



Techno Ajor





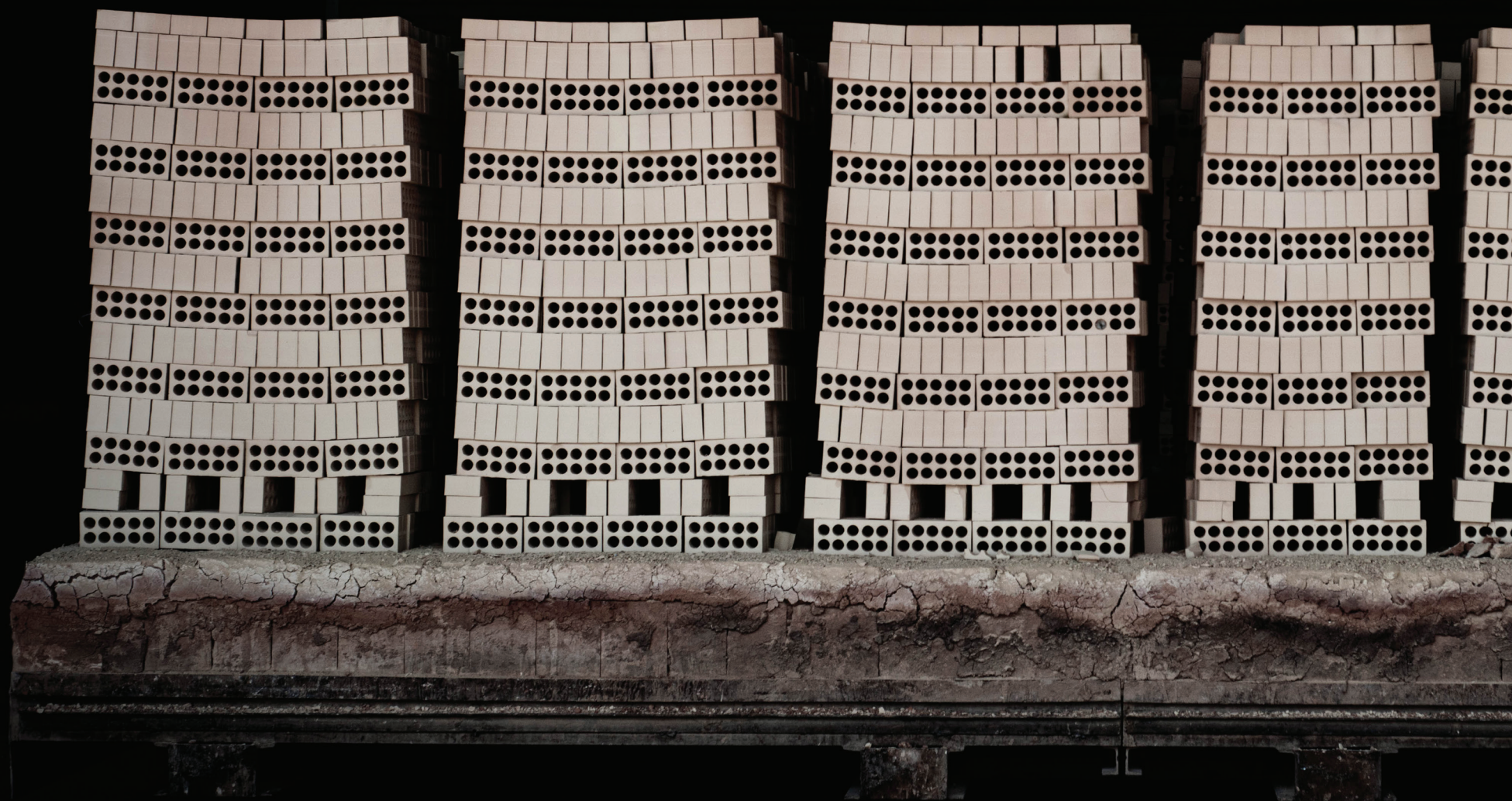


*„Today, I know myself to be a successful entrepreneur in light of what I have seen and done. However, despite what I have learned through my success, I have also learned much from hard work and determination - the very essence of true success. Throughout my youth and into adulthood the definition of prosperity lay in the very act of aspiring to be better than one's current self. I created my success out of each and every brick that came my way. I endeavored to become an entrepreneur and only became one through hard work and a desire to never give up. This is what success means. It is not a static idea, for success will bestow itself upon each generation only through the hard work of its individuals. And when one asks to what end our hard work will go to, the response is simple. Without determination and dedication, we can achieve our generations wildest dreams. Never give up! Long for the impossible and never settle for less. Learn from the successes of your peers but remember to forge your own history and path in the process, for nothing is ever truly impossible. And never forget that victory in life is only given to those who endeavor throughout it. Once you do succeed your name will remain with those of the successful men and women of generations past.“*

Ahmad Ghabaian











# Contents

Introduction	1
Concentrated on Quality	3
Powerful in Distribution	4
The Importance of Being Environmentally Friendly	5
Diversity and Beauty in Construction	6
Social Commitment	9
Products	10
Physical and Chemical Sepecifations	12







# Introduction

## ● Automatic Mass Production of Brick

Techno Ajar manufacturing company (TAMC), established in 1974, produces the highest quality variety of brick veneers, ribs and blocks. Enjoying the latest facility achievements in brick production, such as terra preperation storage, automatic machinery, tunnel kilns and quality control labs, TAMC is an industry leading mass producer of bricks.

In 2002 and 2003, via the addition of new production lines, TAMC raised productivity to 200 million bricks per year, a giant step taken towards updating and diverifying our product line.



## ● Mass Production of High-Quality Brick

At TAMC, we only use the highest quality machines from acclaimed brands such as Handle and Keller. Our machines are assembled, launched and repaired -when needed- by the expert technicians of these companies. By taking advantage of the latest technology and industry experts, we have continually guaranteed that only the highest quality products are made at TAMC.

## ● Mass Production and Accessibility

Besides supplying high-quality products, at TAMC we are consistently focused on providing our costumers with the best service. As a result, the *Taban Gohar Distribution and Transportation Company* was established to ensure that the safest and most efficient transportation systems would be used for all our costumers needs.

## ● Mass Production and Sustainability

Nowadays, the issue of sustainability is one the main concerns of the world. To address this issue in their own field, Techno Ajar Co. - through continusly updating their technology- has always tried to produce high quality products with high durabilty and minimum energy consumption.









# Concentrated on Quality

Our bricks are amongst the most resistant and follow an original, elegant design. We have gained a longstanding reputation with our customers as well as engineers and architects. Daily quality control checks are conducted via an expert supervisory control team in our highly equipped quality control labs.

We also partner with the *Iran Institute of Standard and Industrial Research* and the *Construction Research Center* in order to periodically check our products at their certified labs.

The production of our bricks is based upon precise measurements and uniformity, with no traces of concavity or convexity. Once completed, structures which use our bricks showcase the elegance in our design and uniformity. We ensure product quality via a tunnel kiln capable of 1000-degree temperatures while our high-pressure resistance technology (operating at  $350\text{kg/cm}^2$ ) enhances durability and reduces any waste due to unnecessary transportation. The water porosity of our bricks (13/8%) also ensures their combination quality with grout, leading to highly durable buildings. The quantity of dissolved materials in our bricks arm them with greater resistance levels against hazardous chemical substances. Given these specifications and our high-quality approach to production, TAMC bricks can be used all over the world, particularly in colder regions. As a result of our efforts to ensure the best quality and production standards, TAMC was the first to receive the Standard Badge for brick veneer in Iran.





# Strong in Distribution

*Taban Gohar Co., transportation company and services section of TAMC*

In order to ensure the highest quality service to our customers, we established the Taban Gohar Distribution and Transportation Company with a fleet of 46 trucks, ensuring the safest transportation of our products in the shortest amount of time.





# The Importance of Being Environmentally Friendly

Preserving our natural environment is a global concern. As such, at TAMC we are committed to using the most sustainable practices in the industry. We focus on creating high-quality products using the least amount of energy consumption and residual waste. In addition, our durable products enhance the sustainability of the structures they are used in, preventing the excessive waste of structural energy and unnecessary repairs. Differing from many artificial materials, bricks can be produced and used as an environmentally friendly construction material. Brick buildings can become an integrated part of their surrounding nature. Over time, their magnificent color and structure can add form and design to these natural surroundings. In order to ensure long-term sustainability, we constantly update our machinery and production techniques with the goal of reducing any potential environmental hazards. We focus on using tunnel kilns which increase the speed and quality of our production lines while decreasing any unnecessary energy consumption. We also reuse our water supplies via a water reservoir.

At TAMC, we view these efforts as key components to our dual goals of protecting the environment and producing sustainable products.





# Diversity and Beauty in Construction

Owr renowned products have been used in vital projects, both inside and outside of the country. Buildings which rely on TAMC products are well known for their diverse and flawless facades, each one an elegant reminder of our top-quality materials.



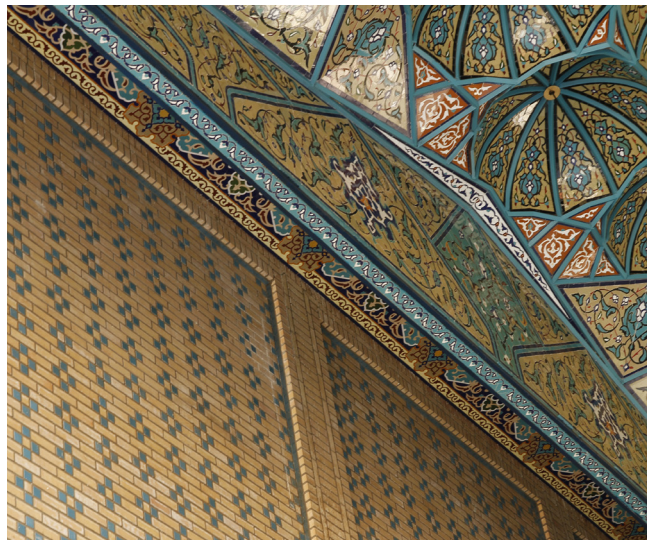
Chaharbaagh - Isfahan



Asan Pak Factory - Qazvin



Saraye Attar - Isfahan



Imamzadeh Baghfeiz - Tehran



Pasargad Office Building-Isfahan





Jahannama Tower - Isfahan



With the help of our highly experienced and creative architecture unit, TAMC has emerged as a designer and architect of unique, modern building projects.



Gholhak Building - Tehran



Elahieh Building - Tehran



Farmanieh Building - Tehran



# Social Commitment

## *Building Schools and Improving Literacy*



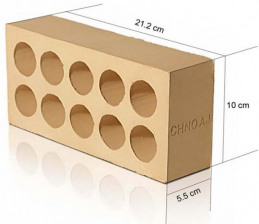
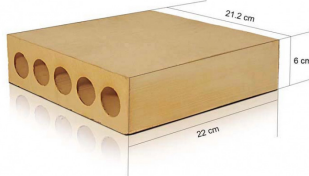
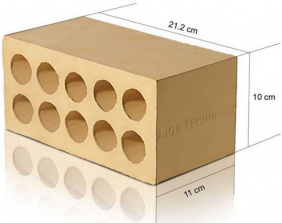
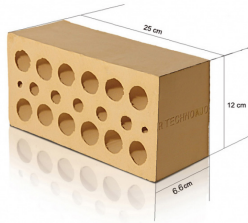
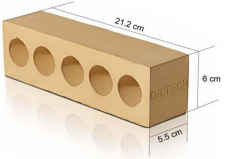
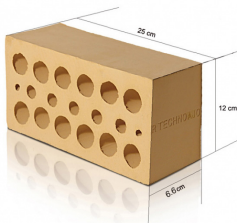
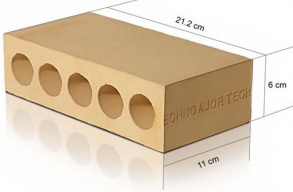
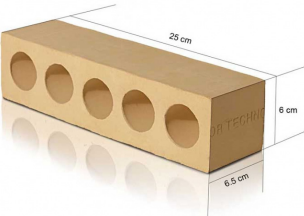
Developing and improving our country's cultural and educational patrimony through local initiatives and investments have been among the main principles of TAMC's management. To this extent, we have established and donated several schools in different cities of Iran.

- Karim Ghabaian School-Mahidasht district of Kermanshah
- Morteza Ghabaian School-Qasr-e-Shirin
- Anahita Ghabaian School-Kermanshah province
- Atousa Ghabaian School- Kermanshah
- Haj Ahmad Ghabaian School- Kermanshah
- Bita Ghabaian School -Foroonabad/ Pakdasht
- A new school is also under construction in the village of Tanordol/Sarab Niloofar District of Kermanshah

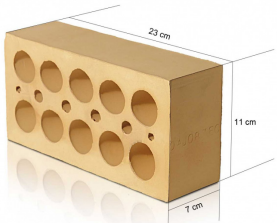
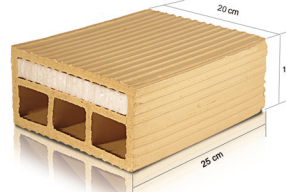
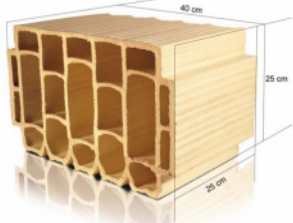
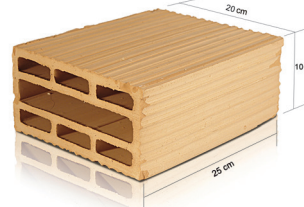

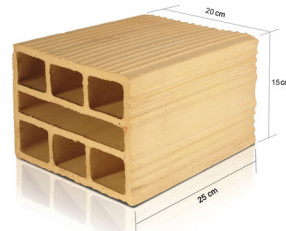

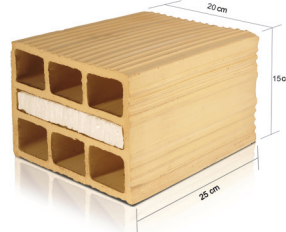




# Products

Code	Name	Picture and Size	Weight	Code	Name	Picture and Size	Weight
A1	5.5cm Facing Brick		1280 g	A6	22cm Half Brick		3360 g
A3	11cm Facing Brick		2500 g	A8	Russian Facing Brick		2230 g
A4	5.5cm Half Brick		840 g	A11	8.8 Russian Brick Pallets (for export)		2840 g
A5	11cm Half Brick		1680 g	A9	Half Russian Bricks		1200 g



Code	Name	Picture and Size	Weight	Code	Name	Picture and Size	Weight
A10	Iraqi Facing Brick		1800 g	T6	10cm Wall Brick with Foam		3500-3600 g
B2	25cm Roof Blocks		10650 g	T7	10cm Wall Brick Designed for Foam		3500 g
T1	7cm Wall Brick		2420 g	T3	15cm Wall Brick		4000-4300 g
T2	10cm Wall Brick		3500 g	A9	15cm Wall Brick with Foam		4000-4300 g



# Physical and Chemical Characteristics

Discription of Experiments	Results	Acceptable Range
Brick Shape	Perforated	The ratio between the volume of the holes to the volume of the brick should be less than %25
Total wall thickness of the holes along the length (minimum)	38.73%	35%
Total wall thickness of the holes along the width (minimum)	47.50%	35%
Fracture	Acceptable	-
Concavity and convexity (maximum)	Acceptable	The Edge of the largest surface 3mm, the edge of the medium surface 1mm
The proportion of dispersion of the holes	Acceptable	-
Average pressure resistance kg/cm <sup>2</sup> (minimum)	280	250
Average pressure resistance wt% (maximum)	15.30	16
Amount of efflorescence on the surface	Low	Low
Soluble components wt% (maximum)	0.4	0.6
Resistance to freeze	-	weight loss 3% maximum







**Factory:**

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**Central Office:**

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Techno Ajar Building

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Techno Ajar Building

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