



"A customer is the most important visitor on our premises. He is not dependent on us. We are dependent on him. He is not an interruption in our work. He is the purpose of it. He is not an outsider in our business. He is a part of it. We are not doing him a favor by serving him. He is doing us a favor by giving us the opportunity to do so."

# **STONE UNIVERSE INC.** **PORCELAIN PAVERS**

[www.suistone.com](http://www.suistone.com)







## HISTORY

Stone Universe Inc. (SUI) has been in the stone market since 1999 as one of the leading natural stone Suppliers and wholesale distributors in the USA. Over a span of 19 years SUI has become the import leader of the highest quality natural stone products from INDIA, CHINA, TURKEY and SPAIN.

Our landscaping supply store is headquartered in San Lorenzo, California with 5 distribution centers in the states of Northern California, Southern California, Washington, Texas and Maryland.

SUI imports different varieties of natural stone including Limestone, Travertine, Quartzite, Slate and Sandstone. This year we are introducing PORCELAIN Pavers collection which not only gives the look but also offers all the features of Natural Stone Pavers with the added benefits of Porcelain.







MULTI  
CLASSIC



STEEL  
GREY



GOLD  
QUARTZ



AUTUMN  
MIST



CALIFORNIA  
GOLD



ANTIQUÉ  
BLACK



CANYON  
WOOD



AZUL  
WAVE



PEARL  
GREY



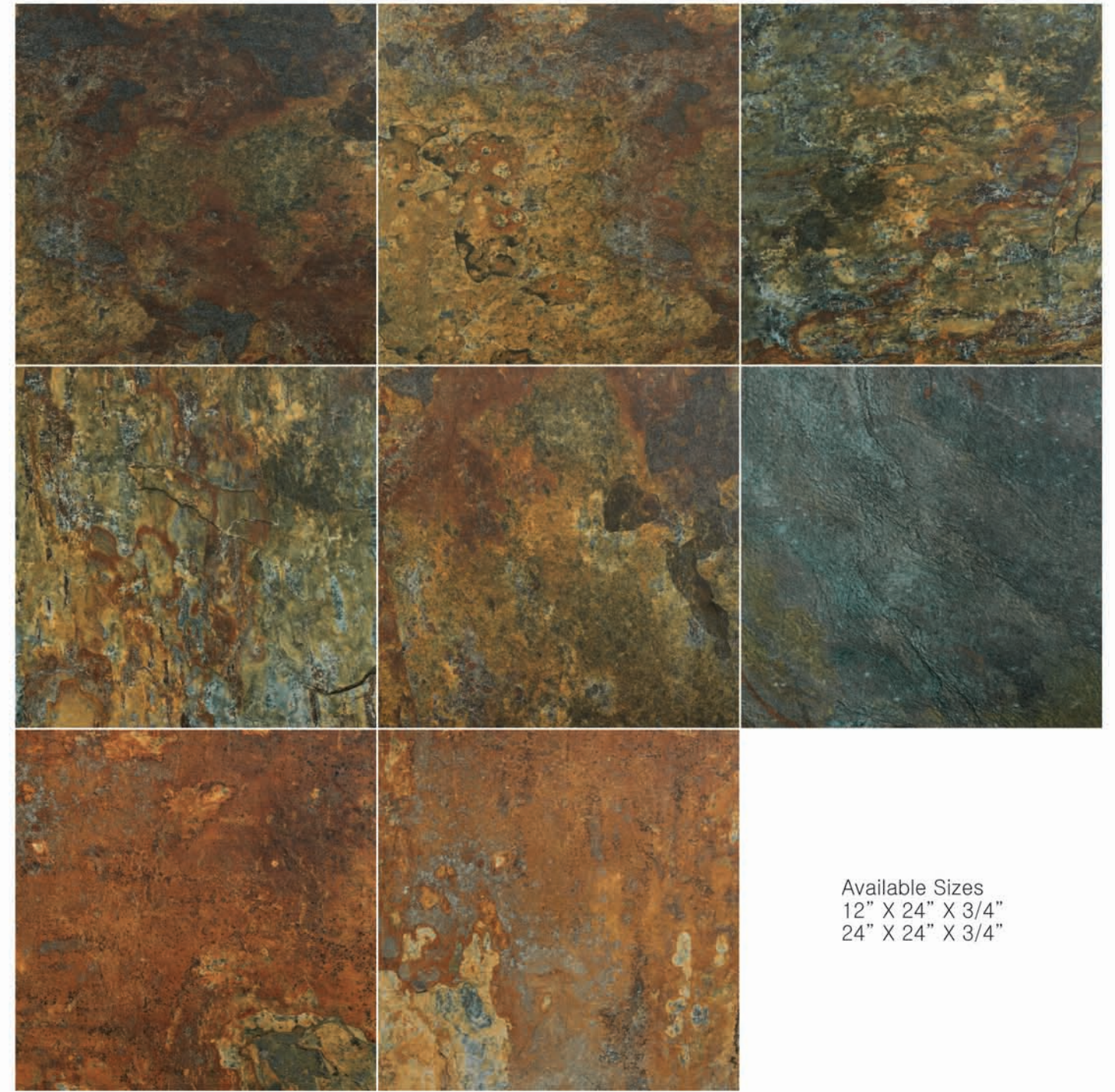
ARCTIC  
WHITE



# MULTI CLASSIC







Available Sizes  
12" X 24" X 3/4"  
24" X 24" X 3/4"

# MULTI CLASSIC



# STEEL GREY







Available Sizes  
12" X 24" X 3/4"  
24" X 24" X 3/4"

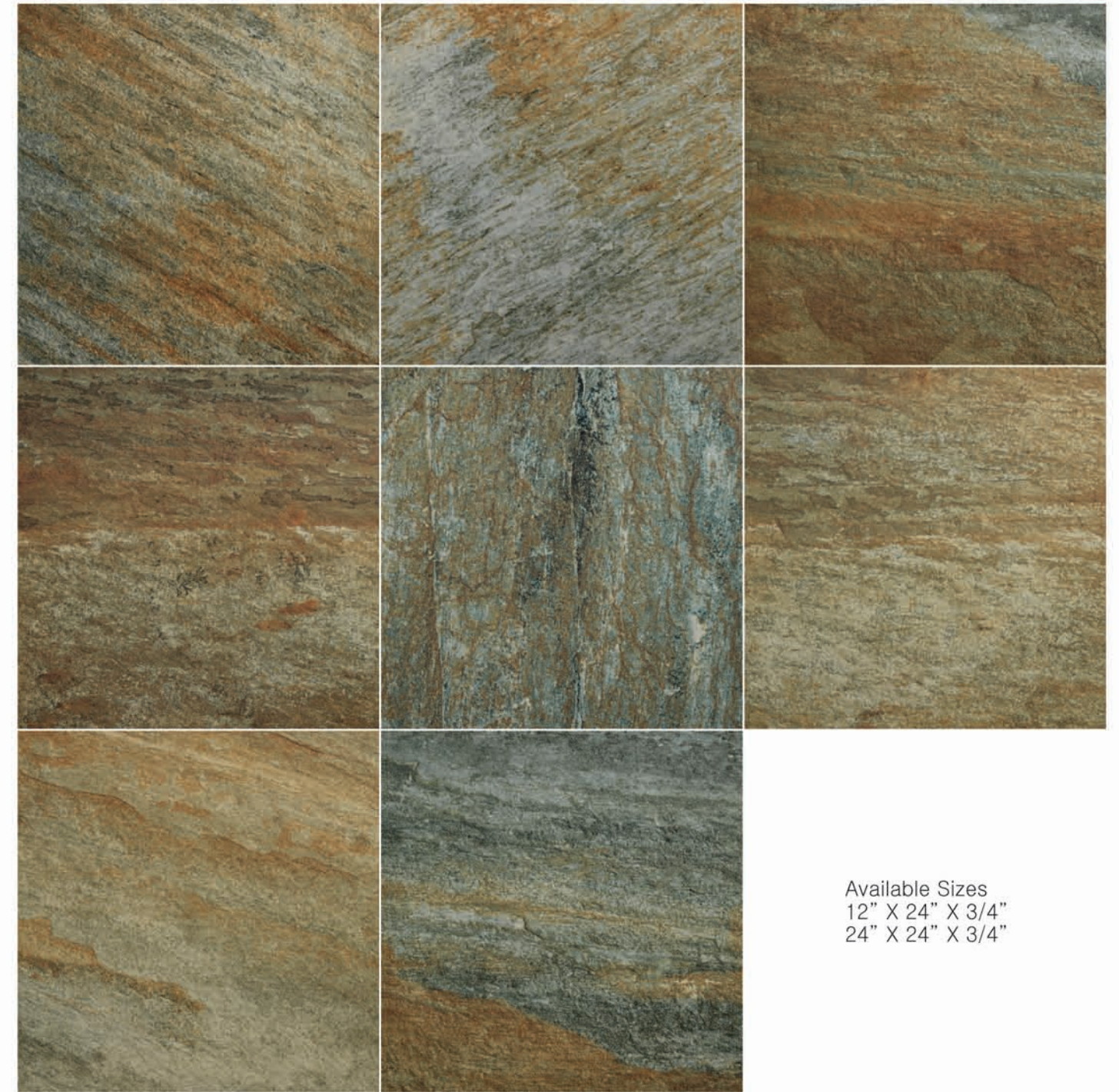
# STEEL GREY



# GOLD QUARTZ







Available Sizes  
12" X 24" X 3/4"  
24" X 24" X 3/4"

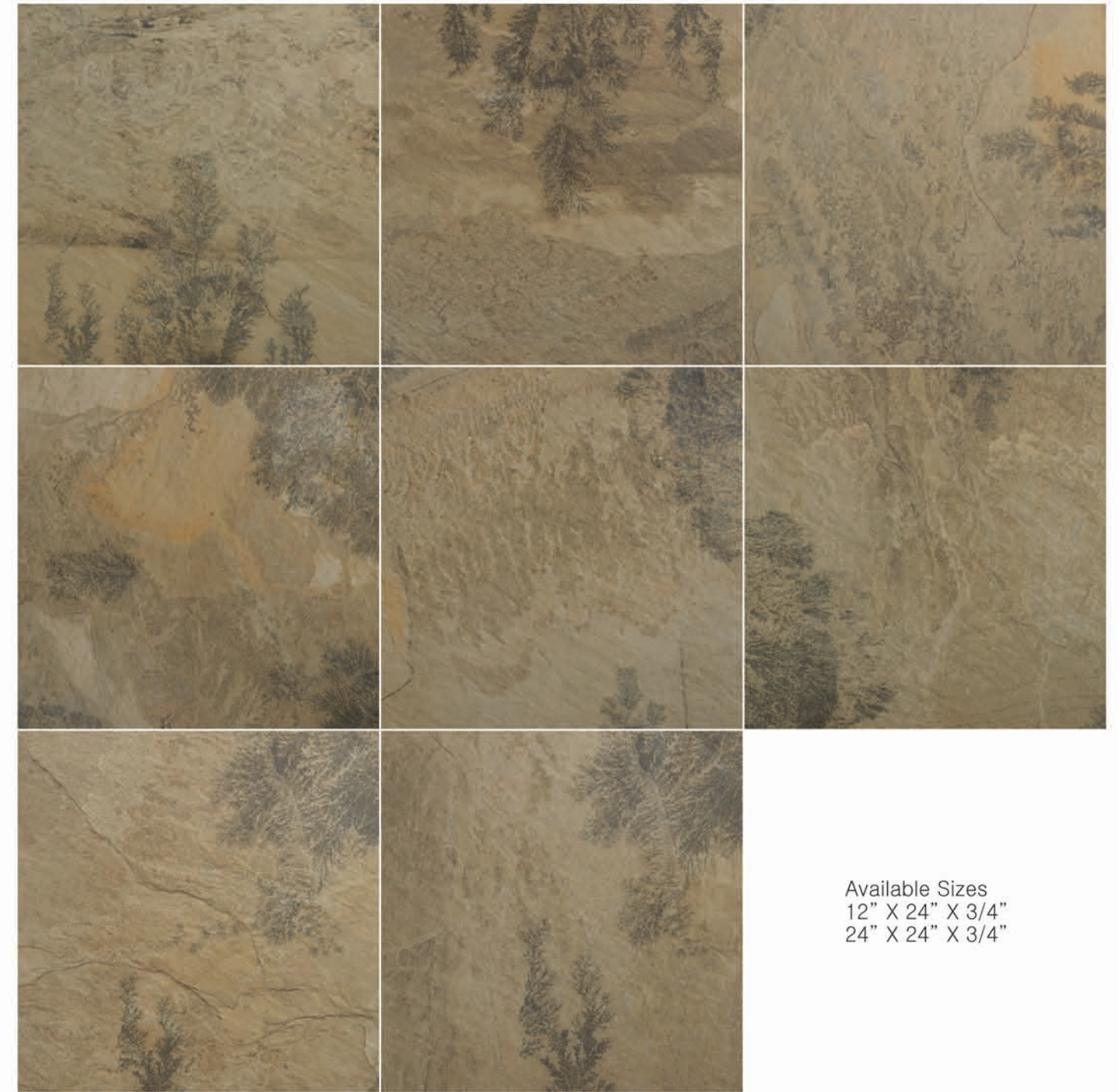
# GOLD QUARTZ



# AUTUMN MIST







Available Sizes  
12" X 24" X 3/4"  
24" X 24" X 3/4"

# AUTUMN MIST

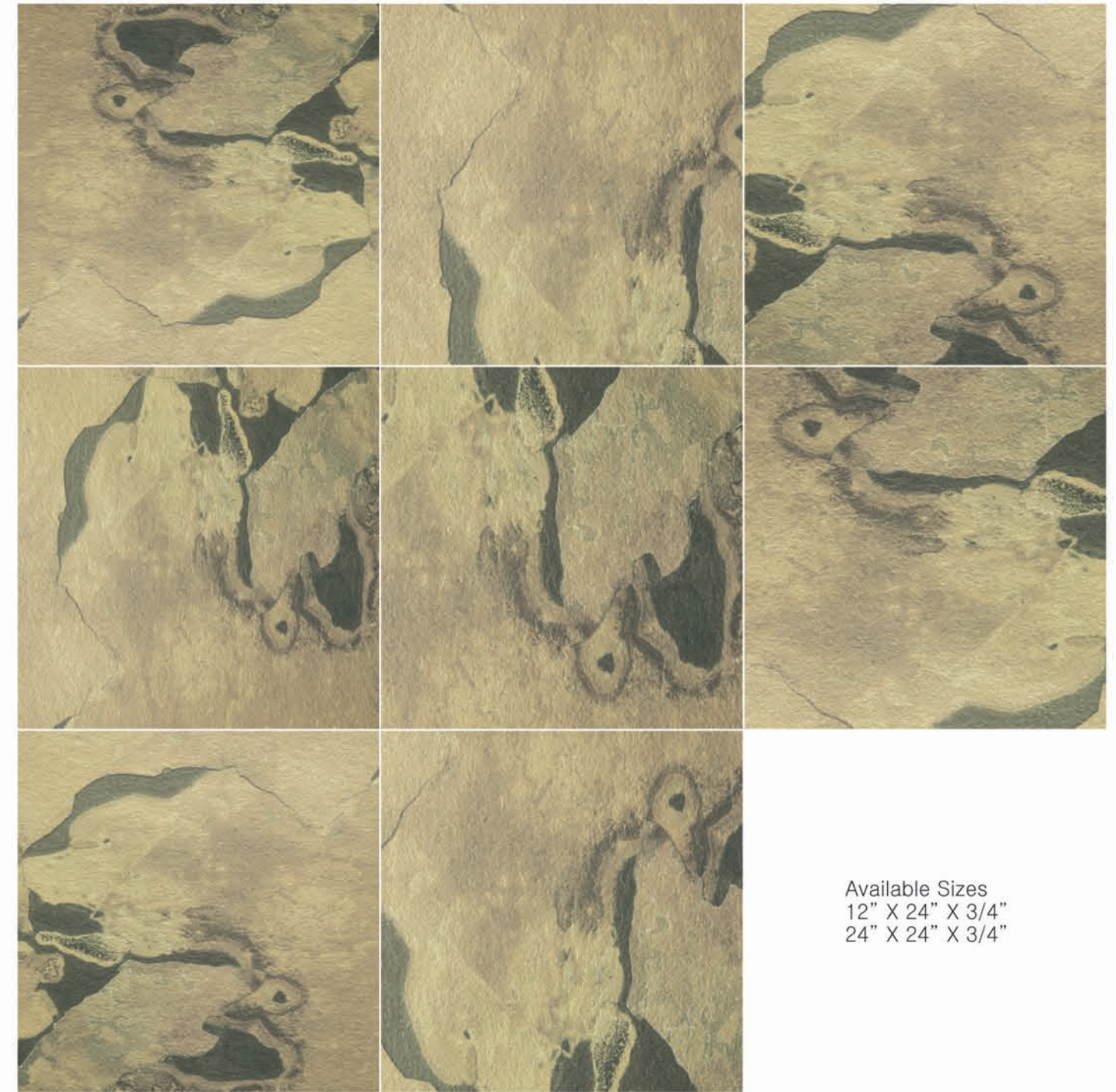


# CALIFORNIA

GOLD







Available Sizes  
12" X 24" X 3/4"  
24" X 24" X 3/4"

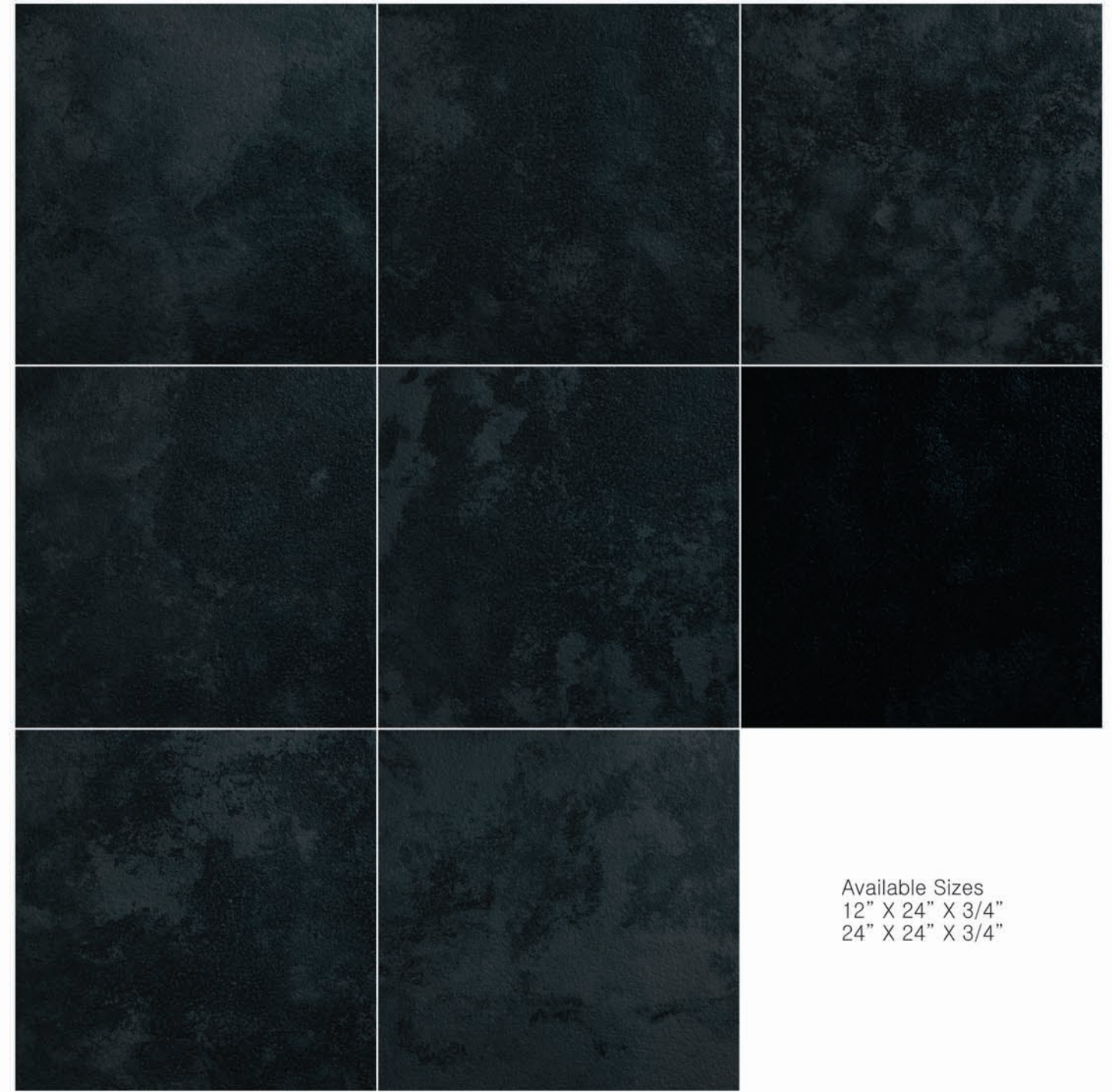
# CALIFORNIA GOLD



# ANTIQUE BLACK







Available Sizes  
12" X 24" X 3/4"  
24" X 24" X 3/4"

# ANTIQUE BLACK



# CANYON WOOD







Available Sizes  
12" X 24" X 3/4"  
24" X 24" X 3/4"

# CANYON WOOD



# AZUL WAVE







Available Sizes  
12" X 24" X 3/4"  
24" X 24" X 3/4"

# AZUL WAVE



# PEARL GREY







Available Sizes  
12" X 24" X 3/4"  
24" X 24" X 3/4"

# PEARL GREY



# ARCTIC WHITE







Available Sizes  
12" X 24" X 3/4"  
24" X 24" X 3/4"

# ARCTIC WHITE



STONE UNIVERSE INSTALLATION GUIDE FOR PORCELAIN PAVERS :

**PRELUDE :** This installation manual is for professional hardscape contractors who are familiar with proper construction techniques and the skills required to install the interlocking paving stone. This manual also assumes that the contractor has access to all the required tools of construction.

TOOLS REQUIRED

- 1. Wet Saw is equipped with a diamond saw capable of wet cutting porcelain. The saw should be designed to safely cut a 24" x 24" porcelain pavers.
- 2. Paver Clamps which can be used to install/ remove porcelain pavers with ease.
- 3. Appropriate notched trowels and grout float tools based on the adhesive and grout manufacturer's recommendations.
- 4. Spacers to separate the porcelain pavers from each other. Spacer G to support and space 4 paver corners and Spacer T to support and space 2 paver corners
- 5. Safety equipment like gloves is highly recommended while installing porcelain pavers.

**HANDLING PORCELAIN PAVERS :** Porcelain pavers are packaged and shipped protective cardboard boxes covered with heavy duty plastic to protect the pavers from chipping. Do not remove the protective cardboard boxes until they are ready to install.

**CAUTION :** Removing pavers from their protective packaging and handling multiple loose stones together might result in the possibility for chipping. When the heavy duty plastic pallet covers have been removed from the pallet, the un-used boxed pavers should be handled with care to prevent them.

**PIN POINTS :** Always dry the ground first, keeping 7-8% moisture for smooth leveling. Amount of pavers depends upon the sqft of the area. Porcelain paver installation never demands compaction with a plate compactor. Always pre-compact the area to lay porcelain pavers on sand, gravel, lawn, etc. Allow approx 4mm of the space between each paver with the help of a spacer.

**INSTALLATION PROCESS :** SUI is committed to ongoing investment into R&D. In this way, it can offer a range of models suitable for settings of all kinds where a specific slip resistance is required. It is essential to prevent slippery surfaces or falls outdoors, in wet indoor areas, on pavements, and in squares, lobbies, hallways, industrial kitchens, public toilets and swimming pools, among other places. A floor covering's slip resistance value determines the class to which it belongs, with a certain class being required for specific locations, as regulated in different standards.

Step 1 : Preparing the Patio Surface

Take an accurate measurement of project area length and width. With the help of marking paint, create a boundary perimeter of a patio. Mark wooden stakes outside the perimeter boundary to determine the height of the patio. Remember that decided area must have a gradient or slope (approx 1/8" to 1/4" per foot slope) for the free flow of water. This will prevent the pavement from being damaged.

Step 2 : Calculation Work

After preparing the surface, it's time to calculate the number of porcelain pavers required. Multiply the width by the length that you measure in step 1. Width x Length = Square Footage (sqft) of the Area \*It is recommended to add 5%-10% extra to this figure for future ease. Always keep some leeway at the time of installation. Square Footage (sqft) of The Area x Porcelain Paver Coverage Rate Ask your supplier about the coverage rate. The rate may vary depending on the size and shape of the paver used.

**Step 3 : Excavating Process :** Excavating - removing the extra hardscape elements from the surface you are going to paved new. Calculate the total depth of excavation needed: Total Depth = Sand Bedding + Paver's Thickness There can be two possibilities:

**Clean Grass :** At the time of digging the patio floor, you need to first clean all the dirt and extra grass. For this, use spade and shovel in the work area. Remove Gravel or Concrete: A fresh base is required to install stone pavers. Thus, use sledge hammer to break down concrete easily. Use a wheelbarrow to carry dirt, debris, and other waste items.

Step 4 :

Setting Sub Base



Sand Bedding



Sub-base gives a strong foundation to the patio floor. Here, aggregates act as a sub-base. Spread a layer of aggregates on the floor and level it with the help of the pre-compaction process.

Once the sub-base is ready, start working with the sand base. Installing porcelain pavers require the bedding course for which one needs mortar. Spread the mixture evenly on the ground using a shovel or trowel.

**Step 5 : Laying & Setting Porcelain Pavers** Start laying pavers in a sequence with the gap between them. Make use of a couple of strings as a marker to keep the paver align.



Remember, neither to drag the pavers across the sand, nor to stomp a paver into place. Clean the work area with a push broom or pressure washer. Use rubber mallet for placing it safely. Make necessary adjustments before the adhesive get dry.

**Step 6 : Edge Restraints :** Restraining of work area edges is essential to enjoy the paved area for long. If there are no edge restraints, harsh weathering conditions and high traffic ruin the paved surface.

**Step 7 : Filling the Joints (Grouting)** Once the adhesive gets dry, start the grouting process. Whatever material for grout you choose, press it well down into the joints to get rid of air pockets. Remove the excess with a damp cloth and let it get dry for at least one year.

WE RECOMMEND BEFORE ANY INSTALLATIONS COMPLY WITH LOCAL BUILDING CODES OR CONSULT WITH THE PROJECT ENGINEER OR ARCHITECT

"DISPLAY RACKS"

