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THE
FROZEN
LIFE
STONE



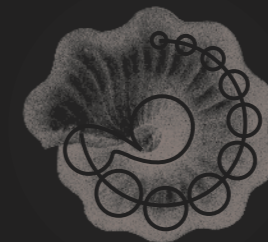
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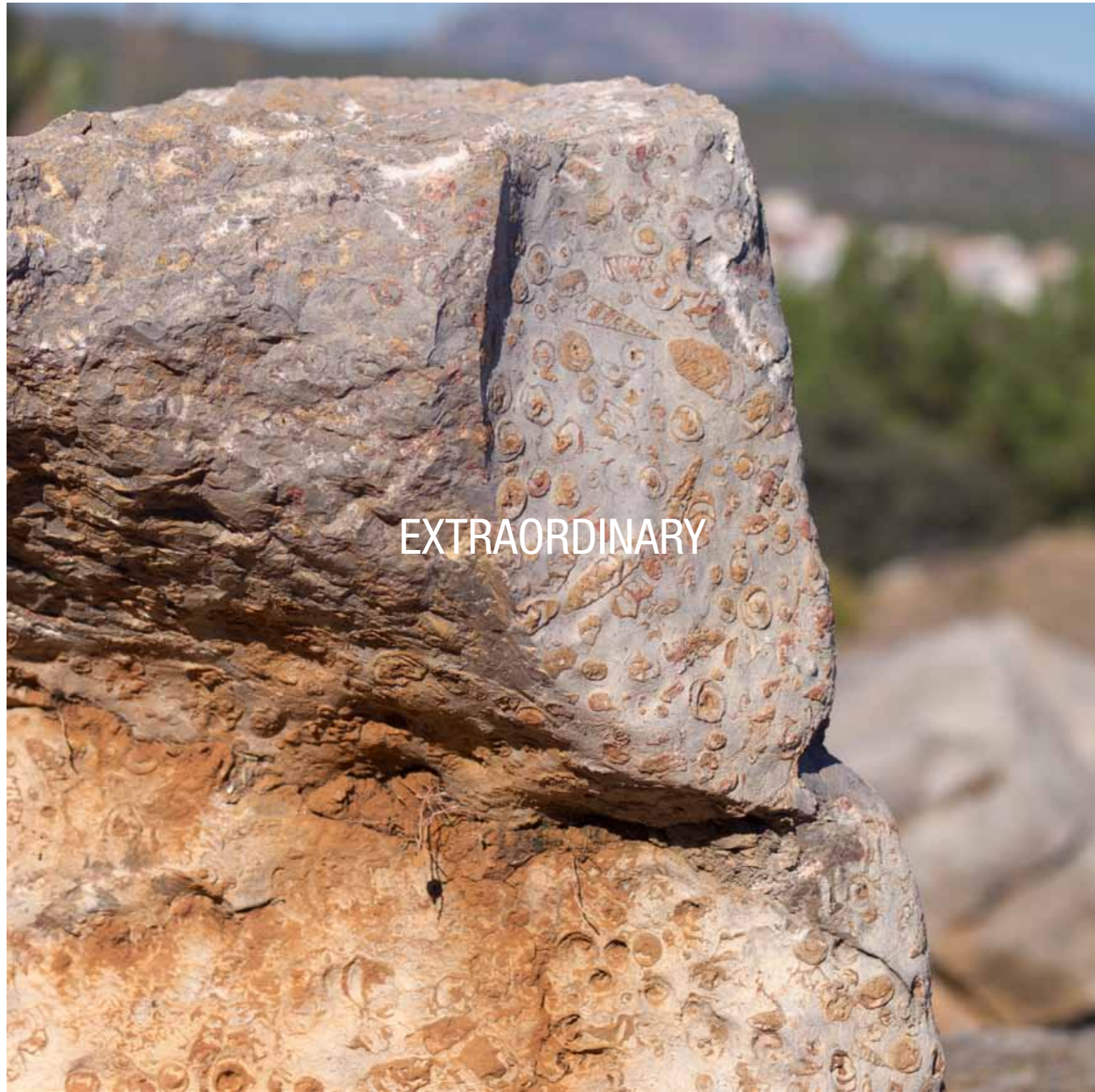


You are about to discover something extraordinary:
a gift from nature, with 150 million years of history.
An amazing treasure that can be touched and felt...

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THE
FROZEN
LIFE
STONE





EXTRAORDINARY





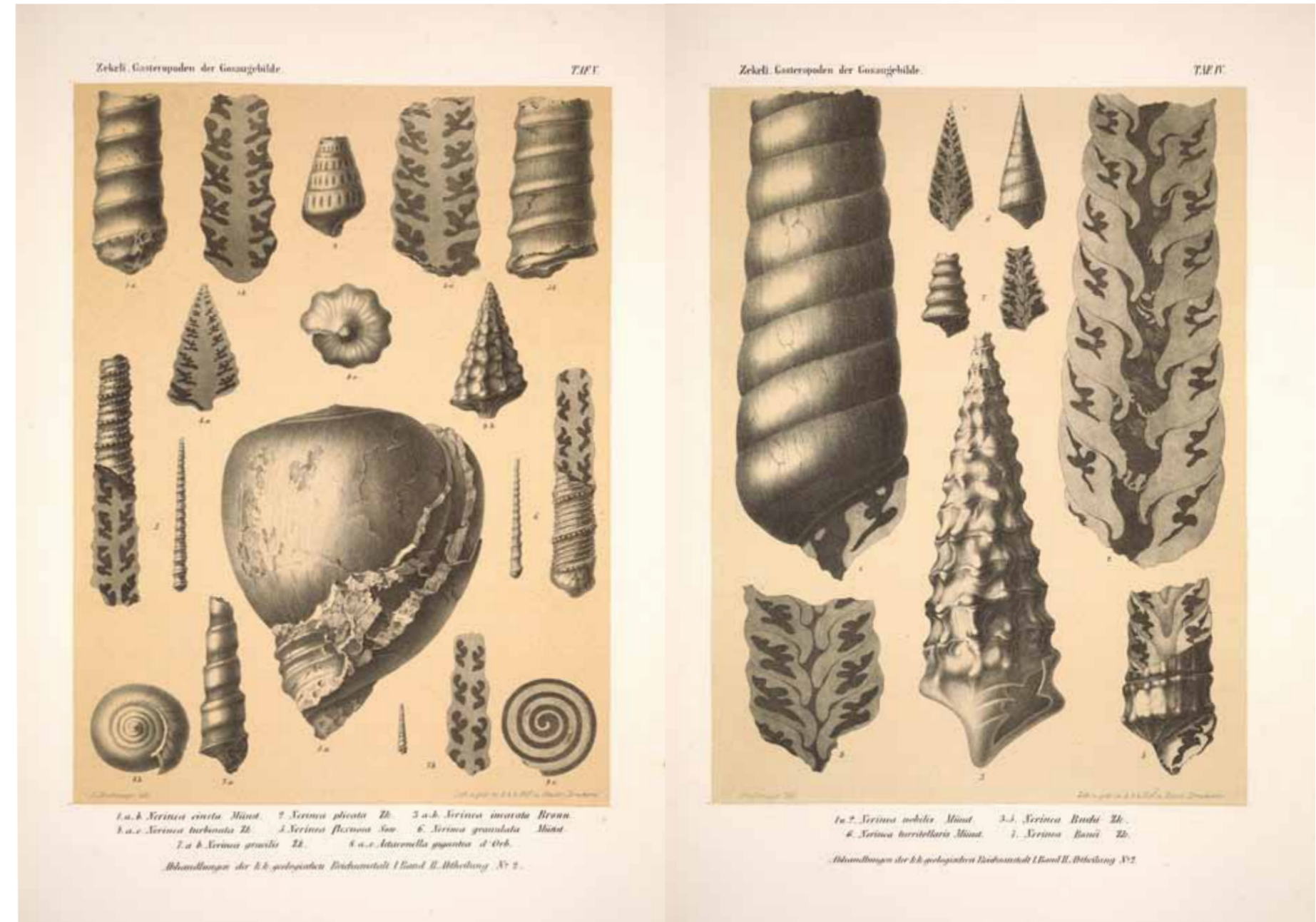
WE ARE TALKING ABOUT REAL LIFE ORIGINS

THE MORPHOLOGY OF NERINEA

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08 - 09



150 MILLION YEARS AGO

150 million years ago, during the Jurassic Period, the seabed was inhabited by numerous dinosaurs and snails, amongst which we find the Nerinea. Million of years later, due to the fossilization, we can rescue the shells of these molluscs and present them in a surprising way, the Nerinea Marble.

The Nerinea is an extinct genus of sea snails, a marine gastropod mollusk in the clade Heterobranchia. The genus could be found from the Jurassic to the Cretaceous period.

A natural phenomenon occurred, causing million of molluscs to settle down on a small area of the seabed. Those shells, together with great pressure, heat and million of years metamorphosed into marble, a very much appreciated limestone.

The Nerinea is a quite common fossil, what is really extraordinary is the huge number of them that we can now find in a small portion of land, and the possibility of extracting this material in blocks. It is also remarkable the quality of the polishing of the material.





THE FROZEN LIFE STONE



Nerinea comes from a Spanish quarry, located at 800 meters above sea level and more than 60km from the coast.



QUARRY

It is a sedimentary formation, formed by many strata with an exceptional concentration of Nerinea fossils. Through their presence, we are able to date with accuracy the period of its formation. The conclusion is that nerineas lived on our planet during the Jurassic period, in the middle of the Mesozoic era, between 145 and 200 million years ago.



The sedimentary formation makes the opencast mining complicated for two reasons: on one hand, the strata have a considerable inclination. On the other hand, there are numerous earth veins. Nevertheless, the extracted blocks are large (more than 4m³) due to the stone's compression.

SEMI-PRECIOUS STONE QUARRY

The potential of Nerinea relies on:

The exclusivity, as it's the only Nerinea quarry in the world.

The history behind each piece: 150 million years, from the Jurassic period.

The peculiarity: being so heterogeneous, each piece is unique.

The shortage, given it's a finite product.

The flexibility, allowing the manufacturing of ad-hoc pieces for each project.

The versatility of use of natural stone, ideal for luxury and elegant semi-precious stone applications.

The capacity of personalization, as the stone can be engraved, remaining unaltered as time goes by.







SEVEN STRATUM LEVELS IN THE QUARRY

Some of the main characteristics common to all the strata are:

- The **heterogeneity of the material's shade**, which can range from light brown, almost greyish, to dark brown mocha. It is also very common the **presence of white veins**.

- **The various layers in each block.** The strata's height, between 40-60cm, makes it necessary to join 2 or 3 strata in order to extract big blocks.
- **The irregular presence of nerinea fossils** in the different strata, abundant in some layers and scarce in others.

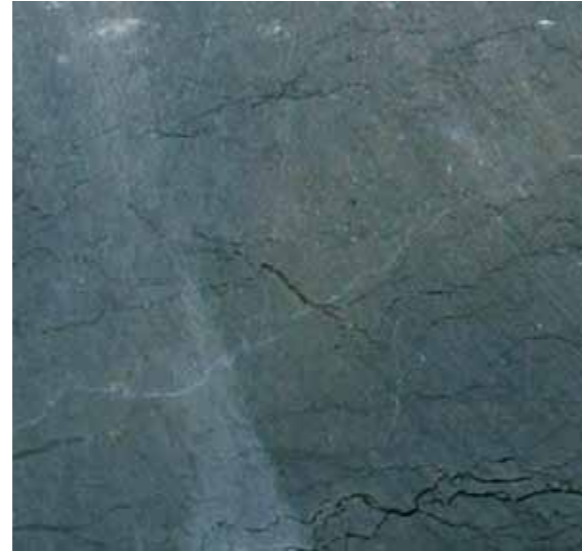
However, their presence and distribution is quite uniform within a same stratum.

- **The necessity to reinforce the blocks before they are sawed**, due to the fact that the chances of fracturing or separation of the strata are high.

- The **presence of micro cracks** in some parts of the strata. Some thin cracks can be found in certain areas of the blocks' sides. Once the boards are polished, the fissures cannot be noticed when touched, resulting in a light shadow.

- The convenience of placing a **netting and resin on the slabs**.
- This material **allows for a variety of finishes**, which are: polish (the result is brilliant shine), flamed, aged, hammered, acid wash...

Strata



Presently we are able to distinguish seven strata in the quarry. In the vertical cuts made greater than 10 meters in height, one can see the spectacular concentration of nerinea fossils. For the extraction of blocks for commercial purposes (over 4m³), 2 or 3 strata are combined in the same block, so as to show similar characteristics with regards tone and degree of fossils concentration. In order to better understand the material and know what to expect from the blocks from different strata, we will provide an analysis:

- **Stratum A:** it is the most superficial of all, which makes it have a variable height due to erosion. It has the largest cracks, making block extraction difficult. The stone's tone is light (light brown, close to greyish) and there is, like in all the rest, variation of tone. There is a high concentration of fossils with varied colours, like ochres, reds and whites. This strata is very scarce since it is the first one to be exploited.

- **Stratum B:** the height is around 60cm. It has a high concentration of fossils of which the majorities are white. The background colour has variations but it is darker than strata A. In order to increase the size of the blocks, they are joined at the height of the first layers of stratum C which has a darker tone and lower concentration of fossils.

- **Stratum C:** 3 layers have been joined with a height of 130cm. The main colour is coffee brown

with variations towards a lighter tone. The sawed block in tablets have a variable fossil concentration: 30% of the tablets have a very small concentration of fossils, almost none. 30% have a small concentration. And the remaining 40% have a high concentration, with mainly white and yellow fossils. Once polished, the material acquires an elegant and timeless beauty, ideal for refined atmospheres.

- **Stratum D:** it is approximately 100cm, with undefined edges and a central zone of 50 cm suitable for sawing, with a light brown tone, and practically no fossils.

- **Stratum E:** the height is 120cm, due to the union of 3 strata with an extraordinary fossil concentration throughout all the strata, with large Nerinea fossils (up to 20cm) in ochre, red and white tones.

- **Stratum F:** from this level onwards there is no further presence of Nerinea fossils. The height is 130cm in 3 different strata, which enables the extraction of large blocks. It has a dark brown tone with a frequent presence of white veins.

- **Stratum G:** this is the last stratum we have extracted until now. The height is 140cm and it is composed of 2 strata. It has similar characteristics as stratum F, in fossils presence and in tone (coffee colour and no fossils).

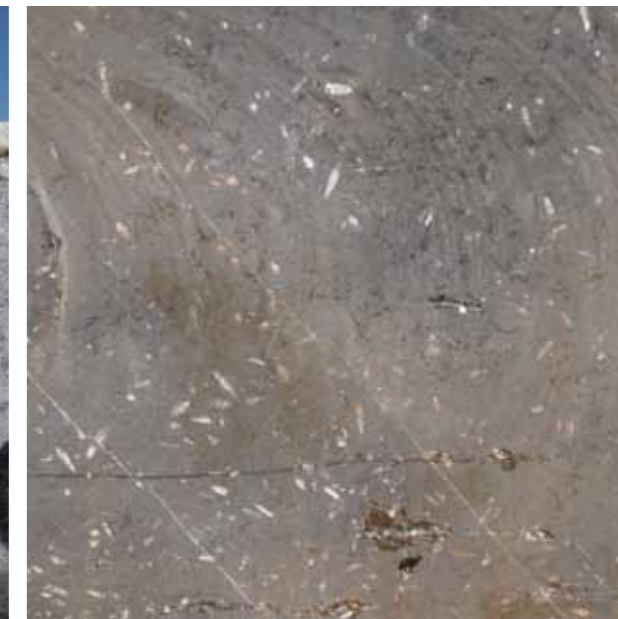
STRATA HETEROGENEITY

EXTRACTED BLOCKS FROM THE QUARRY

We now present a series of **characteristics** which are common to most of the extracted blocks:

- They have a **considerable size**, ranging between 4 and 6m³.
- They all present **several strata**, with a height between 40 and 60cm. The layer where the stratum changes, between 4 and 5cm long, is very well defined (the boards from this area are difficult to use, so we do not recommend them). The stone is very compacted, which facilitates its later transformation into boards.



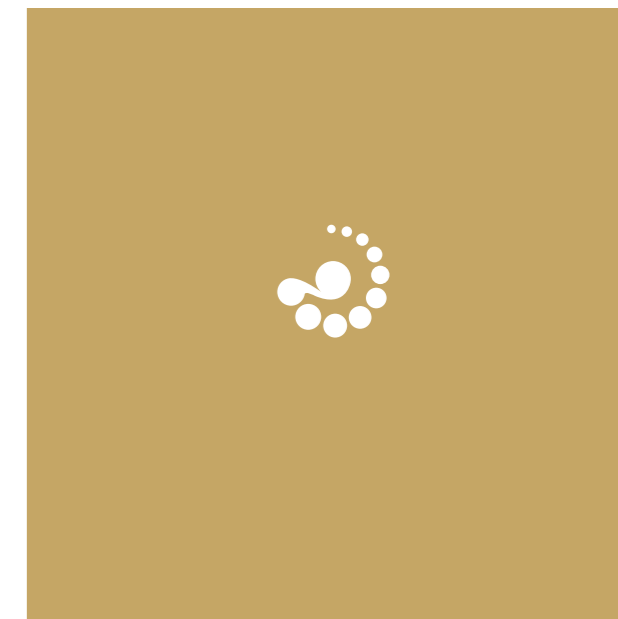


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BLOCKS



- The presence of strata and cracks makes **the reinforcement of the blocks indispensable** before their elaboration. This way, once the block is sawed, the boards keep their integrity despite showing some cracks.
- It is easy to find **white veins and changes in the tone** in some areas of the block, ranging from light to dark brown close to coffee colour. It is also common to find in certain areas small cracks, which you cannot feel upon touching the block surface if made elaborated properly.





- The material has a **single cutting direction, in parallel to the natural stratum**. All the blocks are numbered, indicating the stratum they belong to, and showing parallel lines which indicate the cutting direction.
- Once elaborated, the **slabs show a similar material both in tone and in degree of fossil concentration**. Stratum C is most varied, which displays areas with a mix of high fossil concentration and others with a lower presence, making it ideal for interior design projects.



TIME IN YOUR HANDS

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The slabs show a similar material both in tone and in degree of fossil concentration. Stratum C is most varied, which displays slabs with a mix of high fossil concentration and others with a lower presence. The blocks size makes it easy to produce slabs of about 270x140 cm. The presence of micro cracks makes it convenient to place a net and resin on the slabs. This material allows for a variety of finishes: polish (the result is brilliant shine), flamed, aged, hammered, acid wash...

PHYSICAL AND MECHANICAL FEATURES

- Absorption 0.23%
- Apparent specific gravity 2.69 g/cu. cm³
- Friction abrasion resistance 7.63mm
- Frost resistance 0.05%
- Compressive strength 102.6 MPa
- Bending strength 40cm
- Knoop microhardness 1856 MPa

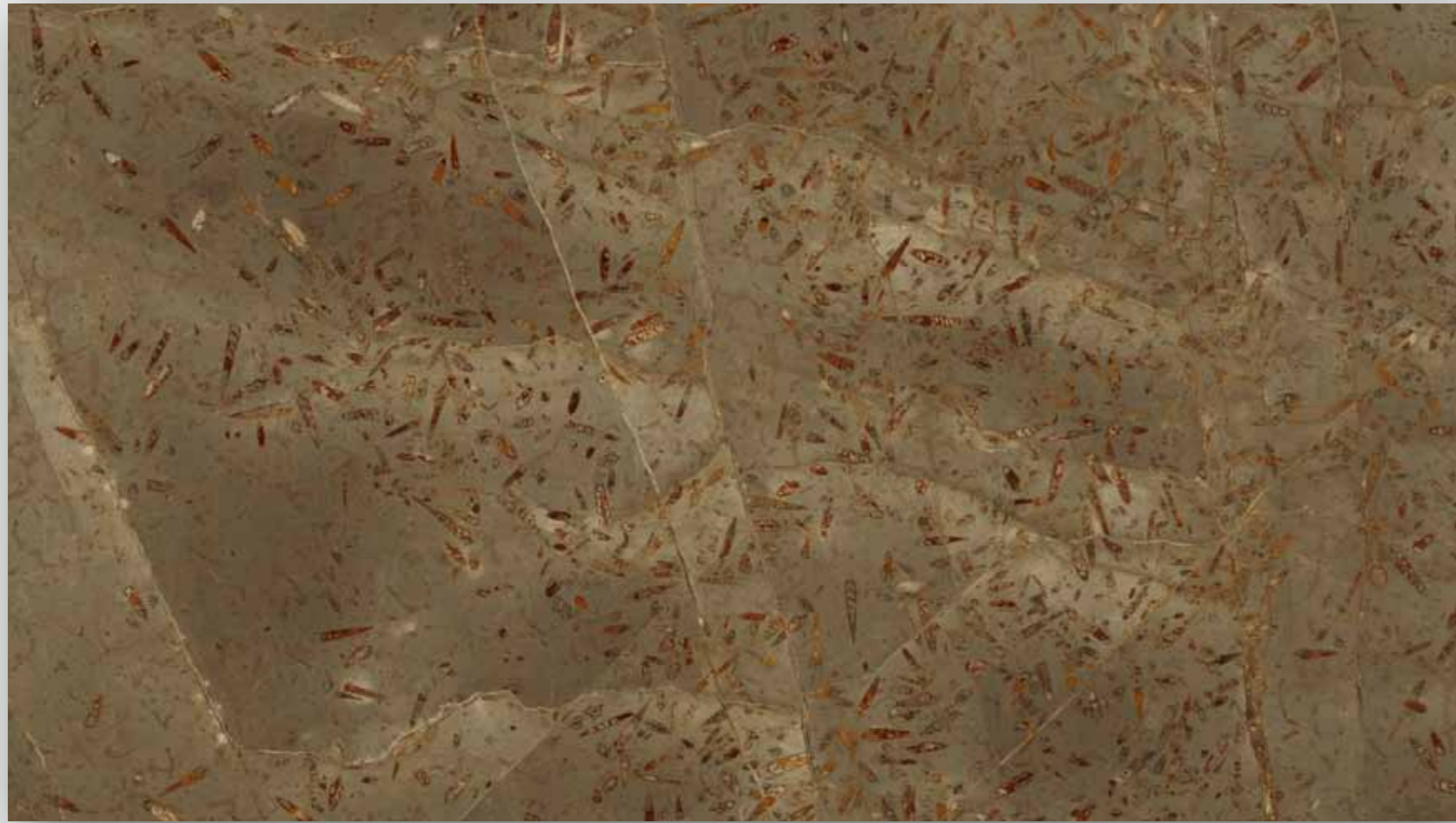
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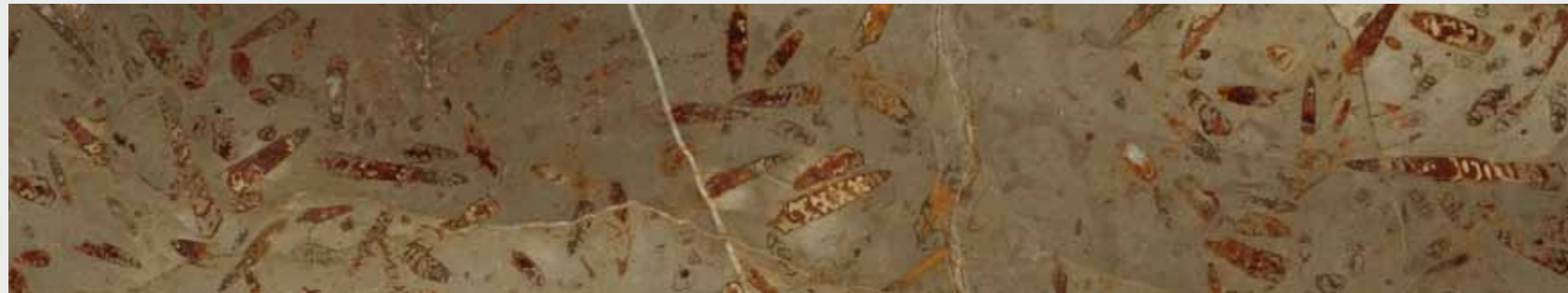
Aged slab. Stratum C



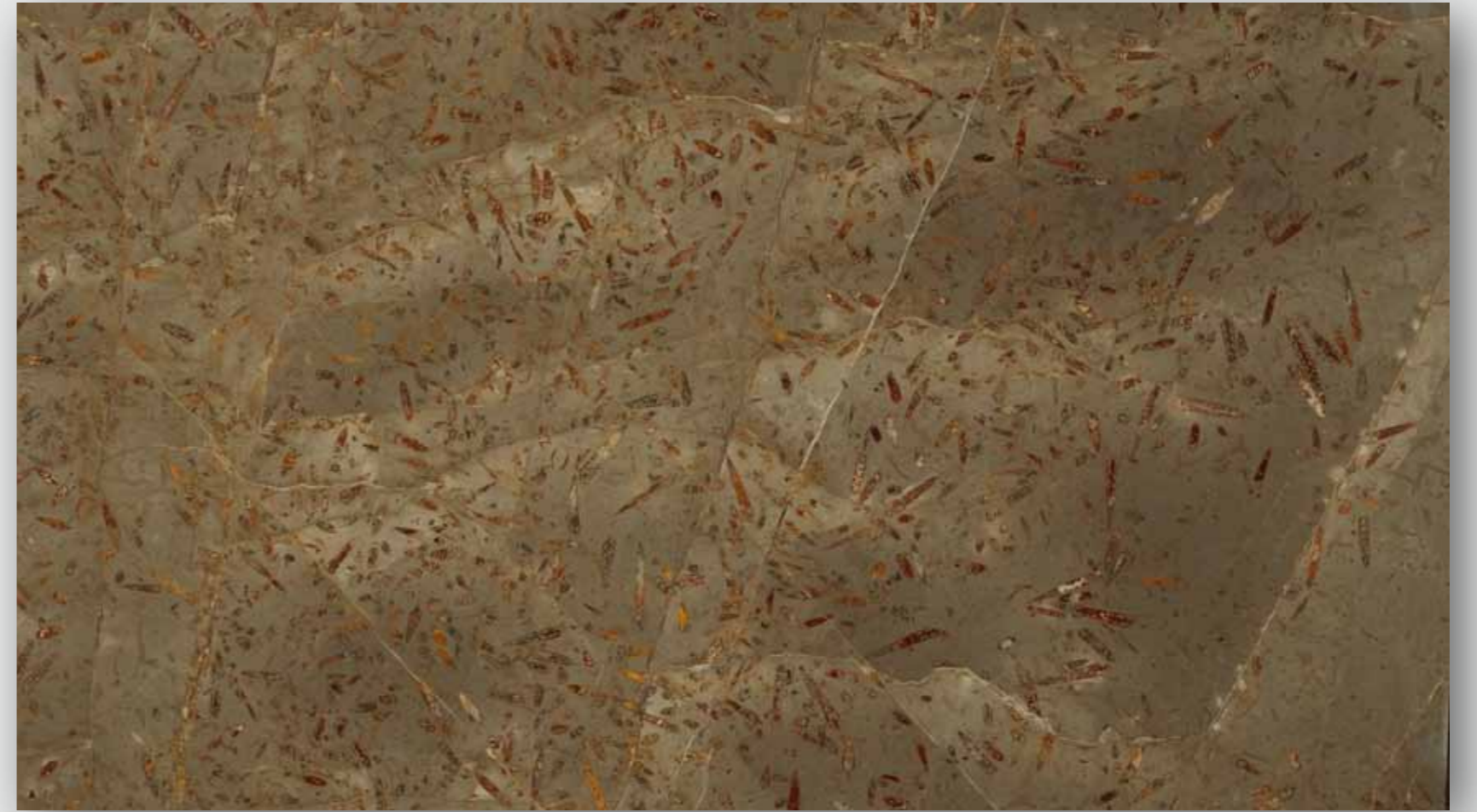
32 - 33



Slab 5930 Polish - Stratum A



⊕ zoom slab 5930

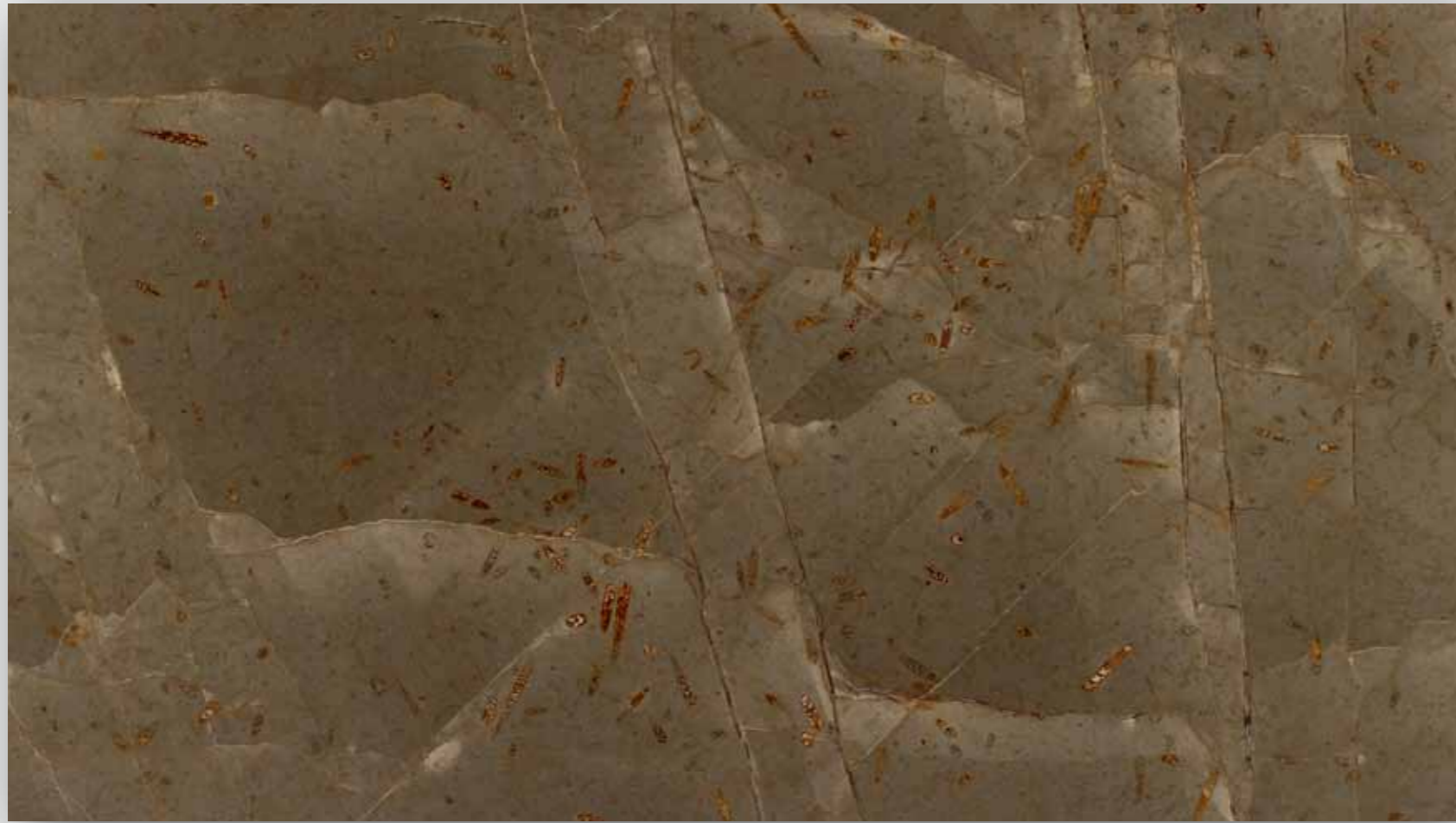


Slab 5931 Polish - Stratum A



⊕ zoom slab 5931

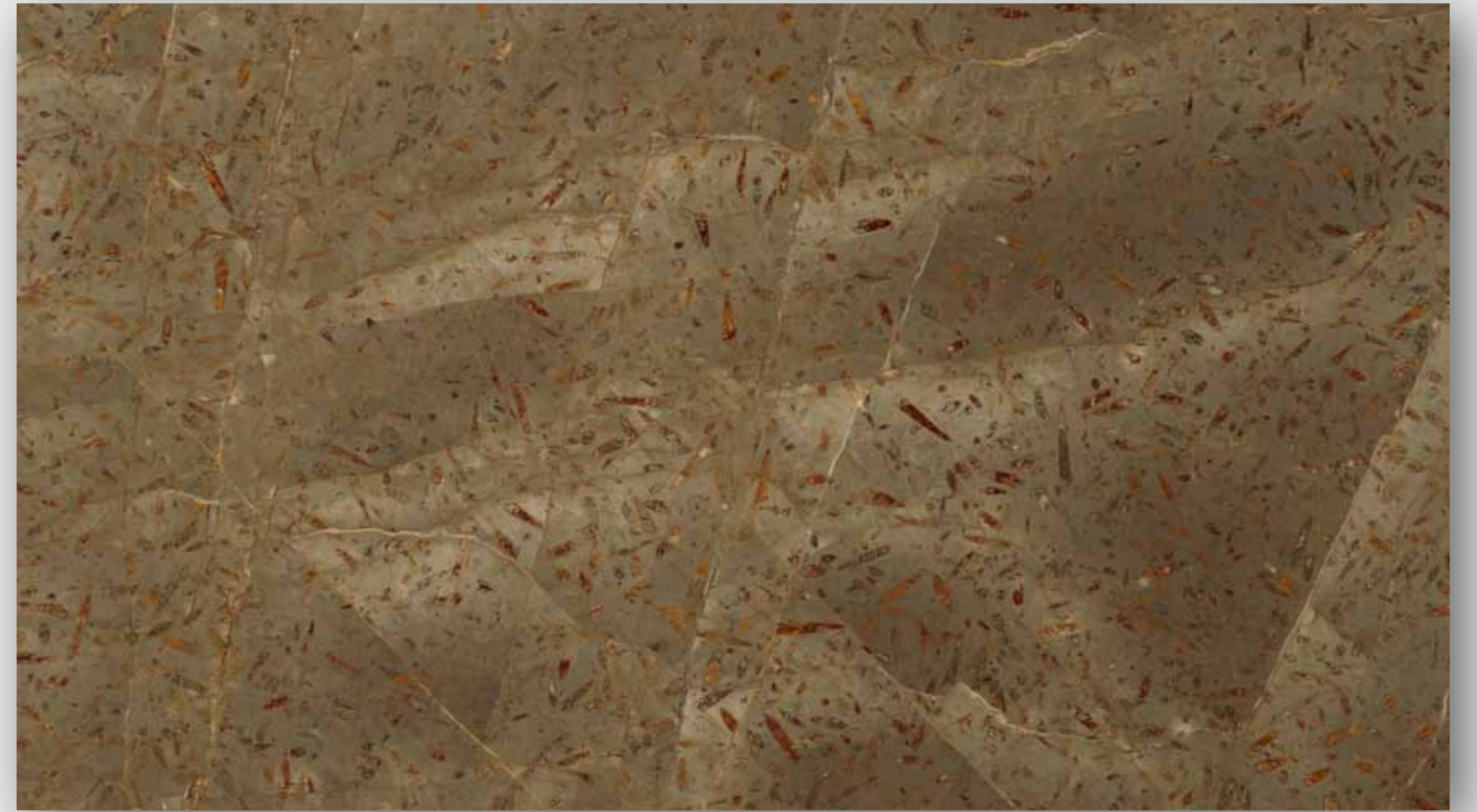
34 - 35



Slab 4961 Polish - Stratum A



⊕ zoom slab 4961



Slab 5927 Polish - Stratum A



⊕ zoom slab 5927

36 - 37



Slab 4943 Polish - Stratum C



+ zoom slab 4943

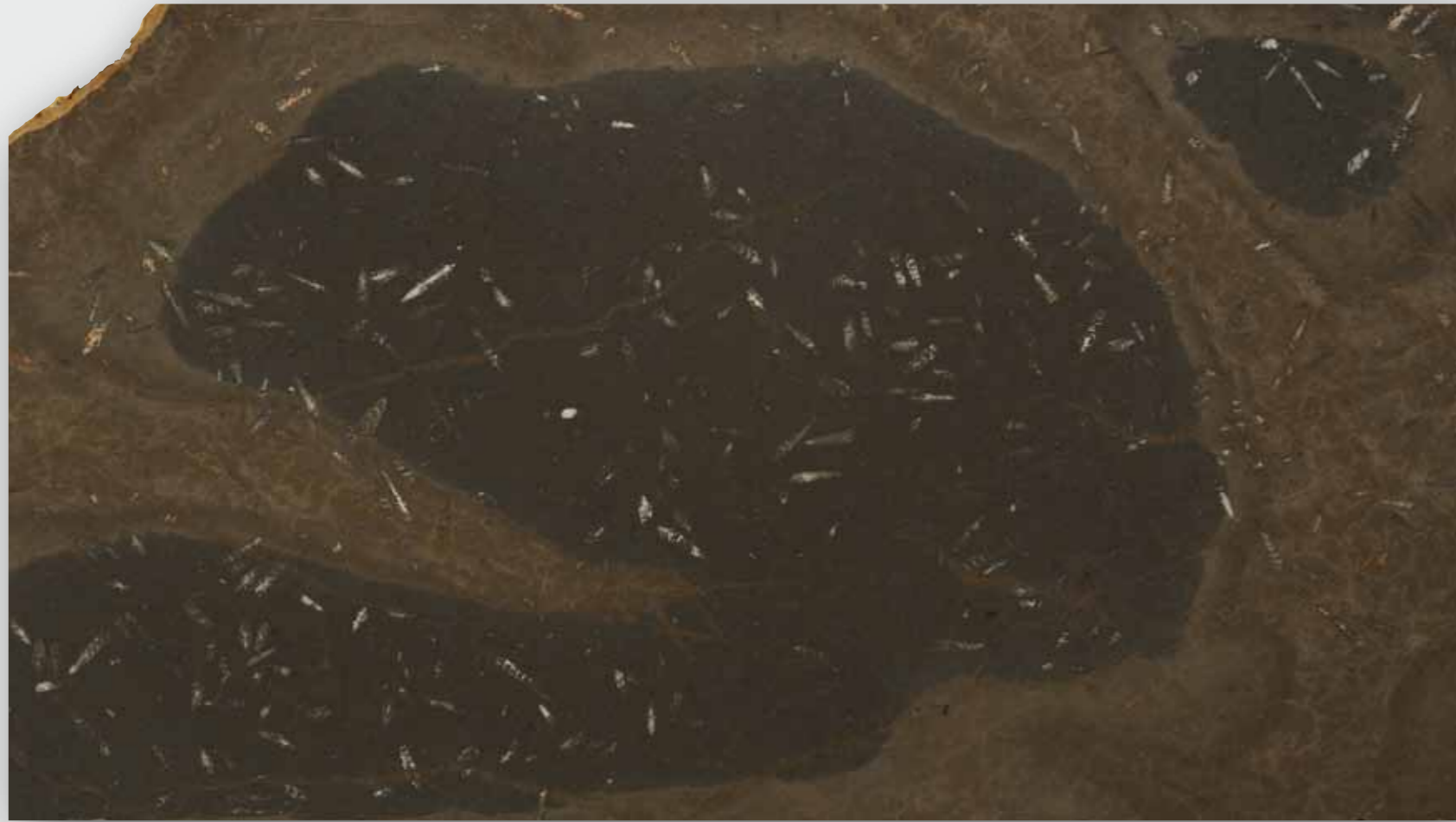


Slab 4949 Polish - Stratum C



+ zoom slab 4949

38 - 39



Slab 5977 Aged - Stratum C



⊕ zoom slab 5977



Slab 5973 Aged - Stratum C

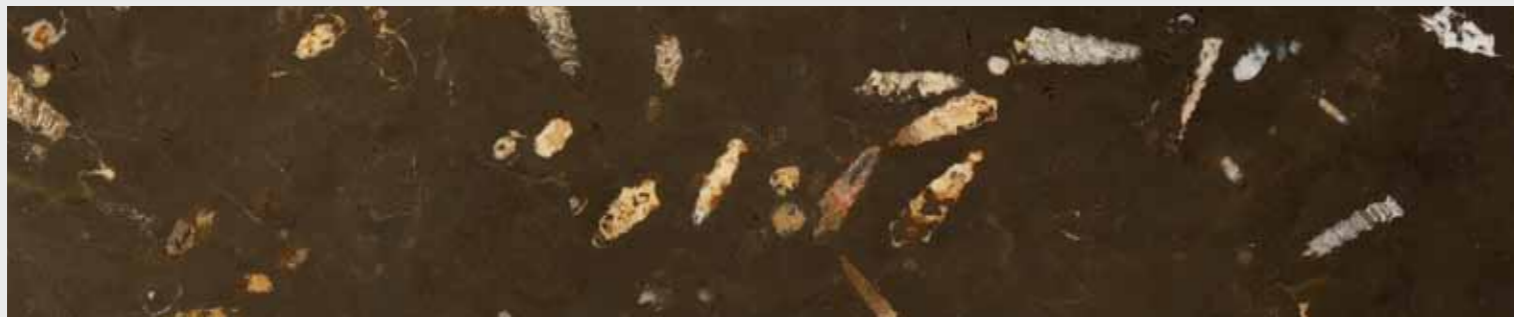


⊕ zoom slab 5973

40 - 41



Slab 4955 Polish - Stratum C



⊕ zoom slab 4955



Slab 4902 Polish - Stratum C



⊕ zoom slab 4902

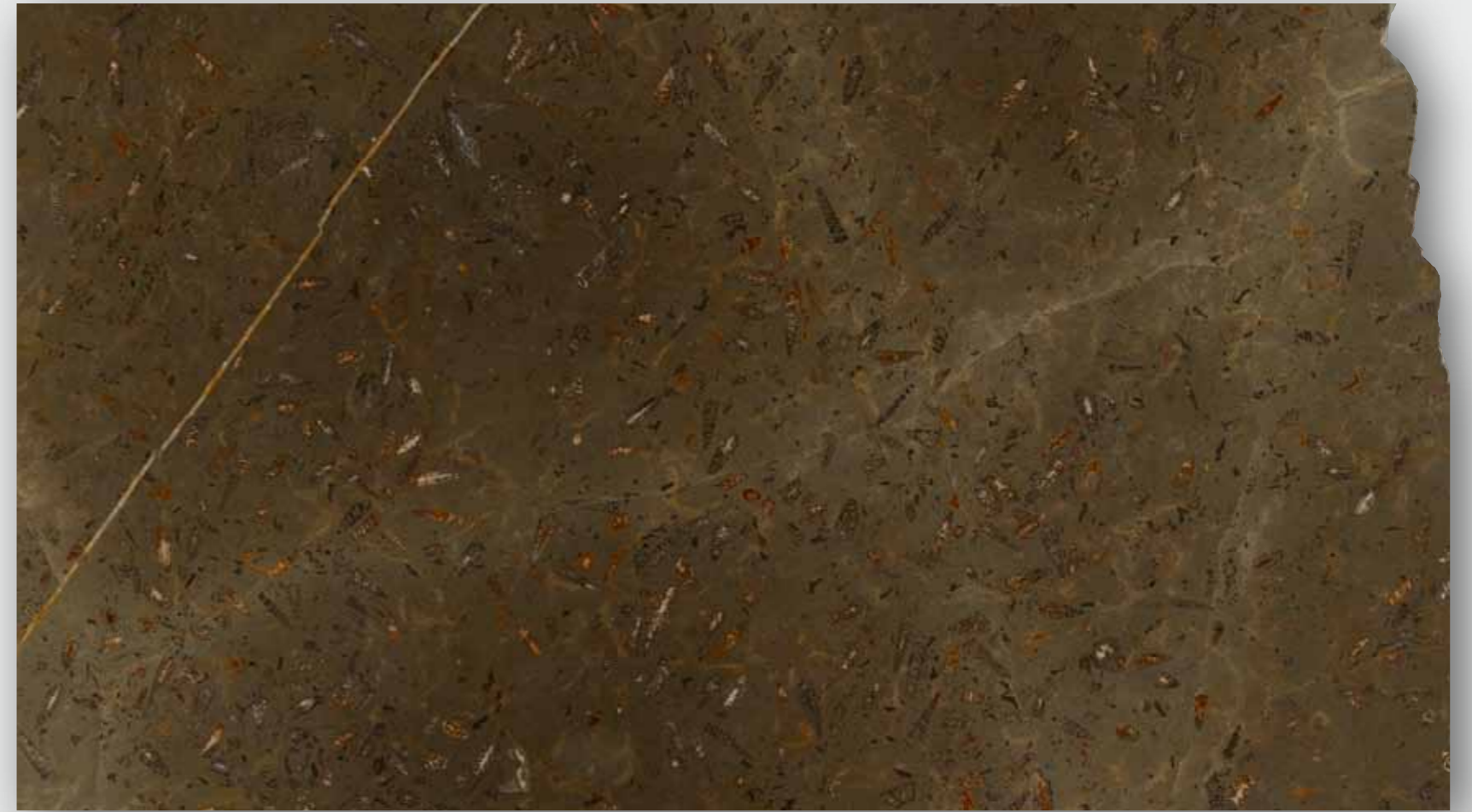
42 - 43



Slab 4979 Polish - Stratum E



+ zoom slab 4979



Slab 4982 Polish - Stratum E



+ zoom slab 4982



Glossy: Glossy finish nerinea, with an intense colouring, bigger in size and in a higher number



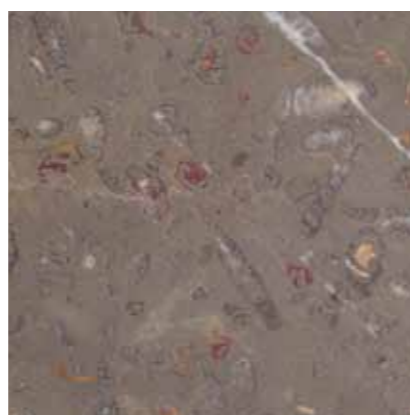
Matt



Volumen touch etched with acid



Deep touch sandblasted



Soft touch aged with a velvety finishing

samples

Five different finishings.
Heterogeneous and always unique samples. Because they are natural stones and the quirk of nature marks the difference.

sculpture

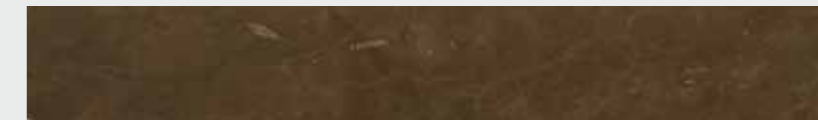
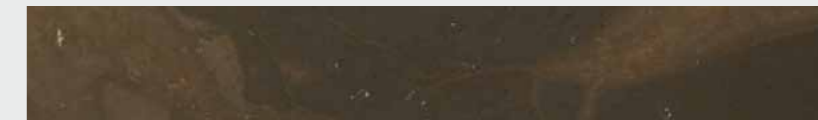
The application of Nerineas go beyond and your imagination, with sculputure and decorative elements. Each piece is unique.



STRATUM: A



STRATUM: C



STRATUM: E

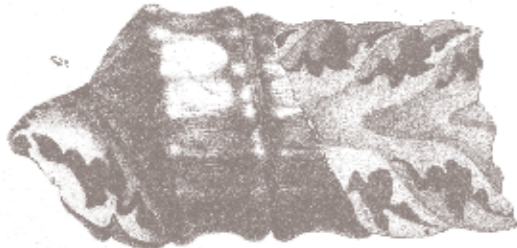


DIFERENT FOSSIL CONCENTRATIONS
IN THE SAME STRATUM

THE FROZEN LIFE MARBLE

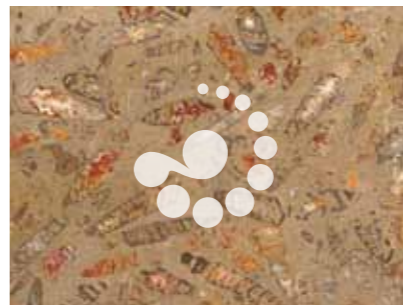
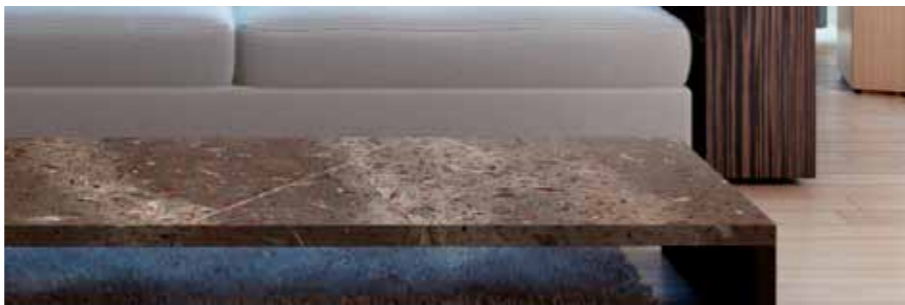
Natural stone is a versatile material that easily integrates in all spaces. Its quality has been historically confirmed and it shows an elegance that can only be transmitted by a natural element. Stone allows the development of tailor-made elements (like furniture, pavements, sculptures, etc.) for each architectural project. Due to its incomparable durability and low maintenance, stone is probably the most appropriate material for street furniture.

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bathroom



NSP001

58 - 59

Applications of Nerinea: Sculptural and decorative elements, hotel reception desks, home and urban furniture, wall covering and paving, corporate gifts, worktops and bathroom basins, stands for artistic work.Yacht interiors.



NBS001



NBR001



NBR005



NBB001



NBO001



NBT001



NRM001

8.e.

n. d. k. k. Hof- u. Staats-Druckerei.

incavata Bronn.

ulata Münst.

Orb.

Approximately 150 million years ago, in the Jurassic Period, the sea floors were inhabited by numerous molluscs, among which we find the Nerineas. Millions of years later and thanks to the fossilization, we can rescue the shells of said molluscs and present them to you in a amazing way.

Sheltered by the Peñagolosa massif, in the Zucaina district, inland of the province of Castellón, you can find the Nerinea's stone quarry. It is an area situated at 800 meters above the sea level and at more than 60 km from the coast. In this region, millions of years ago, a natural phenomenon occurred, leading thousands of molluscs to settle down on a small trip of the seabed.

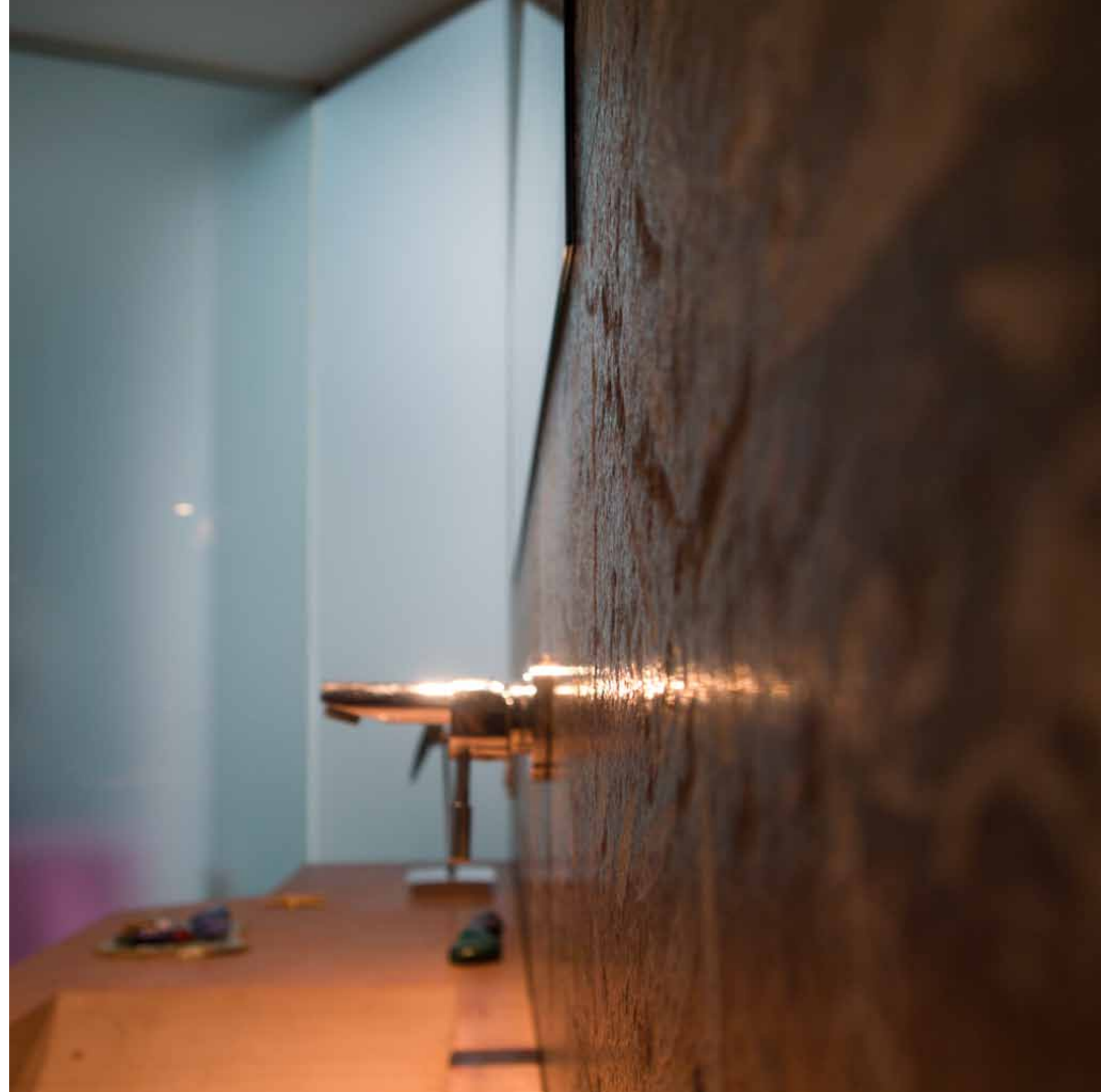


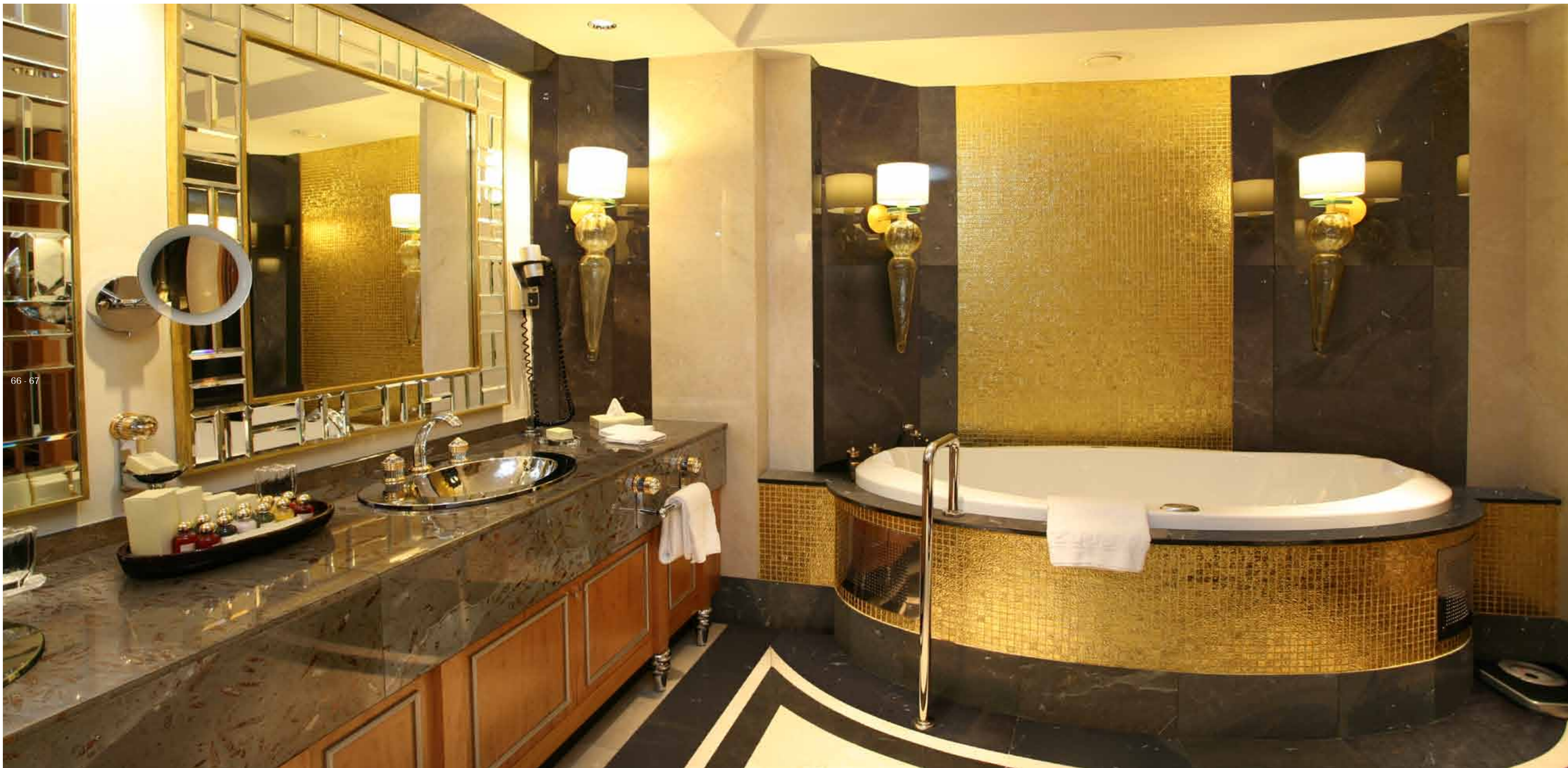


LUXURY SEMIPRECIOUS STONE

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CAPRICE OF NATURE

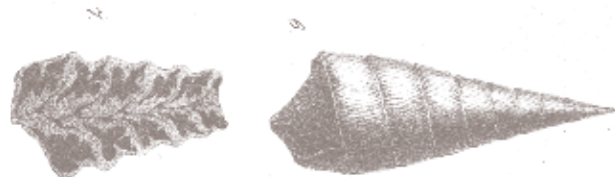
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TOUCH AND FEEL

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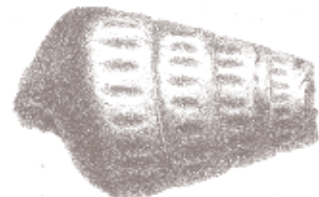




REAL FOSSIL FURNITURE

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FINITE PRODUCT



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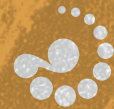
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