



Creative
Architectural
and
Residential
Ceramics



Reading Terminal Head House, Philadelphia/PA
Keope Quarzi Series

TABLE OF CONTENTS

GLAZED CERAMIC TILES

BUCHTAL/CHROMA	2-3
POOL CERAMICS	4
TUNNEL CERAMICS	4

JASBA MOSAIC TILES

5

FLOOR TILES

KEOPE PORCELAIN	6-7
TECHNICAL INFORMATION	8

GREEN FACTS

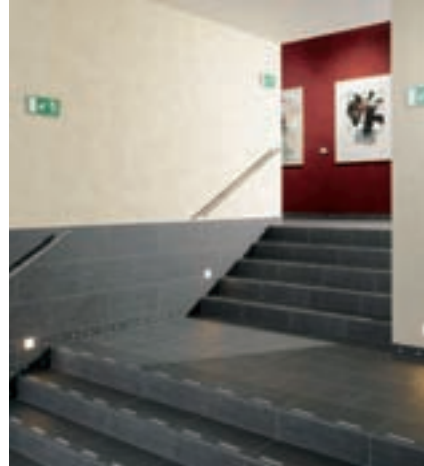
DSA's products offer a variety of ways which can contribute towards green building projects and potential LEEDs accreditation. BUCHTAL and JASBA products have pre-consumer recycling content from 10-20%, emit no VOCs and feature HYDROTECT, our patented surface coating which cleans the air from pollutants/irritants, inhibits growth of microbes and odors, and reduces the need for harsh cleaning agents or chemicals. KEOPE porcelains have pre-consumer recycling content of 3-4%, emit no VOCs, and the factory operates in line with the Kyoto Protocol's requirements for reduced greenhouse gas emissions to fight global warming. For more information, contact DSA.



AGROB BUCHTAL CERAMIC TILES

The Tiles for Architecture

With over a century of experience, Agrob Buchtal (now part of DSA) continues to provide innovative and quality products for the commercial building industry. Buchtal offers a seemingly endless range of products sure to fill the requirements of any application. Popular lines include Ferrum and Mechanica for robust/industrial applications, Geo and Natural Ceramics for high-traffic areas, as well as the versatile Chroma II System and the new revamped, Plural Plus System for walls and floors.



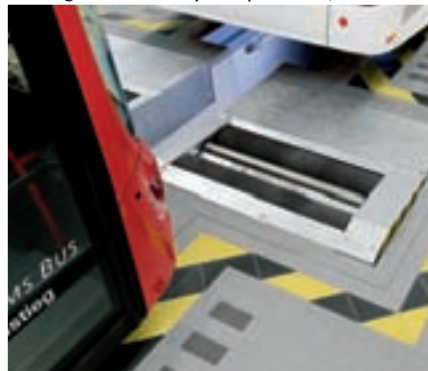
▲ Emergency Luminescent Tile for Power Outage

Chroma II offers one of the most extensive lines of glazed ceramic tiles ever. 47 colors that can be combined with finely shaded solutions and intriguing contrasts. Complemented by new large sizes of 15x30 and 20x40 inch, textured deep and high relief tiles, Chroma II also harmonizes with the other lines available within the System Chroma, e.g. Quantum unglazed floor tiles and a full range of non-slip pool ceramics. Thereby, it offers a multitude of possibilities for the design palette with an overall choice of 87 different color varieties. Additionally, system Plural has been revamped to PLURAL PLUS offering a multitude of additional color options and is a fully modulated system offering alternative wall, floor, trim and mosaics for an added range.

Buchtal systems meet ASTM standards and are frost proof, acid-resistant and non-fading, thereby suitable for interior and exterior use. Further, many systems, including Chroma and Plural Plus, offer the ease-of-cleaning HYDROTECT coating standard to help gain green building credentials in pursuit of LEEDs accreditation.

Customized
Graffiti Effect
for Toronto
Subway Station ▶

Garage with Safety Strip Tiles ▼



CHROMA II GLAZED WALL TILES

09 30 00/DSA
BuyLine 4052



Chroma Mosaics



Also available in 2x2 size and Matte Floor Finish

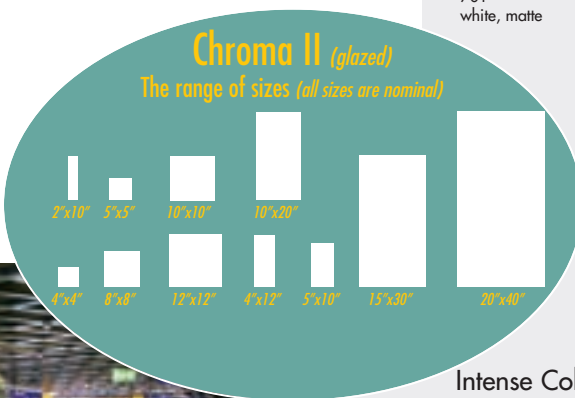


Deep Relief Tile



High Relief Tile

▼ Train Station with Guide Tile for Blind



Chroma II glazed (silky-matte)



5503 yellow 3

5504 yellow 4

5505 yellow 5



5513 green 3

5514 green 4

5515 green 5



5523 turquoise 3 *

5524 turquoise 4 *

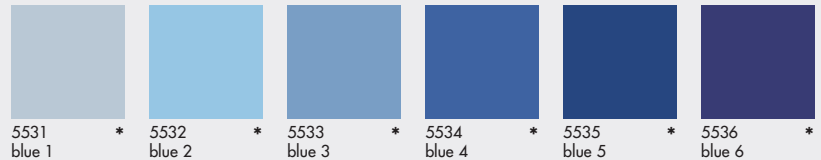
5525 turquoise 5 *



5583 azure 3 *

5584 azure 4 *

5585 azure 5 *



5531 blue 1 *

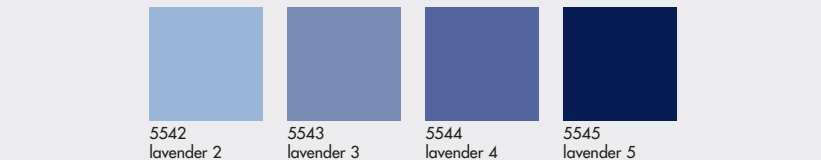
5532 blue 2 *

5533 blue 3 *

5534 blue 4 *

5535 blue 5 *

5536 blue 6 *



5542 lavender 2

5543 lavender 3

5544 lavender 4

5545 lavender 5



701 white, matte

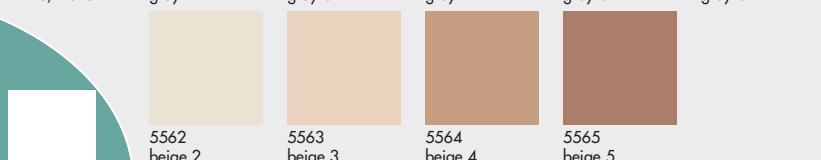
5552 gray 2

5553 gray 3

5554 gray 4

5555 gray 5

5556 gray 6

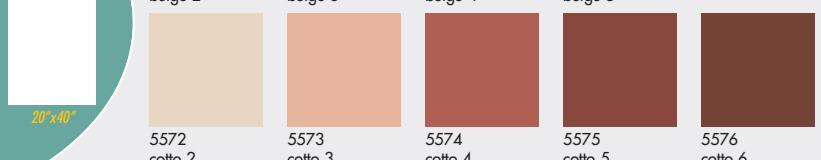


5562 beige 2

5563 beige 3

5564 beige 4

5565 beige 5



5572 cotto 2

5573 cotto 3

5574 cotto 4

5575 cotto 5

5576 cotto 6

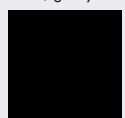
Intense Colors (glossy)



700 white, glossy

143 intense green **

144 intense blue



717 black, glossy

145 carmine red **



140 intense yellow **

Contrasting Colors (glossy)



151 orange

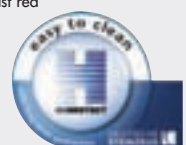
150 lemon-yellow

154 contrast red



152 apple-green

153 violet



POOL CERAMICS

Aesthetically Pleasing and Technically Sophisticated Approaches to Pools

Sports, leisure, therapeutic, hotel, and private pools are the special strong point of DSA. Technically sophisticated, DSA provides intelligent system solutions for the use of water for recreational and recuperative purposes. To facilitate comprehensive planning, the product range also provides for neighboring areas, such as saunas, fitness, and relaxation areas; Buchtal's advanced pool trim features alternative overflow channels, non-slip barefoot tiles, and accessories for all kinds of bathing landscapes. All enhanced with Hydrotect, Deutsche Steinzeug's revolutionary ease-of-cleaning, anti-mold, fungi and odor tile coating.

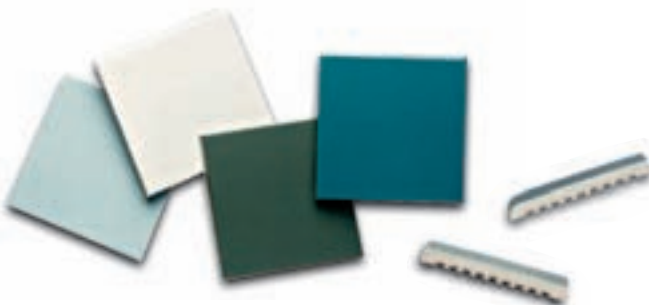
Special designs for individual projects can be provided tailor made to your specific needs. Make use of the experience we have gained from the several thousands of swimming pools we have supplied all over the world. Please contact us for more information and ask for our pool brochure.



TUNNEL CERAMICS

High-Performance Tiles for High-Impact Areas

DSA is the only remaining manufacturer offering white bodied, keyback tunnel tile. Our Chroma² glazed ceramic keyback tiles have been used on tunnels around the world. In the US alone, tunnels have been designed with 4 ¼ x 4 ¼, 5x10 and 8x8 sizes. Most recently, DSA products were used in the Lucius J. Kellam, Jr. Bridge-Tunnel across the Chesapeake Bay near Norfolk, VA and the Wheeling Tunnel in WV. The special keyback profile is required for structural purposes as it relates to vibration and impact in a tunnel environment. The key-back provides a mechanical bond, in addition to the chemical bond of mortar that affords engineers a comfort factor over traditional tile. In addition, Chroma²'s properties can meet the stringent requirements set forth by the State Departments of Transportation and other governmental concerns, such as bond strength, color measurement, glaze hardness and water absorption.



JASBA MOSAICS M2, C2 & AMAR

09 30 00/DSA
BuyLine 4052

Classic Form, Understated Elegance, Exquisite Performance.

With a beauty and durability all their own, Jasba M2 (square), C2 (penny round) and Amar glazed porcelain mosaics add a distinctive look



to any surface. Residential homes, lobbies, lavatories, pools, hospitality venues, murals and logos can be easily enhanced using versatile Jasba mosaics. Lend a bathroom an aura of cleanliness and


warmth. Accentuate open wall spaces with the unadorned beauty of mosaics and the exclusivity of the material. Be inspired to make more of every surface.



Throughout history, and still today, mosaics have lent a feeling of cleanliness and sensuous flair. Now, Jasba mosaics advance this further by offering HYDROTECT, DSA's patented ease of cleaning and microbe-reducing surface coating,

as standard on all tiles. Both M2 and C2 also offer anti-slip finishes (M2/C2 SECURA) in matching colors for continuous floor to wall design concepts, while Amar offers elegant 12x24 floor tiles for a finishing touch.



Jasba  Each piece of Jasba mosaic tile is individually beveled on its edges, frost proof, and suitable for exterior vertical walls. They are rear mesh-mounted and come in 12"x12" sheets. Ask for our full catalog and current sample binders.

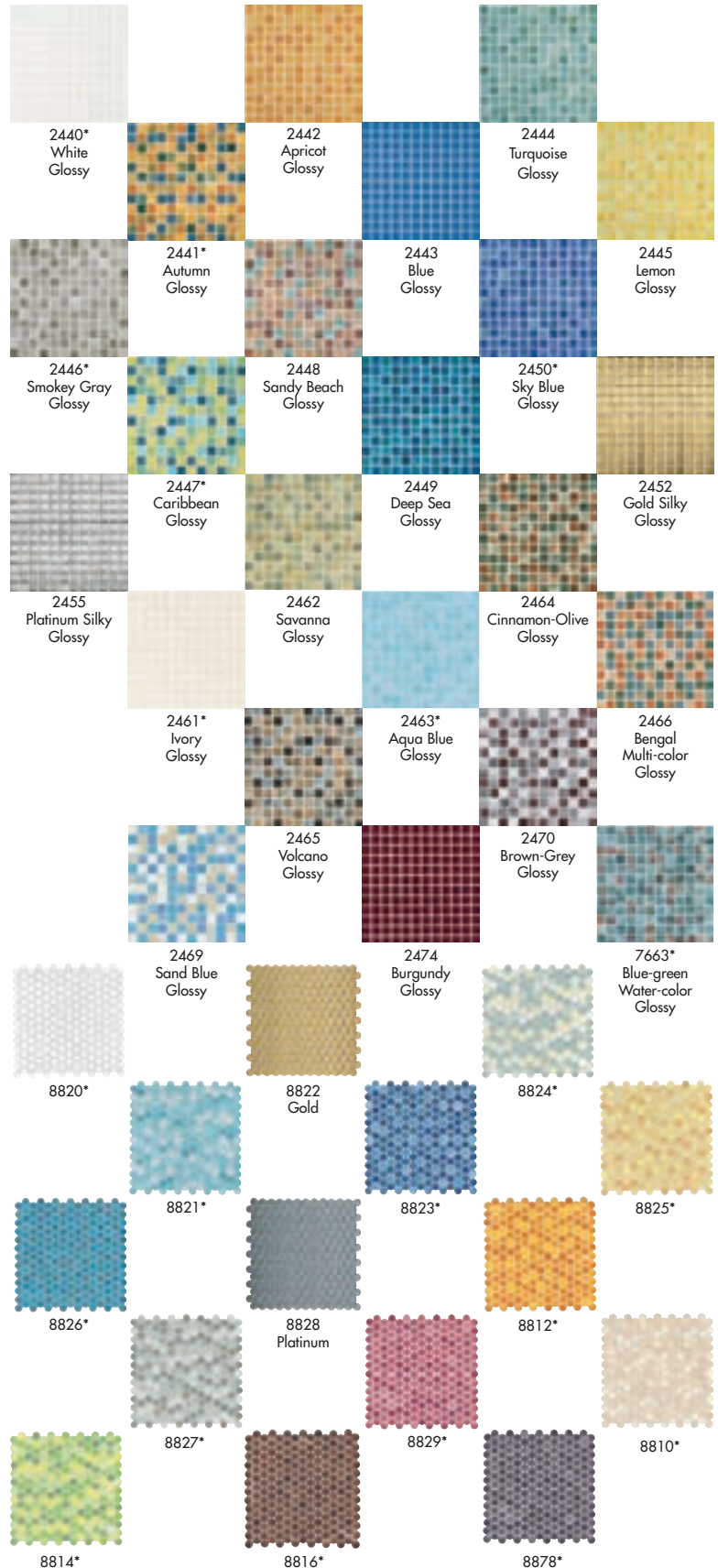
ASTM COF:
M2/C2 Secura: 0.8 Wet
Amar: 0.76 Wet



8202

8208

8216



*Available in anti-slip finish, SECURA.

KEOPE PORCELAIN TILES

The Clear Choice in Contemporary Design



CERAMICHE
KEOPE®

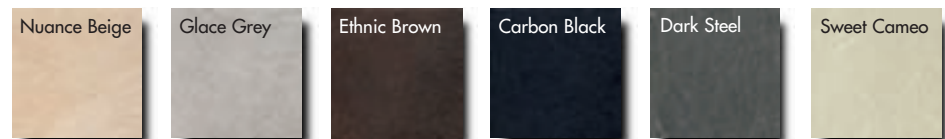
Keope through-body porcelain tiles are produced in Italy and distributed in the U.S. solely by DSA, Inc. A stunning collection of true porcelain floor tiles is available in monochromatic and granite-like colors, as well as in a variety of stone look-alike finishes. Keope is the first tile producer to operate in accordance with the Kyoto Protocol's requirements for reduction of greenhouse gases to fight GLOBAL WARMING. These cutting-edge products offer opportunities towards LEEDs accreditation without surrendering style, quality and choice. Contact DSA for architectural sample binders, as well as for more information on EcoLabel certification.

KEOPE SIZE AVAILABILITY OVERVIEW							
Sizes▼	Series▶	Arkasa	Cube (New)	Life	Maya (New)	Pietra di Noto	Wish
12 x 12		◆					
12 x 24		◆	◆	◆		◆	◆
24 x 24		◆	◆	◆		◆	◆
9 x 18		◆		◆	◆	◆	
9 x 36			◆		◆		
18 x 18		◆	◆	◆	◆	◆	◆
18 x 36			◆		◆		
Bullnose		◆	◆	◆	◆	◆	◆
Fascia Border		◆	◆	◆	◆	◆	◆
Mosaics		◆	◆	◆	◆	◆	◆
Listello Trim		◆	◆	◆	◆	◆	◆
Colored Accents		◆	◆	◆	◆	◆	◆



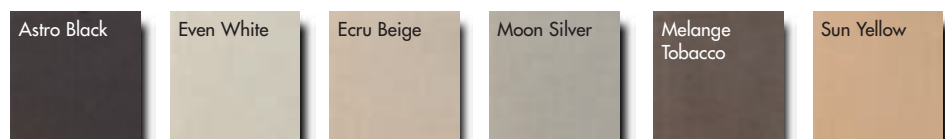
ARKASA ASTM Coefficient of Friction 0.7 Wet

The ARKASA series is fully homogenous and reproduces the look usually found in natural stone, slate or terracotta. Thanks to the special manufacturing process "Dry Tech", this porcelain tile is highly resistant to trampling and scratching. All colors are available in 12x12, 18x18, 12x24, 9x18 and 24x24 size. Special deco pieces such as mosaic listello and patchwork complement the line for setting striking accents.



CUBE ASTM Coefficient of Friction: 0.76 Wet

Cube, as its name implies, has an intensive geometric texture adding both a physical and visual contemporary feel to any room. This newest series from KEOPE is available in a wide range of sizes and is complemented with stunning deco, listello, mosaic and trim pieces. See chart at top of page for more information.



EcoLabel





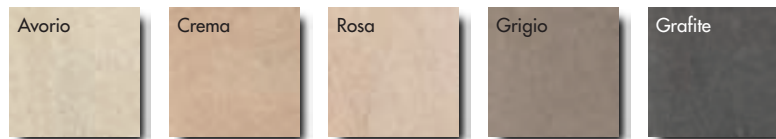
LIFE ASTM Coefficient of Friction 0.9 Wet

The LIFE rectified porcelain stoneware collection represents the latest in terms of technology for dry coloring porcelain mixtures, the most cutting-edge technique for producing modern porcelain tiles. Life is rectified and available in the natural MATT finish and in the TEXTURED version for refined exteriors and unique walls. See chart on opposite page for sizes and trims.



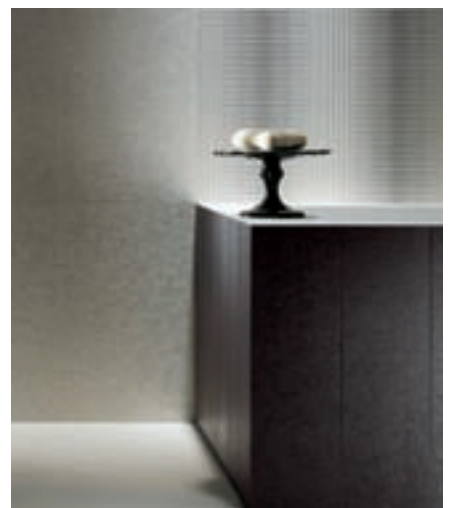
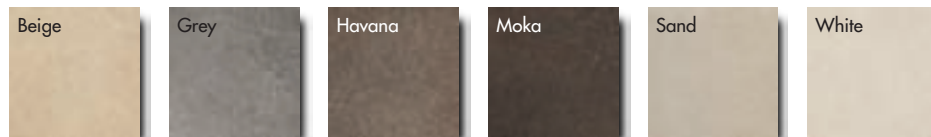
MAYA ASTM Coefficient of Friction 0.81 Wet

Brightness that glides, tracing shapes, caressing spaces. Maya captures it to create soft and fresh environments, in which echoes of the past are transformed into a contemporary play of light. This new series features both a MATTE and HONED finish for all 5 colors. See chart on opposite page for sizes, trims and deco pieces.



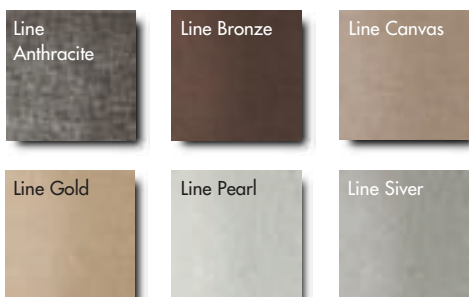
PIETRA DI NOTO ASTM Coefficient of Friction 0.8 Wet

This is the new collection by Keope that recalls a stone of Sicilian origin, characterized by rich patterns and small colored inserts. Pietra di Noto is rectified and offered in a natural MATT finish. The product's beauty is the result of delicate differences in pattern that make each piece unique and identical at the same time. See chart on opposite page for sizes and trims.



WISH ASTM Coefficient of Friction 0.6 Wet

Slim and precious patterns animate the surface and provide an opalescent effect in the new WISH rectified porcelain collection. The aesthetic impact of the brazed LINE finish is balanced with technical sophistication from DryTech, Keope's cutting-edge process for dry coloring porcelain mixtures which increases durability and hardness. See chart on opposite page for sizes and trims of this striking addition.



Color samples as shown may not be an exact product color match. DSA, Inc. explicitly disclaims any liability resulting from product selections that rely solely upon the color samples provided herein. Contact DSA for actual product samples prior to selection.

TECHNICAL PROPERTIES

Test	Test Method	Target/Tolerance Requirements
Water Absorption (Chroma glazed tile)	ASTM C373	Vitreous according to ANSI A137.1-1988
Water Absorption (Keope porcelain tile)	ASTM C373	Impervious according to ANSI A137.1-1988
Length	ASTM C499	Exceeds ANSI A137.1-1988
Width	ASTM C499	Exceeds ANSI A137.1-1988
Thickness	ASTM C499	Exceeds ANSI A137.1-1988
Flatness of Surface (Warpage)	ASTM C485	Exceeds ANSI A137.1-1988
Rectangularity (Wedging)	ASTM C502	Exceeds ANSI A137.1-1988
Abrasive Resistance	ASTM C501	Exceeds ANSI A137.1-1988
Bond Strength	ASTM C482	Exceeds ANSI A137.1-1988
Breaking Strength	ASTM C648	Exceeds ANSI A137.1-1988
Frost Resistance	EN 202*	Guaranteed
UV Resistance	DIN 51094*	Guaranteed
Acid/Alkali Resistance	EN 106*	Guaranteed

*Details of the DIN/EN Standards may be obtained from DSA, Inc. Please contact us for complete test data on specific series.

MAINTENANCE RECOMMENDATIONS:

Maintain tiles using clean water and a detergent, such as Hillyard's Super Shine-All or MTA's Star Porcelain & Ceramic Tile Cleaner as necessary. Always follow up with a rinse of clean water. Regular maintenance is recommended to avoid build-up of dirt, residue, grease, soap, detergents, or other external contaminants. Non-water soluble stains may require the use of a solvent such as acetone. Application of a sealer is not necessary. As with any ceramic tile product, the tile will wear over a period of time, depending on the traffic and usage.

SETTING RECOMMENDATIONS:

DSA recommends thin-set mortar over level non-moving support, i.e. broom-finished concrete. For concrete with cracking potential, the use of membrane may be appropriate. Please refer to the TCA's Current Handbook for Ceramic Tile Installation. For additional information on setting materials and membranes, please consult Mapei, Laticrete, Custom Building Products, and other manufacturers.

JOINTS:

DSA recommends a joint size of 1/4" for all non-rectified products due to possible variation in tile dimensions as is common in natural products. DSA recommends 1/8" joint for rectified products.

SPECIFICATIONS:

Guideline specifications are available upon request.

COLOR CONSISTENCY:

DSA recommends that the specifier request current samples of the tile color selected. Variations in shade and color are two inherent beauties found in all fired ceramic tile. All DSA tile samples are submitted only in the effort to show a representation of the final product received. We therefore cannot guarantee stocks from warehouse or factory to match submitted samples exactly.



Muhammad Ali Center in Louisville, KY.
Custom-colored KerAion Quadro facade panels form silhouettes.

LIMITED WARRANTY:

Seller warrants that its goods conform to the applicable ANSI, EN and DIN Standards mentioned above. Seller makes no representation or warranty of any other kind express or implied with respect to the goods, whether as to merchantability or fitness for a particular purpose or any other matter.

APPLICATIONS:

Product	Interior Floors	Interior Walls	Exterior Floors	Exterior Walls
CHROMA 2		◆		◆
JASBA M2/C2	◆*	◆	◆*	◆***
KEOPE	◆	◆	◆**	◆
QUANTUM	◆		◆	
PLURAL	◆	◆	◆	◆

* M2/C2 SECURA anti-slip finish only

** Textured surfaces only

*** Excluding metallic finishes

Please note: Any glazed floor tile is subject to abrasion and scratching over a period of time. In areas where heavy traffic and/or pivoting action is expected, DSA recommends unglazed or porcelain floor tiles. DSA generally does not recommend glazed floor tiles for exterior floor area.



Most of our glazed ceramic tiles (Chroma + Jasba) are furnished with the HydroTECT coating (minimum order may be required). HYDROTECT is a truly revolutionary breakthrough technology, which makes tile extremely easy to clean with the assistance from normal daylight. Organic materials are broken down naturally and easily washed away with water, setting new standards for beauty and cleanliness.

The merits of HydroTECT coated tiles are obvious in those areas of application where hygiene is critical, such as hospitals, laboratories, catering kitchens, restaurants and swimming pools.

Please contact us for information about our Ceramic Tile Facade Cladding Systems or refer to Sweet's section 07 44 00 Wall Panels

For pricing, samples and your local distributor contact:



Deutsche Steinzeug America, Inc.

Georgia Location: 367 Curie Drive, Alpharetta, GA 30005 • (770) 442-5500 • Fax (770) 442-5502

California Location: 1239 Allec Street, Anaheim, CA 92805 • (714) 774-7750 • Fax (714) 774-7122

E-Mail: info@dsa-ceramics.com Homepage: www.dsa-ceramics.com