



Urban Furniture Company of Azin

Inventor of colored polymer concrete tables with guide signs and driving

Inventor of prefabricated bike path (green route)

Registration number: 49237 (Limited liability)



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- Since 1983, the production and implementation of X-75 ceilings and styling ceilings in Akhgar Gholhak Tower, National Library of Hemmat, Saman-fault Tower complexes, Damavand Andishe, Set of residential towers of sepah in Region 4 Tehran...

-Production of Concrete floors with colored rocks and variety of designs without using chemical colors, designable and appropriate to the mental health of the community, and the production of colored concrete tables with natural color. 22 mineral rocks for parks, including works performed in Tehran Park Garden. And in all the 22 districts of Tehran, Isfahan Municipality and the city of Isfahan province

-The inventor of polymer concrete tables with traffic signs and driving for the comprehensive use of all municipalities, the urbanization of public and private parking lots and villas and places that need to beautify and standardize and quality.

-Production of anti-abrasion flooring with granulation and special mix design and special - production method and various designs and special geometric shapes of this unit and heavy and heavy concrete for use on sidewalks and parks, parking lots and car doors due to the high pressure resistance and anti-wear properties of the mixing plan and since the year 1361, when the factory started operating was under the direction of Mr. Hossein nokte Dan.



Introduction

Concrete tables are one of the most used concrete parts in road and urban planning. Concrete tables are usually used as separators between two different retrieval environments and are most used in landscaping and landscaping. Annually, due to the destruction of concrete tables, the durability of the destructive factors (ice and melting cycles, crystallization, etc.) is heavily imposed on the organizations responsible for urban services and citizens. Since the production method of concrete tables has a significant impact on their durability against destructive factors, familiarity with different methods of production and their advantages and disadvantages can help in selecting the appropriate table according to the environmental conditions.



Tables with lenses

Properties of polymer concrete :

1. Bending strength and pressure up to 4 times the ordinary concrete
 2. Long life in the worst weather conditions (chlorine, sulfate, Glacial cycle)
 3. Anti-wear
 4. Economic premise
- In ordinary concrete in our normal state, we do not allow more than 15 percent of the use of metal rocks.

In polymeric concrete, combined with metal rocks with homogeneous mineral polymers, we are allowed to use up to 80 percent of the metal rocks.

Application of metal rocks in this type of concrete :

1. Bending strength and pressure up to 4 times the ordinary concrete
2. Anti-abrasion of parts
3. Color stability against abrasion



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What are the polymeric concrete parts and what is the difference with the presses, cement plast, vibrate ?

Polymer concrete is a combination of metal rocks and 9 parts of the mineral and excellent polymers that has its own method of production.



Stream of ima -isfahan

Maintenance method after production in polymer concrete

The piece enters the pallet after 24 hours, all of which is cured by nylon, and is maintained for up to 8 days with moisture and heat from the polymer inside the pallet, and this completes the production process.

Transportation and Fare

in conventional prefabricated concrete parts, in order to achieve the desired resistance, they will inevitably increase the thickness of the piece, which will increase the weight and volume of the piece, resulting in a higher fare and low running speed. In polymeric concrete, the strength of the piece is high and the thickness of it decreases, which reduces the cost of the fare and increases the speed of execution.

Economic Advantages of Polymer Concrete Components

- 1 No need to demolish and carry waste of worn tables
- 2 The color of the piece and the need for color
- 3 Durability of up to 15 years
- 4 Low cost in shipping
- 5 High speed on run

In polymer concrete, a piece of metal gypsum is taken, which makes it more exposed to wear and tear, more polished and more vivid, and the use of metal rocks gives the anti-wearing effect to the piece.

The use of chemical polymers in polymer concrete

In normal concrete, the rod adds cement to get high resistance. Increasing the amount of cement in concrete in the short term will reduce the flexural strength of the piece, but the cement has 1 weak point in concrete, which is the creation of hair cracks in concrete which the higher the amount of energy consumed, the hair cracks are added. This suggests in the long run that absorption of high-level adsorption of sulfate and chlorofluorocarbons against the freezing cycle and in general shortening the life of the piece. In polymer concrete, chemical polymers have overcome this weakness of the cement. This is the case, which is 24 hours after the production of parts in pallets that are packed with nylon, and the way of entering and leaving the air is closed. The polymer used in concrete with heat and moisture is released into the pallet and for 8 days, it will fill all the cemetery cracks and after 8 days the piece is ready to leave the pallet. Another item that causes difficulty in conventional concrete. Maintenance after production. This type of cast iron parts comes into steaming room after production and is exposed to steam for 8 hours, then it will be transferred to Depo. The same thing in the winter creates a suspicion in concrete, and in the summer the concrete brains become dry and this causes stroke of concrete.



Amadgah Street – Isfahan

Coloring Tables

The municipality annually paints tables 2 or 3 times. The oils are chemically coated with oil after 1 month, with wind blowing like dust and entering the respiratory tract into the lung of people, which is one of the causes of cancer.

Mental health of the community

Today, developed or developing countries are particularly concerned with the mental health of the community. This brings a vibrant, dynamic, and vibrant community. Concrete-polymeric parts with a play of beautiful colors and shapes, and diverse designs have a special look at the mental health of the community.

Advantage of Concrete Polymer Components to Stones

The lower price than the stone, the variety of colors in concrete-polymer parts, which this variety of colors can not be in stone. Expensive rocks such as granite can not last long. One of these reasons is having oxide in the rock. These oxide vessels are evacuated over time and the cracking on the surface of the stone eventually destroys it.



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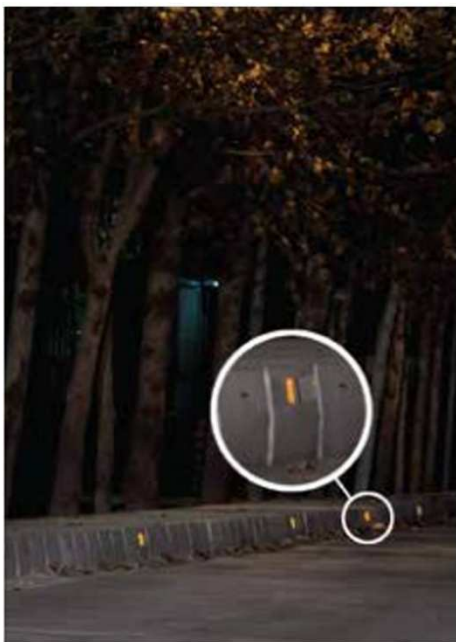
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Environmental impacts

Destruction and carriage of worn tables have brought millions of tons of waste to the environment every year. Using rubtox polymer sheets does not require any debris.



Amadgah Street – Isfahan



Application of Night Vision Lenses

1. Lighting in the night at a distance of 11 meters
2. Beauty at night

Various kinds of night vision lenses and their different uses

1. Cats Eye Lens:

This lens is designed to reflect light, which is deviation Warns the driver.

2. Two cat lens lenses

This lens is embedded in the light reflector and along the path

Warns the driver.

3. Zoom Zen Lens

The dome of this type of lens is at the exit of highways and intersections.



nakhl Street – Isfahan

Product Name	Product Dimensions	Weight (kg)
Retouch table a.p.b.n	72*05*4	12/300
Two lenses tablet a.p.b.n	53*05*8/5	33
Single lens table a.p.b.n	53*05*8/5	33
Simple table a.p.b.n	53*05*8/5	33
Simple table a.p.b.n	72/5*05*8/5	27
Trapezoid lens table a.p.b.n	72/5*05*01 ۷۲/۵*۰۵*۸/۵	33 27
Simple table a.p.b.n	72/5*05*01	33

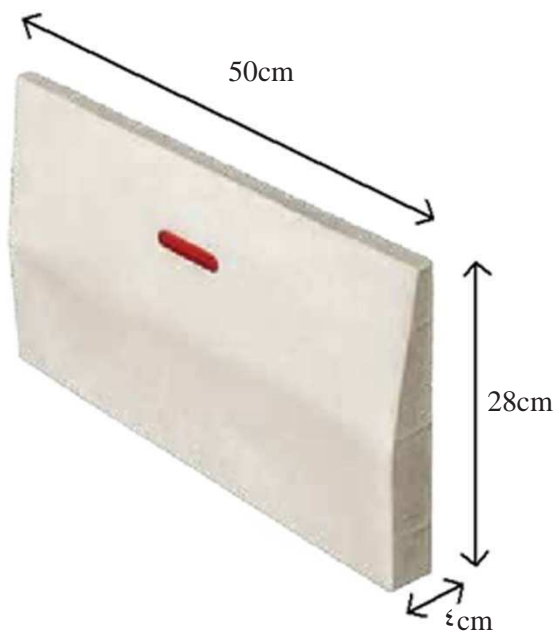


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Retouch Table - Isfahan Saket St. – Isfahan



cm 50*28*4

15 kg : The weight of the piece

Worn tables

One of the problems that most metropolitan municipalities are facing is wearing tables. The wearing of tables has many reasons, which are mainly due to the high absorption of tables in the market, such as perceives or vibrations. For example, in the southern and northern provinces, the influence of chlorine and sulfate mainly results in table degradation and in the metropolises such as Isfahan and Tehran, the frost and fertilizer sulfate used by the municipality for green space after penetrating into the tables penetrated and destroying agricultural land.

At the moment, there are a lot of worn-out tables in metropolises that urban policemen face with many problems to replace them. These problems are:

- 1.High traffic in the main streets has caused urban traffic authorities not to issue a contract to the workshop.
2. The destruction of the tables and carrying the SAPs in spite of very high cost to the municipality is serious harm to the environment.
- 3 . Placing a new table and coloring it has a heavy cost for the municipality
- 4.The shelf life of the tables is low, and after about 2 or 3 years, the same is repeated again
- 5.Finally, the time required for these projects is needed



Retouch Table – Naft city – Ahvaz

Run speed

The retouching table is filled to a distance of 2 centimeters ahead of the worn table and filled with concrete in a range of 250 to 300 grit with a concrete mixture of one percent by weight of cement. Therefore, it is not necessary to equip the workshop to execute the retouching table and, as a result of its implementation, the execution speed is also high .

The space required to run

The space required to execute the retouch table is as large as the space required for colorizing the tables, so no run-time traffic will be created .

Execution cases

Reticulum adhesion with concrete behind the 3-factor causes the retouching table with the mortar to be well-formed. Behind the Retouch tables are quite rough and dusty, which raises the engagement of the mortar .

Another is the use of homogeneous cement materials in the production of retouch tables, and the other is the addition of concrete glue to the mortar, which increases the adhesion of the mortar.



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Reticulated polymer concrete table

Economic justification

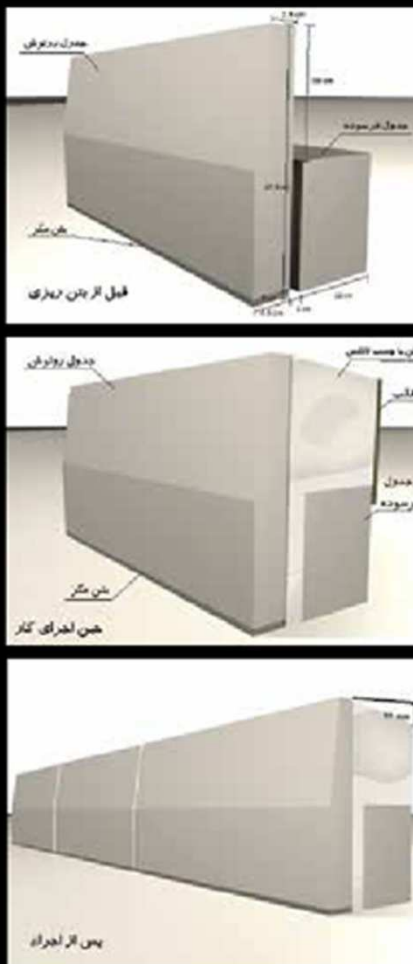
Retouching tables will eliminate problems such as destruction, shredding, and staining. This reduces the cost of a project by between 30% and 35%.



Table of Retouch - Ghods City – Tehran



Rothosh Table - Chamran Bridge – Isfahan



Retouch table

Economic justification of the use of polymer concrete tables

There are currently 5 work items for the restoration of tables:

1. Destruction of tables
2. Carrying out the waste
3. New items and tables
4. Tables execution
5. Paint the tables

The use of polymer concrete tables can remove items 1, 2 and 5, and tables can be attached using rock bindings on damaged tables or with a distance of 2 centimeters, and we were torn between the table and filled the retouch table with two ounces.



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Retouch Table - Special Economic Zone – Mahshahr



Retouch Table - Kosar Town – Isfahan



Retouch Table - Quds City – Tehran



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Retouch Table - El Mohammed Street – Isfahan



Retouch Table - Free Zone of Arvand – Abadan



Zayandeh Rood Margin – Isfahan

Bike path (Green path)

Today, one of the important issues in metropolitan cities is environmental issues, and one of the priorities of urban motors is the reduction of environmental aids. One of the ways to reduce dredges is to use less of a car and to use alternatives such as bicycles. In order to achieve this, it is necessary to build infrastructure and facilities in metropolises. Bicycle use is one of the ways to encourage people to use two cycles, to make beautiful and attractive the route .

In addition to using the European day standards, the city furniture company Ezzin has been developing a pre-made two-cycle route using the design and color of a fascinating road, and this is a great help.

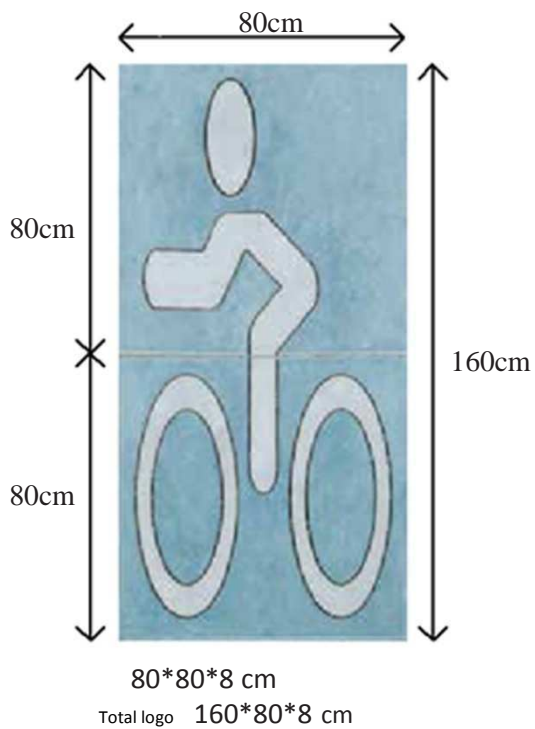


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Stream iman – Isfahan



Piece type:

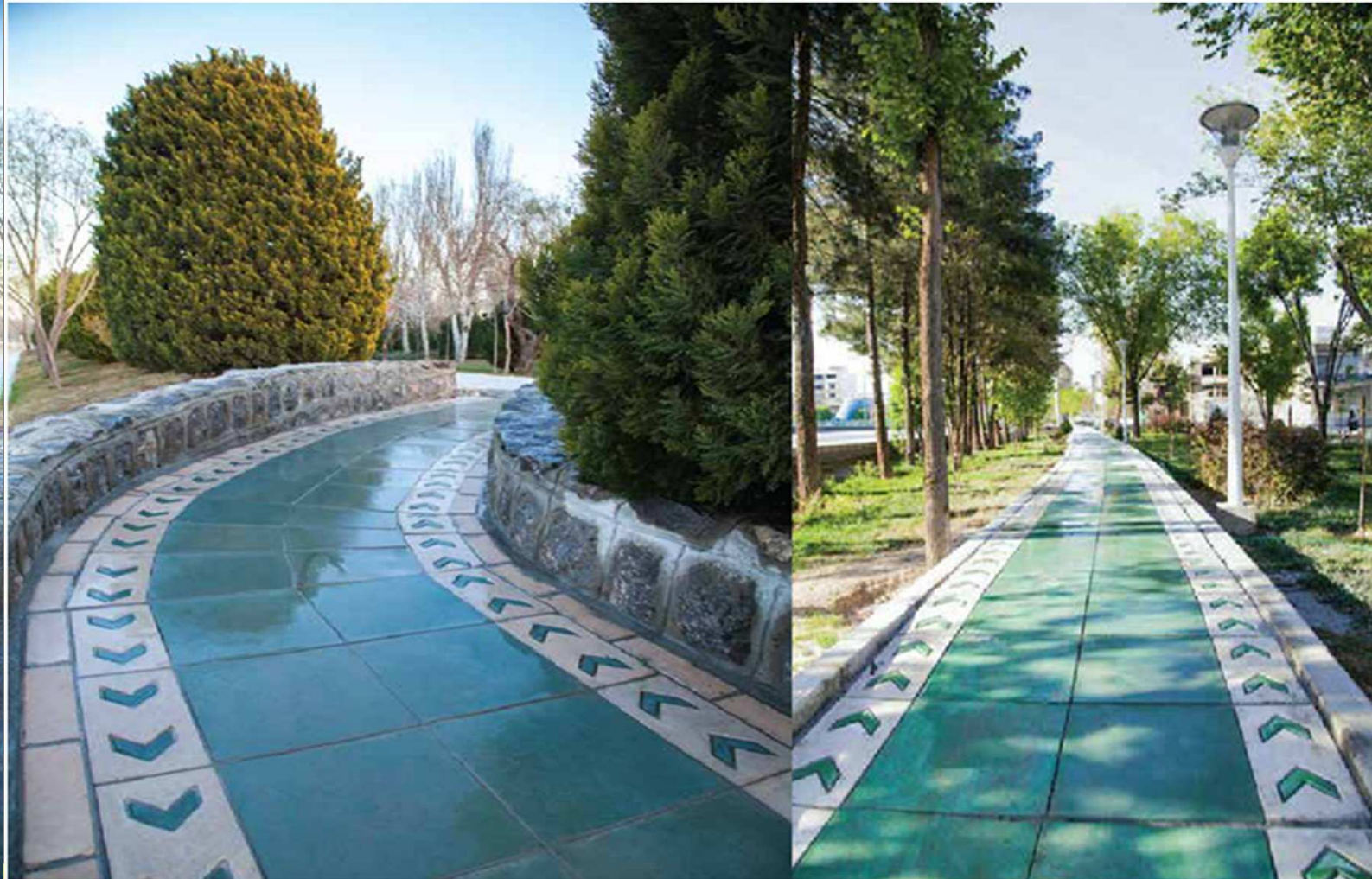
Polymer concrete

Application :

Start the bicycle path and head to each intersection

Advantages :

Very high durability
Color stability
Upper resistance against bending and pressure
Resistant to abrasion
Resistant to frost cycles
Armed with rebar



Kaveh Street and Zayandeh Rood Marginal – Isfahan

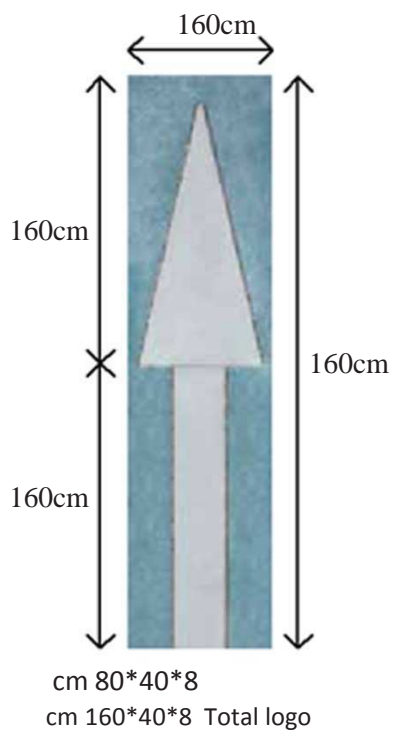


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Kaveh Street – Isfahan



Piece type:

Polymer concrete, armed with rebar

Application :

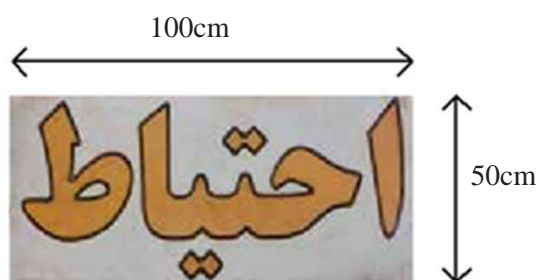
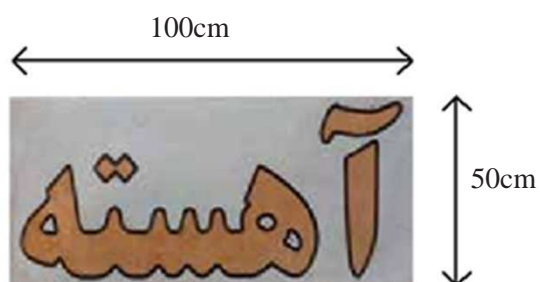
Determine the direction of cycling

operation place:

Two meters ahead of bike logo



Kaveh Street – Isfahan



100*05*9 Every piece cm



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Location :

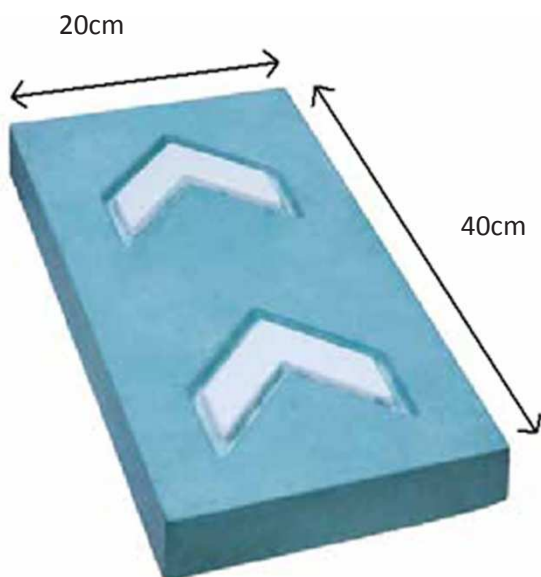
End of the bike path, Near intersections

Prudence : 20 meters before the intersection

Asp : 10 meters before the intersection



Zayandeh Rood Margin – Isfahan



Piece type:

Polymer concrete

Application :

For use along the bike path and guidance of cyclists separating the route and return

Attention:

This piece consists of metal rocks (iron, barite, silica, granite) and 9 parts of imported polymer and its color is mineral and resistant to UV rays and acid rain.



Iranshahr Park – Tehran

Due to the special mix design in this unit, its resistance to bending force and bad weather conditions, such as the freezing cycle, has risen and has a high durability.

An example of the work done in the country:

- 1.Tehran, Ferdowsi Park, Iran. City of the year 1381
- 2.Tehran, Iran. Road to the Kuh-e-Kowak Park of Banafsheh
- 3.Tehran End of Hemmat Highway Shahab Shahr City Performance Year 1382
- 4.Tehran, Khavaran Avenue, Kayak Park, year 1382
- 5.Tehran, Shoush Square, Harandi Park, Haqqani, 1380
- 6.Tehran Subway Station of Metro Station. Execution year 1381
- 7.Isfahan Under the Passage of the Eight Paradise of the Color Table of the Year of
- 8.Isfahan Boulevard in the middle of the four high-rise gardens of the year 1377

It should be noted that the mentioned projects have been visited in 2012 and are still working in high-resistivity and high-resolution colors. The above image was taken from Iranshahr Park in 2012.

In 2013, city furniture companies invented colored polymeric concrete, with the difference that compared to past products instead of stones, metal stones were replaced and three polymer components were added to the work. The same life span of

compression and compressive strengths and components compared to the previous pieces up to 4 times, and brought anti-abrasive anti-wear parts with a very low absorbance of 2.

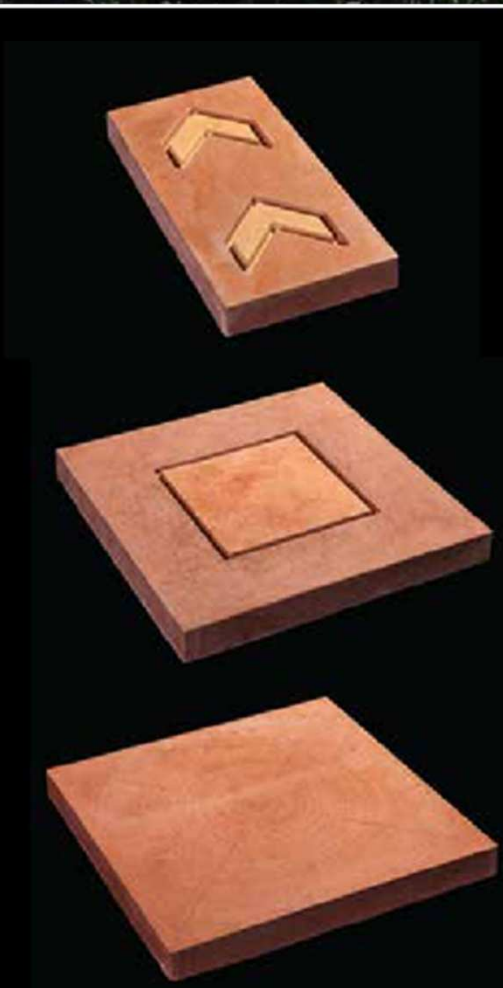


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Executive record

In 1999, this unit succeeded in developing a kind of flooring with a combination of stones, cements and additives such as super-lubricants, which became massive in designs, sizes and colors. This piece is found to be polished after the abrasion and polished color due to the use of colored stones, and the color of the piece is retained for many years .



Naft City – Ahvaz



Speedway - Milad Town – Isfahan



Pedestrian Line - Al-Muhammad Crossroads – Isfahan

Pedestrian lines

One of the problems of municipal traffic areas is pedestrian lines. At the moment, the color of the two-colored, light-colored passage lines is highlighted, with very high prices and very low durability. The barrel lines are completely black after about 3 months and no longer have any visibility for the driver.

Shahrasheni Town Furniture Company has been manufacturing portable prefabricated components, the advantages of which are as follows:

These parts are made of nano-polymer concrete and armed with rebar. Among its features are resistance to flexural and compressive strength, performance without any substrate, resistance to weather conditions and color stability.

The tire on this piece is a cleaning agent, and the more traffic will go on the higher piece, the cleaner and clearer part will appear.

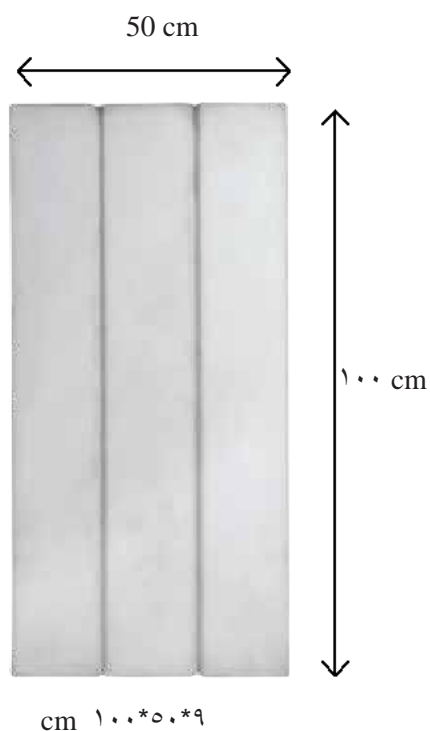


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Pedestrian Line - Shiraz



Station and route of BRT

ایستگاه و مسیر B.R.T

Other applications are the use of prefabricated portable parts at BRT stations and along the length of the BRT. Currently, the BRT has many problems. One of these problems is the lack of proper infrastructure for BRT buses. This causes the leakage of the substructures along the way, or the block of the asphalt bus and the so-called "pipe", until it reaches the bottom of the bus. In some cities, there are many costs to solve this problem, such as deepening the route to 1 meter and pouring concrete, except for the creation of a strong network of rebar and concrete. In this way, after several days, the concrete is cracked and the crack cracks the water in the winter.

Prefabricated sections of 9 * 50 * 100 cm cross-sectional armed with rebar can carry out a 4-centimeter mortar underneath, which reduces dramatically and speeds up work. And because of the color of the piece, it brings a beautiful, colorful design that lasts for years to come.



Delijan mine

Private Mine

Mining rocks located in Delijan city, which contain metal rocks such as barite, iron, quasi-granite, silica, are graded in different sizes and after transfer to work, the house will be used for mixing in different parts .

Application of metal rocks

Advantages of metal rocks in polymer concrete have high resistance to bending and pressure and anti-wearing of parts and supply of paint parts by this type of rocks, which will cause the pores to multiply with time and abrasion .



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قوه قضائیه

سازمان ثبت اسناد و املاک کشور

کوپای نامه ثبت اختراع

۰۶۵۵۶۰ الف/۸۹



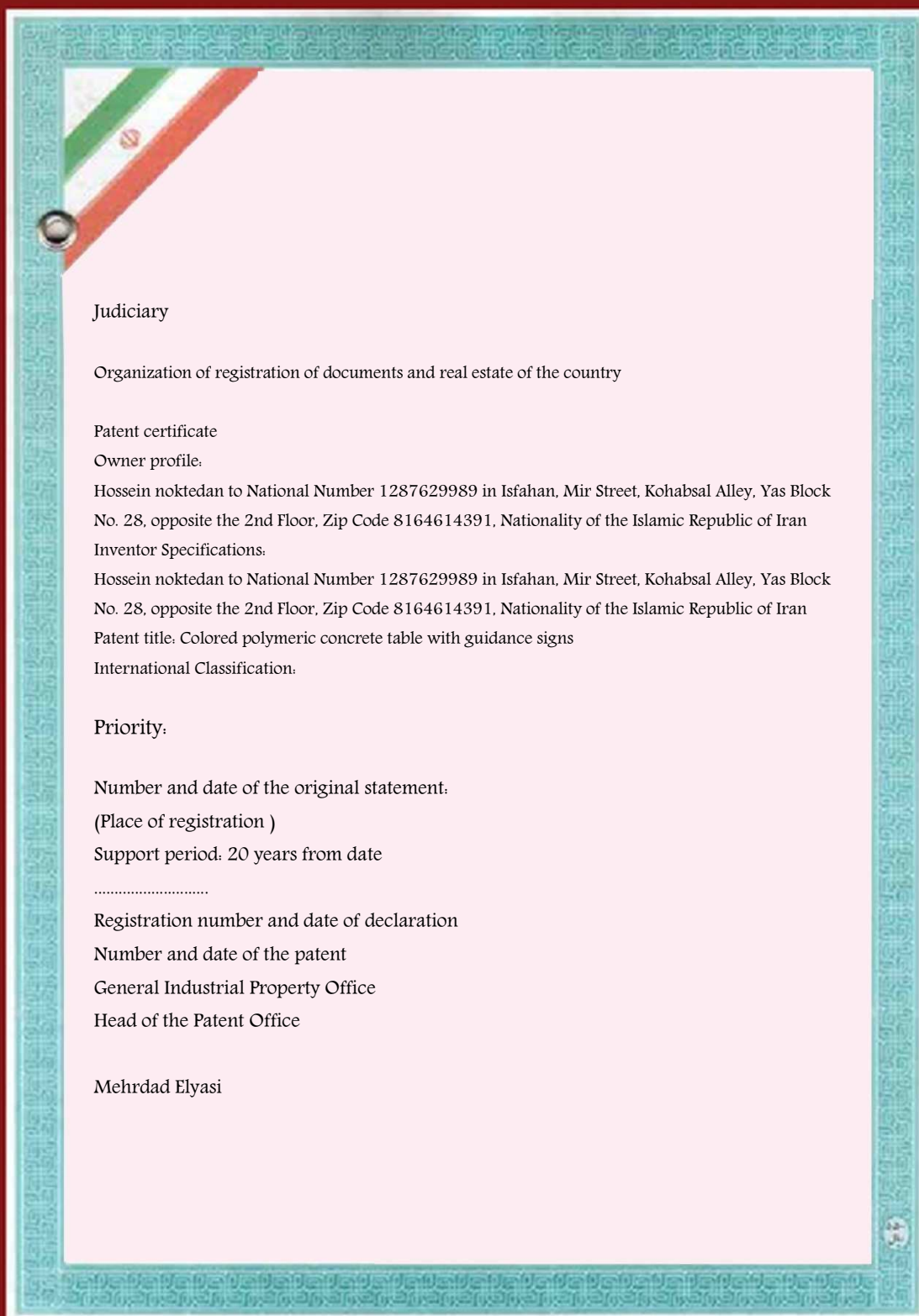
<p>شخصات مالک:</p> <p>حسین نکته دان به شماره ملی ۱۲۸۷۶۲۹۹۸۹ به نشانی اهلبهان - خیابان میر کوچه کوهنسال بن پست یاس پلاک ۲۸ روبه رو طبقه ۲ کد پستی ۸۱۶۴۶۱۲۳۹۱ تابعیت جمهوری اسلامی ایران</p>	
<p>شخصات مخترع:</p> <p>حسین نکته دان به شماره ملی ۱۲۸۷۶۲۹۹۸۹ به نشانی اهلبهان خیابان میر کوچه کوهنسال بن پست یاس پلاک ۲۸ روبه رو طبقه ۲ کد پستی ۸۱۶۴۶۱۲۳۹۱ تابعیت جمهوری اسلامی ایران</p>	
<p>موضوع اختراع: جدول بتن پلیمری رنگی با علامه راهنمایی</p>	
<p>طبقه بندی بین المللی:</p>	
<p>حق تقدم:</p>	
<p>شماره و تاریخ اظهارنامه اصلی:</p>	
<p>شماره و تاریخ ثبت اختراع:</p> <p>۱۳۹۲/۰۵/۲۳ - ۸۲۴۷۲</p>	<p>شماره و تاریخ ثبت اظهارنامه:</p> <p>۱۳۹۲/۱۰/۱۸ - ۱۳۹۳۵۰۱۶۰۰۰۳۰۹۵۸۱</p>
<p>تاریخ ثبت اختراع: ۱۳۹۲/۱۰/۱۸ تا ۱۳۹۲/۱۰/۱۸</p>	
<p>امضاء:</p> <p style="text-align: center;">تاریخ: ۱۳۹۲/۰۶/۰۹</p>	
<p>مهر داد الیاسی</p> <p>رئیس اداره ثبت اختراعات</p>	


● تمام کپی نامه توسط اداره ثبت اختراعات و ثبت اسناد و املاک کشور صادر می شود

● صورت نامه مخترع، مالک یا مخیریت در اب مشروط به پرداخت هزینه کپی می باشد

تاریخ: ۱۳۹۲/۰۶/۰۹







Judiciary

Organization of registration of documents and real estate of the country

Patent certificate

Owner profile.

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Inventor Specifications.

Hossein noktedan to National Number 1287629989 in Isfahan, Mir Street, Kohabsal Alley, Yas Block No. 28, opposite the 2nd Floor, Zip Code 8164614391, Nationality of the Islamic Republic of Iran

Patent title: Colored polymeric concrete table with guidance signs

International Classification:

Priority:

Number and date of the original statement.

(Place of registration)

Support period: 20 years from date

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Registration number and date of declaration

Number and date of the patent

General Industrial Property Office

Head of the Patent Office

Mehrdad Elyasi





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