

INSTALLATION PHOTO
Terassa Porcelain – TRetro Grey – FLSRB362, Citrus – FLSRB422

ARCHITECTURAL SYSTEMS, INC.
INTERIOR FINISHES | ESTABLISHED 1990

TERASSA PORCELAIN

Reminiscent of Art Deco and Moderne styling from the 1920s-1940s, **Terassa Porcelain** offers thirteen robust and colorful tiles for walls and floors in a range of sizes, including large format and aggregate chips embedded in a matrix. Embracing yet evolving from the past this contemporary full body porcelain captures the spirit of old Venetian terrazzo masters for a myriad of design possibilities with an artistic edge, suitable for the most exacting environments.

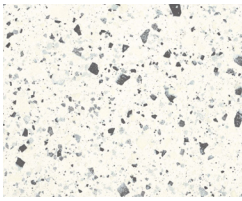
SPECIFICATIONS

SIZE	48" x 24", 24" x 24", 12" x 24", 8" x 8"
THICKNESS	10mm
FINISH	Honed, Polished, Textured
APPLICATION	Floors and Walls; Interior or Exterior
ASI® ADVANTAGE	Proprietary antimicrobial and anti-pollution coating is available with a 5000 sq.ft. minimum; GREENGUARD Gold Certification; Trim Pieces Available.

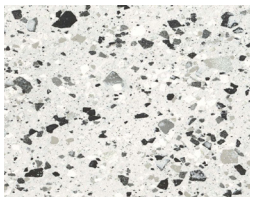
GREENGUARD® Indoor Air Quality Certified

*** Spec ID#'s are listed for 24" x 24" Honed** * In Stock products are subject to availability.
* Please note that variations in color and texture may occur due to the nature of the material

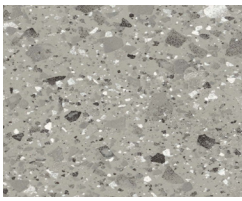
FLSRB359
ICE



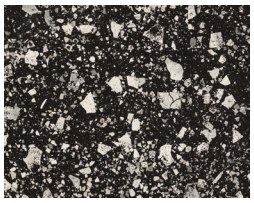
FLSRB360
CRUSHED WHITE



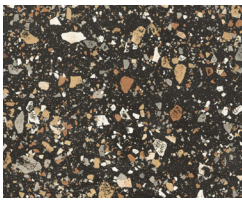
FLSRB361
SILVER COAT



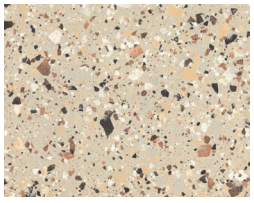
FLSRB362
RETRO GREY



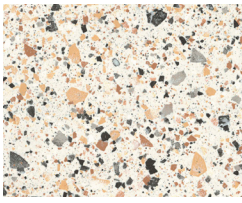
FLSRB363
NIGHT SKY



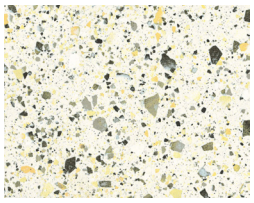
FLSRB366
COCOA



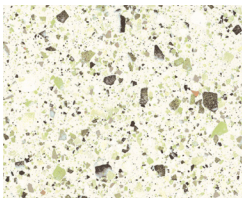
FLSRB365
AGAVE



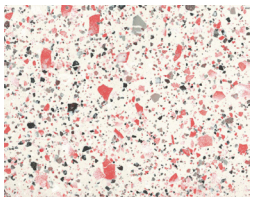
FLSRB364
APRICOT



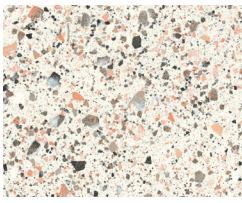
FLSRB422
CITRUS



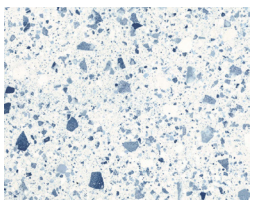
FLSRB420
OLIVE



FLSRB421
TERRACOTTA



FLSRB424
PASTEL PINK



FLSRB423
SEA BLUE

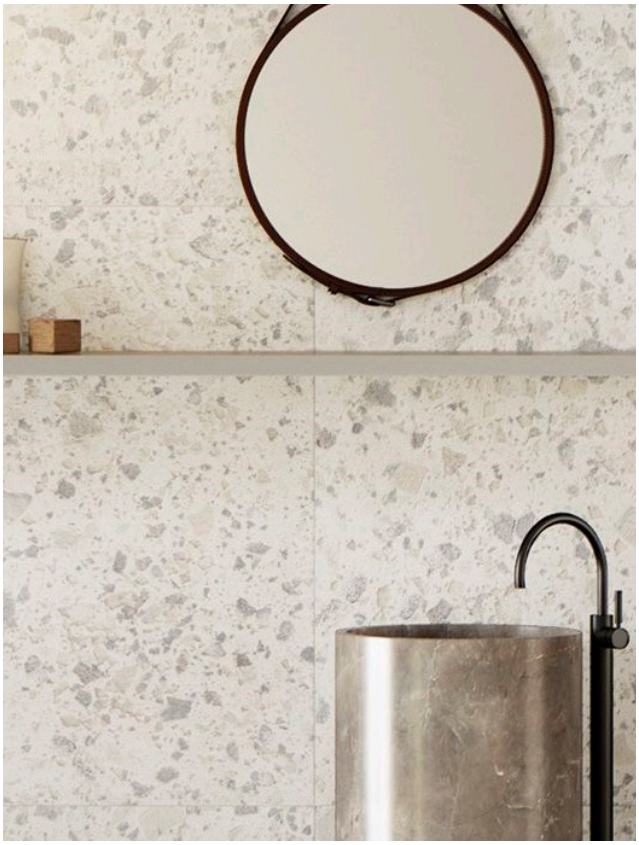




Madison Reed
Multiple Locations, In-House Design
Terassa Porcelain – Silver Coat – FLSRB361



INSTALLATION PHOTO
Terassa Porcelain – Terracotta – FLSRB421, Ice – FLSRB359



TECHNICAL DATA

HONED FINISH ONLY

ARCHITECTURAL SYSTEMS, INC.
INTERIOR FINISHES | ESTABLISHED 1990

Properties / Features	Standard of Test	Required Standards	Average Values of Production
Water Absorption	ISO 10545-3	≤ 0.5%	≤ 0.1%
Length and Width	ISO 10545-2	± 0.6% Max	± 0.1%
Thickness		± 5.0% Max	± 5.0%
Linearity		± 0.5% Max	± 0.1%
Rectangularity		± 0.5% Max	± 0.1%
Surface Flatness		± 0.5% Max	± 0.2%
Modulus of Rupture (R)	ISO 10545-4	≥ 35 N/mm^2	49 N/mm^2
Resistance to Deep Abrasion	ISO 10545-6	≤ 175 mm^3	≤ 140 mm^3
Thermal Expansion Coefficient	ISO 10545-8	-	$6.5x10^{-6}$ $°C^{-1}$
Thermal Shock Resistance	ISO 10545-9	-	Resistant
Frost Resistance	ISO 10545-12	No sample shows significant breakage or alteration	Compliant
Chemical resistance* • Household chemicals • Swimming pool salts • Low concentration of acid and alkakis • High concentration of acid and alkalis	ISO 10545-13	- Min. Class B - Manufacturer is to state classification - Test method available	A LA HA
Stain Resistance	ISO 10545-14	1 < X ≤ 5	Class 5
Color Resistance to Light	DIN 51094	No sample shows significant color variation	No change in brightness or color
Resistance to Fire	Decision 96/603 CE Test Absent	-	A1 - $A1_{FL}$

* With the exception of HYDROFLUORIC acid (HF) or its derivatives and compounds.

Note: Slip resistance varies according to surface finish. Test data for slip resistance per **DIN 51130/51097** is available on request. Contact sales@archsystems.com for more details.

TECHNICAL DATA

HONED FINISH ONLY

ARCHITECTURAL SYSTEMS, INC.
INTERIOR FINISHES | ESTABLISHED 1990

- The specimens were cleaned before testing
- Three (3) specimens were tested in all four directions with 4"long measurements.
- The SBR sensor was verified using a standard tile prior to testing.
- Testing was performed under wet conditions using 0.05% SLS water
- Testing was conducted under laboratory conditions at approximately 70°F and 50% relative humidity .
- using a calibrated BOT 3000E RSI device
- After testing, the SBR sensor was verified again according to the procedure.

TEST RESULTS

Direction	Sample 1	Sample 2	Sample 3
1	0,54	0,54	0,51
2	0,54	0,55	0,52
3	0,51	0,53	0,54
4	0,54	0,53	0,53
Average	**0,53**	**0,54**	**0,53**

AVG DCOF COEFFICIENT	**0,53**

COMMENTS :	

Specifications:

According to the ANSI A326.3, "Unless otherwise specified, hard surface flooring materials suitable for level interior spaces expected to be walked upon when wet with water shall have a wet DCOF of 0.42 or greater when tested using SBR sensor material and SLS solution as per this standard.

Protocol n° 160

ASI® | Architectural Systems, Inc.

TECHNICAL DATA

POLISHED FINISH ONLY

ARCHITECTURAL SYSTEMS, INC.
INTERIOR FINISHES | ESTABLISHED 1990

Properties / Features	Standard of Test	Required Standards	Average Values of Production
Water Absorption	ISO 10545-3	≤ 0.5%	≤ 0.1%
Length and Width	ISO 10545-2	± 0.6% Max	± 0.1%
Thickness		± 5.0% Max	± 5.0%
Linearity		± 0.5% Max	± 0.1%
Rectangularity		± 0.5% Max	± 0.1%
Surface Flatness		± 0.5% Max	± 0.2%
Modulus of Rupture (R)	ISO 10545-4	≥ 35 N/mm^2	49 N/mm^2
Resistance to Deep Abrasion	ISO 10545-6	≤ 175 mm^3	≤ 140 mm^3
Thermal Expansion Coefficient	ISO 10545-8	-	$6.5x10^{-6}$ $°C^{-1}$
Thermal Shock Resistance	ISO 10545-9	-	Resistant
Frost Resistance	ISO 10545-12	No sample shows significant breakage or alteration	Compliant
Chemical resistance* • Household chemicals • Swimming pool salts • Low concentration of acid and alkakis • High concentration of acid and alkalis	ISO 10545-13	- Min. Class B - Manufacturer is to state classification - Test method available	A LB HB
Stain Resistance	ISO 10545-14	1 < X ≤ 5	On Request
Color Resistance to Light	DIN 51094	No sample shows significant color variation	No change in brightness or color
Resistance to Fire	Decision 96/603 CE Test Absent	-	$A1 - A1_{FL}$

* With the exception of HYDROFLUORIC acid (HF) or its derivatives and compounds.

Note: Slip resistance varies according to surface finish. Test data for slip resistance per **DIN 51130/51097** is available on request. Contact sales@archsystems.com for more details.

TECHNICAL DATA

TEXTURED FINISH ONLY

ARCHITECTURAL SYSTEMS, INC.
INTERIOR FINISHES | ESTABLISHED 1990

Properties / Features	Standard of Test	Required Standards	Average Values of Production
Water Absorption	ISO 10545-3	≤ 0.5%	≤ 0.1%
Length and Width	ISO 10545-2	± 0.6% Max	± 0.1%
Thickness		± 5.0% Max	± 5.0%
Linearity		± 0.5% Max	± 0.1%
Rectangularity		± 0.5% Max	± 0.1%
Surface Flatness		± 0.5% Max	± 0.2%
Modulus of Rupture (R)	ISO 10545-4	≥ 35 N/mm^2	49 N/mm^2
Resistance to Deep Abrasion	ISO 10545-6	≤ 175 mm^3	≤ 140 mm^3
Thermal Expansion Coefficient	ISO 10545-8	-	$6.5x10^{-6}$ $°C^{-1}$
Thermal Shock Resistance	ISO 10545-9	-	Resistant
Frost Resistance	ISO 10545-12	No sample shows significant breakage or alteration	Compliant
Chemical resistance* • Household chemicals • Swimming pool salts • Low concentration of acid and alkakis • High concentration of acid and alkalis	ISO 10545-13	- Min. Class B - Manufacturer is to state classification - Test method available	A LA HA
Stain Resistance	ISO 10545-14	1 < X ≤ 5	Class 5
Color Resistance to Light	DIN 51094	No sample shows significant color variation	No change in brightness or color
Resistance to Fire	Decision 96/603 CE Test Absent	-	A1 - $A1_{FL}$

* With the exception of HYDROFLUORIC acid (HF) or its derivatives and compounds.

Note: Slip resistance varies according to surface finish. Test data for slip resistance per **DIN 51130/51097** is available on request. Contact sales@archsystems.com for more details.

TECHNICAL DATA

TEXTURVED FINISH ONLY

ASI® | ARCHITECTURAL SYSTEMS, INC.
INTERIOR FINISHES | ESTABLISHED 1990

- The specimens were cleaned before testing
- Three (3) specimens were tested in all four directions with 4"long measurements.
- The SBR sensor was verified using a standard tile prior to testing.
- Testing was performed under wet conditions using 0.05% SLS water
- Testing was conducted under laboratory conditions at approximately 70°F and 50% relative humidity .
- using a calibrated BOT 3000E RSI device
- After testing, the SBR sensor was verified again according to the procedure.

TEST RESULTS

Direction	Sample 1	Sample 2	Sample 3
1	0,53	0,56	0,57
2	0,57	0,56	0,57
3	0,55	0,56	0,56
4	0,56	0,57	0,57
Average	**0,55**	**0,56**	**0,57**

AVG DCOF COEFFICIENT	**0,56**

COMMENTS :	

Specifications:

According to the ANSI A326.3, "Unless otherwise specified, hard surface flooring materials suitable for level interior spaces expected to be walked upon when wet with water shall have a wet DCOF of 0.42 or greater when tested using SBR sensor material and SLS solution as per this standard.

Protocol n° 161

ASI® | Architectural Systems, Inc.

INSTALLATION METHOD

ARCHITECTURAL SYSTEMS, INC.
INTERIOR FINISHES | ESTABLISHED 1990

LAYING THE PORCELAIN

A well-laid floor enhances all of the aesthetic qualities of the material used.

- Check that the bed (concrete slab) is perfectly level and completely dry and smooth.
- Use a cleaning device, such as a vacuum, to carefully remove dust and residues.

(1) Select a suitable thin-set mortar and prepare it using the manufacturer's instructions.

Spread the mortar with a smooth spatula and then comb it with the tooth part. **ASI strongly suggests the use of polymer-modified thin-set mortar to increase the lifetime of your installation.**



(2) For heavy traffic floors, a **double layer** of thin-set mortar is recommended by wetting the back of the porcelain tile with thin-set mortar. This procedure prevents the possible creation of holes that could cause breakage.



The difference between spreading and double spreading is shown below.



(3) After approximately 24-48 hours, proceed to grout. The laid floor must be cleaned carefully and then grouted all over its surface using a rubber spatula. It is advisable to use colors similar to the floor, in order to acheive an ideal end result.

CUTTING THE PORCELAIN

It is necessary to use suitable, professional tolls, always checking cutting capacity and replacing worn parts when necessary.

- For accurate cutting use a traditional cutter, checking the state of the cutting wheel before starting.
- For circular cutting, create a template (eg. a pattern of the part to be cut), lay the template on the corresponding tile area, and transfer the shape with a pencil. Using a diamond-cutting disk, cut without exerting excessive pressure (see diagrams below).





CREATING HOLES IN THE PORCELAIN

It is necessary to use to use a water milling cutter or a continuous crown diamond-cutting disk.

(1) Pencil on the back of the product – the perimeter of a square within which the hole must be made.



(2) Use the cutting tool to cut perpendicular and diagonal lines and then concentric circles towards the outside within the penciled square.



(3) When the central thickness of the hole has become very thin, turn the piece over and open up the hole by tapping lightly. For holes in tiles a diamond point's drill for granite must be used. It is important to remember to cool the points often while working.

MAINTENANCE

ARCHITECTURAL SYSTEMS, INC.
INTERIOR FINISHES | ESTABLISHED 1990

QUALITY

ASI products are produced using the highest quality standards and the finest available raw materials. Glazed and unglazed porcelain products marketed under the manufacture trademarks are fully vitrified, resulting in extreme durability, hardness, and low water absorption. ASI products are highly stain and wear resistant. However, as with every surface material, a basic cleaning and maintenance program should be followed to maintain a satisfactory appearance and an acceptable level of performance.

CARE DURING CONSTRUCTION

ASI products are classified as a finish material. As such they should not be installed until after any heavy construction work has been completed. In instances where the ASI products are installed prior to the completion of construction special care must be taken to protect the tile until it is put into normal service. The general buildup of dirt and debris present on any construction site may negatively affect the performance of the tile if it is left unprotected. The best way to protect the tile surface is to cover it with a protective layer of Kraft paper, carpeting, cardboard, plywood, or any other material that will not adversely affect the tile surface.

INITIAL CLEANING AND MAINTENANCE

The most important cleaning operation is performed immediately after the tile has been set. This involves the complete removal of grout residue and construction dirt from the newly installed ASI products. Grout manufacturers provide directions for the cleanup of their products after installation has been completed. These directions should be followed.

In many cases ASI products can be successfully cleaned by scrubbing with a mild detergent, combined with a thorough rinsing. It is critical that all rinse water be removed through wet vacuuming or dry toweling. Should any grout residue remain, this process can be repeated several times as necessary.

For highly textured products, or when using a dark colored grout with a light-colored tile, a grout release may be used prior to grouting to assist in the removal of the grout from the surface of the tile. Before grouting, the contractor should test a small area of the tile to determine if the chosen color grout will discolor the surface of the tile, in which case a grout release should be utilized. Please follow the specific manufacturer's instructions for the use of any grout release product.

SURFACE COATINGS

The inherent density and low water absorption of all ASI products ensure a product that is easy to maintain. ASI products do not require the use of sealers or waxes. These surface coatings may negatively affect the performance of the tile.

SURFACE COATINGS CONT.

In some instances where an unglazed, polished porcelain product is used in an area subject to excessive exposure to dirt, a penetrating type sealer may be used. A penetrating sealer is designed to fill the microscopic pores created during the polishing process. It is not designed to coat the surface of the tile.

ASI recommends that all sealers be tested on a small inconspicuous area before general use on the floor. Please ensure you follow the manufacturer's instructions when using a penetrating sealer and do not allow the sealer to dry on the surface of the tile.

REGULAR MAINTENANCE

The inherent technical characteristics of ASI products ensures that they will be relatively easy to maintain and should provide years of enjoyment. Many general-purpose cleaners that are readily available are acceptable for use on ASI products. It is important that the cleaner has a non-oil, non-animal fat, non-soap base. These components can leave behind an invisible residue which can trap dirt. It is also important that the tile receive a thorough rinsing with clean water after the cleaning process has been completed.

The general cleaning steps for ASI products can be summarized as follows:

1. Remove all loose debris from the tile by sweeping with a soft bristle broom or vacuuming.
2. Any spills should be wiped up as quickly as possible.
3. Apply the recommended amount and dilution of the appropriate cleaner to the tile. Allow the cleaner to remain on the tile for short period of time (at least five minutes).
4. For unpolished tile, scrub with a nylon pad or soft bristle brush. For more heavily soiled floors a floor machine equipped with a nylon pad or bristle brush may be used. For polished tile, wipe or mop with a nonabrasive mop or cloth.
5. Remove the dirty cleaning solution and water with a wet vacuum or mop. Thoroughly rinse the tile with clean water, and remove with a wet vacuum, mop, or towel.
6. It is essential for all detergent residues to be completely removed from the tile. Any remaining detergent residue can dry on the tile and form a coating which can trap dirt and be very difficult to remove. The tile should be rinsed several times if necessary, to remove all detergent residue.

The frequency and timing of any maintenance program is dependent on the specific characteristics of each tile application. Factors such as foot traffic, environmental conditions and product color should be considered when planning your maintenance schedule. In high traffic areas, or in areas subject to excessive exposure to dirt, a more frequent cleaning schedule may be necessary.

A NOTE ABOUT CLEANERS

There are many cleaners on the market today which should provide you with satisfactory results.

All-purpose household cleaners such as Soft Scrub, Top Job, Mr. Clean, Ajax Liquid, Dow Bathroom Cleaner, Liquid Comet, and Fantastik are all suitable for general purpose cleaning of ASI products.

Soapless detergents such as Spic & Span and 409 may also be used. For the removal of stains on unpolished tile, scouring powders such as Comet, Bon Ami, or Ajax may be used. These may be used in conjunction with a nylon pad or soft bristle brush. **Steel wool is not recommended.**

For heavier cleaning requirements or commercial applications, products manufactured by Aqua Mix, Hillyard Industries, Walter G. Legge Co., or CeramaSeal may be used. These products are available through your local ceramic tile dealer. In all cases please ensure you follow the manufacturer's instructions. We also strongly recommend that all cleaners be tested first in a small, inconspicuous area before general use on the floor.

LIMITED WARRANTY

ARCHITECTURAL SYSTEMS, INC.
INTERIOR FINISHES | ESTABLISHED 1990

PLEASE READ BEFORE THE INSTALLATION

ASI guarantees that its products will be free of manufacturing defects and that they will meet or exceed the performance specifications set forth in ANSI 137.1.

One Year Limited Commercial and/or Residential Warranty

- This collection is approved for commercial and residential projects and installations.
- Our products must be examined ***prior to installation***.
- Missuses of the product by the purchaser including negligence, physical or chemical abuse is not covered by this warranty.
- Installation defects are not covered by this warranty.
- Visual defect or non-conformities apparent prior to installation are not covered by this warranty.
- This warranty will cover our products purchased by a residential or commercial user for up to 12 months from the date material is shipped.
- Certain factors on a jobsite are beyond our control and not covered under warranty; these include installation, structural design and environmental conditions.
- In the event of latent defects caused by improper manufacture, defined as tiles not conforming to industry standards, ASI will either refund the price for the defective pieces or provide replacement material of the same kind. ASI will not be responsible for any costs of labor, installation and/or removal of our products.
- ASI does not warrant that our glazed and unglazed porcelain will not scratch, chip or showsigns of wear.
- ASI makes no implied warranties of merchantability or fitness for a particular purpose or any other warranties expressed, or implied warranties implied, except as otherwise set forth above. Under no circumstances shall ASI be liable for incidental or consequential losses, damages, or expenses, directly or indirectly arising from the sale, handling or use of our products. No consequential (including loss of profits) or incidental damages are recoverable.

For further information, please contact sales@archsystems.com.