

Natural Pebble Stones : **Production Process, Market Structure, and End Uses**



Barish Production & Trading Company

2025

1. Overview of Pebble Stones :

Pebble stones are natural or processed stones known for their rounded shape, smooth surface, and long-term durability. They are widely used across landscaping, architectural design, and infrastructure-related applications due to both functional performance and visual appeal.

In international trade, the most common classifications include Pebble Stone, Pebble Stone, and Javarin Stone, each representing a different sourcing and processing approach within the same product family.

2. Raw Material Origin and Stone Types :

Pebble Stone: Naturally formed in Pebble beds through long-term water erosion. These stones are collected, washed, and graded with minimal mechanical processing.

Pebble Stone (Commercial Term): A general market term covering both natural Pebble stones and processed rounded stones used for decorative and construction purposes.

Javarin Stone: Quarry-extracted stone that is crushed, sized, and mechanically tumbled to achieve rounded edges and a polished surface similar to Pebble stones.

This production flexibility allows suppliers to respond to different market requirements regarding availability, consistency, and volume.

3. Processing and Value Creation ,The typical production flow includes :

Quarry extraction or Pebble collection

Controlled crushing and size grading

Tumbling and surface polishing (12– 48 hours)

Washing, drying, and impurity removal

Final sorting and quality control

Each processing stage increases product consistency, usability, and market value, especially for export-oriented applications.

4. Standard Sizes and Specifications :

Pebble stones are typically supplied in multiple size ranges such as:

1-2 / 2-4 / 3-5 / 5-8 / 8-12/ 12-16 Cm

Custom grading is often applied based on project or market requirements.

5. Applications Across Different Markets :

Landscaping and outdoor design

Residential and commercial developments

Hotels, resorts, and hospitality projects

Pools, fountains, and water features

Urban public spaces and infrastructure aesthetics

The material is valued for its durability, low maintenance requirements, and natural appearance.

6. Market Demand and Industry Perspective :

Global demand for pebble and Pebble stones continues to grow, particularly in Gulf countries, Europe, and premium construction markets. Drivers include urban landscaping trends, climate-adapted outdoor design, and the preference for natural materials.

Suppliers with integrated sourcing and processing capabilities are better positioned to ensure continuity, quality control, and cost efficiency.

7. Strategic Outlook :

A structured pebble stone operation offers a clear production logic, tangible assets, and predictable market demand. This creates opportunities for long-term cooperation, operational scaling, and market expansion through aligned strategic interests.

8. What is a Pebble Stone :?

We have seen many Pebble stones or colored Pebble in nature. But polished and uniform stones are not natural Pebble stones in terms of size and color. These decorative Pebble are made of high quality ore stones in the country during a special processing process. And is offered to the domestic and foreign consumer market.

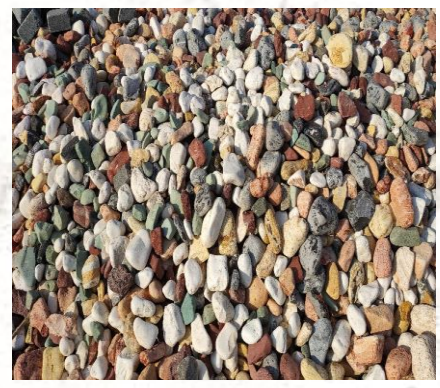


9. How is Pebble Stone?

Contrary to many people's beliefs, Pebble stones are not collected from Pebble beds, and the collection and sale of Pebble stones from Iranian Pebble beds is a crime and is prosecuted.

As mentioned briefly before, today Pebble stones are prepared in the form of stone carcasses from high quality stone mines and in an engineered process are turned into small pieces up to 15 cm and their surface is completely smooth. The quality of paint and durability of these stones against impact and depends on their main mine and also the type of product processing process. And are uniform and will not be broken by impact and displacement and its color will remain constant over time.





10. Where is the most common use of pebble stones?

In gardens, halls, traditional restaurants and... in the form of being under the trees, water path, by the pool, fireplace, fireplace, pavilion..., the use of Pebble stones in green space and at the foot of trees, water evaporates Reduces and is very effective in reducing the growth of weeds and pests and creates a natural and very pleasant effect.

Landscaping with Pebble stones in cities, parks, green spaces covered by municipalities prevents excessive water consumption.

In landscaping, Landscape and ZeriScape residential towers, hotels, commercial complexes, water features and artificial Pebble s create natural and attractive Pebble bed environment.

Fireplace, Roof Garden, Fireplace, ...

By the pools and waterways, large and small aquariums and ...

Interior design of houses and villas for example in fireplace, bathroom, flower storage, aquarium and....

Application of Pebble stone in making handicrafts such as making cups, cup holders, decorating small bags

Decorative Pebble products have a wide range of applications in different countries, some of which are as follows :

- Landscape or the same landscaping
- DryScape and dry landscaping
- Roof garden and garden roof
- Interior architecture
- Decorative gabions and urban furniture
- Urban planning and settlements
- Firepit and fireplace

- Fountain and space by the pools
- Green space

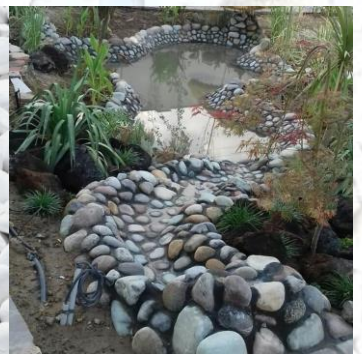
And many more in construction and non-construction projects



11. How to overcome the water crisis with pebble stone :?

Some people and officials believe that due to last year's rains, we have entered the wet season and saving water is no longer necessary. It should be noted here that no scientific source has confirmed the entry of the wet season. Assuming the wet season, it will take several years to make up for the shortage of groundwater reserves.

To adapt to water shortage in the country and future environmental impacts, landscape design, landscape, landscaping and green space should be done with a view to new conditions and restrictions, and dry landscaping (zercape) which is a common solution in the world in the face of conditions and Hot and dry climates and an approach to deal with drought is proposed to replace lawn grass in some urban spaces such as highways and ramps and loop bridges.



12. Save water by maintaining beauty in landscaping and urban green space :

Dry landscaping or so-called xeriscape includes several basic and main issues that the purpose of all these axes is to optimize and save water consumption and at the same time create a landscape, green space and a beautiful and eye-catching area, from the optimal selection of plants to Design and limited and rational use of lawn surfaces and the use of suitable floor cover to replace grass and the use of Pebble, Pebble stone, colored sand, decorative stone or even artificial grass that reduces water consumption by more than seventy percent

13. Reduce maintenance costs and create green space :

Planting grass in urban areas, parks, green space of residential houses and... requires a lot of expenses. Including the cost of infrastructure, buying grass seeds, planting, irrigation and.... But by replacing grass with Pebble stones, you can save on all these costs without reducing the visual beauty.

