



Tickroom Construction Group

The first manufacturer of prefabricated concrete houses with new and unique technology



Tickroom Construction Group

Central office phone number: 02166591943 - Management: 09129537670

Head Office: Tehran, Azadi St., Khosh Shamali, Parcham Intersection, Plate 86, Unit 6

Factory: Eshtehard, Eshtehard Industrial Town, Aburihan Blvd., Malasdari West Blvd.,
Golberg St. 3, Golriz St. 4 Plot 1657

Info@Tickroomgroup.com

Tickroomgroup.com

History

The director of the collection, Mr. Shahab Qolizadeh, born in 1354 in East Azarbaijan province. From his childhood, he worked as a family worker with his brothers in skeleton welding and construction facilities, and for 18 years until he was sent to The military service in the same profession gained the necessary expertise and he became interested in researching the styling industry and industrialization and dry construction systems. He increased his experience and gained the necessary expertise by familiarizing himself with systems such as Knaf and later LSF.zigma systems and various construction methods by presenting the current idea in 2000 and implemented his research in 2008. Through trial and error and various tests, he produced industrial samples and introduced them to the Housing and Building Research Department for patenting. They confirmed its applicability after the initial review. The building happened. This complex has also developed in line with the needs of the construction industry. Finally, in 2022, the first industrial plant for material production, installation and implementation was completed and put into operation in the complex with an area of 4500 square meters located in the town. Eshtehard Industrial has established and is currently operating with a capacity of 100 machines of 100 meters per month. It will be possible to increase its production capacity and capacity by adding work shifts and establishing network agencies all over the country.

The future of the company

The future of the company

Due to the increase in the young population and the wear and tear of old buildings, accidents and natural disasters in the war, the lack of raw materials and materials needed for construction, and the lack of infrastructure in the surrounding countries, which forces them to import construction materials from our country and from it. Where we use one-tenth of the conventional building materials, it is free of any kind of waste and construction debris, as well as a suitable option for export to the surrounding countries, especially the countries affected by natural and unnatural hazards.

It is natural that the vision of the development of this work is due to the efforts of high speed, low weight, reasonable price, safety and high quality, and the benefits of the system will soon be used in most parts of the world.

Warranty & permissions

Warranty

All the products of this collection have a two-year warranty and a 10-year after-sales service. Most of the used devices, which are completely standard and up-to-date, have a warranty from the manufacturers.

permissions

According to the procedure governing the construction of the country, the only authority to issue a construction permit after complying with the municipal regulations is through the country's engineering system organization, which is based on the legal definitions and mandatory regulations of the national building regulations, with the preparation of executive plans and the approval of supervising and executive engineers. and facilities, and after the completion of the project, approval and completion of the municipal work will be issued, which is not an exception, and by passing all these letters and national regulations and completely in accordance with technical and engineering principles and international standards In addition, the approval of the Research Organization of the Housing Organization has been obtained in several stages and the necessary tests have been carried out for each product, and most of the materials used have the necessary licenses and standards.



Introducing some of the advantages and achievements of Tick Room buildings

- Two types of innovative building foundations of Tick Room complex

- The first type

Such as the canopies and the trailer chassis, which are flanged together, and the column plate with 6

The number of crepes is connected to that chassis and can be operated up to two floors

It is designed for quick settlement and unexpected events such as flood, earthquake and war

- The second type

Like the war floating bridges made of thick plastic plates and their bulwarks are unlit or injected foam and post-tensioned rebars that form a mesh on top of light concrete such as foundation

It works radially

In areas where there is a risk of landslides or high water table or loose lands that require

It has a pile and it is not possible to create a deep foundation, this type of foundation is the best option

It is attached to the columns with crepe and the ability to float on the water in areas where there is danger

They have tsunamis or floods, and the lands around rivers and the sea are even on ponds and swamps

It can be built up to two floors

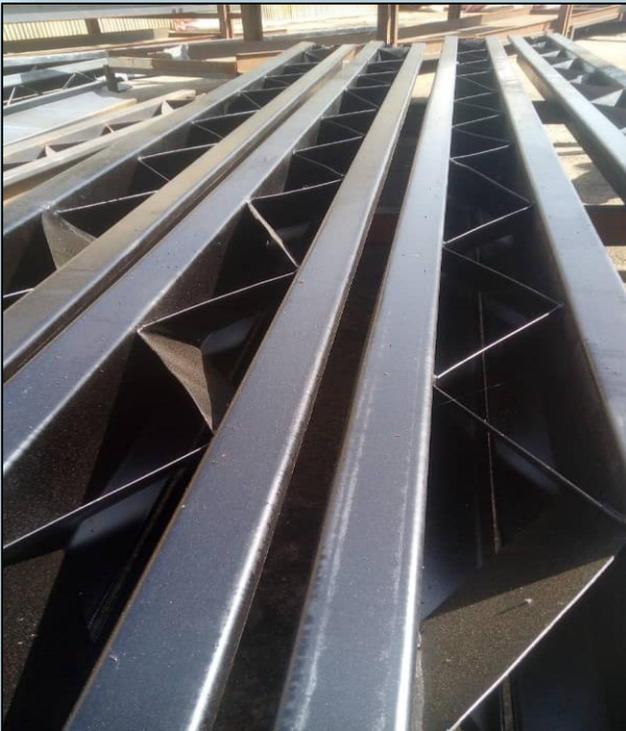
- The third type, which is a common foundation in building construction

Traditional radial or strip foundation

All three types of these foundations can be implemented in Tik-Rom buildings

Columns and metal structures





Columns and metal structures

- How to run

It is in the form of bending or hinged frame connections

The end roof of the attic and the ceilings of the floors instead of chromite beams or IPE or steel deck or

Block beams or other slab roofs in the form of a combination of boxed Z profiles between it

at a distance of 1 meter by 6 meters, two Z boxes with light concrete filler inside in the form of a deck

Steel is implemented and 4 cm of ferrocement style concrete is poured on the roof

It reduces the weight of the roof due to the reduction of the dead load volume and has a higher live load tolerance

And also that it greatly reduces the weight of the building

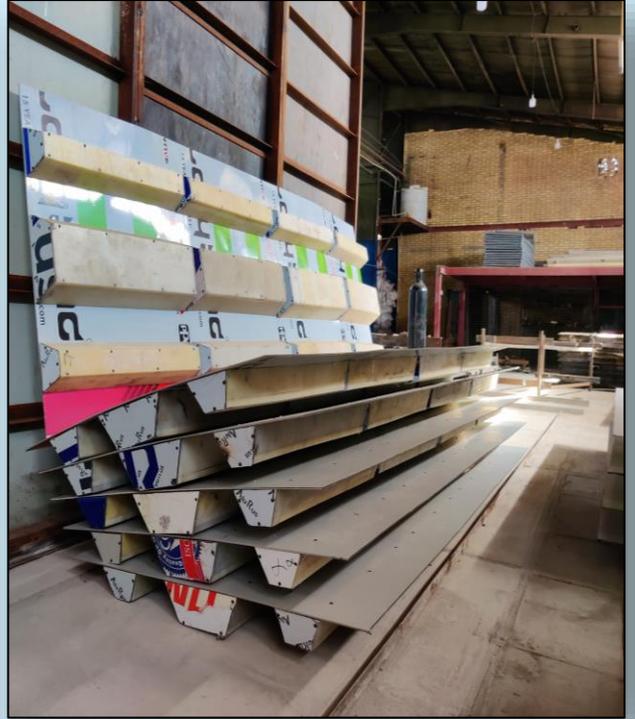
This type of implementation causes a discount in the columns and foundations of the building and beams, and the combined performance of all 4

The method of steel beam and steel deck and industrial beam and chromite and concrete slab to withstand at the same time

It has the incoming stresses, and on the other hand, without using any polymer and bearing direct heat

It has special ability and high resistance up to 1400 degrees Celsius





False ceilings produced in Tick Room collection

- False ceilings produced in Tick Room collection
 - Ceiling and specifications

instead of plaster and kenaf, 300x60 tiles, which are reinforced with rabbits and made of ferrocement concrete

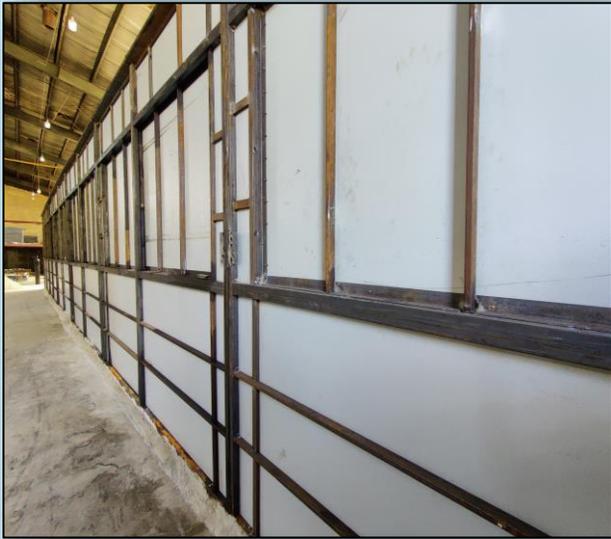
A style that is even lighter than plaster is used with a thickness of 2 to 2.5 cm

With clamp fasteners to Kenaf F profiles that are screwed to the ceiling with screws and within tolerance

The pendant is heavy

It is much cheaper, lighter and faster than the existing false ceilings in the world





Side walls

- Side walls

- Description of implementation and benefits

Made with a thickness of 15 and 20 cm in the outer walls and 10 cm in the inner walls

It has been done that with concrete similar to Hebelx and less weight and more status than it, your face is full and every

Both sides are reinforced with mesh

The ability to be paged without the need for a dowel and the ability to pass the facilities due to the passage of the pipes

It has an installation inside the wall at the time of construction in the factory

Door sills and window frames and room doors do not need frames, and the walls do not need to be framed at the time of installation

The crotch and the tongue are involved

In addition to the wall, the stud posts are connected in the form of a frame with wires that are possible

It makes it impossible to separate the walls from each other

Sealing with a layer of plastic paper and heat dryer that is completely sealed

Walls, the ability to stick any tile, stone, wallpaper and any other covering with the ability

It has isolation and facade before execution

Side walls

Heat resistant up to 1400°C direct and indestructible without tools like Hilti

The ability to cut and the possibility of being loaded and the possibility of placing all kinds of layers inside the wall, including lead

War zones for bulletproofing the building

It does not need whitewash and facade plastering

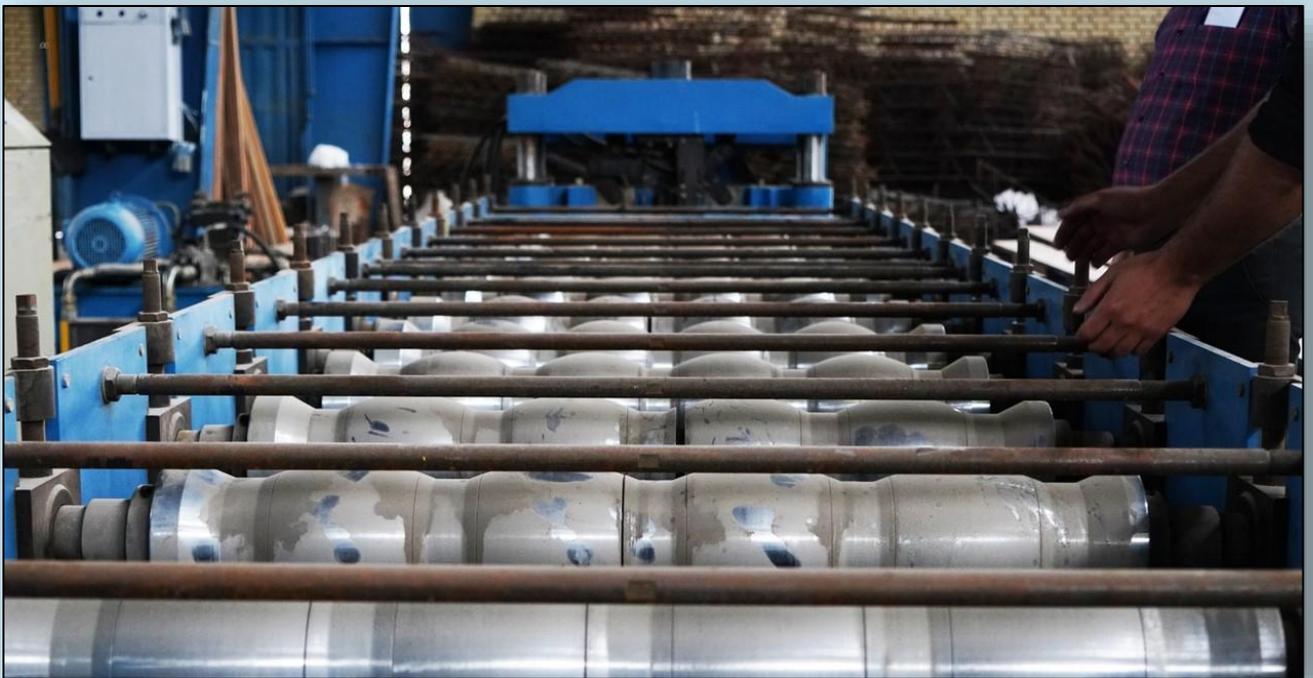
It is busy and has very precise angles

The execution speed is extremely high and its weight is low and no water is used in the construction system

Dryness is one of its other features

It is a very strong sound insulation, so that it has up to 75 decibels of sound resistance, while the standard

Sound for buildings in the world is 45 decibels



Wall and facade coverings

- Wall and facade coverings

- How to cover the walls

Covering the walls with microbial nanopolymers with the ability to print eco solvent up to 3 meters wide by this

Collection

The possibility of 3D wall paper with an epoxy coating layer, which in addition to withstand temperature, pressure and insulation

It has a special beauty similar to very expensive imported marble sheets for the walls of the building

which is produced at the price of one-twentieth of its foreign samples

With a layer of sprayed bitumen, in addition to isolation, it is the cheapest glue that can be used in the building

which also helps to make the building fireproof and in case of severe fire in Kathari

It disappears in seconds and prevents the spread of fire and its continuation to other floors and units

By removing additional materials and decorations such as stone, ceramics, cement, plastering, tiles,

Ceramics and flooring make the weight of the building very low

All kinds of parquet floors, marble sheets and nature pictures and 3D ceilings with

The customer's order can be printed and executed

Doors and windows used in teak-room buildings

- Types of doors and locks

Produced with wood and plastic granules with special compounds of this collection, which in addition to strength

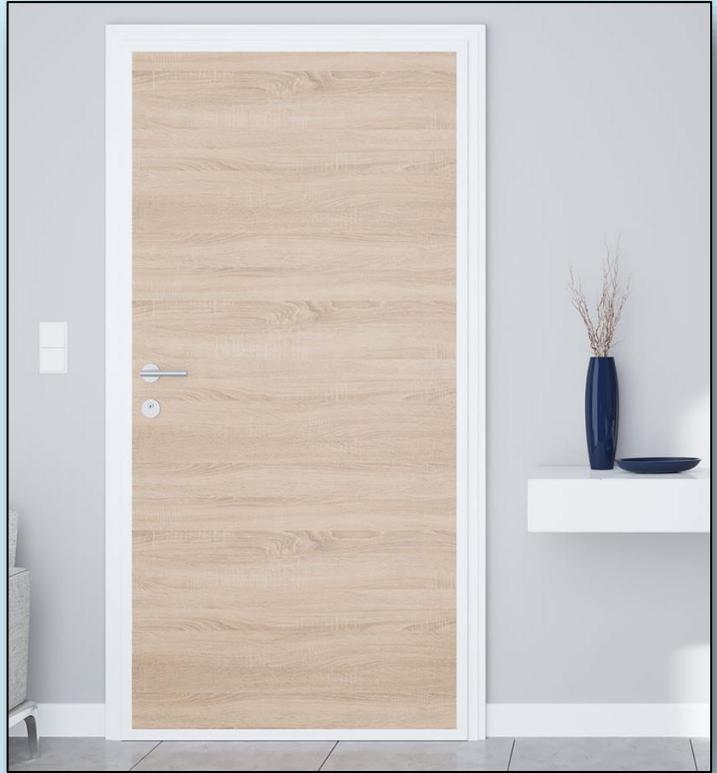
More than UPVC, it has the properties of wood and the ability to paint and shape profiles

It has the desired shape for building decorations.

Production equipment for UPVC doors and windows







The pre-institutional method of implementing the facilities

- The pre-institutional method of implementing the facilities

- Facilities system and separation of waste from the source

By separating chemical waste water from recyclable water such as gutters, bathrooms and washrooms, which is 50%

The consumption is included with a 3-stage filter, the construction of this set includes paper, resin composition

And sand and activated carbon are connected to the system at a cost of less than 5 million tomans, and the resulting water in

High quality washing and irrigation of green spaces can be used

Separation of waste from the source in wet and dry form with special ducts for installations that use pipes and wires

Minimizes and eases troubleshooting and accessibility, and costs up to a fifth

Decreases

Marble sheet production equipment



Intelligentization of tick room buildings

Intelligentization of tick room buildings

- Smartening and optimization of energy consumption

Tick Room collection in smartening their buildings from knowledge-based companies with cost

About 20 million Tomans are installed and used for each building. This subject is also optimal

Building and reducing energy consumption adds other special features to the building, such as a camera

Closed circuit, removal of iPhone image, emotion mode (motion sensors) to turn off the light

Additional and automatic temperature adjustment and less consumption of water, electricity and gas in the country, which are included in these statistics

We are the most used statistics in the world

heat and cooling and hot water exchanger



Combined heat and cooling and hot water exchanger

- **Combined heat and cooling and hot water exchanger**

- **Features of the heat exchanger made by this set**

Removal of packages, air conditioners, water coolers, chillers and aluminum radiators and piping and wiring

Additional by installing this heat exchanger in the building

Low electricity consumption and the possibility of using solar electricity and even car battery and being rechargeable with

Solar electricity

In addition to aerating and capturing dust and ionizing through a UV lamp, it can be sterilized

It has the exhaust air (decontamination) and you can also use the air through the split ducts

Made it fragrant and pleasant

It has a few facilities and its cost is one tenth of the facilities used in conventional buildings

and can be installed for buildings from 5 thousand to 10 thousand cubic meters in 1 to 4 floors

It produces up to 200 liters of water per day from air



The above points show the difference between Tik-Rum buildings and other conventional buildings

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Also, in addition to the mentioned advantages

- Ability to store and depot for unexpected events
- Very high execution speed
- Low weight
- Earthquake resistance
- Fire resistant
- Strong sound and moisture insulation
- Elimination of additional labor force
- Zero building waste and waste, which is very friendly to nature
- Helping the family economy with low and smart energy consumption
- Low price and increase in people's purchasing power

The ability to export and earn foreign currency for the country and the strategic power of industrial building technology

which is the monopoly of several countries in the world

The above points show the difference between Tik-Rum buildings and other conventional buildings

- Great beauty
- Greater strength and longevity
- Can be bulletproof in military and war zones and can be anti-radiation in the laboratory

I see

- Perfectly compatible with Iranian culture and the 4 climates governing the climate of Iran
- Complete implementation of a two-story building in 20 working days with a team of 8 people
- Lowest machinery and production overhead costs

Examples of proposed projects



بسمه تعالی

شماره: ۳-۱۳۸۷
تاریخ: ۸۷/۱/۳۱
پیوست:

جمهوری اسلامی ایران
وزارت مسکن و شهرسازی
مرکز تحقیقات ساختمان و مسکن



جناب آقای شهاب قلی زاده

با سلام

احتراماً، بازگشت به نامه مورخ ۸۷/۱/۲۴ جنابعالی در خصوص طرح دیوار پیشنهادی به اطلاع می‌رساند. اجرای دیوار با استفاده از ستونک فلزی و بلوک‌های سبک فاق و زبانه‌ای بدون استفاده از ملات به عنوان جداکننده قابل اجرا بوده و نیاز دارد از نظر درزبندی، آکوستیک و انرژی مورد بررسی و آزمایش قرار گیرد.

دکتر طیبه پرهیزکار

معاون تحقیقات



جمهوری اسلامی ایران
وزارت صنایع و معادن ایران

پروانه بهره‌برداری

تاریخ بهره‌برداری	۱۳۸۱
شماره سابقه تاسیس	۶ / ۳ / ۴ / ۶
شماره پروانه بهره‌برداری	۳۰۱ / ۲۱۱۷۰

آقای/خانم: صنایع کاربردی
 نشانی: شرکت تعاونی همون
 شهر، بلوک ۳۵، قطعه شماره ۱۶۵۷
 با توجه به راه‌اندازی و دستیابی آن واحد به انجام عملیات تولید انبوه، این پروانه جهت تولید محصولات زیر و به منظور استفاده از مزایای قانونی آن اعطاء می‌گردد.

محصولات جانبی	ظرفیت سالانه	واحد	تعداد شیفت	شماره شناسایی کالا
۱- اطاق و تجهیزات	۴۰۰	تن	یک	۳۹۱۹۱۴۴۰
۲- خط رنگ	(چهار صد)			
۳-				
۴-				
۵-				
محصولات جانبی				
۱-				
۲-				

مختار قانون
 رئیس سازمان صنایع و معادن استان تهران

تذکار:

وزارت صنایع و معادن هیچگونه تعهدی در قبال تامین منابع مالی، اعم از ارزی و ریالی و مواد اولیه نخواهد داشت.
 • توجه دارنده این پروانه را به مفاد مندرج در ظهر این برگ جلب می‌نماید.
 توضیحات لازم در پشت پروانه درج شده است.





THANK YOU

FOR YOUR ATTENTION

WWW.TICKROOMGROUP.COM

INFO@TICKROOMGROUP.COM