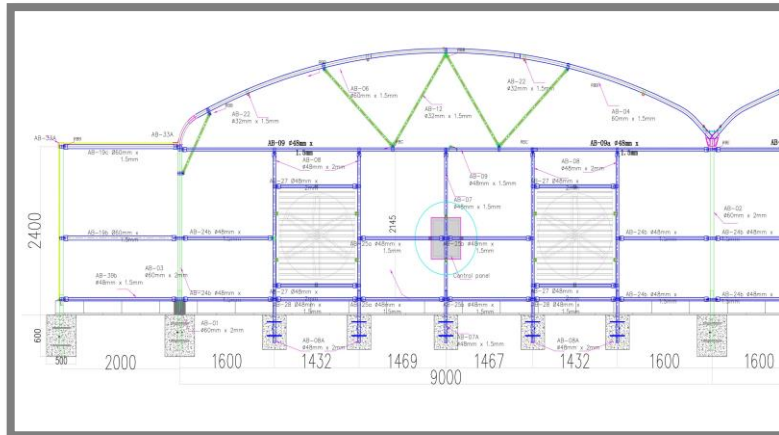
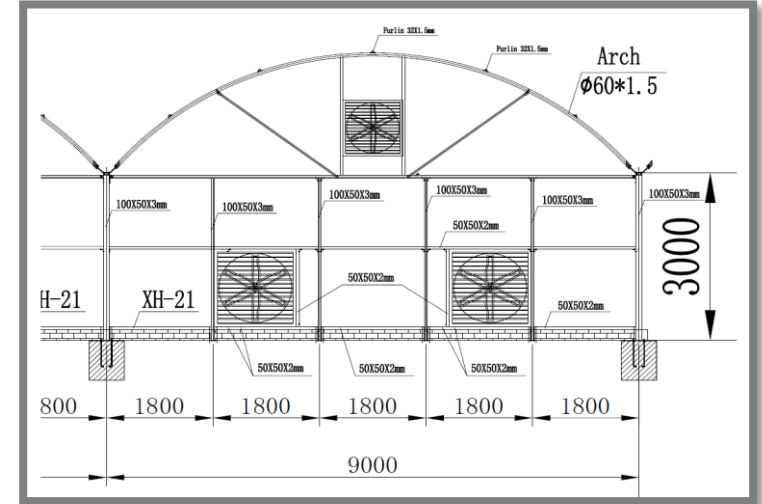
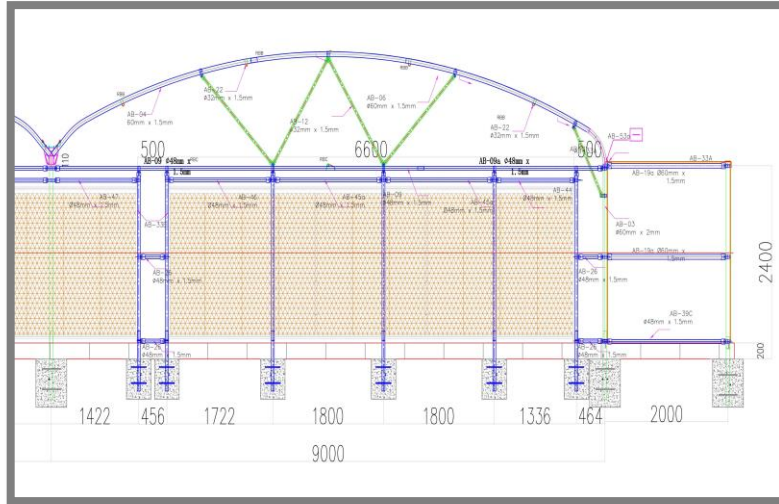
## Supervision :

We have the possibility to carry out the installation supervision process in Europe, the Middle East and Africa for all our projects and designs.

## Design department :

Our design department has excellent experience in designing all types of greenhouses.

We care about the finest technical details so that our designs achieve the highest performance possible.



## Company info:



[www.mahmi.net](http://www.mahmi.net)



[info@mahmi.net](mailto:info@mahmi.net)



Marklandsgatan, 17, 507 45 Boras – Sweden



+46 766 777 955



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