



**DESIGN AND
MANUFACTURER OF
MODERN GREENHOUSES**

**TARIQ ALSAFEENA
GENERAL TRADING L.L.C**



COMPANY INTRODUCTION

The use of greenhouses by agriculture experts to rapidly ripen the plants has a long history. Greenhouse is a frame with transparent coverage penetrable to light where, by controlling the main production factors (light, temperature, humidity, and pollutant gases like carbon dioxide) and inputs that affect the plant growth, the desirable production of different agricultural and horticultural products becomes feasible. Moreover, plants can be protected against the damages caused by undesirable environmental factors. Today, through the advancements in technology and the utilization of pre-manufactured pieces, different greenhouses can be built using various materials, in different sizes for different purposes. Tariq Alsafena Industrial Production Company (general trading L.L.C), started its operation in the field of designing, constructing and equipping different modern greenhouses in 2007 at the Industrial Zone. Possessing the designing and molding unit, this company is able to design and manufacture its required pieces.



A CONSTRUCTS

Tariq Alsafena Industrial Production Company is able to design and manufacture various A constructs in different grids with plastic and polycarbonate coverage with different forms and facilities. It should be mentioned that different pieces are designed and made in this company, and can be implemented in different dimensions according to customers' needs.



B CONSTRUCTS

Designing, implementing and equipping various internal multi-span constructs with high strength in two different styles- circular and gothic- by this company allow you to easily and conveniently order and implement your desired construct .The method of arranging foundations in this type of structure increases the resistance of the structure against side winds and provides the possibility of increasing the cultivated area.



C CONSTRUCTS

Design and implementation of different Venlo glass constructs using state-of-the-art technologies and standards, beauty, long amortization period, high strength, equipment installation easiness, high resistance to snow and wind, optimal use of light, simple separation of rooms under one ceiling, and other factors facilitate the efficient and convenient management which is achieved by such a construct. Different pieces of glass constructs are designed and produced in this company, which can be implemented in different dimensions according to the customers' needs





D CONSTRUCTS

This greenhouse is one of the oldest multi-span greenhouses which has been implemented as types A and B. D greenhouse includes multi-span steel construct with polycarbonate walls and plastic ceiling as homogenous form, recommended to be used for cultivating vegetables and flowers in low-shock thermal environments.



E DESIGN CONSTRUCT

This construct is a combination of A and B constructs. This construct has the advantages of arrangement of B construct legs such as extending the area under cultivation and resistance to wind, as well as the advantages of A construct such as plastic-wrapping system. Like other constructs, this construct can be covered by polycarbonate and plastic. Also, implementation of all heating and cooling systems is feasible on this construct.



SHADOW MAKER AND ENERGY SAVER SYSTEM

Air circulation by air conditioners may not be sufficient in the middle of summer. Since sunlight is the main factor of energy increase and consequently temperature increase inside a greenhouse, we can adjust the entering lighting energy by limiting it. From the advantages of using the shadow maker and energy savor system, we can refer to reduction and adjustment of the luminous lux to the desirable level, prevention from direct sunlight, and prevention from temperature loss in winter.

ACCESSORIES GREENHOUSE

accessories allow the manager to control natural factors more desirably. Depending on environmental conditions, available facilities, and greenhouse requirements, this equipment includes desalination device, shadow maker system, circulated fan, etc.

Cooling System Given the increase in temperature in summer, the need to extraordinary cooling, and generation of cold humidity up to 80% coldness and aeration, the fan and pad cooling system and fogger system allow you to reduce the temperature to 18°C in the shortest possible time through creating fluid cold cloud with low water consumption and to supply the humidity required for cultivation. Evaporative cooling system with cellulosic pad is an efficient method to cool down the greenhouse halls in arid areas.

HEATING SYSTEM

The most important and most technical part of a greenhouse is its heating system facilities; because the slightest mistake can cause serious economic losses. The heating system of a greenhouse should be planned regularly and precisely so that the generated heat is distributed uniformly around the plants. Heating systems include floor heating system, hot air furnace, jet heater, heat radiator, etc., which can be used based on the cultivation type and environmental conditions. Hot air furnace with a power of 80000 to 300000 kilo calories per hour has high heating efficiency and is usable in two types, gas and gasoline, in the greenhouse.



ACCESSORIES

Greenhouse accessories allow the manager to control natural factors more desirably. Depending on environmental

Conditions, available facilities, and greenhouse requirements, this equipment includes desalination device, shadow maker system, circulated fan, etc.

PIECES

Possessing the designing unit in its molding department, Tariq Alsafeena Company is able to supply the needs of its customers to manufacturing different pieces of greenhouses (in glass and plastic) with different patterns, competing with imported pieces. The production unit of this company, located at the Industrial Zone of Machine-Manufacturing and Top Technologies, is able to produce pieces in high volume, according to customers' needs..





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